

Case No. 84739

IN THE SUPREME COURT OF THE STATE OF NEVADA

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Nov 08 2022 04:38 p.m.  
Elizabeth A. Brown  
Clerk of Supreme Court

ADAM SULLIVAN, P.E., NEVADA  
STATE ENGINEER, et al.

Appellants,

vs.

LINCOLN COUNTY WATER  
DISTRICT, et al.

**JOINT APPENDIX**

**VOLUME 45 OF 49**

**KANE SPRINGS VALLEY  
WELL CONSTRUCTION AND  
TESTING DATA COMPILATION**

**Prepared for:  
LINCOLN COUNTY WATER  
DISTRICT AND VIDLER WATER  
COMPANY**

**URS Job No. 23444639  
March 2006**

COPY EX24

SE ROA 54029

JA\_18167

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000  
 Drilling Contractor: Lang Exploratory Drilling

Geologist(s): Hugh Klein  
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DEPTH (feet b/s)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
0		GP; prly graded Lrv (colluvium / alluvium) dk rds brn (10R 3/4) & mgry (N5) Ls	No pen rate info ft b/s = Lang depth - 5 ft
10		GP; prly graded Lrv; lt gry (N7) & brnsh yel (10YR 6/8) Ls w/ grysh rd (5R 4/2) Dls; grad is crs to f Lrv w/ 10% crs Lrv; sbang to rnd	No pen rate info
20		No Spl	No pen rate info
30		GP; prly graded Lrv; lt gry (N7) & brnsh yel (10YR 6/8) Ls w/ grysh rd (5R 4/2) Dls; grad is crs to f Lrv w/ 10% crs Lrv; sbang to rnd, but predly sbnd	No pen rate info
40		GP a.a.	No pen rate info
50		GP a.a.	<del>0.8 min / ft HK</del> 0.16 0.8 mpf
60		GP a.a. w/ only 5% L <sup>HK</sup> crs Lrv	1.2 min / ft
70		GP a.a.	<del>1.2 min / ft HK</del> 0.91 1.1 mpf
80		GP a.a.	<del>0.8 min / ft HK</del> 0.91 0.8 mpf
90			

Kane Springs Monitor Well (KMW-1)

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein URS  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
90		Lp a.a.	<del>0.8</del> min/ft HK 0.8 mpf 1.25
100		Lp a.a. w/ grad crs sd to f crv	<del>0.8</del> min/ft HK 0.8 mpf 1.25
110		Lp a.a. w/ grad crs sd	<del>1.25</del> min/ft HK 0.8 mpf 0.8
120		Lp a.a. w/ Qtzt	<del>1.25</del> min/ft HK <del>0.8</del> 0.8 HK 1.25
130		Lp a.a. w/o Qtzt	<del>1.25</del> min/ft HK 1.25 mpf <del>0.8</del> HK
140		Lp a.a.	<del>1.43</del> min/ft HK <del>0.8</del> HK 1.25 0.8 HK 1.43 mpf
150		Lp a.a.	<del>1.43</del> min/ft HK 1.43 mpf <del>0.8</del> HK 1.25 mpf
160		Lp a.a.	1.25 min/ft
170		Lp a.a.	1.25 min/ft
180		Lp a.a.	1.0 min/ft

190

SE ROA 54031

DEPTH (feet bis)	LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
140		LP a.a. w/ more lt gry (N7) Ls	1.6 min/ft
200		LP a.a. (colluvium); dk gry (N3) Ls Fracss & lms cl (wt rd Ls?)	0.75 min/ft
210		LP a.a. w/ m dk gry (N4) Ls Frags	0.75 min/ft; Drlr noted gry brck @ 213 ft bls
220		LP a.a. <del>wt m dk gry</del> Hk	3.75 min/ft; BHA = 218.01 ft lang rdd to 220; ft bls = Lang depth - 7 ft
230		Dis; dk gry (N3) Dis w/ Calc, Frac planes Hues Fe-ox on some frac planes/faces; Pyr evident w/ hand lens; microx; ans to slabs; appear 1 por; to appear 1 perm; 10; appear 2 Perm; 10 to mud; appear Dis a.a. w/ Fe ox string in Calc filled Frac	3.75 min/ft
240			4.75 min/ft
250		Dis a.a. w/o Calc filled Frac	4.75 min/ft; Drlr reported Frac from 251 to 253 ft bls
260		Dis; m dk gry (N4) to dk gry (N3) microx in Dis w/ Calc & Pyr (evident w/ hand lens); Frac planes faces w/ Fe-ox on ans to slabs; appear 1 por 1 Perm; 10; appear 2 Perm; 10 to mud	5.25 min/ft; hole took 2 ft of mud from tank
270		Dis a.a. w/ Calc more abd; Frac filled w/ Calc	5.25 min/ft
280		Dis a.a. <del>wt Hk</del> w/ vugs & <del>st</del> Hk sola features	6 min/ft

290

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
290		Dls; mod gelsh brn (10 yr 5/4), mgry, 1 dk gry (NS) Dls w/s Amts Calc; Fe-oxidation; Cht; microxln; ang to sbang; appar 1 Por & 1 Perm; lo	3.35 min/ft
300		Dls a.a.	3.35 min/ft
310		Dls a.a. w/ Fe string more prevalent	3.35 min/ft
320		Dls; mod gelsh brn (10 yr 5/4) <del>HK</del> <sup>HK</sup> <del>5000 gry (NS)</del> Dls; Calc; Fe string abd; Spl microxln; ang to sbang; appar 1 Por & 1 Perm; lo; Cht	7.1 min/ft; Dlr <del>at</del> <sup>HK</sup> <del>nted</del> <sup>HK</sup>
330		<del>HK</del> Dls; mgry (NS) w/ <del>HK</del> <sup>HK</sup> <del>same mod gelsh brn</del> Dls w/ Calc; Fe string; microxln; w/ Cht; ang to sbang; Frac faces/planes w/ Fe string; appar 1 Por & 1 Perm; lo; appar 2 Por & 2 Perm; lo to mod	7.1 min/ft - fractured HK - fraced
340		Dls a.a. w/ less Fe string <del>less mod gelsh brn 10 yr 5/4</del> <del>HK</del> <sup>HK</sup> <del>dot dot dot</del> <sup>HK</sup>	7.1 min/ft
350		Dls a.a. w/ calc frags	2.2 min/ft
360		Dls a.a. w/ more Fe string <del>more mod gelsh brn 10 yr 5/4</del> <del>HK</del> <sup>HK</sup> w/o calc frags	2.65 min/ft
370		Dls a.a.	2.65 min/ft
380		Dls a.a. <del>HK</del> <sup>HK</sup> w/ lt olv gry (5 yr 6/1) dot dot	2.25 min/ft

390

SE ROA 54033

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
390		dolst AA } incr in mod gelsh brn (10YR 5/4) dolst has 1/2 off	2.25 mPF
400		dolst AA w/ s calc frags	2.3 mPF
410		dolst AA	2.3 mPF
420		dolst AA	2.7 mPF; Drlr noted s frac @ 423 ft bls
430		dolst AA	2.7 mPF
440		dolst; med gry (N4) dolst w/ r s amt of dk gelsh <del>or (10YR 6/1) cly (ft gauge?)</del> ; microalgi; frags; cht; cly is stf / sticky; Fe stnins on dolst; ang to stnng; dolst: appar pri & sec por & perm: lo; cly: appar pri, pri	2 mPF; drlr noted brn rock @ 448
450		por: hi, appar pri perm: lo; sec por & perm: lo to mod	<del>2.05 mPF; smooth HX mud h/delg 3 SX mud per HX JT</del> 2 mPF
460		dolst AA	<del>2.05 mPF; smooth HX mud h/delg 3 SX mud per HX JT</del> 2.05 mPF; smth dnlr noted by dnlr; mixing 3 SX mud per JT
470		<del>med</del> dolst AA w/ s amt of gelsh or (10YR 6/1) cly (ft gauge?); cly is stf / sticky; calc frag to 5mm; cly: appar pri por: hi; appar pri, perm: lo	appar sec por & perm: lo to mod 2.05 mPF
480		dolst AA w/o calc frags	2.05 mPF

490

SE ROA 54034

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
490	HK	dolst; m gry (NS) <del>some mat getsh b. to 254)</del> <del>dolst; fractal; w calc; Fe stnd, microxln; ch; ang-                  sony; Fe stnins on fracs; appar pri por &amp; perm; lo;                  appar sec por &amp; perm: lo to mod</del>	2.05 m pf
500		dolst <del>AA</del> w calc frags & ls	2.6 m pf
510		<del>dolst AA</del> dolst & ls AA	2.6 m pf
520		dolst & ls AA w more Fe stnins	2.5 m pf
530		dolst; m dk gry (NS) dolst; fractal; w chl; Fe stning on fracs; microxln; ang-sbans; appar pri por & perm: lo; appar sec por & perm: lo to mod	2.5 m pf
540		dolst AA w s calc frags	4 m pf
550		dolst AA w/o calc frags but w calc vnlts up to 1mm thk	4 m pf
560		dolst AA w calc <del>pk</del> on frac planes	3.25 m pf
570		dolst AA w prom chl	3.25 m pf
580		dolst AA w/o calc on fracs or in vnlts; <del>no</del> prom chl; also contains s amt of dk selsh or (107R 61c) clay (Attgouge?); clay is	3.25 m pf
590			

stt sticks w appar pri por hi & appar pri perm lo

SE ROA 54035



## Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
Project Number: 23444322.40000Geologist(s): Hugh Klein  
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DEPTH (feet bis)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
590		dolst AA	3.25 mpa
600		dolst AA w/o clay & w/calc; some frags 1cm in diam	2.75 mpa
610		dolst AA w/o large calc frags	2.75 mpa
620		dolst AA w/ vugs; calc on fractrs	2.75 mpa
630		dolst AA w/o vugs	2.5 mpa
640		dolst AA w/ dk gelst or (107R6/a) clay / flt gouge?; clay is soft & sticky for pri appar per hit pri appar permeable to	2.75 mpa
650		dolst AA w/ lt olv grs (57 4/1) dolst	2.75 mpa
660		dolst AA w/ lg calc frags, some up to 1cm in diam	3.5 mpa
670		dolst AA w/o large calc frags & w/ calc vnts & calc on fract <sup>ns</sup> frags	3.5 mpa
680		dolst AA	3.2 mpa
690			

SE ROA 54036

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ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)

LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)

DEPTH (feet bis)	LOG	ADDITIONAL COMMENTS
690		
700		
710		
720		
730		
740		
750		
760		
770		
780		
790		

3.2 mpp  
dols; m gry (N5) 1/2 lt dk gry (S74/1)  
dols; fract; calc; some cht; Fe strings; ans-sbans  
upper pri perm: lo to mod; appar sec perm: lo to mod  
3.05 mpp; sily fract; ht  
fract-dolr  
3.15 mpp  
drlr - sily fract  
3.15 mpp  
3.6 mpp  
3.6 mpp  
4.12 mpp  
4.2 mpp; drlr noted qtzt  
@ 768 ft bls  
4.25 mpp  
upper pri perm: lo; appar sec perm: lo to mod  
4.25 mpp  
cht & calc in dolst;  
fract; cht & calc in dolst; appar pri perm: lo  
upper pri perm: lo  
dols (N3) dolst; s amt of lt gry (N7) qtzt; cht & calc in dolst;  
fract; cht & calc in dolst; appar pri perm: lo  
upper pri perm: lo  
dols (N3) dolst; s amt of lt gry (N7) qtzt; cht & calc in dolst;

dols; m gry (N5) 1/2 lt dk gry (S74/1)  
dols; fract; calc; some cht; Fe strings; ans-sbans  
upper pri perm: lo to mod; appar sec perm: lo to mod  
dols AA w/ less lt dk gry (S74/1)  
dols + s calc frags HIC  
dols AA w/ s calc frags  
dols AA w/o calc frags w/  
more Fe strings + cht HIC  
dols AA w/ cht  
dols + qtzt; AA w/ s amt of lt gry (N7)  
qtzt w/ dolst; lt gry (N7) qtzt w/ s amt  
dk gry (N4) to dk gry (N3) dolst; dolst  
was calc; cht; fract; micro; ans-sbans; appar pri perm: lo; appar sec perm: lo to mod  
dols w/ qtzt AA but dolst is m HIC  
m dk gry (N5) (dk gry (N4) dolst w/ s amt  
dk gry (N3) dolst; s amt of lt gry (N7) qtzt; cht & calc in dolst;  
fract; cht & calc in dolst; appar pri perm: lo  
upper pri perm: lo  
dols (N3) dolst; s amt of lt gry (N7) qtzt; cht & calc in dolst;

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
 Page: 9 of 21

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
790		dolst AA w/ Fe string	4.3 mpa
800		dolst AA w/ sand ls	4.3 mpa
810		dolst; m lt gry (N6), dk gry (N3) & blk (N1) dolst; frac; calc (some on frac); microxln; ang-stang; some calc frags; pri por & perm: lo; sec por & perm: lo to med	4.5 mpa
820		dolst AA w/ sand of lt olv gry (S7G11) dolst	4.10 mpa
830		dolst; m lt gry (N6) & lt olv gry (S7G11) dolst; calc; frac w/ Fe string; cht; ang-stang; microxln; appar pri por & perm: lo; appar sec por & perm: lo to med	5 mpa
840		dolst A1	6.4 mpa
850		dolst AA w/ less calc	5.2 mpa
860		dolst; dk gry (N3) dolst; frac; cht; <sup>Hik</sup> calc; microxln; ang-stang; appar pri por & perm: lo; appar sec por & perm: lo to med	5.1 mpa
870		dolst AA w/ calc vnlts	5.5 mpa
880		dolst AA w/ calc on frags	3.7 mpa
890			

SE ROA 54038

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
890		dolst AA w/ lt olvgry (576ri) dolst AK	4.3 m pf
900		dolst AA w/ lt olvgry (576ri) dolst	4.5 m pf
910		dolst AA w/o lt olvgry (576ri) dolst	4.5 m pf
920		dolst AA	4.5 m pf
930		1st dolst - m lt gry (NG) & lt olvgry (576ri) 1st dolst w/ sand of fr lt gry (NG) clay; 1st dolst: microxln, ans-sbang, w/ calc (some in vlt); appar pri por perm: lo	3.9 m pf
940		1st dolst AA clay is soft sticky; appar pri por hit	3.9 m pf
950		1st dolst; m lt gry (NG) & lt olvgry (576ri) 1st dolst; calc; cht; ans-sbang; appar microxln appar pri por perm: lo	2.4 m pf
960		1st dolst AA	5.7 m pf
970		dolst; m lt gry (NG) & lt olvgry (576ri) dolst; frac; microxln; calc; ans-sbang; appar pri por perm lo; appar sec por perm lo to mod	7.5 m pf
980		dolst AA	5.5 m pf
990			

SE ROA 54039

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Blein  
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DEPTH (feet b/s)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
990		dolst AA w/ v s vugs	5.9 m pf
1000		dolst AA w/o vugs	5.9 m pf; BH took a big drink at ~1003 ft + b/s (~ 1/2 tank) - some frags at ~ 1000 to 1003 ft b/s
1010		dolst AA	7.6 m pf
1020		dolst AA	7.6 m pf
1030		dolst: m gry & dk gry (N3) dolst <del>with</del> chlt; calc, fract; microcalc; ang - shang; upper pri per & perm: lo; upper sec per & perm: lo	10 m pf
1040		dolst AA w/ calc vnlts	7.6 m pf
1050		dolst AA w/o calc vnlts	2.9 m pf
1060		dolst AA w/ calc vnlts	6 m pf
1070		dolst AA w/ s amt of v lt clay (N8) gry (N8) clay; clay is soft & sticky; upper pri per hi, upper pri perm lo	5 m pf
1080		dolst w/o clay, w/ vugs	4.6 m pf
1090			

SE ROA 54040

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1090		dolst AA	4.8 mpf
1100		dolst AA w/ calc frags (1-2 mm)	6.4 mpf; drlr noted frac 7102 to 1103 ft bls
1110		dolst AA	5.8 mpf; rough drlrs 1112 to 1116 ft bls
1120		dolst AA w/ s amt v lt grs (Ns) cly; cly is soft & sticky; appar pri per hi; appar pri per lo	6.2 mpf
1130		dolst AA w/ Hl Fe string	11 mpf
1140		dolst AA	11 mpf
1150		dolst AA	7.9 mpf
1160		dolst AA	6.5 mpf
1170		dolst AA w/o cly	7.5 mpf
1180		dolst AA	6.2 mpf
1190			

SE ROA 54041

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY ( color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1190		dolst AA	6 m pf
1200		dolst; lt gry (N7) & m lt gry (N6) dolst; microxln jang-sbang; appar pri por? perm: lo	4.7 m pf frac started @ 1209 ft bls
1210		dolst; m dk gry (N4) & dk gry (N3) dolst; fracd; w/ calc; microxln jang-sbang; appar pri por & perm: lo; appar sec por & perm: lo to mod	5 m pf frac contd to 1213 m pf
1220		dolst AA w/cht & <del>dk</del> s amt dk gelsh or (10% cr) clay; clay is soft & sticky w/ appar pri por hi; & appar pri perm lo	4.5 m pf
1230		dolst + AA w/a cht & w/ vugs w/ clay	11 m pf
1240		dolst AA w/ vugs	7 m pf
1250		dolst AA w/ calc frags (~1mm)	6.9 m pf
1260		dolst AA	5.9 m pf
1270		dolst AA w/ a lt Fe string / vugs	4.1 m pf
1280		dolst AA w/ more Fe string	3.9 m pf
1290			

SE ROA 54042

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1290		dolst AA w/ calc on frags; Fe stringing not leveled off (amt)	4.8 mpa
1300		dolst AA	4.5 mpa
1310		dolst AA	4.9 mpa
1320		dols AA	5.7 mpa
1330		dolst AA w/ prom Fe stringing	6.4 mpa
1340		<del>dolst</del> clay idk yellow gr (10YR 6/10) clay (ft gauge?) mud or pink (5YR 8/4) qtz; clay is soft t-stck, qtz + microxln, ang-sbans; clay - appar pri por qtz - appar pri por perm - lo	6.9 mpa hi appar pri perm lo
1350		qtz; mud or pink (5YR 8/4) (graysh or pink (5YR 7/2) pink qtz; microxln; ang-sbans; appar pri por perm: lo	10.1 mpa
1360		qtz AA graysh or pink	18.4 mpa
1370		qtz AA w/ graysh or pink (5YR 7/2) as prim color	14.2 mpa
1380		qtz AA w/ v s amt of m lt gray dolst; dolst is microxln, ang-sbans w/ lo appar pri por perm	14.2 mpa
1390			

SE ROA 54043



DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1390		Dolst; m lt sry (N6) dolst; fracd w/ Fe string; microx (mang-sbang) icht; lo appar pri part perm; lo to mod appar sec part perm	14.3 m pf
1400		Dolst AA w/ more Fe string	8 m pf
1410		Dolst AA w/ more Fe string than 1400 - 1410	8.4 m pf
1420		Dolst; m dk sry (N4) dolst; microx (w/ fracd); ang-sbang; Fe string; calc; do appar pri part perm; lo to mod sec part perm	7.3 m pf
1430		Dolst AA w/ <del>gr</del> calc vnls	7.8 m pf
1440		Dolst AA w/o calc vnls	6.8 m pf
1450		Dolst AA	7.8 m pf
1460		Dolst AA w/ dk yelst or (w/ calc) clay (contam from 1340?); clay is sft / string w/ hi appar pri part perm; lo appar pri part perm	9.9 m pf
1470		Dolst; m lt sry (N6) dolst; m sry (NS) dolst w/ dk yelst or (w/ TR G/O) clay; calc - some vnls; chf; dolst microx; fracd; ang - sbang;	7.9 m pf clay contain?
1480		Dolst. lo appar pri part perm; clay contain from 1340? - hi appar pri part perm; lo appar pri part perm; lo to mod sec part perm	9 m pf
1490		Dolst AA	

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugslein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1490		dolst AA w/ more calc some on frags	9.2 mpf; a sk of mud this ST; s frac @ 1492 ft bls
1500		dolst AA	8.9 mpf; s frac @ 1510 ft bls
1510		dolst; m gry (NS) to lt olv gry (57611) dolst; calc; cht; some calc vnls; microcht; ang-s bun; lo appar pri por perm; lo to mod	13.3 mpf; smwt fracd @ 1513 ft bls appar sec por perm
1520		dolst AA w/ Fe string & calc vns	11.8 mpf
1530		dolst AA w/ mod rdsh brn (10YR 4/6) clgy silt; silt is lo appar pri por t lo appar pri perm	12.5 mpf
1540		dolst AA w/o silt & w more calc vns	10.5 mpf
1550		dolst AA	8 mpf
1560		dolst AA w/ dk gelsh gr (10YR 6/6) clgy (contam from 1540?); clgy is sft fslck w/ hi appar pri por t lo appar pri perm	9.6 mpf; thin brkn zone @ ~ 1564-1568 ft bls
1570		dolst AA w/o clgy & w mod rdsh brn (10YR 4/6) clgy silt; sh has thin lam; lo appar pri por t perm	8.4 mpf
1580		dolst AA w/ sh	10.3 mpf
1590			

SE ROA 54045

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1590		dolst AA w/ ch & w/ ls	10.3 m pf
1600		dolst AA w/ ls	7.5 m pf
1610		dolst; m lt gry (N4) to md dk gry (N4) dolst w/ ple rdsh brn (10R5/4) clay; dolst micaceous; ch; clay lgy, sft, ls; dolst ang-sbuns, lo appar pri porl perm; clay hi appar pri	8 m pf; clay noted by drlr @ 1615 & 1619 ft bls
1620		dolst; m dk gry (N4) dolst w/ s ant dk gelsh or (10YR 6/6) clay (contam from 1340?); fract; ch; dolst - lo appar pri porl perm; <sup>AK</sup> appar sec porl perm l to mod	9.5 m pf appar pri porl perm; clay hi appar pri porl perm
1630		dolst AA w/ less clay	11.1 m pf
1640		dolst AA w/ less clay	11.8 m pf
1650		dolst & clay; md dk gry (N4) dolst & ple rdsh brn (10R5/4) clay; fract; Fe staining; ang-sbuns; dolst-cht & lo appar pri porl perm; clay sft ls; ch w/	10 m pf appar pri porl to appar pri por
1660		<del>sec appar sec porl perm l to mod</del> dolst & clay AA w/ dk gelsh or (10YR 6/6) clay (contam from 1340) too; clay is lgy	10 m pf
1670		dolst & clay AA	9.7 m pf
1680		dolst & clay AA w/ clay decreasing	5.8 m pf

1690

SE ROA 54046

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1690		dolst AA w/ v ltl cly	4.9 mpf
1700		dolst AA w/ minimal cly	6.2 mpf
1710		dolst & cly; med dk gry (N4) to dk gry (N3) dolst w/ mod amts dk gelst or (10yr G10) cly (contam?); fract; microactn; cht; calc; ang-sbang;	5 mpf
1720		Fe staining on frags; dolst - lo appar pri por cly - hi appar pri por / lo appar pri perm; appar sec por / perm lo to mod dolst AA	6 mpf
1730		dolst & cly AA w/ ple rdsh brn (10R5/4) cly; cly is firm / not v sticky w/ hi appar pri por / lo appar pri perm	4.9 mpf
1740		dolst & cly AA w/o ple rdsh brn (10R5/4) cly	6.9 mpf
1750		dolst & cly AA w/ ple rdsh brn (10R5/4) cly	9.5 mpf
1760		dolst & cly AA	8.7 mpf
1770		ss & dolst; mod brn (10R5/4) calc ss & med dk gry (N4) dolst w/ s amt dk gelst or (10yr G10) cly (contam?); fract; dolst microactn; ss	9.4 mpf
1780		dolst; med dk gry (N4) dolst; calc; cht; fract microactn; ang-sbang; lo appar pri por / perm; lo to mod sec por / perm	9 mpf

Fgrn; red ang-sbang; cly sft & sticky (over)

1790

SE ROA 54047

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1790		dolst AA	10 m pf
1800		dolst AA w/ solution <sup>HK</sup> soln features (karstic)	8.1 m pf
1810		dolst AA	6.8 m pf
1820		dolst AA w/ calc vnltz	6 m pf
1830		dolst AA w/ <del>mod</del> Fe stringing	8.6 m pf
1840		dolst AA w/o calc vnltz	7.2 m pf
1850		dolst AA w/ Fe string on fracs	6.6 m pf
1860		dolst AA w/ dk yelsh or (lo ya c/c) clay (contam?)	6.8 m pf
1870		dolst AA w/ clay	5.9 m pf
1880		dolst AA w/ mod brn (57R 4/4) calc ss; ss is lo appar pri por & perm; v f s	5.5 m pf

1890

SE ROA 54048

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1840		dolst AA	7.2 m pF
1900		dolst AA	5 m pF
1910		dolst AA	5.7 m pF
1920		dolst AA	5.3 m pF
1930		dolst AA w/ Fe staining & calc vnlts	6 m pF
1940		dolst AA w/o calc vnlts	4.7 m pF
1950		dolst AA	5 m pF
1960		dolst AA	5.5 m pF
1970		dolst AA w s amt of vlt grs (NB) clay	5.4 m pF
1980		dolst AA w/o clay	4.6 m pF

1990

SE ROA 54049



SE ROA 54051

JA\_18189



Kane Springs <sup>1K PW</sup> Tor Well (KAW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000  
 Drilling Contractor: Lang Exploratory Drilling

Geologist(s): Hugh Klein

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DEPTH (feet b/s)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
0		LP (alluv) ; prly graded Lvl - Sd mxtr of med yelsh brn (10R2.5/4) <sup>calc</sup> Sd ; dkly brn (5YR2/2) calcsh ; lt gry (N7) and med rdsh brn (10R4/4) Ls Lvl ; ang - S bang <sup>HK</sup>	No pen rate info
10		LP a.a.	No pen rate info
20		LP a.a.	No pen rate info
30		LP a.a. w/ dk gry (N3) Dls Lvl	No pen rate info
40		LP a.a.	No pen rate info
50		LP a.a.	No pen rate info
60		LP a.a. w/o Dls	No pen rate info
70		LP a.a.	No pen rate info
80		LP a.a. w/ s Amt dk gry (N3) Dls Lvl	11.6 min/ft
90			

Client: Vidler Water Company  
 Project Number: 23444322.40000

KPW Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
90		Lp a.a.	4.05 min/ft
100		<del>Lp a.a.</del> HK a.a. w/ s Amt graysh rd (5R4ra) Cl; Cl is soft & sticky	4.05 min/ft
110		Lp a.a.	4.1 min/ft
120		Lc; Lvl - sd - Cl; metre; dsk brn (5R2a) calc sh, mod rdsh brn (10R4ra) Ls, & dk gr (NS) Dls w/ graysh rd (5R4ra) Cl; ang - shang. Cl is soft & sticky; Cl calc	4.1 min/ft
130		Lc a.a. w/more Dls Lvl	3 min/ft
140		Lc a.a.	3 min/ft
150		Lc a.a.	3.66 min/ft
160		Lc a.a.	3.66 min/ft
170		Lc a.a.	2.75 min/ft
180		Lc a.a.	2.75 min/ft
190			

Kane Springs Monitor Well (KMW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
 RPW Page: 3 of 21

DEPTH (feet b/s)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
190		LCL a.a.	2.75 min/ft
* 195		LCL a.a. w/ less Cl <sub>2</sub>	BNA had a DC added so the length changed which affected the sampling 5.8 min/ft
205		LSP; prly graded LVI of ple rdsh brn (10R 5/4) calc SS & m lt gry (N6) Ls w/ s Amt Cl <sub>2</sub> ; Cl <sub>2</sub> is grysh rd (5R4/2) soft sticky; ang to skins	5.8 min/ft
215		LSP a.a. w/o Cl <sub>2</sub> & w/ dk gry (N3) Dls	5.5 min/ft
225		LPara.	3.7 min/ft (mpf)
235		LPara. but predly Dls	5.9 mpf
245		LSP a.a. but almost all Dls	2.7 mpf
255		LSP a.a. transition to Dls bdrk	6.2 mpf
265		Dls; dk gry (N3) Dls; microaln; ang - skins; w/ Calc; 1 Por & 1 Perm: lo	5.5 mpf
275		Dls a.a. w/ Fracs; Calc vns <del>to Hk</del> ; 1 Por & 1 Perm: lo; 2 Por & 2 Perm: lo to mod	4.75 mpf; Dlr ntd Fracs 283 to 285 ft Dls; large frac Qtz in cuttings (too big for tray)
285			

SE ROA 54054

Client: Vidler Water Company  
 Project Number: 23444322.40000

KPW Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
285		Dls a.a. w/ Fracs; long l <sup>ik</sup> lge Calc Frag in Spl	5.5 mpf; Dlnr <del>noted</del> noted rough dlnr from Fracs 291 to 295 ft bls
295		Dls a.a.	6.6 mpf
305		Dls; dk gry (N3), m gry (N5), lt dk gry (S7) (S1) Dls; microaln; sm Calc; Cht; ang - sbang; 1 Por 1 Perm: lo; slily frac <sup>faces/plane</sup> , sm Fe staining	6.5 mpf; Dlnr noted <del>Fr</del> Fr change btwn 311 & 314 ft bls
315	upper	Dls w/ sm Fe staining noted	5.2 mpf
325		Dls a.a. w/o Fe staining	5.7 mpf
335		Dls a.a. w/cht more pronounced	5.6 mpf
345		Dls; m lt gry (N6) f m dk gry (N4) microaln Dls w/ Cht & Calc; Frac planes/surfs, some w Fe staining; ang to sbang; appar 1 Por 1 Perm: lo; appar 2 Por 1 Perm: lo to med	4.9 mpf
355		Dls a.a.	4.6 mpf
365		Dls. a.a.	4.6 mpf
375		Dls a.a.	4.7 mpf
385			

2 Por  
 1 Perm:  
 lo to med

Kane Springs Production Well (KPW-1)

UR

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
385		Dls a.a. w/ Calc vnlts & Calc frags	4.7 mpf
395		Dls a.a. w/ Clg; Clg is <sup>mod</sup> HK gelsh brn (10712 5/4) <del>may be</del> <sup>HK</sup> Contam from ats; Clg is stt & sticky w/ appar 1 Por: hi; appar 1 Perm: lo	5.2 mpf
405		Dls a.a. w/o Clg	5.6 mpf
415		Dls a.a. w/ more ox	5.3 mpf
425		Dls a.a. w/ <del>more</del> <sup>HK</sup> w/ Fract Calc	6 mpf
435		Dls; <del>HK</del> <sup>mod</sup> It gray (10712) microaln Dls w/ Calc & Ch; Calc vnlts too; <del>HK</del> <sup>HK</sup> Frac planes/surfaces; some w. Fe-ox; ang-s brns; appar 1 Por: hi; appar 2 Perm: lo; appar 2 Perm: lo to mod	6.1 mpf
445		Dls a.a.	4.3 mpf
455		Dls a.a. w/ mod gelsh brn (10712 5/4) Clg; Clg is stt & sticky; appar 1 Por: hi; appar 2 Perm: lo	4.3 mpf
465		Dls a.a. w/o Clg	5.6 mpf
475 475 485		Dls a.a. w/ mod gelsh brn Clg (10712 5/4) Clg; Clg is stt & sticky; Clg appar 1 Por: hi; Clg appar 1 Perm: lo	5.7 mpf

SE ROA 54056

Kane Springs Production Well (KPW-1)

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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UP

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
485		<del>Dls a.a. w/ med gelsk brn (10% S<sub>4</sub>) Cl<sub>2</sub>; H<sub>2</sub>O                      Cl<sub>2</sub> is soft &amp; sticky; a<sup>HK</sup> Cl<sub>2</sub> appar. Por: h; H<sub>2</sub>O                      Cl<sub>2</sub> appar. Per: 10 HK w/ less Cl<sub>2</sub></del>	4.9 m pf
495		Dls a.a. w/ med lt gry (NG) Ls; Ls is microch w/ 10 appar Por   Per	4.2 m pf
505		Dls & Ls; m lt gry (NG) & m dk gry (NH) <sup>HK</sup> microch in Dls & Ls w/ Calc & Ch <sub>2</sub> ; Frac planes / faces present; ang-sbans; appar Por   Per: 10; appar 2 Por & 2 Per   10 to med	4.9 m pf
515		Dls a.a. w/ Fe ox on Frac Surfs	6 m pf; Drle noted Fracs from 520 ft bls; very large cuttings, some w/ Fe Ox on Fracs
525		Dls & Ls a.a.	4 m pf; Fracs noted by Drle continue to 530; rough Drle to 520   from 534 to 535 ft bls
535		Dls & Ls a.a.	7.3 m pf
545		Dls <sup>HK</sup> a.a.	7.2 m pf
555		Dls <sup>HK</sup> Ls a.a. w/ Less <sup>HK</sup> less Fe ox & more Calc	7.5 m pf
565		Dls & Ls a.a. w/ Calc vults	10 m pf
575		Dls & Ls a.a.	8.75 m pf
585			

SE ROA 54057

Kane Springs Production Well (KPW-1)

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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UR

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
585		Dls } Ls a.a.	8.75 m pf
595		Ls } Clg; m sry (N5) micro xln Ls w/ Calc & mod gelsh brn (10 to 5%) <del>Calc</del> Calc Clg; Ls ang-s bang; Clg soft & sticky; Ls is stily fracd w/ appar 1 Por; 1 Perm lo; Fracs give appar 2 Por & Perm: lo to mod; Clg has appar 1 Por; hi; appar 2 Perm: lo	6.6 m pf
605		Dls; m sry (N5) micro xln Dls; stily fracd Some Fe-ox on Frac surfs; ang-s bang; appar 1 Por & 1 Perm: lo	7.4 m pf
615		Dls a.a. w/ Calc vnlts	6.5 m pf
625		Dls } Clg; lt olv gry (57 Gr) micro xln Dls 4/1; mod gelsh brn (10 to 5%) Clg; Dls has Calc & Calc vnlts, ang-s bang; Clg is calc, soft & sticky; Dls appar 1 Por & 1 Perm: lo; Clg appar 1 Por; hi; Clg appar 1 Perm: lo	9.8 m pf
635		Dls; m dk gry (N4) <del>to Dls</del> micro xln Dls w/ Calc; stily fracd; ang-s bang; appar 1 Por & 1 Perm: lo; appar 2 Por & 2 Perm: lo to mod	8.5 <del>m pf</del> m pf
645		Dls <del>to</del> a.a. w/ Fe ox on Frac surfs	6.7 m pf
655		Dls a.a. w/ some chnt	7.9 m pf
665		Dls a.a. w/o chnt	8 m pf
675		Dls a.a.	6.8 m pf

685

SE ROA 54058

Kane Springs Production Well (KPW-1)

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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UR

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
685		Dls; dk gry (N3) microxln Dls w/ Calc & Calc units & a amt of mod gelsh brn (10yr) s/c) Clg; silty fracd; Dls is ans-sbang; Clg is	7.2 <sup>HK</sup> m pf
695		tscky; Dls appar 1Por & 1Perm: lo; Clg appar 1Por: hi; Clg appar 2Perm: lo; appar 2Por & 2Perm: lo + o mod	6.8 <sup>HK</sup> m pf
705		695-705 Dls a.a. w/o Clg	5.7 <sup>HK</sup> m pf
715		Dls a.a.	6.0 <sup>HK</sup> m pf
725		Dls a.a.	8 m pf
735		<del>Dls a.a.</del> <sup>HK</sup> Clg; Dls; mod gelsh brn (10yr) s/c) Clg & mgry (N5) microxln Dls; Clg is stt/stck; dom spl; Dls ans-sbang; Clg appar 1Por: hi; appar 2Perm: lo; Dls: appar 1Por & 1Perm: lo	10 m pf
745		Dls; dk gry (57 C/1) & mgry (N5) microxln Dls w/ Calc; silty fracd; ans-sbang; Dls appar 1Por & 1Perm: lo; appar 2Por & 2Perm: lo to mod	7 m pf
755		Dls a.a.	8 m pf
765		Dls a.a. <del>by amt of mod gelsh brn (10yr) s/c) &amp; Clg (contam from abv)</del> <sup>HK</sup> Stet	7.4 m pf
775		Dls a.a. <del>by Clg &amp; amt mod gelsh brn (10yr) s/c) Clg (contam from abv)</del> w/o Clg	7.5 m pf

785

SE ROA 54059



Kane Springs Production Well (KPW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Arthur Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
735		Dls; mlt gry (N6) & lt olv gry (57 6/1) microxln Dls; ang - s bands; appar 1 Por & 1 Perm: lo	9.5 mpf
795		Dls a.a. w/ slily fracd; Calc on frac surfs appar 2 Por & 2 Perm: lo to mod	9.4 mpf
805		Dls a.a. w/o Calc on frac surfs	9.2 mpf
815		Dls a.a. w/ Fe ox on frac surfs	10 mpf
825		Dls a.a.	9.5 mpf
835		Dls & clay; md lt gry (N6) Dls & mod gelsh brn (10YR 5/4) clay; Dls - microxln, ang - slony; clay - sft & rock; Dls appar 1 Por & 1 Perm: lo; clay appar 1 Por: hi & 1 Perm: lo	13.4 mpf
845		Dls a.a. w/o clay	10.6 mpf
855		Dls a.a. w/ mgry (N5) Dls & s Amt gelsh gry (5Y 8/1) Qtzt	7.6 mpf
865		Qtzt; gelsh gry (5Y 8/1) Qtzt w/ s Amt Calc ang - s bands; microxln; fracd; appar 1 Por & 1 Perm: lo; appar 2 Por & 2 Perm: lo to mod	11.1 mpf
875		Qtzt a.a.	9.5 mpf
885			

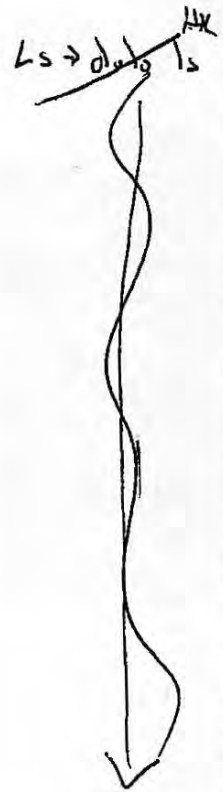
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Kane Springs Production Well (KPW-1)

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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UF



DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
885		Dls + Ls; med gry (NS) Dls + Ls; micro xln; w/ Calc; fract; ang - sbang; appar 1 Por + 1 Perm; lo; appar 2 Por + 2 Perm; lo to mod	9.5 mPF
895		Dls + Ls a.a. w/ less Ls + Calc on Frac Surfs	8.8 mPF
905		Dls + Ls a.a. w/o Calc on Frac Surf + w/ Fe Ox on Frac Surfs	5.2 mPF; Pshr noted Fracs from 907-911 ft bls based on increased pen rate + cutting size
915		Dls + Ls a.a.	7.8 mPF
925		Dls + Ls a.a.	5.7 mPF; Pshr noted smwt fracc conditions
935		Dls + Ls a.a.	7.1 mPF
945		Clg + Dls; med gelsh brn (10YA 5/4) Clg + lt olv gry (576/1) Dls; Clg is stf + sticky, stily calc; appar 1 Por; hi; appar 1 Perm; lo; Dls has appar 1 Por + 1 Perm; lo; ang - sbang	4.9 mPF Clg - 50% of Spl
955		Dls + Clg; lt olv gry (576/1) micro xln; med gelsh brn (10YA 5/4) Clg; Dls is ang - sbang; lo appar 1 Por + 1 Perm; Clg is stf + sticky, stily calc; w/ hi appar 1 Por + low appar 1 Perm;	6.2 mPF <del>6.2</del> 4.1
965	appar	2 Por + 2 Perm; lo to mod; Clg < 15% Spl	7.7 mPF
975		Dls + Clg a.a. X	6.2
985		Dls + Clg a.a. w/ Clg ~ 50% of Spl	7.2 mPF Pshr noted Clg
985			

from shaker

Clg - 50% of Spl

SE ROA 54061

Kane Springs Production Well (KPW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): \_\_\_\_\_  
 Page: 11 of 21

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
985		Dls f Cl <sub>2</sub> w/ Cl <sub>1</sub> < 10%	5.6 mpp Dln noted Cl <sub>1</sub>
995		Dls f Cl <sub>1</sub> ; lt or gr (5Y 6/1) microcln Dls f y sh gr (5Y 8/1) Cl <sub>1</sub> ; Dls is slily frac w/ lo appm 1 por 1 Pern; Cl <sub>1</sub> is stt slily stcky; Ds ang-s bun; appm 2 por 2 Pern is to be tried	5.7 mpp Dln noted mud thinning Dls > 80% of Spl
1005		Dls <del>aaa</del> <sup>uv</sup> f Cl <sub>1</sub> a.a.	5.8 mpp Dln noted mud thinning
1015		Dls <del>aaa</del> <sup>uv</sup> f Cl <sub>1</sub> a.a.	5.5 mpp
1025		Dls <del>aaa</del> <sup>uv</sup> f Cl <sub>1</sub> a.a.	8.7 mpp
1035		Dls <del>aaa</del> <sup>uv</sup> f Cl <sub>1</sub> a.a. w/ Cl <sub>2</sub> ~40% of Spl	7.1 mpp
1045		Dls f Cl <sub>1</sub> a.a.	8.5 mpp
1055		Dls f Cl <sub>1</sub> a.a.	10.5 mpp
1065		Dls f Cl <sub>1</sub> a.a. w/ Fe Ox on Frac Surfs f Cl <sub>1</sub> < 20%	10 mpp
1075		Dls f Cl <sub>1</sub> a.a.	9.2 mpp

1085

SE ROA 54062

Kane Springs Production Well (KPW-1)

Client: Vidler Water Company  
Project Number: 23444322.40000

Geologist(s):  
Page: 12 of 21

ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)

GRAPHIC LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)

DEPTH (feet bls)

1085	Dis, ls, {Clg; dk grs (N3) Dis, lt dr grs (57cl) Ls, {V ls grs (N8) Clg; Dis ls are ang-stony; micropor, w/ Calc; Dis ls have to appear Por Perm; Clg ls stl; stl; calc w/ ls appear Por 10 appear Perm	8.8 m pf
1095	Dis, ls, {Clg a.a.	8.8 m pf
1105	Dis, ls, {Clg a.a.	8.5 m pf
1115	Dis, ls, {Clg a.a. w/ Clg ~ 40% of spl	8.2 m pf
1125	Dis, ls, {Clg a.a. w/ Clg ~ 15% of spl	8.2 m pf
1135	Dis, ls, {Clg a.a. w/ Dis ls fract; appear a Por Perm lota mod	6.5 m pf
1145	Dis, ls, {Clg a.a.	7.5 m pf
1155	Dis, ls, {Clg a.a. w/ Clg ~ 30% of spl	6.8 m pf
1165	Dis, ls, {Clg a.a. w/ Clg ~ 15% of spl	8.2 m pf
1175	Dis, ls, {Clg a.a. w/ Clg ~ 10% of spl	6.7 m pf
1185		

1411  
Ls -> ls



Kane Springs Production Well (KPW-1)

UF

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): \_\_\_\_\_  
 Page: 13 of 24

Ls → Cls  
 1185



DEPTH (feet bis)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1185		Dls, Ls, 1/2 Cls a.a.	9.1 mpr
1195		Dls, Ls, 1/2 Cls a.a.	9.5 mpr
1205 <del>1200</del>		Dls, Ls, 1/2 Cls a.a. w/ Cls ~ 20% Spl	9.5 mpr
1215		Dls, Ls, 1/2 Cls a.a. w/ Cls $\frac{4-10\%}{\sim 10\%}$ <sup>HV</sup> of Spl	7.25 mpr
1225		Dls, Ls, 1/2 Cls a.a.	7.25 mpr
1235		Dls, Ls, 1/2 Cls a.a. w/ Cls ~ 40% Spl	8 mpr
1245		Dls, Ls, 1/2 Cls a.a. <del>X</del> Hc	8 mpr
1255		Dls, Ls, 1/2 Cls a.a. w/ Cls < 15% Spl	7.2 mpr
1265		Dls, Ls, 1/2 Cls a.a.	6 mpr
1275		Dls, Ls, 1/2 Cls a.a.	7.5 mpr
1285			

SE ROA 54064

Kane Springs Production Well (KPW-1)

UPS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
 Page: 14 of 21

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1285		<u>Dis, Ls, Cls a.g.</u> <del>dolst &amp; dolst</del> HK	9.5 mpf
1295		dolst <del>dolo</del> Ls a.a. w/ v. H clg HK	8.5 mpf
1305		dolst <del>dolo</del> Ls <del>AA</del> HK AA w/ v. prom Fe strings HK	8.5 mpf
1315		<del>dolst &amp; dolo</del> Ls AA w/ <del>10%</del> HK w/o signif Fe strings & w/ some vugs	9.75 mpf
1325		dolst & <del>dolo</del> Ls AA w/ < 10% clg HK	9.75 mpf
1335		dolst & <del>dolo</del> Ls AA HK w/ clg AA HK	9.75 mpf
1345		dolst & <del>dolo</del> Ls AA HK w/ clg AA HK	8.75 mpf
1355		dolst & <del>dolo</del> Ls AA HK w/ clg AA HK	8.75 mpf
1365		dolst & <del>dolo</del> Ls HK w/ clg AA	<del>8.75</del> HK mpf 8.5
1375		dolst & <del>dolo</del> Ls HK w/ clg AA HK	8.5 mpf
1385			

SE ROA 54065

Kane Springs Production Well (KPW-1)

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): HUGH KLEIN/GRANT SUYDERT  
 Page: 15 of 21



DEPTH (feet bis)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1385		DOLOSTONE, DK GREY N3-N2, FRACTURED W/ DOLOMITE/CALCITE INFILLING IN FRACS HARD, MILD EFFERVESCENCE W/ 20% HCL w/ v lgy (N8) cly;	6.5 m pf
1395		q/q dolst: lo appar 1 por & 1 per mod appar 2 por & 2 per cly: hi appar 1 por & lo appar 1 per	6.5 m pf dolst: micro xln, ang - sbang
1405		o/q	7.5 m pf
1415		CLAY, GRAYISH ORANGE, 10 yr 7/4 MIXED W/ DOLOSTONE FRAGMENTS: POSSIBLE FAULT MELANGE (GOUGE) cly: hi appar 1 por & lo appar 1 per	7.5 m pf
1425		QUARTZITE, GRAYISH ORANGE-PINK 10 yr 7/2; FE STAINING; GRAYISH INCLS HARD micro xln; ang - sbang lo appar 1 por & 1 per	gmk 13.75 m pf
1435		a/q	13.75 m pf
1445		DOLOSTONE - LIMESTONE, MED GREY, N5 FRACTURED; MILD EFFERVESCENCE 20% HCL ang - sbang; micro xln; lo appar 1 por & 1 per	13.75 m pf
1455		q/q low to mod appar 2 por & 2 per w/ Fe staining	11 m pf
1465		a/q	11 m pf
1475		q/q	9.75 m pf
1485			

**Kane Springs Production Well (KPW-1)**

Client: Vidler Water Company  
 Project Number: 23444322.40000

ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1485		dolst ls AA w/ more Fe string	4.75 mpf
1495		dolst ls AA w/ some strac vug w/o signif Fe string	7.5 mpf
1505	dolst cs	dolst; dk gry (N5) + blk (N1) dolst; microstrat; ans; fracc clay indicating fit gouge 2 par 2 per 10 to 100 mod	8.5 mpf dolst: lo appar 1 par 1 per clay: hi appar 1 par 1 to 10 per 2 par
1515		dolst; dk gry (N3) dolst w/ vuggy calc incls hd ans cuts; clay content decring same liz appar por 1 per 10 w/ mod vug pr	8.15 mpf
1525		dolst + clay AA w/ v lth clay	9 m pf
1535		dolst; m gry (N5) dolst; fracc; vuggy; recrystallized lo por; mod 2 par; some Fe string; trending towards dolo ls jang; microstrat	8 m pf
1545	dolst dolo ls	dolst; dk gry (N5) dolst - dolo ls; ans; fracc - 2 par calc incls primary por 1 per - 1 sec por 1 per mod	8 m pf
1555		dolo ls; m gry (N5) dolo ls; microstrat; ans; fracc w/ calc recrystallization; sec por 1 per; mod; Fe string; lo appar pri por 1 per; sec por 1 per mod	8.5 m pf
1565		dolst ls AA	8.75 m pf
1575		dolst; grysh or (107R74) dolst; fracc; microstrat; ans; Fe string; appar pri por appar sec por 1 per 10 to 100 mod	7 m pf
1585		Color of rock is m gry (N5) + Fe string in dk velsch or (b7R616)	



Kane Springs Production Well (KPW-1)

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1585		dolst AA w/ calc filled frags	7 mpf
1595		dolst AA w/ more Fe stringings } calc filled frags, also w/ some vugs	6.75 mpf
1605		dolst AA	6.75 mpf
1615		dolst AA	5.25 mpf
1625		dolst; med dk gry (N3) dolst; fracs w/ dk rdsh brn (10R3/4) + dk yelb or (10YR 6/2) Fe stringing; ang-s bang; some sm sec ruggs; ch; w/ a v sm amt dk yelb or (10YR 6/2) clay contd m	5.25 mpf
1635		dolst AA w/rd clay microstr for intv appar pri por & perm: lo appar sec por & perm: mod	6 mpf
1645		dolst AA w/ more Fe stringing	6 mpf
1655		dolst AA w/ lg calc frags, w/o sm sec vugs	7 mpf
1665		dolst; med dk gry (N3) slily fracd dolst w/ 4-5 sm amt dk yelb or (10YR 6/2) clay; fracs have ang-s bang mod rdsh brn (10R3/4) Fe stringing; dolst pri sec appar por & perm: lo	7 mpf
1675		clay pri appar por: hi Pri appar perm: lo sec por & perm: lo to mod	8.25 mpf
1685		dolst <del>fracs</del> AA w/ more clay; clay = 35% of samp	

SE ROA 54068

Kane Springs Production Well (KPW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1685		dolst AA w/ less clg	8.25 m pf
1695		dolst; m gry (NS) mod yelsh brn dolst; sh <sup>10 yr 5/4</sup> fracd; microcln; ans to sbans; frac calc filled, Fe strings appar; pri por & perm lo; sec. por & perm	6.75 m pf
1705		dolst AA w/ some cht	6.75 m pf
1715		dolst AA w/ more Fe strings & w/o cht	13 m pf
1725		dolst AA w/ more fracd	13 m pf
1735		dolst AA w/ some vugs / not as fracd as abv	12.25 m pf
1745		dolst AA w/ more calc on frac faces	12.25 m pf
1755		dolst AA w/ cht & calc on frac faces not as prevalent	7.5 m pf
1765		dolst; md yelsh brn (10 yr 5/4) w/ a minor amt of m gry (NS) dolst; fracd; microcln; ans to sbans; calc on frac planes; some Fe strings; appar	7.5 m pf
1775		pri por & perm: lo; appar sec por & perm; some vugs	7.75 m pf
1785			

SE ROA 54069

JA\_18207

Kane Springs Production Well (KPW-1)

URS

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
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DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1785		dolst; dk gry (NS) } mod galsh ben (wt as 2) fracd dolst w/ calc vns & calc vnls; microxln; ang-sbany; appar pri por & perm: lo; appar sec	7.75 m pf
1795		por & perm: lo to mod; Fe stains	7.75 m pf
1805		dolst AA	7.25 m pf
1815		dolst AA w/ calc vns up to 2 mm <sup>thk</sup> <del>thk</del>	6 m pf
1825		dolst AA	6 m pf
1835		dolst AA	7.25 m pf
1845		dolst AA	7.25 m pf
1855		dolst AA w/ Calc on frac faces	7.15 m pf
1865		dolst; m gry (NS) fracd dolst w/ some calc; microxln; ang-sbany; appar pri por & perm: lo; appar sec por & perm: mod; Fe staining on frac	7.5 m pf
1875		<del>dolst</del> AA dolst AA w/ calc on frac faces	7 m pf
1885			

SE ROA 54070

JA\_18208

Kane Springs Production Well (KPW-1)

URC

Client: Vidler Water Company  
 Project Number: 23444322.40000

Geologist(s): Hugh Klein  
 Page: 28 of 21

DEPTH (feet bls)	GRAPHIC LOG	LITHOLOGY (color, rock type, grain size, grade, angularity, sorting, apparent porosity and permeability (primary & secondary), etc.)	ADDITIONAL COMMENTS (pen rate, WOB, torque, mud properties, mud level, water production, etc.)
1885		dolst AA w/ more calc	7 mpf
1895		dolst AA w/ calc amt like 1875-1885	6.25 mpf
1905		dolst AA w/ cht	6.25 mpf
1915		dolst AA w/ calc vns	9 mpf
1925		dolst AA w/ a higher deg of fracting <del>the</del> Fe string, along w/ vugs	9 mpf
1935		dolst AA	6.25 mpf
1945		dolst AA	6.25 mpf
1955		dolst; dk gray (N3) fracc dolst; microsh; calc - some on fracs; ans-stems; Fe string on frac faces; upper pri part perm: lv; upper sec part perm: lo to med	8 mpf
1965		dolst AA w/ calc frags	8 mpf
1975		dolst AA w/o calc frags / w/ calc vnlts ↓ vugs	8 mpf 7
1985			

SE ROA 54071



SE ROA 54073

JA\_18211

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LI 12 DATE: 9-26-05

Daily Start time: 6:00 Midnight A.M. Noon P.M. Daily Start time: 1:00 Midnight A.M. Noon P.M. PROJECT: 1-1-1 NAME: Uidler

Hole No. \_\_\_\_\_ Depth Today \_\_\_\_\_ Depth Yesterday \_\_\_\_\_ Total Drilled 1

FROM	TO	ACTIVITY
<u>5:30</u>	<u>6:30</u>	<u>get machinery, fuel dog house</u>
<u>6:30</u>	<u>7:30</u>	<u>drive to site</u>
<u>4:30</u>	<u>1:00</u>	

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	
SIZE			STR.	O.D. F.T.	VISC.	SEC.		F.T.	IN.
MFG.			D.C.	O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			R.R.	O.D. F.T.	PH			F.T.	IN.
SER. NO.			D.C.	O.D. F.T.	SOLIDS%			WELL SCREEN IN HOLE	
DEPTH OUT			R.R.	O.D. F.T.	TEMP.			F.T.	IN.
DEPTH IN			D.C.	O.D. F.T.				CASING IN HOLE	
TOTAL FTG.			R.R.					F.T.	IN.
TOTAL HRS.			D.C.					DEPTH OF GRAVEL	
			R.R.					F.T.	IN.
BIT NO.			TOTAL					DEPTH OF TRIM PIPE	
SIZE					SURVEY INFORMATION			F.T.	IN.
MFG.			WT. OF STRING	LBS.	DEPTH OF SUR.		DEVIATION	INTERMEDIATE CASING	
TYPE			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.		DEVIATION	F.T.	IN.
SER. NO.			RPM		DEPTH OF SUR.		DEVIATION	CASING	
DEPTH OUT			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION	F.T.	IN.
DEPTH IN			AIR MUD PRESSURE		DEPTH OF SUR.		DEVIATION	Remarks:	
TOTAL FTG.			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL HRS.									

Hrs. Booster                       Hrs. Extra Comp.  
 Hrs. Hauling Water               Hrs. Cal  
 Hrs. Backhoe                       Hrs. Mud Pump  
 Hrs. 6' Pump (nr 2)               Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Signatures:  
 Operator's Signature: James McGee Hrs. 12 1/2  
 Engineer's Signature: E. Peter James Hrs. 12 1/2  
 Mucker's Signature: Bob James Hrs. 12 1/2  
 Helper's Signature: Brendy Lane Hrs. 12 1/2

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?





LANG EXPLORATORY DAILY DRILLING REPORT RIG # **LK32** DATE: **9/26/05**

Daily Start time: **6:00** Midnight **AM** Noon P.M. Daily Start time: **12:00** Midnight **AM** Noon P.M. PROJECT: **#1451** NAME:

Hole No. Depth Today Depth Yesterday Total Drilled

FROM	TO	ACTIVITY
<b>6:00</b>	<b>11:00</b>	<b>SET UP DRILL SITE</b>
<b>11:00</b>	<b>12:00</b>	<b>DESERT TORTOISE WORKER EDUCATION</b>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT		SURFACE PIPE IN HOLE	
SIZE			STR.	O.D. F.T.	VISC.-SEC.			F.T. IN.
MFG.			D.C.	R.R. O.D. F.T.	WL-CC'S		DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	pH			F.T. IN.
SER. NO.			D.C.	R.R. O.D. F.T.	SOLIDS%		WELL SCREEN IN HOLE	
DEPTH OUT			D.C.	R.R. O.D. F.T.	TEMP.			F.T. IN.
DEPTH IN			D.C.	R.R. O.D. F.T.			CASING IN HOLE	
TOTAL FTG.			D.C.	R.R.				F.T. IN.
TOTAL HRS.			D.C.	R.R.			DEPTH OF GRAVEL	
								F.T. IN.
BIT NO.			TOTAL				DEPTH OF TRIM PIPE	
SIZE								F.T. IN.
MFG.			WT. OF STRING	LBS.	SURVEY INFORMATION		DEPTH OF INTERMEDIATE CASING	
TYPE			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION		F.T. IN.
SER. NO.			RPM		DEPTH OF SUR.	DEVIATION		F.T. IN.
DEPTH OUT			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		F.T. IN.
DEPTH IN			AIR MUD PRESSURE		DEPTH OF SUR.	DEVIATION		F.T. IN.
TOTAL FTG.			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		F.T. IN.
TOTAL HRS.			Remarks:					


<input type="checkbox"/> Hrs. Booster <input type="checkbox"/> Hrs. Hauling Water <input type="checkbox"/> Hrs. Backhoe <input type="checkbox"/> Hrs. 6" Pump (nr 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cat <input type="checkbox"/> Hrs. Mud Pump <input type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	Bill Ross: Hrs. <b>6 1/2</b> [Signature] Quentin Hurtado: Hrs. <b>6 1/2</b> [Signature] [Signature] SHAW: Hrs. <b>6 1/2</b> [Signature]
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes <input type="checkbox"/> No <input type="checkbox"/> ? <input type="checkbox"/>			***JUSTIFY HOURS (If Applies)*** <input type="checkbox"/> Getting Fuel <input type="checkbox"/> Chasing for Parts <input checked="" type="checkbox"/> Drive Time (after the 1st one hour)

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK32 DATE: 9-29-64

Daily Start time: 1200 Midnight A.M. Noon 1200 Daily Start time: 1200 Midnight A.M. Noon P.M. PROJECT: 1451 NAME:

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>?</u>	<u>40</u>	<u>0</u>	<u>40</u>

FROM	TO	ACTIVITY
<u>1100</u>	<u>1200</u>	<u>turtle school</u>
<u>1200</u>	<u>700</u>	<u>gel pipe ready</u>
<u>700</u>	<u>845</u>	<u>to drill surface 40'</u>
<u>845</u>	<u>1045</u>	<u>pull stakes for well casing</u>
<u>1045</u>	<u>1200</u>	<u>run out bit rodin. Becards misc cement</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>10</u>	<u>50#</u>	<u>gel</u>	<u>/</u>	<u>/</u>					
<u>3</u>	<u>50#</u>	<u>sodium Bicarb</u>	<u>/</u>	<u>/</u>					
<u>2</u>	<u>20" rod</u>	<u>casing</u>	<u>/</u>	<u>/</u>					

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	<u>20</u> FT. IN.
SIZE			STR.	O.D. F.T.	VISC-SEC.			<u>40</u> FT.	
MFG.			D.C.	O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			R.R.	O.D. F.T.	PH				
SER. NO.			D.C.	O.D. F.T.	SOLIDS%				
DEPTH OUT			R.R.	O.D. F.T.	TEMP.			WELL SCREEN IN HOLE	
DEPTH IN			D.C.	O.D. F.T.					
TOTAL FTG.			R.R.						
TOTAL HRS.			D.C.					CASING IN HOLE	
			R.R.						
BIT NO.			TOTAL					DEPTH OF GRAVEL	
SIZE									
MFG.			WT. OF STRING	LBS.	SURVEY INFORMATION			DEPTH OF TRIM PIPE	<u>10</u>
TYPE			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION		<u>40</u> FT.	
SER. NO.			RPM		DEPTH OF SUR.	DEVIATION			
DEPTH OUT			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		INTERMEDIATE CASING	
DEPTH IN			AR MUD PRESSURE		DEPTH OF SUR.	DEVIATION			
TOTAL FTG.			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION			
TOTAL HRS.			Remarks:						

<input type="checkbox"/> Hrs. Booster	<input type="checkbox"/> Hrs. Extra Comp.	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	<u>James M. Cox</u> Hrs.
<input type="checkbox"/> Hrs. Hauling Water	<input type="checkbox"/> Hrs. Cal		<u>John J. Purcell</u> Hrs.
<u>2</u> Hrs. Backhoe	<input type="checkbox"/> Hrs. Mud Pump		<u>John J. Purcell</u> Hrs.
<input type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Mud Tank		<u>Harper's Signature</u> Hrs.

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK32 DATE: 9/29/05

Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) PROJECT: #1451 NAME:

Hole No. KMW-1 Depth Today 0 Depth Yesterday 40' Total Drilled 0

FROM	TO	ACTIVITY
11:45	12:00	DISCUSS HOLE W/TAMES M. SITE SAFETY & EQUIP. ENSTR.
12:00	1:00	FINISH MIXING HOT BATCH. PUMPED HOT BATCH 150 GAL
1:00	2:00	TAG AT 30' FROM SURFACE
2:00	4:30	MIX 340 GAL CEMENT PUMP TO SURFACE. CLEAN UP
4:30	8:00	SET UP TO DRILL. WELD ON FLOW LINE MEASURE B.H.A.
8:00	12:00	START TRIPPING B.H.A. TAG CEMENT AT 33'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
25	501B	QUICK SET			1	Roll	ORANGE FENCE	X	
50	941B	CEMENT			6		T-POST	X	
2	501B	CALCIUM CHLOR.			1		CAL-BRONZE	X	

BIT RECORD		No. DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.	1	1/2	BIT T.B.S. FE 1.51	WEIGHT		SURFACE PIPE IN HOLE	20
SIZE	12 1/4"	3/4	DR. O.D. FE 6.92	WISC. SEC.		40	F.T. IN.
MFG.	LANG	5	D.P. R.R. O.D. FE 6.65	WL. C.C.T.		DEPTH OF CEMENT GROUT	
TYPE	T.C. CARBIDE	6	D.C. O.D. FE 20.00	PH		37	F.T. IN.
SER. NO.	R44YE		D.C. R.R. O.D. FE	SOLEDS%		WELL SCREEN IN HOLE	
DEPTH OUT			D.C. R.R. O.D. FE	TEMP.			F.T. IN.
DEPTH IN	30'		D.C. R.R. O.D. FE			CASING IN HOLE	
TOTAL FTG.			D.C. R.R.				F.T. IN.
TOTAL HRS.			D.C. R.R.			DEPTH OF GRAVEL	
			TOTAL				F.T. IN.

		WT. OF STRING LBS.		SURVEY INFORMATION	
BIT NO.				DEPTH OF SUR.	DEVIATION
SIZE				DEPTH OF SUR.	DEVIATION
MFG.				DEPTH OF SUR.	DEVIATION
TYPE				DEPTH OF SUR.	DEVIATION
SER. NO.				DEPTH OF SUR.	DEVIATION
DEPTH OUT				DEPTH OF SUR.	DEVIATION
DEPTH IN				DEPTH OF SUR.	DEVIATION
TOTAL FTG.					
TOTAL HRS.					

Hrs. Booster: 1, Hrs. Hauling Water: 3, Hrs. Backhoe: 3, Hrs. 6" Pump (or 2): 6

Hrs. Extra Comp.: 6, Hrs. Cat: 6, Hrs. Mud Pump: 6, Hrs. Mud Tank: 6

Sampling Performed by Lang: Yes \_\_\_ No \_\_\_

Bill Rossi (Driller's Signature) Hrs. 12:34  
 QUENTIN HUERTADO (Holder's Signature) Hrs. 12:34  
 BUDDY SHAW (Helper's Signature) Hrs. 12:34

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 \_\_\_ Getting Fuel  
 \_\_\_ Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ? \_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK-32 DATE: 9/29/01

Daily Start time: 1200 Midnight 12:00 Daily Start time: 1200 Midnight 12:00 PROJECT: 1451 NAME:

Hole No. Kmw-1 Depth Today 240 Depth Yesterday 40 Total Drilled 200

FROM	TO	ACTIVITY
1145	1200	discuss hole with Bill
1200	100	get ready to drill BHA
100	800	drill collars
800	830	calc type
830	1000	drill 220 to 240
1000	1100	run 160' of inner tube
1100	1200	switch over to floccules

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
30	50 <sup>mm</sup>	gel	/						
1	40 <sup>mm</sup>	sable	/						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD		WELL CONSTRUCTION	
BIT NO.	1	1	BIT F.L. 1.71	WEIGHT		SURFACE PIPE IN HOLE	70
SIZE	12 3/4	2	1 1/2" O.D. F.L. 1.51	VISC. SEC.		40	F.T. IN.
MFG.	Lang	3	3 1/2" O.D. F.L. 16.164	WL. CCS		DEPTH OF CEMENT GROUT	
TYPE	T.C. Cachide	4	3 1/2" O.D. F.L. 19.98	PH			
SER. NO.	R74YE	5	3 1/2" O.D. F.L. 16.65	SOLIDS%			F.T. IN.
DEPTH OUT		6	3 1/2" O.D. F.L. 20	TEMP.		WELL SCREEN IN HOLE	
DEPTH IN	30'	7	3 1/2" O.D. F.L. 16.65				F.T. IN.
TOTAL FTG.		8	19.87			CASING IN HOLE	
TOTAL HRS.		9	16.20				F.T. IN.
		10	18.38			DEPTH OF GRAVEL	
		11	19.20				F.T. IN.
BIT NO.		12	TOTAL (218.09)				

		SURVEY INFORMATION			
SIZE	12 Dc 19.17	WT. OF STRING	LBS.	DEPTH OF SUR.	DEVIATION
MFG.	13 Dc 20	WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION
TYPE	14 Dc 19.59	RPM		DEPTH OF SUR.	DEVIATION
SER. NO.	15 Dc 19.60	HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION
DEPTH OUT	16 244	AIR MUD PRESSURE		DEPTH OF SUR.	DEVIATION
DEPTH IN		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION

TOTAL FTG. \_\_\_\_\_ TOTAL HRS. \_\_\_\_\_ Remarks: \_\_\_\_\_

_____ Hrs. Booster _____ Hrs. Hauling Water <u>1</u> Hrs. Backhoe _____ Hrs. 6" Pump (or 2)	_____ Hrs. Extra Comp. _____ Hrs. Cat <u>X</u> Hrs. Mud Pump 2 <u>11</u> Hrs. Mud Tank	Sampling Performed by Lang Yes <input checked="" type="checkbox"/> No _____	_____ Hrs. _____ Hrs. _____ Hrs. ***JUSTIFY HOURS (If Applies)*** _____ Getting Fuel _____ Chasing for Parts _____ Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK 32 DATE: 9/30/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: #1451 NAME:

Hole No. KAW-1 Depth Today 315' Depth Yesterday 240' Total Drilled 75'

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>DISCUSS HOLE W/ JAMES M. SITE SAFETY &amp; EQUIP. INSPECT</u>
<u>12:00</u>	<u>2:00</u>	<u>SET UP TO DRILL FURROW DEV.</u>
<u>2:00</u>	<u>3:00</u>	<u>DRILLED 4' OF F.I. CIRCULATE AND CLEAN HOLE</u>
<u>3:00</u>	<u>11:00</u>	<u>DRILLED 240' - 315'</u>
<u>11:00</u>	<u>12:00</u>	<u>TRIP OUT RODS START TRIPPING AIR TUBE (LOSS CIRCULATION AT 315')</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>70</u>	<u>50IB</u>	<u>QUICK 61</u>	<u>X</u>						
<u>2</u>	<u>50IB</u>	<u>SODA ASH</u>	<u>&lt;</u>						
<u>2</u>	<u>50IB</u>	<u>DISPAL-B</u>	<u>X</u>						

BIT RECORD			No. DRILLING ASSEM. (at end of hour)			MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>1</u>	<u>1/2</u>	WT. BIT	<u>1.21</u>	WGT.	<u>8.9</u>	<u>8.8</u>	<u>8.4</u>	SURFACE PIPE IN HOLE	<u>20</u>
SIZE	<u>12 3/4"</u>	<u>3/4</u>	OD.	<u>6.64</u>	VISC. SEC.	<u>55</u>	<u>57</u>	<u>55</u>	<u>40</u>	F.T. IN.
MFG.	<u>LANG</u>	<u>5</u>	OD.	<u>6.65</u>	WL. CCS			<u>8</u>	DEPTH OF CEMENT GROUT	
TYPE	<u>TC CARBIDE</u>	<u>6</u>	OD.	<u>20.02</u>	PH			<u>9</u>	<u>37</u>	F.T. IN.
SER. NO.	<u>R74KE</u>	<u>7</u>	OD.	<u>6.65</u>	SOLIDS%			<u>11%</u>	WELL SCREEN IN HOLE	
DEPTH OUT		<u>8</u>	OD.	<u>19.87</u>	TEMP.					
DEPTH IN	<u>37'</u>	<u>9</u>	OD.	<u>16.20</u>				<u>14%</u>		F.T. IN.
TOTAL FTG.	<u>278</u>	<u>10</u>	OD.	<u>18.38</u>					CASING IN HOLE	
TOTAL HRS.	<u>11:56</u>	<u>11</u>	OD.	<u>19.98</u>						F.T. IN.
		<u>1 1/2</u>	D.C.	<u>78.36</u>					DEPTH OF GRAVEL	
		<u>16</u>	T/S	<u>2.44</u>						F.T. IN.
BIT NO.		TOTAL		<u>218.09</u>	TIME	<u>3:00</u>	<u>5:00</u>	<u>2:00</u>		

SURVEY INFORMATION		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.	
SIZE	WT. OF STRING <u>35,375</u> LBS.	DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.	
MFG.	WT. OF STRING LESS RODS <u>31,837</u> LBS.	DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.	
TYPE	WPM <u>30-50</u>	DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.	
SER. NO.	NYD. WEIGHT ON BIT <u>500</u> LBS.	DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.	
DEPTH OUT	AIR MUD PRESSURE <u>120</u>	DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.	
DEPTH IN	ACTUAL WEIGHT ON BIT <u>14,150</u> LBS.	DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.		DEPTH OF SUR.	
TOTAL FTG.	Remarks:								
TOTAL HRS.									

\_\_\_\_\_ Hrs. Booster 9 Hrs. Extra Comp. \_\_\_\_\_  
6 Hrs. Hauling Water \_\_\_\_\_ Hrs. Cat \_\_\_\_\_  
1 Hrs. Backhoe \_\_\_\_\_ Hrs. Mud Pump \_\_\_\_\_  
 \_\_\_\_\_ Hrs. 6" Pump (or 2) 11 Hrs. Mud Tank \_\_\_\_\_

Sampling Performed by Lang  
 Yes \_\_\_\_\_ No X

Bill Ross, Hrs. 12:34  
 Director's Signature  
 JAMES M. HURTADO Hrs. 12:34  
 Driller's Signature  
 BOBBY SHAW Hrs. 12:34  
 Helper's Signature

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 \_\_\_\_\_ Getting Fuel  
 \_\_\_\_\_ Chasing for Parts  
1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_









LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK32 DATE: 10/2/05

Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) PROJECT: # 1451 NAME:

Hole No. KMW-1 Depth Today 945' Depth Yesterday 830' Total Drilled 115'

FROM	TO	ACTIVITY
11:45	12:00	DISCUSS HOLE W/ JAMES M. SITE SAFETY & EQUIP. INSPEC.
12:00	11:00	DRILLED 830' - 940'
11:00	11:30	SURVEY HOLE AT 900'
11:30	12:00	DRILLED 940' - 945'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
10	5018	Quik Gel							
1	5018	SOPA ASH							
1	5018	DRISDAC-R							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION			
BIT NO.	1	1/2	BIT	FT.	1.3	WEIGHT	8.9	9	9	SURFACE PIPE IN HOLE	20
SIZE	12 3/4"	3/4	STR.	O.D.	14.4	VISC.-SEC.	4.5	4.6	4.6	40	F.T. IN.
MFG.	LANB	5	D.C.	O.D.	6.65	WL-CC'S	9.6	9.2	9.2	DEPTH OF CEMENT GROUT	37
TYPE	T.C. CARBIDE	6	D.C.	O.D.	20.00	PH	8	8	9	WELL SCREEN IN HOLE	
SER. NO.	R74KE	7	D.C.	O.D.	6.65	SOLIDS	TR	1/4" / 1/4"	1/4"	CASING IN HOLE	
DEPTH OUT		8	D.C.	O.D.	19.87	TEMP.				DEPTH OF GRAVEL	
DEPTH IN	40'	9	D.C.	O.D.	16.70		W/C	1/32"	1/32"	1/32"	F.T. IN.
TOTAL FTG.	905'	10	D.C.	R.R.	18.38						
TOTAL HRS.	45:55	11	D.C.	R.R.	19.78						
		12	D.C.	R.R.	78.36						
		16			2.44						
BIT NO.		TOTAL	218.09		Time	8:00	5:30	9:00			
SIZE		WT. OF STRING	55892		LBS.	SURVEY INFORMATION					
MFG.		WT. OF STRING LESS HOODS	31,838		LBS.	DEPTH OF SUR.	900'	DEVIATION	3/8"	DEPTH OF TRIM PIPE	
TYPE		RPM	40-50			DEPTH OF SUR.		DEVIATION		F.T. IN.	
SER. NO.		HYD. WEIGHT ON BIT	705		LBS.	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING	
DEPTH OUT		AIR PRESSURE	3.10			DEPTH OF SUR.		DEVIATION		F.T. IN.	
DEPTH IN		ACTUAL WEIGHT ON BIT	19,810		LBS.	DEPTH OF SUR.		DEVIATION			
TOTAL FTG.		Remarks:									
TOTAL HRS.											

Hrs. Booster 1 1/2 Hrs. Backhoe 1/2 Hrs. 6" Pump (or 2) 1 1/2 Hrs. Extra Comp. 1 1/2 Hrs. Cat 1 1/2 Hrs. Mud Pump 1 1/2 Hrs. Mud Tank 1 1/2

Sampling Performed by Lang Yes      No X

Bill Rossi Hrs. 12 3/4  
 Director's Signature  
 GRENTELL HURTADO Hrs. 12 3/4  
 Helper's Signature  
 BARRY SHAW Hrs. 12 3/4  
 Helper's Signature

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_



LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK32 DATE: 10/3/05

Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) PROJECT: # 1451 NAME:

Hole No. KMW-1 Depth Today 1140 Depth Yesterday 1050' Total Drilled 90'

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>DISCUSS HOLE W/JAMES M. SITE SAFETY &amp; EQUIP IN DEC</u>
<u>12:00</u>	<u>11:00</u>	<u>DRILLED 1050' - 1140'</u>
<u>11:00</u>	<u>11:30</u>	<u>SURVEY AT 1100'</u>
<u>11:30</u>	<u>12:00</u>	<u>CHECKED OUT EQUIP MADE CONNECTION START DRILLING 1140</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>24</u>	<u>501B</u>	<u>QUICKCEL</u>							
<u>1</u>	<u>501B</u>	<u>SODA ASH</u>							
<u>1</u>	<u>501B</u>	<u>DRISPAC-2</u>							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>1</u>	<u>1/2</u>	BT	<u>3.22</u>	WEIGHT	<u>8.7</u>	<u>8.9</u>	<u>8.9</u>	SURFACE PIPE IN HOLE <u>20</u> F.T. IN.
SIZE	<u>12 3/4</u>	<u>3/4</u>	R.R.	<u>26.62</u>	W.C. REC.	<u>54</u>	<u>53</u>	<u>56</u>	
MFG.	<u>LANY</u>	<u>5</u>	R.R.	<u>6.65</u>	W.C.C.T.	<u>9.6</u>	<u>8.8</u>		DEPTH OF CEMENT GROUT <u>37</u> F.T. IN.
TYPE	<u>T.C. CARBIDE</u>	<u>6</u>	D.C.	<u>20.00</u>	PH	<u>9</u>	<u>8</u>	<u>9</u>	WELL SCREEN IN HOLE <u>37</u> F.T. IN.
SER. NO.	<u>R74E</u>	<u>7</u>	R.R.	<u>6.65</u>	SOLIDS	<u>1/4%</u>	<u>1/4%</u>	<u>1/4%</u>	
DEPTH OUT		<u>8</u>	D.C.	<u>19.87</u>	TEMP.				CASING IN HOLE <u>37</u> F.T. IN.
DEPTH IN	<u>40'</u>	<u>9</u>	R.R.	<u>16.20</u>	W/C	<u>1/32</u>	<u>1/32</u>	<u>1/32</u>	
TOTAL FTG.	<u>1100</u>	<u>10</u>	D.C.	<u>18.38</u>					DEPTH OF GRAVEL <u>37</u> F.T. IN.
TOTAL HRS.	<u>65:55</u>	<u>11</u>	R.R.	<u>19.78</u>					
		<u>15</u>		<u>78.36</u>					DEPTH OF TRIM PIPE <u>37</u> F.T. IN.
		<u>16</u>		<u>2.94</u>					
BIT NO.		TOTAL		<u>218.09</u>	TIME	<u>3:00</u>	<u>6:10</u>	<u>9:00</u>	INTERMEDIATE CASING <u>37</u> F.T. IN.

		SURVEY INFORMATION	
SIZE	<u>69,335</u> LBS.	DEPTH OF SUR.	<u>1100</u>
MFG.	<u>3,887</u> LBS.	DEVIATION	<u>1/2"</u>
TYPE	<u>30-40</u>	DEPTH OF SUR.	
SER. NO.	<u>750</u> LBS.	DEVIATION	
DEPTH OUT	<u>330</u>	DEPTH OF SUR.	
DEPTH IN	<u>2,125</u> LBS.	DEVIATION	

Remarks:

Hrs. Booster 5      Hrs. Extra Comp. \_\_\_\_\_  
 Hrs. Hauling Water 1 1/2      Hrs. Cat \_\_\_\_\_  
 Hrs. Backhoe \_\_\_\_\_      Hrs. Mud Pump \_\_\_\_\_  
 Hrs. 6" Pump (or 2) \_\_\_\_\_      1 1/2 Hrs. Mud Tank \_\_\_\_\_

Sampling Performed by Lang: Yes \_\_\_\_\_ No \_\_\_\_\_

Bill Rossi Hrs. 13  
 Driver's Signature \_\_\_\_\_ Hrs. 1234  
 Helper's Signature \_\_\_\_\_ Hrs. 1234  
 Helper's Signature \_\_\_\_\_ Hrs. 1234

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
1/4 Getting Fuel  
 Chasing for Parts  
1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT				RIG #	DATE:						
Daily Start time: <u>1200</u>		Midnight A.M. Noon <u>PM</u>		PROJECT: <u>1451</u>							
Daily Start time: <u>1200</u>		Midnight A.M. Noon <u>PM</u>		NAME:							
Hole No.	Depth Today	Depth Yesterday	Total Drilled								
<u>K MW-1</u>	<u>1220</u>	<u>1140</u>	<u>80</u>								
FROM	TO	ACTIVITY									
<u>1145</u>	<u>1200</u>	<u>site insp. discuss hole with Bill R</u>									
<u>1200</u>	<u>1200</u>	<u>drill from 1140 to 1220 check output 1030</u>									
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT		
<u>19-</u>	<u>50#</u>	<u>gel</u>									
<u>1</u>	<u>50#</u>	<u>rocks</u>									
<u>1</u>	<u>50#</u>	<u>Pac</u>									
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION			
BIT NO.	<u>1</u>		BIT	F.T.	WEIGHT	<u>89</u>	<u>9</u>	<u>9</u>	SURFACE PIPE IN HOLE	<u>20</u>	
SIZE	<u>12 3/4</u>		STB.	O.D. F.T.	VISC-SEC.	<u>49</u>	<u>48</u>	<u>50</u>	40	F.T. IN.	
MFG.	<u>Lang</u>		D.C.	O.D. F.T.	WL-CC3	<u>8.5</u>	<u>9</u>	<u>8.9</u>	DEPTH OF CEMENT GROUT		
TYPE	<u>T.C. Carbed</u>		R.R.	O.D. F.T.	PH	<u>9</u>	<u>9</u>	<u>9</u>	37	F.T. IN.	
SER. NO.	<u>R 744E</u>		D.C.	O.D. F.T.	SOLIDS%	<u>TR</u>	<u>TR</u>	<u>1/4</u>	WELL SCREEN IN HOLE		
DEPTH OUT			R.R.	O.D. F.T.	TEMP.						
DEPTH IN	<u>40</u>		D.C.	O.D. F.T.		<u>1230</u>	<u>540</u>	<u>9.20</u>		F.T. IN.	
TOTAL FTG.			R.R.						CASING IN HOLE		
TOTAL HRS.	<u>74.31</u>		D.C.							F.T. IN.	
			R.R.								
BIT NO.			TOTAL					DEPTH OF GRAVEL			
SIZE			<u>213.09</u>								
MFG.			WT. OF STRING		SURVEY INFORMATION			DEPTH OF TRIM PIPE			
TYPE			LBS.		DEPTH OF SUR.		DEVIATION				
SER. NO.			WT. OF STRING LESS ROPE		DEPTH OF SUR.		DEVIATION				
DEPTH OUT			LBS.		DEPTH OF SUR.		DEVIATION				
DEPTH IN			HYD. WEIGHT ON BIT		DEPTH OF SUR.		DEVIATION				
TOTAL FTG.			AIR MUD PRESSURE		DEPTH OF SUR.		DEVIATION				
TOTAL HRS.			ACTUAL WEIGHT ON BIT		DEPTH OF SUR.		DEVIATION				
			Remarks:					INTERMEDIATE CASING			
			<u>yesterday start depth was 945</u>								
			<u>not 965'</u>								
<u>6</u> Hrs. Booster <u>3 1/4</u> Hrs. Flaming Water ___ Hrs. Backhoe ___ Hrs. 6" Pump (or 2)			___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump <u>12</u> Hrs. Mud Tank		Sampling Performed by Lang Yes ___ No ___			<u>James McC...</u> <u>E. J. Jones</u> <u>Lady Barnes</u>		***JUSTIFY HOURS (If Applies)*** <u>1/2</u> Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)	
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes ___ No ___ ?											

SE ROA 54087

JA\_18225

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # LK 32		DATE: 10/4/05			
Daily Start time: 12:00		Midnight A.M. Noon P.M.		Daily Start time: 12:00		Midnight A.M. Noon P.M.			
PROJECT: # 1451				NAME:					
Hole No. KMW-1		Depth Today 1325'		Depth Yesterday 1220'		Total Drilled 105'			
FROM	TO	ACTIVITY							
11:45	12:00	Discuss HWC W/JAMES SITE SAFETY & EQUIP INSPECTION							
12:00	12:45	DRILLED 1220 - 1240							
12:45	1:15	SURVEY AT 1200							
1:15	12:00	DRILLED 1240' - 1325							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name		
25	501B	QUICK COE 1							
1	501B	SODA ASH							
1	501B	DR. SPACER							
BIT RECORD		No.		DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.	1	1/2	BIT	F.T.	3.72	WEIGHT	8.8	8.8	18.8
SIZE	12 3/4	3/4	STR. O.D.	F.T.	26.62	VISC. SEC.	52	52	51
MFG.	LANL2	5	R.R. O.D.	F.T.	6.65	WL. CC'S	8.8	8	10.8
TYPE	T.C. CARBIDE	6	D.C. O.D.	F.T.	20.00	PH	10	10	10
SER. NO.	R74YE	7	R.R. O.D.	F.T.	6.65	SOLIDS%	1/4%	1/4%	TR
DEPTH OUT		8	D.C. R.R. O.D.	F.T.	19.87	TEMP.			
DEPTH IN	40'	9	D.C. R.R. O.D.	F.T.	16.20	W/C	1/32	1/32	1/32
TOTAL FTG.	17.85'	10	D.C. R.R.		18.38				
TOTAL HRS.	8.5:05	11	R.R.		19.98				
		12			78.36				
		16			2.44				
BIT NO.		TOTAL			218.09	T.M.C.	3:00	6:00	9:00
SIZE		WT. OF STRING			76.410	SURVEY INFORMATION			
MFG.		WT. OF STRING LESS RODS			81.837	DEPTH OF SUR.	1200	DEVIATION	1/4"
TYPE		RPM			30-50	DEPTH OF SUR.		DEVIATION	
SER. NO.		HYD. WEIGHT ON BIT			850	DEPTH OF SUR.		DEVIATION	
DEPTH OUT		AIR MUD PRESSURE			370	DEPTH OF SUR.		DEVIATION	
DEPTH IN		ACTUAL WEIGHT ON BIT			24.055	DEPTH OF SUR.		DEVIATION	
TOTAL FTG.		Remarks:							
TOTAL HRS.									
1 1/2 Hrs. Booster		Hrs. Extra Comp.		Sampling Performed by Lang		B:11 Rossi Hrs. 13			
3 Hrs. Hauling Water		Hrs. Cat		Yes _____ No _____		BUSTIN HERTAGE Hrs. 12 3/4			
1 Hrs. Backhoe		Hrs. Mud Pump				Buddy Sillan Hrs. 12 3/4			
Hrs. 6" Pump (or 2)		12 Hrs. Mud Tank				***JUSTIFY HOURS (if Applies)***			
						1/4 Getting Fuel			
						Chasing for Parts			
						1/2 Drive Time (after the 1st one hour)			
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes _____ No _____ ? _____									

SE ROA 54088

JA\_18226

LANG EXPLORATORY DAILY DRILLING REPORT				RIG #	DATE:						
Daily Start time: <u>12:00</u>		Midnight A.M. Noon P.M.		PROJECT: # <u>4151</u>							
Daily Start time: <u>12:00</u>		Midnight A.M. Noon P.M.		NAME: <u>URS</u>							
Hole No.	Depth Today	Depth Yesterday	Total Drilled								
<u>KMW-1</u>	<u>1390'</u>	<u>1325'</u>	<u>65'</u>								
FROM	TO	ACTIVITY									
<u>11:00</u>	<u>11:45</u>	<u>Turtle Training &amp; S.Te Training</u>									
<u>11:45</u>	<u>12:00</u>	<u>S.Te Safety &amp; Equip. instruction</u>									
<u>12:00</u>	<u>12:45</u>	<u>Drill 1325' - 1340'</u>									
<u>12:45</u>	<u>1:15</u>	<u>Survey &amp; check a.l.s &amp; grease pump</u>									
<u>1:15</u>	<u>12:00</u>	<u>Drill 1340' - 1390'</u>									
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT		
<u>72</u>	<u>gallons</u>	<u>Clear Diesel</u>	<u>X</u>								
<u>15</u>	<u>50#</u>	<u>max Gel</u>	<u>X</u>								
<u>1</u>	<u>50#</u>	<u>Solb. Ash</u>	<u>X</u>								
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION			
BIT NO.	<u>1</u>	<u>1/2</u>	BIT/DI	FT.	WEIGHT	<u>9.1</u>	<u>9.0</u>	<u>9.0</u>	SURFACE PIPE IN HOLE		
SIZE	<u>12 3/4</u>	<u>4</u>	DR O.D.	FT.	VISC. SEC.	<u>55</u>	<u>62</u>	<u>64</u>	<u>40</u> F.T. IN.		
MFG.	<u>Laag</u>	<u>3</u>	DC R.R.	FT.	WL-CCS	<u>11.2</u>	<u>8.4</u>	<u>6.00</u>	DEPTH OF CEMENT GROUT		
TYPE	<u>TK Carbide</u>	<u>6</u>	DC O.D.	FT.	PH	<u>9</u>	<u>9</u>	<u>10</u>	<u>37</u> F.T. IN.		
SER. NO.	<u>A 74YE</u>	<u>5</u>	DC O.D.	FT.	SOLIDS%	<u>1/4</u>	<u>1/4</u>	<u>Trace</u>	WELL SCREEN IN HOLE		
DEPTH OUT		<u>7</u>	DC O.D.	FT.	TEMP.						
DEPTH IN	<u>40'</u>	<u>8 1/2</u>	DC O.D.	FT.	Time	<u>2:00</u>	<u>5:00</u>	<u>12:00</u>			
TOTAL FTG.			DC R.R.						CASING IN HOLE		
TOTAL HRS.	<u>95.5</u>		DC R.R.								
		<u>16</u>	T/S	<u>2.44</u>							
BIT NO.			TOTAL								
SIZE			WT. OF STRING	<u>69,335</u> LBS.	SURVEY INFORMATION						
MFG.			WT. OF STRING LESS RODS	<u>31,827</u> LBS.	DEPTH OF SUR.	<u>1300</u>	DEVIATION	<u>1/4</u>	DEPTH OF TRIM PIPE		
TYPE			RPM	<u>30-50</u>	DEPTH OF SUR.		DEVIATION				
SER. NO.			HYD. WEIGHT ON BIT	<u>900</u> LBS.	DEPTH OF SUR.		DEVIATION				
DEPTH OUT			AIR MUD PRESSURE	<u>370</u>	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING		
DEPTH IN			ACTUAL WEIGHT ON BIT	<u>25,470</u> LBS.	DEPTH OF SUR.		DEVIATION				
TOTAL FTG.			Remarks: <u>Innertube 20' R.T. , Survey every 100'</u>								
TOTAL HRS.											
<u>1 1/2</u> Hrs. Booster <u>3</u> Hrs. Hauling Water <u>3</u> Hrs. Backhoe _____ Hrs. 6" Pump (or 2)				_____ Hrs. Extra Comp. _____ Hrs. Cat _____ Hrs. Mud Pump <u>1 1/2</u> Hrs. Mud Tank				Sampling Performed by Lang Yes _____ No _____			
				Driver's Signature: <u>Dale Jones</u> Helper's Signature: <u>Ben Wilson</u> Helper's Signature: <u>Dave S. Davis</u>				***JUSTIFY HOURS (If Applies)*** <u>1/4</u> Getting Fuel <u>1/4</u> Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)			
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes _____ No _____ ? _____											

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK32 DATE: 10/5/05

Daily Start time: 12:00 Midnight A.M.  
Noon P.M. Daily Start time: 12:00 Midnight A.M.  
Noon P.M. PROJECT: #1451  
NAME: URS

Hole No. KMW-1 Depth Today 1485' Depth Yesterday 1390 Total Drilled 65'

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>DISCUSS HOLE W/DNE SITE SAFETY &amp; EQUIP INSPECTION</u>
<u>12:00</u>	<u>8:45</u>	<u>DRILLED 1390-1440'</u>
<u>8:45</u>	<u>9:15</u>	<u>PERFORM SURVEY AT 1400'</u>
<u>9:15</u>	<u>12:00</u>	<u>DRILLED 1440-1455'</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>17</u>	<u>501B</u>	<u>QUICK GEL</u>	<u>X</u>						
<u>1</u>	<u>501B</u>	<u>SODA ASH</u>	<u>X</u>						
<u>1</u>	<u>501B</u>	<u>DRISPER-R</u>	<u>X</u>						
<u>5</u>	<u>9A1</u>	<u>UNIKO GASOLINE</u>	<u>X</u>						
<u>70</u>	<u>9A1</u>	<u>CLEAR DIESEL</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>1</u>	<u>1/2</u>	<u>BT 1/85 FT. 3.22</u>	WEIGHT	<u>8.5</u>	<u>9.0</u>	<u>8.9</u>	SURFACE PIPE IN HOLE <u>40</u> FT. IN.
SIZE	<u>12 3/4</u>	<u>3/4</u>	<u>STR. O.D. FT. 26.62</u>	VISC. SEC.	<u>5209</u>	<u>5259</u>	<u>5252</u>	
MFG.	<u>LANG</u>	<u>5</u>	<u>D.C. R.R. O.D. FT. 6.65</u>	WL. COE.	<u>9.2</u>	<u>8.4</u>	<u>9.2</u>	DEPTH OF CEMENT GROUT <u>37</u> FT. IN.
TYPE	<u>T.C. CARB. DC</u>	<u>6</u>	<u>D.C. O.D. FT. 20.00</u>	PH	<u>9</u>	<u>9</u>	<u>9</u>	
SER. NO.	<u>R941E</u>	<u>7</u>	<u>D.C. R.R. O.D. FT. 6.65</u>	SOLIDS%	<u>1/4%</u>	<u>1/4%</u>	<u>1/4%</u>	WELL SCREEN IN HOLE 
DEPTH OUT		<u>8</u>	<u>D.C. R.R. O.D. FT. 19.87</u>	TEMP.				
DEPTH IN	<u>40'</u>	<u>9</u>	<u>D.C. R.R. O.D. FT. 16.20</u>	W/C	<u>1/32</u>	<u>1/32</u>	<u>1/32</u>	CASING IN HOLE 
TOTAL FTG.	<u>1415'</u>	<u>10</u>	<u>D.C. R.R. 18.38</u>					
TOTAL HRS.	<u>105:45</u>	<u>11</u>	<u>D.C. R.R. 19.78</u>					DEPTH OF GRAVEL 
		<u>12</u>	<u>D.C. R.R. 78.36</u>					
		<u>16</u>	<u>2.44</u>					DEPTH OF TRIM PIPE 
BIT NO.		<u>TOTAL</u>	<u>218.09</u>	Time	<u>3:00</u>	<u>6:00</u>	<u>9:00</u>	
SIZE		WT. OF STRING	<u>77,825</u> LBS.	SURVEY INFORMATION			DEPTH OF INTERMEDIATE CASING 	
MFG.		WT. OF STRING LESS RODS	<u>31,837</u> LBS.	DEPTH OF SUR.	<u>1400</u>	DEVIATION		<u>2 1/4</u>
TYPE		RPM	<u>30-50</u>	DEPTH OF SUR.		DEVIATION		
SER. NO.		HYD. WEIGHT ON BIT	<u>900</u> LBS.	DEPTH OF SUR.		DEVIATION		
DEPTH OUT		AIR MUD PRESSURE	<u>390</u>	DEPTH OF SUR.		DEVIATION		
DEPTH IN		ACTUAL WEIGHT ON BIT	<u>25,470</u> LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL FTG.		Remarks:						
TOTAL HRS.								

<u>1 1/2</u> Hrs. Booster <u>2</u> Hrs. Hauling Water <u>2</u> Hrs. Backhoe ___ Hrs. 6" Pump (nr 2)	___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump <u>12</u> Hrs. Mud Tank	Sampling Performed by Lang Yes ___ No ___	Bill Rossi Hrs. <u>13</u> QUEJAIL HURTADO Hrs. <u>12 3/4</u> BUDDY SHAW Hrs. <u>12 3/4</u>
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\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
1/4 Getting Fuel  
 \_\_\_ Chasing for Parts  
1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ 7 \_\_\_





LANG EXPLORATORY DAILY DRILLING REPORT      RIG # 1H-32      DATE: 10/9/05

Daily Start time: 12:00       Midnight A.M.       Noon P.M.      Daily Start time: 12:00       Midnight A.M.       Noon P.M.      PROJECT: 1451      NAME: URS

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>Kmw-1</u>	<u>1525'</u>	<u>1455'</u>	<u>70'</u>

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equipment inspection</u>
<u>12:00</u>	<u>12:15</u>	<u>Drill 1455-1460</u>
<u>12:15</u>	<u>12:30</u>	<u>Check out &amp; grease equip.</u>
<u>12:30</u>	<u>12:00</u>	<u>Drill 1460-1525'</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>9</u>	<u>50#</u>	<u>Agallus - Unclad</u>	<input checked="" type="checkbox"/>						
<u>17</u>	<u>50#</u>	<u>max Gel</u>	<input checked="" type="checkbox"/>						
<u>1</u>	<u>50#</u>	<u>Salk Ash</u>	<input checked="" type="checkbox"/>						
<u>1</u>	<u>50#</u>	<u>Quisac</u>	<input checked="" type="checkbox"/>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD			WELL CONSTRUCTION		
BIT NO.	<u>1</u>	<u>1/2</u>	<u>BT/65</u> F.T. <u>3.22</u>	WEIGHT	<u>90</u>	<u>91</u>	<u>91</u>	SURFACE PIPE IN HOLE	<u>20</u>
SIZE	<u>12 3/4</u>	<u>4</u>	<u>4TD</u> O.D. F.T. <u>19.93</u>	VED-SEC.	<u>55</u>	<u>57</u>	<u>54</u>	DEPTH OF CEMENT GROUT	<u>40</u> F.T.    IN.
MFG.	<u>Lany</u>	<u>3</u>	<u>DC</u> O.D. F.T. <u>6.64</u>	WL-GC	<u>76</u>	<u>4.8</u>	<u>88</u>	DEPTH OF CEMENT GROUT	
TYPE	<u>T/L CMB.De</u>	<u>6</u>	<u>DC</u> O.D. F.T. <u>20.00</u>	PH	<u>9</u>	<u>9</u>	<u>9</u>	DEPTH OF CEMENT GROUT	
SER. NO.	<u>R74YE</u>	<u>5</u>	<u>DC</u> O.D. F.T. <u>6.65</u>	SOLIDS%	<u>1/4</u>	<u>1/4</u>	<u>1/2</u>	DEPTH OF CEMENT GROUT	
DEPTH OUT		<u>7</u>	<u>DC</u> O.D. F.T. <u>6.65</u>	TEMP.				WELL SCREEN IN HOLE	
DEPTH IN	<u>40'</u>	<u>8 1/2</u>	<u>DC</u> O.D. F.T. <u>15251</u>	Time	<u>2:00</u>	<u>6:30</u>	<u>10:00</u>	WELL SCREEN IN HOLE	
TOTAL FTG.								WELL SCREEN IN HOLE	
TOTAL HRS.	<u>115</u>							CASING IN HOLE	
		<u>16</u>	<u>7/8</u> <u>2.44</u>					CASING IN HOLE	
								CASING IN HOLE	
BIT NO.			TOTAL					DEPTH OF GRAVEL	
SIZE			WT. OF STRONG <u>73,530</u> <u>lbs</u>	SURVEY INFORMATION				DEPTH OF GRAVEL	
MFG.			WT. OF STRONG LESS RODS <u>31,83</u> <u>lbs</u>	DEPTH OF SURF.		DEVIATION		DEPTH OF TRIMPIPE	
TYPE			RPM <u>30-60</u>	DEPTH OF SURF.		DEVIATION		DEPTH OF TRIMPIPE	
SER. NO.			HYD. WEIGHT ON BIT <u>900</u> LBS.	DEPTH OF SURF.		DEVIATION		DEPTH OF TRIMPIPE	
DEPTH OUT			AIR PRESSURE <u>420</u>	DEPTH OF SURF.		DEVIATION		INTERMEDIATE CASING	
DEPTH IN			ACTUAL WEIGHT ON BIT <u>25,470</u> LBS.	DEPTH OF SURF.		DEVIATION		INTERMEDIATE CASING	
TOTAL FTG.			Remarks:						
TOTAL HRS.									

<u>11 1/4</u> Hrs. Booster      ___ Hrs. Extra Comp. <u>3</u> Hrs. Hauling Water      ___ Hrs. Cat <u>1/2</u> Hrs. Backhoe      ___ Hrs. Mud Pump ___ Hrs. 6" Pump (or 2) <u>11 3/4</u> Hrs. Mud Tank	Sampling Performed by Lang Yes ___ No ___	<u>Dale Jensen</u> Hrs. <small>Driller's Signature</small> <u>Ron Wilson</u> Hrs. <small>Helper's Signature</small> <u>Paul Stihl</u> Hrs. <small>Helper's Signature</small> ___ Hrs. <small>Helper's Signature</small> ***JUSTIFY HOURS (If Applies)*** <u>1/4</u> Getting Fuel <u>1/2</u> Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ? \_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT      RIG # 24-32      DATE: 10/6/05

Daily Start time: 12:00      Midnight A.M. 12:00 P.M.      Daily Start time: 12:00      Midnight A.M. Noon P.M.      PROJECT: 1451      NAME: URS

Hole No. kmw-1	Depth Today 1655'	Depth Yesterday 1590'	Total Drilled 65'
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FROM	TO	ACTIVITY
11:45	12:00	Site + Equip inspection
12:00	1:15	Drill 1590' - 1600'
1:15	1:30	check oil + gas on equip
<del>1:30</del> 1:30	8:00	<del>Drill</del> Drill 1600' - 1640'
8:00	8:30	Sudlay @ 1600'
8:30	12:00	Drill 1640' - 1655'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
66	gallons	clean diesel	X						
23	50#	MAX coal	X						
1	50#	Soda Ash	X						
1	50#	Dr. gas	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	1	1/2	BIT	FT.	3.22	WEIGHT	7.1	9.3	9.2
SIZE	12 3/4	4	STR. O.D.	FT.	19.93	VISC. SEC.	51	51	55
MFG.	Lang	3	R.R. O.D.	FT.	6.64	WL. CTS	5.6	6.3	9.2
TYPE	Tk Carbide	6	D.D. O.D.	FT.	20.00	IN	10	10	10
SER. NO.	A 747E	5	R.R. O.D.	FT.	6.65	SOLIDITY	Trace	1/4	1/4
DEPTH OUT		7	R.R. O.D.	FT.	6.65	TEMP.			
DEPTH IN	40'	3/4	R.R. O.D.	FT.	152.91	Time	2:00	6:00	10:00
TOTAL FTG.			R.R.						
TOTAL HRS.	136 1/2		R.R.						
		16	1/3		244				
BIT NO.		TOTAL							

		WT. OF STRING		SURVEY INFORMATION	
SIZE		75,702	LBS.	DEPTH OF SUR.	1600
MFG.		3,872	LBS.	DEVIATION	2 1/4
TYPE		30-50	RPM	DEPTH OF SUR.	
SER. NO.		900	LBS.	DEVIATION	
DEPTH OUT		520	AM. PRESSURE	DEPTH OF SUR.	
DEPTH IN		25,477	LBS.	DEVIATION	

TOTAL FTG.      TOTAL HRS.      Remarks:

1 1/4 Hrs. Booster	Hrs. Extra Comp.	Sampling Performed by Lang Yes _____ No _____	Driver's Signature Dale Johnson
1 Hrs. Hauling Water	Hrs. Cal		Helper's Signature Randy Sullivan
1/2 Hrs. Backhoe	Hrs. Mud Pump		Helper's Signature
Hrs. 6" Pump (or 2)	1 1/4 Hrs. Mud Tank		

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ?

LANG EXPLORATORY DAILY DRILLING REPORT RIG # **LK32** DATE: **10/7/05**

Daily Start time: **12:00** **Midnight A.M.** Noon P.M. Daily Start time: **12:00** **Midnight A.M.** Noon P.M. PROJECT: #**1451** NAME: **URS**

Hole No. **KMW-1** Depth Today **1680'** Depth Yesterday **1655'** Total Drilled **25'**

FROM	TO	ACTIVITY
11:45	12:00	DISCUSS HOLE W/DNR SITE SAFETY & EQUIP INSPEC
12:00	4:30	DRILLED 1655'-1680'
4:30	8:00	TRIP OUT RODS
8:00	12:00	START TRIPPING B.H.A.

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
7	501B	QUICK GEL	X						
0	501B	SODA ASH	X						
0	501B	DRISDAL-R	X						

BIT RECORD			DRILLING ASSEM. (at end of hour)			MUD RECORD			WELL CONSTRUCTION	
BIT NO.	1	1/2	WT./BS	P.T.	3.22	WEIGHT	9.1		SURFACE PIPE IN HOLE	20
SIZE	12 1/4	4	STB.	O.D. P.T.	19.93	VSIC-SEC.	2.55		40	F.T. IN.
MFG.	LANG	3	D.C.	O.D. P.T.	6.64	WL-CCS	8.8		DEPTH OF CEMENT GROUT	
TYPE	T.C. CARBIDE	6	D.C.	O.D. P.T.	20.00	PH	9		37	F.T. IN.
SER. NO.	R74YE	5	D.S.	O.D. P.T.	6.65	SOLIDS%	14%		WELL SCREEN IN HOLE	
DEPTH OUT	1680'	7	D.C.	O.D. P.T.	6.65	TEMP.				
DEPTH IN	40'	3/5	D.C.	R.R. O.D.	152.51	W.C.	132'			
TOTAL FTG.	1640'		D.C.	R.R.					CASING IN HOLE	
TOTAL HRS.	140:30		O.C.	R.R.						
		16	T/S		2.44					
BIT NO.		TOTAL			218.09	TIME	3:00		DEPTH OF GRAVEL	

		SURVEY INFORMATION			
SIZE	WT. OF STRING	84,900	LBS.	DEPTH OF SUR.	
MFG.	WT. OF STRING LESS RODS	31,837	LBS.	DEPTH OF SUR.	
TYPE	RPM	30-50		DEPTH OF SUR.	
SER. NO.	HYD. WEIGHT ON BIT	900	LBS.	DEPTH OF SUR.	
DEPTH OUT	AIR PRESSURE			DEPTH OF SUR.	
DEPTH IN	MUD PRESSURE			DEPTH OF SUR.	
TOTAL FTG.	ACTUAL WEIGHT ON BIT	25,470	LBS.	DEPTH OF SUR.	
TOTAL HRS.	Remarks:				

4 1/2 Hrs. Booster 2 Hrs. Hauling Water 1 Hrs. Backhoe ___ Hrs. 6" Pump (nr 2)	___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump 1 1/2 Hrs. Mud Tank	Sampling Performed by Lang Yes ___ No ___	Bill Bassi 10/12/04 Operator's Signature QUENTIN HURTADO 10/12/04 Engineer's Signature BUDDY SHAW 10/12/04 Helper's Signature ***JUSTIFY HOURS (if Applies)*** ___ Getting Fuel ___ Chasing for Parts 1/2 Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ? \_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT      FIG # LK-32      DATE: 10/7/05

Daily Start time: 12:00       Midnight A.M.       Noon P.M.      Daily Start time: 12:00       Midnight A.M.       Noon P.M.      PROJECT: 1451      NAME: URS

Hole No. Kmw-1      Depth Today      Depth Yesterday      Total Drilled

FROM	TO	ACTIVITY
11:45	12:00	<del>Site</del> SITE SAFETY & Equip inspection
12:00	8:45	Trip out Tools, Inner tube apart, change Bit Trip in Tools, Trip in Rods To 1600'
8:45	11:00	Blow Rods down To 1620', Air up clean outside AND level out Mud Tank, Ream down to 1670', <del>Bit</del> Bit <sup>pulling</sup> up, bit Fill @ 1670'
11:00	12:00	Drill out Fill.
12:00	12:15	Discuss w/ Bill & Fill out log

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
5	gallons	unloaded	X						
20	50H	Max Gel	X						
1	50H	pk R	X						
1	50H	D-5 pac	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD			WELL CONSTRUCTION	
BIT NO.	1	12	1/8" 1/8" 3.31	WEIGHT			SURFACE PIPE IN HOLE	20
SIZE	12 3/4	4	STR. O.D. FT. 19.93	VISC-SEC.			40	F.T. IN.
MFG.	Lang	3	R.R. O.D. FT. 6.64	WL-CCS			DEPTH OF CEMENT GROUT	
TYPE	TK Cr. B. Re	6	D.C. O.D. FT. 20.00	PH			37	F.T. IN.
SER. NO.	F624-F362K	5	R.R. O.D. FT. 6.65	SOLIDS%			WELL SCREEN IN HOLE	
DEPTH OUT		7	R.R. O.D. FT. 6.65	TEMP.				F.T. IN.
DEPTH IN	1680'	3 1/2	R.R. O.D. FT. 152.51				CASING IN HOLE	
TOTAL FTG.								F.T. IN.
TOTAL HRS.	2	16	7/8 2.44				DEPTH OF GRAVEL	
			TOTAL 218.18					F.T. IN.
BIT NO.				SURVEY INFORMATION			DEPTH OF TRIM PIPE	
SIZE			WT. OF STRING 77.240 LBS.	DEPTH OF SUR.		DEVIATION		F.T. IN.
MFG.			WT. OF STRING LESS RODS 31.937 LBS.	DEPTH OF SUR.		DEVIATION		F.T. IN.
TYPE			RPM	DEPTH OF SUR.		DEVIATION		F.T. IN.
SER. NO.			HYD. WEIGHT ON BIT LBS.	DEPTH OF SUR.		DEVIATION		F.T. IN.
DEPTH OUT			AIR MUD PRESSURE	DEPTH OF SUR.		DEVIATION		F.T. IN.
DEPTH IN			ACTUAL WEIGHT ON BIT LBS.	DEPTH OF SUR.		DEVIATION		F.T. IN.
TOTAL FTG.			Remarks: Static 836'				INTERMEDIATE CASING	
TOTAL HRS.			2200-Tools Torque					F.T. IN.

3 Hrs. Booster	Hrs. Extra Comp.	Sampling Performed by Lang Yes _____ No _____	Driver's Signature <u>Rob Kaman</u> Hrs.
2 Hrs. Hauling Water	Hrs. Cat		Helper's Signature <u>Ken Wilson</u> Hrs.
2 Hrs. Backhoe	Hrs. Mud Pump		Helper's Signature <u>Michael Stillman</u> Hrs.
Hrs. 6" Pump (or 2)	3/4 Hrs. Mud Tank		Helper's Signature _____ Hrs.

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 1/4 Getting Fuel  
 Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK32 DATE 10/8/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: # 1451 NAME: URS

Hole No. Kmw-1 Depth Today 1750' Depth Yesterday 1680' Total Drilled 70'

FROM	TO	ACTIVITY
12:00	12:15	DISCUS THE W/DAIF SITE SAFETY & EQUIP INSPEC
12:15	2:30	UNPLUG BIT
2:30	3:30	DRILLED OUT FILL 1675-1680'
3:30	12:00	DRILLED 1680'-1750'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
52	50LB	GRUKW-1							
1	50LB	SODA ASH							
1	50LB	DRISAL-R							

BIT RECORD		No.		DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION		
BIT NO.	<u>3</u>	1/2	INT/BS	FT.	<u>3.31</u>	WEIGHT	<u>8.6</u>	<u>8.9</u>	<u>8.7</u>	SURFACE PIPE IN HOLE	<u>20</u>
SIZE	<u>12 1/4</u>	4	STR.	O.D.	FE.	<u>19.93</u>	VISC-SEC.	<u>4.7</u>	<u>4.7</u>	<u>4.6</u>	<u>40</u>
MFG.	<u>LANG</u>	3	D.C.	O.D.	FE.	<u>6.64</u>	ML-CC'S	<u>8.8</u>	<u>9.6</u>	<u>8.4</u>	DEPTH OF CEMENT GROUT
TYPE	<u>T.C. CARBIDE</u>	6	D.C.	O.D.	FE.	<u>70.00</u>	PH	<u>9</u>	<u>9</u>	<u>8</u>	<u>37</u>
SER. NO.	<u>F362K</u>	5	D.C.	O.D.	FE.	<u>16.65</u>	SOLIDS%	<u>14%</u>	<u>14%</u>	<u>14%</u>	DEPTH OF TRIM PIPE
DEPTH OUT		7	D.C.	O.D.	FE.	<u>6.65</u>	TEMP.				WELL SCREEN IN HOLE
DEPTH IN	<u>1680'</u>	8/5	D.C.	O.D.	FE.	<u>152.51</u>	W/L	<u>1/32</u>	<u>1/32</u>	<u>1/32</u>	DEPTH OF GRAVEL
TOTAL FTG.	<u>70'</u>		D.C.	R.L.							CASING IN HOLE
TOTAL HRS.	<u>9</u>		D.C.	R.L.							DEPTH OF TRIM PIPE
		16	T/S			<u>2.44</u>					INTERMEDIATE CASING
BIT NO.		TOTAL			<u>218.18</u>	TIME	<u>4:00</u>	<u>7:30</u>	<u>10:00</u>		

		WT. OF STRING		SURVEY INFORMATION		DEPTH OF SUR.		DEVIATION	
SIZE		86	315	LBS.					
MFG.		WT. OF STRING LESS ROPE	<u>31,837</u>	LBS.	DEPTH OF SUR.				
TYPE		RPM	<u>30-50</u>		DEPTH OF SUR.				
SER. NO.		HYD. WEIGHT ON BIT	<u>900</u>	LBS.	DEPTH OF SUR.				
DEPTH OUT		AIR PRESSURE	<u>450</u>		DEPTH OF SUR.				
DEPTH IN		MUD			DEPTH OF SUR.				
TOTAL FTG.		ACTUAL WEIGHT ON BIT	<u>5,470</u>	LBS.	DEPTH OF SUR.				
TOTAL HRS.		Remarks:	<u>LIFT TUBE 318' FROM BIT</u>						

<u>11 3/4</u> Hrs. Booster <u>5</u> Hrs. Hauling Water <u>1</u> Hrs. Backhoe ___ Hrs. 6" Pump (or 2)	___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump <u>11 3/4</u> Hrs. Mud Tank	Sampling Performed by Lang Yes ___ No ___	Bill Rossi Hrs. <u>12 3/4</u> [Signature] Hrs. <u>12 1/2</u> [Signature] Hrs. <u>12 1/2</u> BUDY SHAW ***JUSTIFY HOURS (if Applies)*** <u>1/4</u> Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes ___ No ___ ? ___			

LANG EXPLORATORY DAILY DRILLING REPORT RIG # 44-32 DATE: 10/8/05

Daily Start time: 12:00 Midnight A.M. Noon P.M. Daily Start time: 12:00 Midnight A.M. Noon P.M. PROJECT: 1451 NAME: URS

Hole No. Kmw-1 Depth Today 1820' Depth Yesterday 1750' Total Drilled 70'

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equipment inspection</u>
<u>12:00</u>	<u>1:00</u>	<u>Drill 1750'-1760'</u>
<u>1:15</u>	<u>1:30</u>	<u>check o.i.s &amp; grease equip.</u>
<u>1:30</u>	<u>12:00</u>	<u>Drill 1760'-1820'</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>31</u>	<u>50#</u>	<u>MaxGel</u>	<u>X</u>						
<u>1</u>	<u>50#</u>	<u>Solka Ach</u>	<u>X</u>						
<u>1</u>	<u>50#</u>	<u>Pw-R</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION				
BIT NO.	<u>1</u>	<u>1/2</u>	BIT	<u>185</u>	P.T.	<u>3.31</u>	WEIGHT	<u>8.8</u>	<u>3.8</u>	<u>8.8</u>	SURFACE PIPE IN HOLE	<u>20</u>
SIZE	<u>12 3/4</u>	<u>4</u>	STE.	<u>O.D.</u>	<u>P.T.</u>	<u>19.93</u>	VISC-SEC.	<u>52</u>	<u>51</u>	<u>56</u>	<u>40</u>	F.T. IN.
MFG.	<u>1223</u>	<u>3</u>	O.C.	<u>R.R.</u>	<u>O.D.</u>	<u>P.T.</u>	<u>6.64</u>	WLCCS	<u>8.4</u>	<u>7.2</u>	<u>5.6</u>	DEPTH OF CEMENT GROUT
TYPE	<u>TIC C.S. De</u>	<u>6</u>	O.C.	<u>O.B.</u>	<u>P.T.</u>	<u>20.00</u>	PH	<u>9</u>	<u>9</u>	<u>9</u>	<u>37</u>	F.T. IN.
SER. NO.	<u>F3624</u>	<u>5</u>	O.C.	<u>R.R.</u>	<u>O.D.</u>	<u>P.T.</u>	SOLENS	<u>1/4</u>	<u>Trace</u>	<u>1/4</u>		
DEPTH OUT		<u>7</u>	O.C.	<u>R.R.</u>	<u>O.D.</u>	<u>P.T.</u>	TEMP					
DEPTH IN	<u>1680'</u>	<u>8 1/2</u>	O.C.	<u>R.R.</u>	<u>O.D.</u>	<u>P.T.</u>	Time	<u>2:00</u>	<u>6:20</u>	<u>10:30</u>		
TOTAL FTG.			O.C.	<u>R.R.</u>								
TOTAL HRS.	<u>20</u>		O.C.	<u>R.R.</u>								
		<u>16</u>	<u>7 1/2</u>			<u>2.44</u>						
BIT NO.						<u>218.12</u>						

		WT. OF STRING <u>70,655</u> LBS.		SURVEY INFORMATION			
SIZE		WT. OF STRING LESS RODS	<u>31,857</u> LBS.	DEPTH OF SUR.		DEVIATION	
MFG.				DEPTH OF SUR.		DEVIATION	
TYPE		RPM	<u>30-50</u>	DEPTH OF SUR.		DEVIATION	
SER. NO.		HYD. WEIGHT ON BIT	<u>900</u> LBS.	DEPTH OF SUR.		DEVIATION	
DEPTH OUT		AIR PRESSURE	<u>455</u>	DEPTH OF SUR.		DEVIATION	
DEPTH IN		ACTUAL WEIGHT ON BIT	<u>25,470</u> LBS.	DEPTH OF SUR.		DEVIATION	

TOTAL FTG. \_\_\_\_\_  
 TOTAL HRS. \_\_\_\_\_  
 Remarks: \_\_\_\_\_

<u>11 3/4</u> Hrs. Booster <u>1</u> Hrs. Hauling Water <u>2</u> Hrs. Backhoe _____ Hrs. 6" Pump (or 2)	_____ Hrs. Extra Comp. _____ Hrs. Cat _____ Hrs. Mud Pump <u>11 3/4</u> Hrs. Mud Tank	Sampling Performed by Lang Yes _____ No _____	Dale Jensen Hrs. _____ Operator's Signature Ron Wilson Hrs. _____ Helper's Signature Marcel St. Ihan Hrs. _____ Helper's Signature ***JUSTIFY HOURS (If Applies)*** _____ Getting Fuel _____ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <b>LK32</b>		DATE: <b>10/9/05</b>					
Daily Start time: <b>12:00</b>		Midnight A.M. Noon P.M.		Daily Start time: <b>12:00</b>		Midnight A.M. Noon P.M.					
PROJECT: # <b>1451</b>				NAME: <b>URS</b>							
Hole No. <b>KMW-1</b>		Depth Today <b>1910'</b>		Depth Yesterday <b>1820'</b>		Total Drilled <b>90'</b>					
FROM	TO	ACTIVITY									
<b>11:45</b>	<b>12:00</b>	<b>DISCUSS HOLE W/DNE SITE SAFETY &amp; EQUIP INSPEC.</b>									
<b>12:00</b>	<b>1:45</b>	<b>DRILLED 1820' - 1840'</b>									
<b>1:45</b>	<b>2:15</b>	<b>SURVEY AT 1800'</b>									
<b>2:15</b>	<b>12:00</b>	<b>DRILLED 1840' - 1910'</b>									
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT		
<b>14</b>	<b>50/B</b>	<b>QUIK GEL</b>	<b>X</b>								
<b>1</b>	<b>50/B</b>	<b>SODA ASH</b>	<b>X</b>								
<b>1</b>	<b>50/B</b>	<b>DRIS PAC-R</b>	<b>X</b>								
<b>5</b>	<b>9A1</b>	<b>UNLEADED GASOLINE</b>	<b>X</b>								
<b>70</b>	<b>9A1</b>	<b>CLEAR DIESEL</b>	<b>X</b>								
BIT RECORD		No.		DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION		
BIT NO.	<b>3</b>	BT	FT.	<b>3.31</b>	WEIGHT	<b>8.8</b>	<b>8.8</b>	<b>8.7</b>	SURFACE PIPE IN HOLE	<b>20</b>	
SIZE	<b>12 1/4"</b>	STR.	O.D.	<b>19.93</b>	VISC. - MC	<b>55</b>	<b>52</b>	<b>58</b>	<b>45</b>	<b>45</b>	
MFG.	<b>LANG</b>	D.C.	O.D.	<b>6.64</b>	WL. CCS	<b>5.6</b>	<b>6.4</b>	<b>8.8</b>	DEPTH OF CEMENT GROUT	<b>37</b>	
TYPE	<b>T.C. CARBIDE</b>	D.C.	O.D.	<b>20.00</b>	PH	<b>9</b>	<b>9</b>	<b>9</b>	WELL SCREEN IN HOLE		
SER. NO.	<b>F362K</b>	D.C.	R.R.	<b>6.65</b>	SOLIDS%	<b>1/4%</b>	<b>1/4%</b>	<b>1/4%</b>	CASING IN HOLE		
DEPTH OUT		D.C.	R.R.	<b>6.65</b>	TEMP.				DEPTH OF GRAVEL		
DEPTH IN	<b>1680'</b>	D.C.	R.R.	<b>152.51</b>	W/C	<b>2/32</b>	<b>2/32</b>	<b>2/32</b>	DEPTH OF TRIM PIPE		
TOTAL FTG.	<b>230'</b>	D.C.	R.R.						INTERMEDIATE CASING		
TOTAL HRS.	<b>30</b>	D.C.	R.R.								
		T.T.S.		<b>2.44</b>							
BIT NO.		TOTAL		<b>218.18</b>	TIME	<b>3:30</b>	<b>7:00</b>	<b>10:00</b>			
SIZE		WT. OF STRONG	<b>90,560</b>	LIBS.	SURVEY INFORMATION						
MFG.		WT. OF STRONG LESS RODS	<b>31,837</b>	LIBS.	DEPTH OF SUR.	<b>1800</b>	DEVIATION	<b>3</b>			
TYPE		RPM	<b>50-60</b>		DEPTH OF SUR.		DEVIATION				
SER. NO.		HYD. WEIGHT ON BIT	<b>900</b>	LIBS.	DEPTH OF SUR.		DEVIATION				
DEPTH OUT		AIR MUD PRESSURE	<b>440</b>		DEPTH OF SUR.		DEVIATION				
DEPTH IN		ACTUAL WEIGHT ON BIT	<b>25,170</b>	LIBS.	DEPTH OF SUR.		DEVIATION				
TOTAL FTG.		Remarks:									
TOTAL HRS.											
<b>1 1/2</b> Hrs. Booster <b>2</b> Hrs. Hauling Water <b>2</b> Hrs. Backhoe ___ Hrs. 6" Pump (or 2)				___ Hrs. Extra Comp. ___ Hrs. Cal ___ Hrs. Mud Pump <b>12</b> Hrs. Mud Tank				Sampling Performed by Lang Yes ___ No ___			
				Driller's Signature: <b>Bill Kossi</b> Hrs. <b>13</b> Helper's Signature: <b>QUENTIN HURTADO</b> Hrs. <b>12 3/4</b> Helper's Signature: <b>EUBBY SHAW</b> Hrs. <b>17 3/4</b>				*** JUSTIFY HOURS (If Applies) *** <b>1/4</b> Getting Fuel Chasing for Parts <b>1/2</b> Drive Time (after the 1st one hour)			
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes ___ No ___ ? ___											

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LANG EXPLORATORY DAILY DRILLING REPORT      RIG # LK-32      DATE: 10/9/05

Daily Start time: 12:00      Midnight A.M. Noon P.M.      Daily Start time: 12:00      Midnight A.M. Noon P.M.      PROJECT: 1451      NAME: LRS

Hole No. Kmw-1      Depth Today 2018      Depth Yesterday 1910'      Total Drilled 108'

FROM	TO	ACTIVITY
11:45	12:00	Site Safety & equipment inspection
12:00	12:30	Drill 1910 - 1920'
12:30	12:45	check o.i.s & gears equipment
12:45	11:15	Drill 1920' - <del>2018</del> 2018' From Table
11:15	11:30	Circulate Hole
11:30	12:00	Trip out

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
25	50#	Quick Gel	X						
5	50#	Soft Ash	X						
1	50#	Dispac	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>3</u>	<u>1/2</u>	BIT/85	FT. <u>3.31</u>	WEIGHT	<u>8.9</u>	<u>8.9</u>	<u>8.9</u>	SURFACE PIPE IN HOLE
SIZE	<u>12/4</u>	<u>4</u>	S.T.L. O.D.	FT. <u>19.93</u>	VISC-SEC.	<u>53</u>	<u>54</u>	<u>55</u>	<u>40</u> F.T. <u>20</u> IN.
MFG.	<u>Lang</u>	<u>3</u>	D.C. R.R. O.D.	FT. <u>6.64</u>	WL-CCS	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	DEPTH OF CEMENT GROUT
TYPE	<u>Tk Carbide</u>	<u>6</u>	D.C. O.D. FT.	<u>20.00</u>	PH	<u>9</u>	<u>10</u>	<u>10</u>	<u>37</u> F.T. <u>RL</u>
SER. NO.	<u>F362K</u>	<u>5</u>	D.C. R.R. O.D. FT.	<u>6.65</u>	SOLIDS%	<u>44</u>	<u>44</u>	<u>44</u>	WELL SCREEN IN HOLE
DEPTH OUT		<u>7</u>	D.C. R.R. O.D. FT.	<u>6.65</u>	TEMP.				
DEPTH IN	<u>1630'</u>	<u>8/5</u>	D.C. R.R. O.D. FT.	<u>152.51</u>	Time	<u>2:30</u>	<u>7:00</u>	<u>10:00</u>	
TOTAL FTG.			D.C. R.R.						
TOTAL HRS.	<u>39</u>	<u>16</u>	T/S	<u>2.44</u>					
			TOTAL	<u>218.18</u>					

		WT. OF STRAND	LBS.	SURVEY INFORMATION			
SIZE		WT. OF STRAND LESS RODS	<u>34,837</u> LBS.	DEPTH OF SUR.		DEPTH OF TRIM PIPE	
MFG.		RPM		DEPTH OF SUR.		DEPTH OF SUR.	
TYPE		HYD. WEIGHT ON BIT		DEPTH OF SUR.		DEPTH OF SUR.	
SER. NO.		AIR PRESSURE		DEPTH OF SUR.		DEPTH OF SUR.	
DEPTH OUT		ACTUAL WEIGHT ON BIT		DEPTH OF SUR.		DEPTH OF SUR.	
DEPTH IN		Remarks:	<u>S' From Table to ground</u>				
TOTAL FTG.							
TOTAL HRS.							

<u>1 1/4</u> Hrs. Booster <u>1</u> Hrs. Hauling Water <u>2</u> Hrs. Backhoe ___ Hrs. 6" Pump (of 2)	___ Hrs. Extra Comp. ___ Hrs. Cal ___ Hrs. Mud Pump <u>1 1/4</u> Hrs. Mud Tank	Sampling Performed by Lang Yes ___ No ___	Driver's Signature: <u>Dale Jensen</u> Helper's Signature: <u>Ken Wilson</u> Helper's Signature: <u>Dave L. Smith</u>
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\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 \_\_\_ Getting Fuel  
 \_\_\_ Chasing for Parts  
1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ? \_\_\_







LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK-32 DATE: 10-11-05

Daily Start time: 1200 Midnight  Noon P.M. Daily Start time: 1200 Midnight A.M. Noon  PROJECT: 1451 NAME: URS

Hole No. Kmuk-1 Depth Today \_\_\_\_\_ Depth Yesterday \_\_\_\_\_ Total Drilled \_\_\_\_\_

FROM	TO	ACTIVITY
1145	1215	bit & safeties
1215	830	new casing from 853 to 1920
830	930	lead casing
930	1200	gravel pac from 1920 to

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
5		Synstar 18SRT	/						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT		SURFACE PIPE IN HOLE	20
SIZE			STB.	O.D. F.T.	VISC-SEC.		410	F.T. IN.
MFG.			D.C.	R.R. O.D. F.T.	WL-CCS		DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	PH		37	F.T. IN.
SER. NO.			D.C.	R.R. O.D. F.T.	SOLIDS%		WELL SCREEN IN HOLE	5 1/2
DEPTH OUT			D.C.	R.R. O.D. F.T.	TEMP.		100	F.T. IN.
DEPTH IN			D.C.	R.R. O.D. F.T.			CASING IN HOLE	5 1/2
TOTAL FTG.			D.C.	R.R.			1820	F.T. IN.
TOTAL HRS.			D.C.	R.R.			DEPTH OF GRAVEL	
			TOTAL					F.T. IN.

		WL OF STRING		LBS.		SURVEY INFORMATION			
SIZE		WL OF STRING		LBS.		DEPTH OF SUR.	DEVIATION	DEPTH OF TRIM PIPE	7 1/2
MFG.		WL OF STRING LESS RODS		LBS.		DEPTH OF SUR.	DEVIATION	1800	F.T. IN.
TYPE		RPM				DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING	
SER. NO.		HYD. WEIGHT ON BIT		LBS.		DEPTH OF SUR.	DEVIATION		
DEPTH OUT		AIR PRESSURE				DEPTH OF SUR.	DEVIATION		
DEPTH IN		ACTUAL WEIGHT ON BIT		LBS.		DEPTH OF SUR.	DEVIATION		

TOTAL FTG. \_\_\_\_\_ TOTAL HRS. \_\_\_\_\_ Remarks: \_\_\_\_\_

____ Hrs. Booster	____ Hrs. Extra Comp.	Sampling Performed by Lang Yes _____ No _____	<i>James McP...</i>	Hrs.
____ Hrs. Hauling Water	____ Hrs. Cat		<i>Coni...</i>	Hrs.
____ Hrs. Backhoe	____ Hrs. Mud Pump		<i>...</i>	Hrs.
____ Hrs. 6" Pump (nr 2)	____ Hrs. Mud Tank			

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 \_\_\_\_\_ Getting Fuel  
 \_\_\_\_\_ Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ 7 \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LH-32 DATE: 10/11/05

Daily Start time: 12:00  Midnight A.M.  Noon P.M. Daily Start time: 12:00  Midnight A.M.  Noon P.M. PROJECT: 1451 NAME: URS

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>KMW-1</u>			
FROM	TO	ACTIVITY	
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equipment inspection</u>	
<u>12:00</u>	<u>12:00</u>	<u>Gravel packs 1205 - 1220'</u>	

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>1</u>	<u>5 1/2"</u>	<u>Bull nose</u>	<input checked="" type="checkbox"/>		<u>37</u>	<u>gallons</u>	<u>Clear Diesel</u>	<input checked="" type="checkbox"/>	
<u>101.9</u>	<u>5 1/2"</u>	<u>TLC casing screen</u>	<input checked="" type="checkbox"/>						
<u>1878.1</u>	<u>5 1/2"</u>	<u>TLC Abut casing</u>	<input checked="" type="checkbox"/>						
<u>4</u>	<u>2" x 6"</u>	<u>landing TABS</u>	<input checked="" type="checkbox"/>						
<u>11</u>	<u>300'</u>	<u>SAT 1/2 Gravel</u>	<input checked="" type="checkbox"/>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT		SURFACE PIPE IN HOLE	
SIZE			STR.	O.D. F.T.	VISC-SEC.		<u>40</u>	F.T. IN.
MFG.			D.C.	R.R. O.D. F.T.	WL-GCS			
TYPE			D.C.	O.D. F.T.	PH		DEPTH OF CEMENT GROUT	
SER. NO.			D.C.	R.R. O.D. F.T.	SOLID%		<u>37</u>	F.T. IN.
DEPTH OUT			D.C.	R.R. O.D. F.T.	TEMP.		WELL SCREEN IN HOLE	
DEPTH IN			D.C.	R.R. O.D. F.T.				F.T. IN.
TOTAL FTG.			D.C.	R.R.			CASING IN HOLE	
TOTAL HRS.			D.C.	R.R.				F.T. IN.
							DEPTH OF GRAVEL	
			TOTAL					F.T. IN.

		WT. OF STRING	LBS.	SURVEY INFORMATION			
BIT NO.				DEPTH OF SUR.	DEVIATION	DEPTH OF TRIM PIPE	
SIZE				DEPTH OF SUR.	DEVIATION	<u>100</u>	F.T. IN.
MFG.		WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING	
TYPE				DEPTH OF SUR.	DEVIATION		F.T. IN.
SER. NO.		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
DEPTH OUT		AIR MUD PRESSURE		DEPTH OF SUR.	DEVIATION		
DEPTH IN		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
TOTAL FTG.		Remarks: <u>Hole Feels like it was Bridged off up above, pulling 20' @ a time gravel packing</u>					
TOTAL HRS.							

<input type="checkbox"/> Hrs. Booster <input type="checkbox"/> Hrs. Hauling Water <input checked="" type="checkbox"/> <u>4</u> Hrs. Backhoe <input type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cat <input type="checkbox"/> Hrs. Mud Pump <input type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	Driller's Signature: <u>Dale Jensen</u> Helper's Signature: <u>Tom Wilson</u> Helper's Signature: <u>David Stalhorn</u> Helper's Signature: _____ ***JUSTIFY HOURS (If Applies)*** <input checked="" type="checkbox"/> <u>1/4</u> Getting Fuel <input type="checkbox"/> Chasing for Parts <input checked="" type="checkbox"/> <u>1/2</u> Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <u>LK-32</u>	DATE: <u>10-12</u>					
Daily Start time: <u>1200</u>	Midnight <del>A.M.</del> Noon P.M.	Daily Start time: <u>1200</u>	Midnight A.M. Noon <del>P.M.</del>	PROJECT: <u>1451</u> NAME:						
Hole No. <u>K11W-1</u>	Depth Today	Depth Yesterday	Total Drilled							
FROM	TO	ACTIVITY								
<u>1145</u>	<u>1200</u>	<u>Site prep</u>								
<u>1200</u>	<u>700</u>	<u>gravel pac to 10455</u>								
<u>700</u>	<u>930</u>	<u>hole plug to 881</u>								
<u>930</u>	<u>1015</u>	<u>mix and pump 26 Bag. bit hole</u>								
<u>1015</u>	<u>1130</u>	<u>get ready to mix w/ 1<sup>st</sup> time mixer</u>								
<u>1130</u>	<u>1200</u>	<u>bag 830</u>								
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT	
<u>26</u>	<u>98#</u>	<u>CEMENT</u>								
<u>50</u>	<u>50#</u>	<u>hole plug</u>								
<u>2</u>	<u>50#</u>	<u>catcher</u>								
<u>85</u>	<u>1/2 S.S.</u>	<u>1/2 S.S. gravel</u>								
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION		
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	<u>20</u>	
SIZE			STR.	O.D.	F.T.	VISC.	SEC.	<u>40</u>	F.T. IN.	
MFG.			R.R.	O.D.	F.T.	WL	CC'S			
TYPE			D.C.	O.D.	F.T.	PH		DEPTH OF CEMENT GROUT		
SER. NO.			R.R.	O.D.	F.T.	SOLIDS%		<u>37</u>	F.T. IN.	
DEPTH OUT			D.C.	O.D.	F.T.	TEMP.		WELL SCREEN IN HOLE	<u>5 1/2</u>	
DEPTH IN			R.R.	O.D.	F.T.			<u>101.9</u>	F.T. IN.	
TOTAL FTG.			D.C.					CASING IN HOLE	<u>1818.1</u>	
TOTAL HRS.			R.R.					<u>955</u>	F.T. IN.	
BIT NO.			TOTAL			SURVEY INFORMATION			DEPTH OF TRIM PIPE	
SIZE			WT. OF STRING	LBS.	DEPTH OF SUR.	DEVIATION		<u>820</u>	F.T. IN.	
MFG.			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION		INTERMEDIATE CASING	<u>820</u>	
TYPE			RPM		DEPTH OF SUR.	DEVIATION		F.T. IN.		
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION				
DEPTH OUT			AIR MUD PRESSURE		DEPTH OF SUR.	DEVIATION				
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION				
TOTAL FTG.			Remarks:							
TOTAL HRS.										
___ Hrs. Booster ___ Hrs. Hauling Water ___ Hrs. Backhoe ___ Hrs. 6" Pump (or 2)			___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump ___ Hrs. Mud Tank			Sampling Performed by Lang Yes ___ No ___		Operator's Signature Helper's Signature Inspector's Signature		
***JUSTIFY HOURS (If Applies)*** <input checked="" type="checkbox"/> Getting Fuel <input type="checkbox"/> Chasing for Parts <input checked="" type="checkbox"/> Drive Time (after the 1st one hour)										
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes ___ No ___ ? ___										

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK-32 DATE 10/12/05

Daily Start time: 12:00  Midnight A.M.  Noon P.M. Daily Start time: 12:00  Midnight A.M.  Noon P.M. PROJECT: 1451 NAME: URS

Hole No. Kmw-1 Depth Today \_\_\_\_\_ Depth Yesterday \_\_\_\_\_ Total Drilled \_\_\_\_\_

FROM	TO	ACTIVITY
11:45	12:00	Site SAFETY & Equip inspection
12:00	1:30	check static, try to pump through HQ, HQ plugged up, Trip out HQ
1:30	3:00	Unplug HQ, 40' cemented, Trip Back in to 820'
3:00	5:30	mix & pump cement
5:30	7:00	unload semi & wait for cement to harden
7:00	8:45	Tag cement @ 419', mix & pump cement
8:45	10:00	wait for cement to harden, Tag cement @ 269'
10:00	11:30	Hole plug 269' - 235'
11:30	12:00	<del>unplug HQ</del> set up to mix cement, mix cement

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
8	SD#	calcium	X						
12	Super Sers	Cement	X						
35	SD#	Hole Plug 3/8	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.			BIT	FT.	WEIGHT		SURFACE PIPE IN HOLE	20
SIZE			STR.	O.D. FT.	VISC-SEC.		40	F.T. IN.
MFG.			D.C.	O.D. FT.	WL-CC'S		DEPTH OF CEMENT GROUT	
TYPE			R.R.	O.D. FT.	PH		37	F.T. IN.
SER. NO.			D.C.	O.D. FT.	SOLIDS%		WELL SCREEN IN HOLE	5 1/2
DEPTH OUT			R.R.	O.D. FT.	TEMP.		101.9	F.T. IN.
DEPTH IN			D.C.	O.D. FT.			CASING IN HOLE	5 1/2
TOTAL FTG.			R.R.				128.1	F.T. IN.
TOTAL HRS.			D.C.				DEPTH OF GRAVEL	955'
			R.R.					
BIT NO.			TOTAL		SURVEY INFORMATION		DEPTH OF TRIM PIPE	40
SIZE			WT. OF STRING	LBS.	DEPTH OF SUR.	DEVIATION	230	F.T. IN.
MFG.			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING	
TYPE			RPM		DEPTH OF SUR.	DEVIATION		
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
DEPTH OUT			AIR PRESSURE		DEPTH OF SUR.	DEVIATION		
DEPTH IN			MUD PRESSURE		DEPTH OF SUR.	DEVIATION		
TOTAL FTG.			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
TOTAL HRS.			Remarks:					

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. St. Pump (or 2) Mixers       Hrs. Mud Tank HyO. plant  
 ~~1000000~~

Sampling Performed by Lang: Yes  No

Dale Tenson \_\_\_\_\_ Hrs.  
 Daily Signature: Road Wilson \_\_\_\_\_ Hrs.  
 Helper's Signature: Rachel Stalbur \_\_\_\_\_ Hrs.  
 Helper's Signature: \_\_\_\_\_ Hrs.

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 1 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <u>LK-37</u>		DATE: <u>10-13</u>			
Daily Start time: <u>1200</u>		Midnight A.M. <u>1200</u> Noon P.M.		Daily Start time: <u>1200</u>		Midnight A.M. <u>1200</u> Noon P.M.			
PROJECT: <u>1461</u>				NAME:					
Hole No. <u>KMW-1</u>		Depth Today		Depth Yesterday		Total Drilled			
FROM	TO	ACTIVITY							
<u>1145</u>	<u>1200</u>	<u>site + safety</u>							
<u>1200</u>	<u>930</u>	<u>connect from 235 to surface</u>							
<u>930</u>	<u>1000</u>	<u>cut casing down well on 5/8 inch threads</u>							
<u>1000</u>	<u>1200</u>	<u>run rig to 1200'</u>							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>10</u>	<u>SS.</u>	<u>Cement</u>	<u>11</u>						
<u>10</u>	<u>50'</u>	<u>calcium</u>							
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION		
BIT NO.			BIT	F.T.	WEIGHT		SURFACE PIPE IN HOLE		<u>20</u>
SIZE			STR.	O.D. F.T.	VISC. SEC.		<u>40'</u>	F.T.	IN.
MFG.			D.C.	O.D. F.T.	WL. CCS		DEPTH OF CEMENT GROUT		
TYPE			R.R.	O.D. F.T.	PH		<u>37</u>	F.T.	IN.
SER. NO.			D.C.	O.D. F.T.	SOLIDS%		WELL SCREEN IN HOLE		
DEPTH OUT			R.R.	O.D. F.T.	TEMP.		<u>101.9</u>	F.T.	IN.
DEPTH IN			D.C.	O.D. F.T.			CASING IN HOLE		
TOTAL FTG.			R.R.				<u>1818.9</u>	F.T.	IN.
TOTAL HRS.			D.C.				DEPTH OF GRAVEL		
			R.R.				<u>955'</u>	F.T.	IN.
BIT NO.			TOTAL		SURVEY INFORMATION		DEPTH OF TRIM PIPE		
SIZE					WT. OF STRING	LBS.	<u>0</u>	F.T.	IN.
MFG.					WT. OF STRING LESS HOOS	LBS.	INTERMEDIATE CASING		
TYPE					RPM		<u>0</u>	F.T.	IN.
SER. NO.					HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		
DEPTH OUT					AIR PRESSURE		DEPTH OF SUR.		
DEPTH IN					ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		
TOTAL FTG.					Remarks:				
TOTAL HRS.									
___ Hrs. Booster <u>1</u> Hrs. Hauling Water ___ Hrs. Backhoe ___ Hrs. 6" Pump (or 2)		___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump ___ Hrs. Mud Tank		Sampling Performed by Lang Yes ___ No ___		_____ Hrs. _____ Hrs. _____ Hrs. ***JUSTIFY HOURS (if Applies)*** <u>1/2</u> Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)			
CLIENT REP: _____				Was the hole(s) completed to desired depth? Yes ___ No ___ ?					

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LANG EXPLORATORY DAILY DRILLING REPORT RIG # LM 300 DATE: 10/18/05

Daily Start time: 6:00 Midnight A.M. Noon P.M. Daily Start time: 12:00 Midnight A.M. Noon P.M. PROJECT: 1451 NAME: URS

Hole No.	Depth Today	Depth Yesterday	Total Drilled
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FROM	TO	ACTIVITY
<u>5:45</u>	<u>6:00</u>	<u>Site Safety &amp; Equip inspection</u>
<u>6:00</u>		<u>Trip in Bit &amp; T/S &amp; ROD for a Wiper Run</u>
	<u>8:00</u>	<u>Circulate hole, Trip out</u>
<u>8:00</u>	<u>12:00</u>	<u>Annular casing &amp; land</u>
<u>12:00</u>	<u>12:15</u>	<u>Safety meeting</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>80.3'</u>	<u>34" x 1/2"</u>	<u>Blank casing</u>	X						
<u>8</u>	<u>2"x2"</u>	<u>Ceatering blocks</u>	X						
<u>1</u>	<u>A.B.</u>	<u>Pumping head</u>	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	<u>34</u>
SIZE			STB.	O.D. F.T.	VISC-SEC.			<u>80.3</u> F.T. IN.	
MFG.			D.C.	O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			R.R.	O.D. F.T.	pH			F.T. IN.	
SER. NO.			D.C.	O.D. F.T.	SOLIDS%			WELL SCREEN IN HOLE	
DEPTH OUT			R.R.	O.D. F.T.	TEMP.			F.T. IN.	
DEPTH IN			D.C.	O.D. F.T.				CASING IN HOLE	
TOTAL FTG.			R.R.	O.D. F.T.				F.T. IN.	
TOTAL HRS.			D.C.					DEPTH OF GRAVEL	
			R.R.					F.T. IN.	

		WE. OF STRING		SURVEY INFORMATION			
BIT NO.			LBS.	DEPTH OF SUR.	DEVIATION	DEPTH OF TRIM PIPE	
SIZE		WE. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION	F.T. IN.	
MFG.		RPM		DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING	
TYPE		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION	F.T. IN.	
SER. NO.		AIR MUD PRESSURE		DEPTH OF SUR.	DEVIATION	F.T. IN.	
DEPTH OUT		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
DEPTH IN							
TOTAL FTG.							
TOTAL HRS.							

Remarks:

<input type="checkbox"/> Hrs. Booster <input type="checkbox"/> Hrs. Hauling Water <input checked="" type="checkbox"/> Hrs. Backhoe <input checked="" type="checkbox"/> Hrs. 6" Pump (of 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cat <input type="checkbox"/> Hrs. Mud Pump <input checked="" type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	Drilling Signature: <u>Dale Jensen</u> Hrs. Helber's Signature: <u>Don Wilson</u> Hrs. Helber's Signature: <u>Mike Halstad</u> Hrs.
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT				RIG #	DATE						
Daily Start time: 12:00		Midnight A.M. Noon P.M.	Daily Start time: 12:00		Midnight A.M. Noon P.M.						
PROJECT: #1451				NAME: URS							
Hole No.	Depth Today	Depth Yesterday	Total Drilled								
KPLW-1	∅	80'	∅								
FROM	TO	ACTIVITY									
11:45	12:00	DISCUSS HOLE W/DAVE SITE SAFETY & EQUIP INSPEC									
12:00	12:15	SAFETY MEETING									
12:15	3:00	LEVEL CASING MIX AND PUMP 15 BAG HOT BATCH CEMENT									
3:00	6:30	CEMENT TO SURFACE									
6:30	10:30	WAIT ON CEMENT (HOOK UP FLOW LINE, CLEAN UP, SET UP TO DRILL DOWN B.H.A.)									
10:30	12:00	MEASURE B.H.A. START TRIPPING IN B.H.A.									
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT		
1.5	941B	CEMENT									
5	581B	CALCIUM CHL.									
4	2000#	SUPER SACK CEMENT									
5	501B	SODIUM BICARB.									
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION			
BIT NO.	2		BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE		34	
SIZE	2 1/2"		STR.	O.D. F.T.	VISC-SEC.			80	F.T.	IN.	
MFG.	LANG		D.C. R.A.	O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT			
TYPE	T.C. CARBIDE		D.C. R.A.	O.D. F.T.	PH			77	F.T.	IN.	
SER. NO.	719554R1		D.C. R.A.	O.D. F.T.	SOLIDS%			WELL SCREEN IN HOLE			
DEPTH OUT	'		D.C. R.A.	O.D. F.T.	TEMP.				F.T.	IN.	
DEPTH IN	80'		D.C. R.A.	O.D. F.T.				CASING IN HOLE			
TOTAL FTG.			D.C. R.A.						F.T.	IN.	
TOTAL HRS.			D.C. R.A.					DEPTH OF GRAVEL			
									F.T.	IN.	
BIT NO.			TOTAL					DEPTH OF TRIM PIPE			
SIZE			WT. OF STRING	LBS.	SURVEY INFORMATION						
MFG.			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.		DEVIATION				
TYPE			RPM		DEPTH OF SUR.		DEVIATION				
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION				
DEPTH OUT			AIR MUD PRESSURE		DEPTH OF SUR.		DEVIATION				
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION				
TOTAL FTG.			Remarks:								
TOTAL HRS.											
___ Hrs. Booster ___ Hrs. Hauling Water 1 Hrs. Backhoe 1/2 Hrs. 6" Pump (or 2)			___ Hrs. Extra Comp. ___ Hrs. Cal ___ Hrs. Mud Pump 6 1/2 Hrs. Mud Tank			Sampling Performed by Lang Yes ___ No ___			Bill Rossi Hrs. 12 3/4 Driver's Signature CLEMENTE HURTADO Hrs. 12 3/4 Hopper's Signature JEFF BRAUD Hrs. 12 3/4		
						***JUSTIFY HOURS (If Applies)*** ___ Getting Fuel ___ Chasing for Parts 1/2 Drive Time (after the 1st one hour)					
CLIENT REP: _____			Was the hole(s) completed to desired depth? Yes ___ No ___ ?								

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LANG EXPLORATORY DAILY DRILLING REPORT RIG # Ln-300 DATE: 10/19/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: 145 NAME: URS

Hole No. KPW-1 Depth Today 125' Depth Yesterday 82' Total Drilled 43'

FROM	TO	ACTIVITY
11:45	12:00	Site Safety & Equip inspection
12:00		Trip in 31" Reamer & 26" stab & top sub w/ 60' Rods
	1:45	hit cement @ 80.32' from Table
1:45	3:00	Drill to 85'
3:00	4:30	Tripout Take of 31" Reamer
4:30	6:45	Trip in
6:45	12:00	Drill 85' - 125'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
20	50#	Quick Gel	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>2</u>	<u>1</u>	<u>BIT</u>	<u>P.L.</u>	<u>3.62</u>	WEIGHT			SURFACE PIPE IN HOLE
SIZE	<u>26"</u>	<u>2</u>	<u>ST</u>	<u>O.D.</u>	<u>FT.</u>	<u>20.80</u>	VISC-SEC.		<u>34</u>
MFG.	<u>Lang</u>	<u>2</u>	<u>RE</u>	<u>O.D.</u>	<u>FT.</u>	<u>5.27</u>	WL-CCS		<u>50</u>
TYPE	<u>T.C. Carbide</u>	<u>5</u>	<u>RE</u>	<u>O.D.</u>	<u>FT.</u>	<u>9.17</u>	PH		DEPTH OF CEMENT GROUT
SER. NO.	<u>719554R1</u>	<u>4</u>	<u>RE</u>	<u>O.D.</u>	<u>FT.</u>	<u>5.26</u>	SOLIDS%		<u>34</u>
DEPTH OUT		<u>6</u>	<u>RE</u>	<u>O.D.</u>	<u>FT.</u>	<u>5.27</u>	TEMP.		<u>77</u>
DEPTH IN	<u>80'</u>	<u>7</u>	<u>RE</u>	<u>O.D.</u>	<u>FT.</u>	<u>76.96</u>			WELL SCREEN IN HOLE
TOTAL FTG.		<u>11</u>	<u>R.R.</u>	<u>FTS</u>	<u>7.04</u>				<u>FT.</u>
TOTAL HRS.	<u>5</u>	<u>12</u>	<u>R.R.</u>	<u>FTS</u>	<u>1.83</u>				IN.
		<u>13</u>	<u>R.R.</u>	<u>FTS</u>	<u>20.00</u>				CASING IN HOLE
		<u>14</u>	<u>R.R.</u>	<u>FTS</u>	<u>1.45</u>				<u>FT.</u>
BIT NO.	<u>S/S</u>		TOTAL		<u>156.67'</u>				IN.
SIZE	<u>B/T</u>		WT. OF STRING		LBS.	SURVEY INFORMATION			
MFG.	<u>Lang</u>		WT. OF STRING LESS RODS		LBS.	DEPTH OF SUR.	DEVIATION		DEPTH OF TRIM PIPE
TYPE			RPM			DEPTH OF SUR.	DEVIATION		<u>FT.</u>
SER. NO.	<u>287773 RR12345</u>		HYD. WEIGHT ON BIT		LBS.	DEPTH OF SUR.	DEVIATION		IN.
DEPTH OUT			AIR PRESSURE			DEPTH OF SUR.	DEVIATION		INTERMEDIATE CASING
DEPTH IN			ACTUAL WEIGHT ON BIT		LBS.	DEPTH OF SUR.	DEVIATION		<u>FT.</u>
TOTAL FTG.			Remarks:						IN.
TOTAL HRS.									

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 3 Hrs. Backhoe       Hrs. Mud Pump  
 7 Hrs. 6" Pump (of 2)       7 Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Driver's Signature: Dale Jensen  
 Helper's Signature: Ron Wilson  
 Helper's Signature: Mike Halsted

\*\*\*JUSTIFY HOURS (if Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?



LANG EXPLORATORY DAILY DRILLING REPORT      FIG # LM 300      DATE: 10/19/05

Daily Start time: 12:00      Midnight A.M. / Noon P.M.      Daily Start time: 12:00      Midnight A.M. / Noon P.M.      PROJECT: #1451      NAME: URS

Hole No. KPW-1      Depth Today 190'      Depth Yesterday 125'      Total Drilled 65'

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>DISCUSS HOLE W/DAVE J. SITE SAFETY &amp; EQUIP INSPEC.</u>
<u>12:00</u>	<u>4:30</u>	<u>FINISH DRILLING DOWN B.H.A.</u>
<u>4:30</u>	<u>8:00</u>	<u>DRILLED 150'-190'</u>
<u>8:00</u>	<u>8:30</u>	<u>SWITCHED OVER TO DRILL FLOODED REV. (STOPPED TO START TRIPPING)</u>
<u>8:30</u>	<u>12:00</u>	<u>TRIPPED BACK TO ADD ROLLER REAMER TO B.H.A.</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>6</u>	<u>5018</u>	<u>QUIK GEL</u>	<u>X</u>						
<u>1</u>	<u>5018</u>	<u>DRISPEC-R</u>	<u>X</u>						
<u>76</u>	<u>9A1</u>	<u>CLEAR DIESEL</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.	<u>2</u>	<u>1</u>	BT	FT.	<u>3.62</u>	WEIGHT		SURFACE PIPE IN HOLE
SIZE	<u>2 1/2"</u>	<u>3</u>	STB.	O.D.	FT.	<u>20.80</u>	VISC. SEC.	<u>34</u>
MFG.	<u>LANG</u>	<u>2</u>	S.C.	R.A.	O.D.	FT.	<u>5.27</u>	<u>80</u> F.T. IN.
TYPE	<u>T.C. CARBIDE</u>	<u>5</u>	S.C.	O.D.	FT.	<u>9.17</u>	PH	DEPTH OF CEMENT GROUT
SER. NO.	<u>79554R1</u>	<u>4</u>	S.C.	R.A.	O.D.	FT.	<u>5.26</u>	<u>77</u> F.T. IN.
DEPTH OUT		<u>6</u>	S.C.	R.A.	O.D.	FT.	<u>5.27</u>	WELL SCREEN IN HOLE
DEPTH IN	<u>80'</u>	<u>10</u>	S.C.	R.A.	O.D.	FT.	<u>76.96</u>	
TOTAL FTG.	<u>110'</u>	<u>11</u>	S.C.	R.A.	FT.	<u>7.04</u>		
TOTAL HRS.	<u>8:28</u>	<u>12</u>	S.C.	R.A.	FT.	<u>1.83</u>		CASING IN HOLE
		<u>13</u>	S.C.	R.A.	FT.	<u>20.00</u>		
		<u>14</u>	S.C.	R.A.	FT.	<u>1.45</u>		DEPTH OF GRAVEL
			TOTAL			<u>156.67</u>		
APP. NO.	<u>51166 SUB</u>		WT. OF STRING		LBS.	SURVEY INFORMATION		
SIZE	<u>BIT</u>		WT. OF STRING LESS RODS		<u>20610</u> LBS.	DEPTH OF SUR.	DEVIATION	DEPTH OF TRIM PIPE
MFG.	<u>LANG</u>		RPM			DEPTH OF SUR.	DEVIATION	
TYPE			HYD. WEIGHT ON BIT	LBS.		DEPTH OF SUR.	DEVIATION	F.T. IN.
SER. NO.	<u>287973RR12345</u>		AIR MUD PRESSURE			DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING
DEPTH OUT			ACTUAL WEIGHT ON BIT	LBS.		DEPTH OF SUR.	DEVIATION	F.T. IN.
DEPTH IN			Remarks: <u>120' OF INTERTUBE 16' FROM BIT</u>					
TOTAL FTG.								
TOTAL HRS.	<u>4</u>							

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Bill Rossi      Hrs 13 1/4  
 Director's Signature  
 GABRIEL HURTADO      Hrs 12 3/4  
 Helper's Signature  
 JEFF BRAUD      Hrs 2 1/4

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # 1m-300 DATE: 10/20/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: 1451 NAME: URS

Hole No. KPW-1 Depth Today 275' Depth Yesterday 190' Total Drilled 85'

FROM	TO	ACTIVITY
11:45	12:00	Site Safety & Equip Inspection
12:00	1:30	Trip in
1:30	2:15	Drill 190' - 200'
2:15	3:00	Switch over to Flooded PVC, Air 20' up clean up hole
3:00	5:15	Drill 200' - 220', losing mud @ 207'
5:15	6:15	Trip out to Top Sub, change shaker screens, mix mud, check static @ 76'
6:15	8:15	Trip Back to Bottom, Drill 220' - 240'
8:15	8:30	Success @ 200'
8:30	12:00	Drill 240' - 275'
12:00	12:15	Clean up mud Bags & Discuss hole w/Bill

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
143	50#	Quick Gel	X						
1	50#	Solids Ash	X						
0	50#	Pvc R	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.	<u>2</u>	<u>1</u>	<u>OD</u>	<u>FE</u>	<u>3.62</u>	WEIGHT	<u>90</u>	SURFACE PIPE IN HOLE
SIZE	<u>2 1/2"</u>	<u>2</u>	<u>STB</u>	<u>OD</u>	<u>FE</u>	<u>20.80</u>	VISC-SEC.	<u>63</u>
MFG.	<u>Lang</u>	<u>2</u>	<u>RRD</u>	<u>OD</u>	<u>FE</u>	<u>5.27</u>	ML-CC'S	<u>104</u>
TYPE	<u>TK Carbide</u>	<u>5</u>	<u>DC</u>	<u>OD</u>	<u>FE</u>	<u>9.17</u>	PH	<u>9</u>
SER. NO.	<u>719554R1</u>	<u>4</u>	<u>DC</u>	<u>OD</u>	<u>FE</u>	<u>5.26</u>	SOLIDS%	<u>1/2</u>
DEPTH OUT		<u>6</u>	<u>DC</u>	<u>OD</u>	<u>FE</u>	<u>5.27</u>	TEMP.	
DEPTH IN	<u>80'</u>	<u>7</u>	<u>RRD</u>	<u>OD</u>	<u>FE</u>	<u>76.96</u>	Time	<u>8:00</u>
TOTAL FTG.		<u>9</u>	<u>DC</u>	<u>OD</u>	<u>FE</u>	<u>3.75</u>		
TOTAL HRS.		<u>14</u>	<u>RRD</u>	<u>OD</u>	<u>FE</u>	<u>20.00</u>		
		<u>15</u>	<u>RRD</u>	<u>OD</u>	<u>FE</u>	<u>1.45</u>		
			<u>TOTAL</u>			<u>160.42</u>		

BIT RECORD		SURVEY INFORMATION	
BIT NO.	<u>5/5</u>	WT. OF STRING	<u>81,355 LBS.</u>
SIZE	<u>4 1/2"</u>	WT. OF STRING LESS RODS	<u>74,400 LBS.</u>
MFG.	<u>Lang</u>	DEPTH OF SUR.	<u>200</u>
TYPE		DEPTH OF BLR.	
SER. NO.	<u>227773A12345</u>	DEPTH OF SUL.	
DEPTH OUT		DEPTH OF SOL.	
DEPTH IN		DEPTH OF SUP.	
TOTAL FTG.			
TOTAL HRS.			

Remarks:

___ Hrs. Booster <u>3</u> Hrs. Hauling Water <u>3</u> Hrs. Backhoe <u>1</u> Hrs. 6" Pump (for 2)	___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump <u>8.5</u> Hrs. Mud Tank	Sampling Performed by Lang Yes ___ No ___	<u>Tale Jensen</u> Hrs. Director's Signature <u>Don Wilson</u> Hrs. Helper's Signature <u>Mike Halstad</u> Hrs. Helper's Signature ***JUSTIFY HOURS (if Applies)*** ___ Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ?

LANG EXPLORATORY DAILY DRILLING REPORT RIG # **LM 300** DATE: **10/20/05**

Daily Start time: **12:00** (Midnight A.M. / Noon P.M.) PROJECT: # **1451** NAME: **URS**

Hole No. **KPW-1** Depth Today **370'** Depth Yesterday **275'** Total Drilled **95'**

FROM	TO	ACTIVITY
11:45	12:00	Discuss Hole w/DALE SITE SAFETY & EQUIP INSPEC
12:00	8:45	DRILLED 275'-340'
8:45	9:15	SURVEY @ 300'
9:15	12:00	DRILLED 340'-370'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
72	50/B	QUICKGEL	X						
2	50/B	DRISPAK-R	X						
1	50/B	SODA ASH	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION			
BIT NO.	2	1	BIT	P.T.	3.62	WEIGHT	8.8	9.1	SURFACE PIPE IN HOLE <b>80</b> F.T. IN. <b>34</b>	
SIZE	2 1/2"	2	DR	O.D.	5.27	VISC-SEC.	48	56		
MFG.	LANCO	4	DR	O.D.	5.26	WL-GCS	11.4	8.4	DEPTH OF CEMENT GROUT <b>77</b> F.T. IN.	
TYPE	T.C. CARBIDE	5	DR	O.D.	9.17	IN	9	8		
SER. NO.	71955481	6	DR	O.D.	5.27	SOLIDS%	1/4%	1/4%	WELL SCREEN IN HOLE	
DEPTH OUT		7	DR	O.D.	39.92	TEMP.				
DEPTH IN	80'	9	DR	O.D.	3.75	WIC	1/32	1/32	F.T. IN.	
TOTAL FTG.	290	10	DR	O.D.	37.04				CASING IN HOLE	
TOTAL HRS.	25	13	DR	O.D.	1.83					
		14	DR	O.D.	20.00				F.T. IN.	
		15	DR	O.D.	1.45				DEPTH OF GRAVEL	
BIT NO.	SILVER SUB	TOTAL			160.42	TIME	5:30	10:00		
SIZE	3/4"		WT. OF STRING	122,800	LBS.	SURVEY INFORMATION			F.T. IN.	
MFG.	LANCO		WT. OF STRING LESS RODS	74,400	LBS.	DEPTH OF SUR.	300	DEVIATION	1/2"	DEPTH OF TRIM PIPE
TYPE			RPM	50-70		DEPTH OF SUR.		DEVIATION		
SER. NO.	287773R12345		HYD. WEIGHT ON BIT	850	LBS.	DEPTH OF SUR.		DEVIATION		F.T. IN.
DEPTH OUT			AIR MUD PRESSURE	120		DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING
DEPTH IN			ACTUAL WEIGHT ON BIT	52,190	LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL FTG.			Remarks:							F.T. IN.
TOTAL HRS.	25									

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Bill Rossi Hrs 12/34  
 Quentin Hurtado Hrs 12/34  
 Jeff Brand Hrs 12/34

\*\*\*JUSTIFY HOURS (if Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT . RIG # LM-300 DATE: 10/21/05

Daily Start time: 12:00 Midnight A.M. Daily Start time: 12:00 Noon P.M. PROJECT: 1451 NAME: URS

Hole No. KPW-1 Depth Today 480' Depth Yesterday 370' Total Drilled 110'

FROM	TO	ACTIVITY
11:45	12:00	Site Safety & Equip inspection
12:00	1:00	Drill 370 - 380
1:00	1:15	check air & grease pump
1:15	2:00	Drill 380 - 440'
2:00	2:15	Survey @ 400'
2:15	12:00	Drill 440' - 480'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
45	50#	Back Grd	X						
2	50#	Soda Ash	X						
2	50#	Asst Dispac	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD			WELL CONSTRUCTION	
BIT NO.	2	1	3.62	WEIGHT	9.3	9.7	9.6	SURFACE PIPE IN HOLE
SIZE	26"	3	20.80	VISC. SEC.	54	60	60	34
MFG.	Lang	2	5.27	ML-CC'S	6	11.6	12.8	80 F.T. IN.
TYPE	T/C Carbide	5	9.17	PH	10	10	9	DEPTH OF CEMENT GROUT
SER. NO.	719554R1	4	5.26	SOLENS	1/2	1/2	1/2	77 F.T. IN.
DEPTH OUT		6	5.27	TEMP.				WELL SCREEN IN HOLE
DEPTH IN	80'	7	76.96	Time	2:00	6:00	10:00	F.T. IN.
TOTAL FTG.		9	3.75					CASING IN HOLE
TOTAL HRS.		13	8.87					F.T. IN.
		14	20.00					DEPTH OF GRAVEL
		15	1.45					F.T. IN.
BIT NO.	S/S	TOTAL	160.42					DEPTH OF TRIM PIPE

		SURVEY INFORMATION	
SIZE	B/T	DEPTH OF SUR.	400
MFG.	Lang	DEPTH OF SUR.	DEVIATION 1/4"
TYPE		DEPTH OF SUR.	DEVIATION -
SER. NO.	227773A1-5	DEPTH OF SUR.	DEVIATION -
DEPTH OUT		DEPTH OF SUR.	DEVIATION -
DEPTH IN		DEPTH OF SUR.	DEVIATION -

TOTAL FTG. Remarks: Over Freeding Hole To get weight down

TOTAL HRS. 1/2 for mike's interview

<input type="checkbox"/> Hrs. Booster <input checked="" type="checkbox"/> Hrs. Hauling Water <input checked="" type="checkbox"/> Hrs. Backhoe <input checked="" type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cal <input type="checkbox"/> Hrs. Mud Pump <input checked="" type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	Driller's Signature: <u>Dale Jensen</u> Helper's Signature: <u>Mike Wilson</u> Helper's Signature: <u>M. He Halstad</u>
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LM-300 DATE: 10/21/05

Daily Start time: 12:00  Midnight A.M.  Noon P.M. Daily Start time: 12:00  Midnight A.M.  Noon P.M. PROJECT # 1451 NAME: URS

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>KPLW-1</u>	<u>585'</u>	<u>480'</u>	<u>105'</u>

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Discover Hole W/DNE J. SITE SAFETY &amp; EQUIP INSPEC.</u>
<u>12:00</u>	<u>5:00</u>	<u>DRILLED 480'-540'</u>
<u>5:00</u>	<u>5:30</u>	<u>SURVEY @ 500'</u>
<u>5:30</u>	<u>12:00</u>	<u>DRILLED 540'-585'</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>21</u>	<u>501B</u>	<u>QUIK COE 1</u>	<u>X</u>						
<u>1</u>	<u>501B</u>	<u>SOPA ASH</u>	<u>X</u>						
<u>2</u>	<u>501B</u>	<u>DRISPAK-3</u>	<u>X</u>						
<u>10</u>	<u>9A1</u>	<u>UNLEADED GASOLINE</u>	<u>X</u>						
<u>68</u>	<u>9A1</u>	<u>CLEAR DIESEL</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>2</u>	<u>1</u>	BIT P.E. <u>362</u>	WEIGHT	<u>9.8</u>	<u>9.7</u>	<u>9.8</u>	SURFACE PIPE IN HOLE <u>80</u> F.T. IN.
SIZE	<u>2 1/2"</u>	<u>2</u>	STL. O.D. P.E. <u>527/20.80</u>	VISC. SEC.	<u>1546</u>	<u>1950</u>	<u>1755</u>	
MFG.	<u>LANG</u>	<u>4</u>	R.R. O.D. P.E. <u>526</u>	WL. CCS	<u>12.4</u>	<u>9.2</u>	<u>11.6</u>	DEPTH OF CEMENT GROUT <u>77</u> F.T. IN.
TYPE	<u>T.C. CARBIDE</u>	<u>5</u>	O.C. O.D. P.E. <u>9.17</u>	PH	<u>9</u>	<u>8</u>	<u>9</u>	
SER. NO.	<u>719554R1</u>	<u>6</u>	D.C. O.D. P.E. <u>5.27</u>	SOLIDS	<u>34%</u>	<u>1%</u>	<u>34%</u>	WELL SCREEN IN HOLE
DEPTH OUT		<u>7</u>	R.R. O.D. P.E. <u>39.97</u>	TEMP.				
DEPTH IN	<u>80'</u>	<u>9</u>	D.C. R.R. O.D. P.E. <u>3.75</u>	W/L	<u>1/32</u>	<u>1/32</u>	<u>1/32</u>	
TOTAL FTG.	<u>505'</u>	<u>10</u>	R.R. P.E. <u>37.04</u>					CASING IN HOLE
TOTAL HRS.	<u>4.5</u>	<u>11</u>	D.C. R.R. P.E. <u>7.04/1.83</u>					
		<u>12</u>	R.R. P.E. <u>20.00</u>					DEPTH OF GRAVEL
		<u>13</u>	R.R. P.E. <u>1.45</u>					
BIT NO.	<u>SILVER SUB</u>	<u>14</u>	TOTAL <u>160.42</u>	Time	<u>3:00</u>	<u>4:00</u>	<u>9:00</u>	
SIZE	<u>BIT</u>	<u>15</u>	WT. OF STRING <u>87.495</u> LBS.	SURVEY INFORMATION				DEPTH OF TRIM PIPE
MFG.	<u>LANG</u>		WT. OF STRING LESS RODS <u>74.410</u> LBS.	DEPTH OF SUR.	<u>500'</u>	DEVIATION	<u>1/2"</u>	
TYPE			RPM <u>60-75</u>	DEPTH OF SUR.		DEVIATION		
SER. NO.	<u>287773R12345</u>		HYD. WEIGHT ON BIT <u>800</u> LBS.	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING
DEPTH OUT			AIR PRESSURE <u>180</u>	DEPTH OF SUR.		DEVIATION		
DEPTH IN			ACTUAL WEIGHT ON BIT <u>49.120</u> LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL FTG.			Remarks:					
TOTAL HRS.	<u>4.5</u>							

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Driller's Signature: Billy Rossi Hrs 13 1/4  
 Factory Signature: QUENTIN HURTADO Hrs 12 3/4  
 Helper's Signature: JEFF BRAUD Hrs 12 3/4

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?

LANG EXPLORATORY DAILY DRILLING REPORT - RIG # LM-500 DATE: 5/22/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: 1451 NAME: UAS

Hole No. KPW-1 Depth Today 665' Depth Yesterday 585' Total Drilled 80'

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equip inspection</u>
<u>12:00</u>	<u>1:45</u>	<u>Drill 585' - 600'</u>
<u>1:45</u>	<u>2:00</u>	<u>check oils &amp; grease equip</u>
<u>2:00</u>	<u>12:00</u>	<u>Drill 600' - 665'</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>47</u>	<u>50#</u>	<u>Quicks Gel</u>	<u>X</u>						
<u>2</u>	<u>50#</u>	<u>Brigpac</u>	<u>X</u>						
<u>1</u>	<u>50#</u>	<u>Salt Acha</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION				
BIT NO.	<u>2</u>	<u>1</u>	<u>BT</u>	<u>F.T.</u>	<u>3.62</u>	WEIGHT	<u>9.7</u>	<u>9.7</u>	<u>9.6</u>	SURFACE PIPE IN HOLE	<u>34</u>	
SIZE	<u>26"</u>	<u>3</u>	<u>STB</u>	<u>O.D.</u>	<u>F.T.</u>	<u>20.80</u>	VISC-SEC.	<u>53</u>	<u>54</u>			<u>54</u>
MFG.	<u>Lang</u>	<u>2</u>	<u>TKL</u>	<u>O.D.</u>	<u>F.T.</u>	<u>5.27</u>	WL-CGS				DEPTH OF CEMENT GROUT	<u>34</u>
TYPE	<u>1/6 Carbide</u>	<u>5</u>	<u>STB</u>	<u>O.D.</u>	<u>F.T.</u>	<u>9.17</u>	PH	<u>9</u>	<u>9</u>	<u>9</u>		
SER. NO.	<u>719554A1</u>	<u>4</u>	<u>DC</u>	<u>O.D.</u>	<u>F.T.</u>	<u>5.26</u>	SOLIDS%	<u>1/2</u>	<u>1/4</u>	<u>1/4</u>	WELL SCREEN IN HOLE	<u>F.T.</u>
DEPTH OUT		<u>6</u>	<u>STB</u>	<u>O.D.</u>	<u>F.T.</u>	<u>5.27</u>	TEMP.					
DEPTH IN	<u>30'</u>	<u>7</u>	<u>STB</u>	<u>O.D.</u>	<u>F.T.</u>	<u>76.96</u>	Time	<u>2:00</u>	<u>6:00</u>	<u>0:00</u>	DEPTH OF GRAVEL	<u>F.T.</u>
TOTAL FTG.		<u>9</u>	<u>STB</u>			<u>3.75</u>						
TOTAL HRS.	<u>5.6</u>	<u>12</u>	<u>DC</u>	<u>O.D.</u>	<u>F.T.</u>	<u>8.87</u>					INTERMEDIATE CASING	<u>F.T.</u>
		<u>14</u>	<u>TKL</u>	<u>O.D.</u>	<u>F.T.</u>	<u>20.00</u>						
		<u>15</u>	<u>9x7</u>			<u>1.45</u>						

SURVEY INFORMATION		WELL CONSTRUCTION	
BIT NO.	<u>S/S</u>	DEPTH OF SURF.	<u>600'</u>
SIZE	<u>B/T</u>	DEVIATION	<u>3/4"</u>
MFG.	<u>Lang</u>	DEPTH OF SURF.	
TYPE		DEVIATION	
SER. NO.	<u>28773A1-5</u>	DEPTH OF SURF.	
DEPTH OUT		DEVIATION	
DEPTH IN		DEPTH OF SURF.	
TOTAL FTG.		DEVIATION	
TOTAL HRS.		DEPTH OF SURF.	

Remarks:

Hrs. Booster \_\_\_\_\_ Hrs. Extra Comp. \_\_\_\_\_

0.5 Hrs. Hoisting Water \_\_\_\_\_ Hrs. Cat \_\_\_\_\_

3 Hrs. Backhoe \_\_\_\_\_ Hrs. Mud Pump \_\_\_\_\_

\_\_\_\_\_ Hrs. 6" Pump (or 2) 1 1/2 Hrs. Mud Tank \_\_\_\_\_

Sampling Performed by Lang Yes \_\_\_\_\_ No \_\_\_\_\_

Driver's Signature: Dale Jensen Hrs. \_\_\_\_\_

Helper's Signature: Don Wilson Hrs. \_\_\_\_\_

Helper's Signature: M. Mc Halstad Hrs. \_\_\_\_\_

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*

\_\_\_\_\_ Getting Fuel

1/2 Chasing for Parts

1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LM-300 DATE: 10/22/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: #1451 NAME: URS

Hole No. KPW-1 Depth Today 750' Depth Yesterday 665' Total Drilled 85'

FROM	TO	ACTIVITY
11:45	12:00	Discuss Hole w/DAK J. SITE SAFETY & Equip Inspect
12:00	9:30	Drilled 665' - 740'
9:30	9:45	SURVEY @ 700'
9:45	12:00	Drilled 740-750'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
43	501B	Quick Gel	X						
2	501B	SODA ASH	X						
113	501B	DRISPAR-R	X						
90	9AL	CLEAR Diesel	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	2	1	BIT	P.T. 3.62	WEIGHT	9.5	9.5	9.5	SURFACE PIPE IN HOLE 80 F.T. IN.
SIZE	2 1/2"	2/3	STR. O.D.	P.T. 5.27/20.80	VISC. REC.	48	50	54	
MFG.	LANK	4	D.C. R.R.	O.D. P.T. 5.26	WL. CCS	7.6	8.4		DEPTH OF CEMENT GROUT
TYPE	T.C. CARBIDE	5	D.C. O.D.	P.T. 9.17	M	8	9	9	77 F.T. IN.
SER. NO.	719554R1	6	D.C. R.R.	O.D. P.T. 5.27	SOLIDS%	1/2%	1/4%	1/4%	WELL SCREEN IN HOLE
DEPTH OUT		7/6	D.C. R.R.	O.D. P.T. 39.92	TEMP.				
DEPTH IN	80'	9	D.C. R.R.	O.D. P.T. 3.75	W/C	1/32	1/32	1/32	F.T. IN.
TOTAL FTG.		10/11	D.C. R.R.						CASING IN HOLE
TOTAL HRS.	10.6	12/12	D.C. R.R.	7.04 / 1.83					
		14		20.00					F.T. IN.
		15		1.45					DEPTH OF GRAVEL
BIT NO.	Stack Sub	TOTAL		160.42	Time	3:00	6:00	10:00	
SIZE	B/T		WT. OF STRING	92,100 LBS.	SURVEY INFORMATION				DEPTH OF TRIM PIPE
MFG.	LANK		WT. OF STRING LESS ROD	84,410 LBS.	DEPTH OF SUR.	700	DEVIATION	1	
TYPE			RPM	60-80	DEPTH OF SUR.		DEVIATION		F.T. IN.
SER. NO.	287775 R12345		HYD. WEIGHT ON BIT	500 LBS.	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING
DEPTH OUT			AIR MUD PRESSURE	270	DEPTH OF SUR.		DEVIATION		
DEPTH IN			ACTUAL WEIGHT ON BIT	30700 LBS.	DEPTH OF SUR.		DEVIATION		F.T. IN.
TOTAL FTG.			Remarks:						
TOTAL HRS.	10.6								

<input type="checkbox"/> Hrs. Booster <input type="checkbox"/> Hrs. Hauling Water <input checked="" type="checkbox"/> 1/2 Hrs. Backhoe <input type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cat <input type="checkbox"/> Hrs. Mud Pump <input checked="" type="checkbox"/> 12 Hrs. Mud Tank	Sampling Performed by Lang Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Billy Rossi Hrs. 13 1/4 Date's Signature [Signature] Hrs. 12 3/4 [Signature] Hrs. 12 3/4 [Signature]
***JUSTIFY HOURS (If Applies)*** <input checked="" type="checkbox"/> Getting Fuel <input type="checkbox"/> Chasing for Parts <input checked="" type="checkbox"/> Drive Time (after the 1st one hour)			

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_





LANG EXPLORATORY DAILY DRILLING REPORT . FIG # **LM 300** DATE: **10/23/05**

Daily Start time: **12:00** Midnight A.M. Noon P.M. Daily Start time: **12:00** Midnight A.M. Noon P.M. PROJECT: # **1451** NAME: **URS**

Hole No. **KPW-1** Depth Today **860'** Depth Yesterday **825'** Total Drilled **35'**

FROM	TO	ACTIVITY
11:45	12:00	DISCUSS HOLE W/DNE J. SITE SAFETY & EQUIP INSPEL.
12:00	2:00	DRILLED 825'-840'
2:00	2:30	SCALEY @ 800'
2:30	6:45	DRILLED 840'-860'
6:45	8:00	TRIP OUT 7" RODS
8:00	9:00	TRIPPED OUT INTERTRBC
9:00	12:00	START TRIPPING B.H.A.

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
14	50LB	CRACK GEL	X						
1	50LB	SODA ASH	X						
1	50LB	DEISPN-R	X						

BIT RECORD		No.		DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.	2	1	BIT	KT	3.62	WEIGHT	9.7	SURFACE PIPE IN HOLE	34
SIZE	2 1/2"	2/3	STB. O.D.	KT	5.27/20.80	VISC-SEC.		80	F.T. IN.
MFG.	LANG	4	R.R. O.D.	KT	5.26	WL-CCT'S		DEPTH OF CEMENT GROUT	
TYPE	T.C. CARBIDE	5	R.R. O.D.	KT	9.17	PH	9	77	F.T. IN.
SER. NO.	71959R1	6	R.R. O.D.	KT	5.27	SOLIDITY	1/4%	WELL SCREEN IN HOLE	
DEPTH OUT	860'	7/6	R.R. O.D.	KT	39.92	TEMP.			
DEPTH IN	80'	9	R.R. O.D.	KT	3.75				
TOTAL FTG.	780'	9/11	R.R. O.D.	KT	37.04			CASING IN HOLE	
TOTAL HRS.	82:45	10/15	R.R. O.D.	KT	704 11.83				
		14			20.00			DEPTH OF GRAVEL	
		15			1.45				
SPP No.	Stock Sub	TOTAL			160.42	Time	6:10		
SIZE	BIT	WT. OF STRING	93.635	LBS.		SURVEY INFORMATION			
MFG.	LANG	WT. OF STRING LESS RODS	24.410	LBS.		DEPTH OF SURF.	800	DEVIATION	1
TYPE		RPM	50-70			DEPTH OF SURF.		DEVIATION	
SER. NO.	287773R12345	HYD. WEIGHT ON BIT	400	LBS.		DEPTH OF SURF.		DEVIATION	
DEPTH OUT		API PRESSURE MUD	350			DEPTH OF SURF.		DEVIATION	
DEPTH IN		ACTUAL WEIGHT ON BIT	24.560	LBS.		DEPTH OF SURF.		DEVIATION	
TOTAL FTG.	780'	Remarks:						INTERMEDIATE CASING	
TOTAL HRS.	82:45								

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. CONCRETE  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Driller's Signature: **Bill Rossi** Hrs. **12 3/4**  
 Helper's Signature: **CRISTIAN HURTADO** Hrs. **12 3/4**  
 Helper's Signature: **DEE BRAUN** Hrs. **12 3/4**  
 Helper's Signature: \_\_\_\_\_

\*\*\*JUSTIFY HOURS (if Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  7 \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT      RIG # LH-25 P      DATE: 5/24/05

Daily Start time: 12:00       Midnight A.M.       Daily       Noon P.M.      Start time: 12:00       Midnight A.M.       Noon P.M.      PROJECT: 1451      NAME: URS

Hole No. KPW-1      Depth Today 880'      Depth Yesterday 860'      Total Drilled 20'

FROM	TO	ACTIVITY
11:45	12:00	Site Safety Equip inspection
12:00	6:45	Trip out Tools From 96', change shock sub B & Bit out, Trip in Tools
6:45	8:00	Trip in Rods To 860', no Fill
8:00	12:00	Drill 860' - 880'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
9	50 #	Quick Gel	X						
0	50 #	Solids Ash	X						
0	50 #	Drizpac	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.	<u>3</u>	<u>1</u>	<u>WT</u>	<u>FT</u>	<u>3.88</u>	WEIGHT	<u>9.4</u>	SURFACE PIPE IN HOLE
SIZE	<u>26"</u>	<u>2</u>	<u>STB</u>	<u>O.D.</u>	<u>FT</u>	<u>20.80</u>	<u>VISC-SEC</u>	<u>53</u>
MFG.	<u>Lang</u>	<u>3</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>5.27</u>	<u>WL-CCS</u>	<u>7.6</u>
TYPE	<u>76 Carbide</u>	<u>4</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>9.30</u>	<u>ROLDEN'S</u>	<u>1/4</u>
SER. NO.	<u>719552</u>	<u>5</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>5.26</u>	<u>TEMP.</u>	
DEPTH OUT		<u>6</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>5.27</u>		
DEPTH IN	<u>860</u>	<u>7</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>76.96</u>	<u>Time</u>	<u>12:00</u>
TOTAL FTG.		<u>8</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>3.75</u>		
TOTAL HRS.		<u>9</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>8.81</u>		
		<u>10</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>20.00</u>		
		<u>11</u>	<u>DC</u>	<u>O.D.</u>	<u>FT</u>	<u>1.45</u>		
		<u>12</u>	<u>TOTAL</u>			<u>160.81</u>		

		WT. OF STRING		SURVEY INFORMATION			
BIT NO.	<u>5/5</u>	<u>WT</u>	<u>98,240</u>	DEPTH OF SUR.	DEVIATION	DEPTH OF SUR.	DEVIATION
SIZE	<u>BT</u>	<u>WT OF STRING LESS RODS</u>	<u>7440</u>	DEPTH OF SUR.	DEVIATION	DEPTH OF SUR.	DEVIATION
MFG.	<u>Lang</u>	<u>RPM</u>	<u>40-60</u>	DEPTH OF SUR.	DEVIATION	DEPTH OF SUR.	DEVIATION
TYPE		<u>HYD. WEIGHT ON BIT</u>	<u>850</u>	DEPTH OF SUR.	DEVIATION	DEPTH OF SUR.	DEVIATION
SER. NO.	<u>227721 ARR</u>	<u>AIR MUD PRESSURE</u>	<u>330</u>	DEPTH OF SUR.	DEVIATION	DEPTH OF SUR.	DEVIATION
DEPTH OUT		<u>ACTUAL WEIGHT ON BIT</u>	<u>52,190</u>	DEPTH OF SUR.	DEVIATION	DEPTH OF SUR.	DEVIATION
DEPTH IN	<u>860</u>	Remarks:					
TOTAL FTG.							
TOTAL HRS.							

<u>4</u> Hrs. Booster <u>3</u> Hrs. Hauling Water <u>2</u> Hrs. Backhoe <u>4</u> Hrs. <u>Center Fudge</u>	Hrs. Extra Comp. _____ Hrs. Cat _____ Hrs. Mud Pump _____ <u>4</u> Hrs. Mud Tank _____	Sampling Performed by Lang Yes _____ No _____	<u>Dale Jensen</u> Hrs. Driver's Signature <u>Mike Wilson</u> Hrs. Helper's Signature <u>Mike Nikted</u> Hrs. Helper's Signature ***JUSTIFY HOURS (If Applies)*** _____ Getting Fuel _____ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

SE ROA 54126

JA\_18264

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LM 300 DATE: 10/24/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: #1451 NAME: URS

Hole No. KPIU-1 Depth Today 970' Depth Yesterday 880' Total Drilled 90'

FROM	TO	ACTIVITY
11:45	12:00	DISCUSS HOLE W/ DAK J. SITE SAFETY & EQUIP INSPEC.
12:00	8:30	DRILLED 880' - 940'
8:30	8:45	SURVEY @ 900'
8:45	12:00	DRILLED 940' - 970'

Quantity	Size	Material Name	LANG	CLIENT
	50LB	CEMENT		
	50LB	SODA ASH		
	50LB	DR.SPAC-R		

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION		
BIT NO.	3	1	BIT	P.C.	3.88	WEIGHT	9.4	9.4	9.5	SURFACE PIPE IN HOLE 34
SIZE	2 1/2"	2	STB.	O.D.	5.27 / 20.80	VISC-SEC.	53	54	56	
MFG.	LANG	4	R.R.	O.D.	5.26	WL-CC%.	8.8	8	8.4	DEPTH OF CEMENT GROUT 77 FT. IN.
TYPE	T.C. CARBIDE	5	D.C.	O.D.	9.30	PH	9	9	9	
SER. NO.	719552	6	R.R.	O.D.	5.27	SOLIDS%	1/4%	1/4%	1/4%	FT. IN.
DEPTH OUT		7	R.R.	O.D.	39.92	TEMP				
DEPTH IN	860'	9	D.C.	O.D.	3.75	W/L	1/32	1/32	1/32	FT. IN.
TOTAL FTG.	110'	10	R.R.		37.04					
TOTAL HRS.	14	11	R.R.		7.04 / 1.83					FT. IN.
		14			20.00					
		15			1.45					FT. IN.
BIT NO.	SHOCK SUB	TOTAL			160.81	TIME	4:30	9:00	11:30	

SURVEY INFORMATION		SURVEY INFORMATION	
SIZE	BAKER TAYLOR	WT. OF STRING	LBS.
MFG.	LANG	WT. OF STRING LESS RODS	74400 LBS.
TYPE		RPM	50-70
SER. NO.	287771RRR	HYD. WEIGHT ON BIT	1600 LBS.
DEPTH OUT		AIR MUD PRESSURE	
DEPTH IN	860'	ACTUAL WEIGHT ON BIT	36,840 LBS.
TOTAL FTG.	110'	Remarks:	
TOTAL HRS.	14		

12 Hrs. Booster \_\_\_\_\_ Hrs. Extra Comp.  
 \_\_\_\_\_ Hrs. Hauling Water 12 Hrs. Col. CEMENT-FC  
 1 Hrs. Backhoe \_\_\_\_\_ Hrs. Mud Pump  
 \_\_\_\_\_ Hrs. 6" Pump (or 2) 12 Hrs. Mud Tank

Sampling Performed by Lang Yes \_\_\_\_\_ No \_\_\_\_\_

Bill Rossi Hrs. 12/34  
 GREGORIO HURTADO Hrs. 12/34  
 JEFF BRAUD Hrs. 12/34

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 \_\_\_\_\_ Getting Fuel  
 \_\_\_\_\_ Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ?

LANG EXPLORATORY DAILY DRILLING REPORT RIG # Lm-300 DATE: 10-25-05

Daily Start time: 12:00 Midnight A.M. Noon P.M. Daily Start time: 12:00 Midnight A.M. Noon P.M. PROJECT: #1451 NAME: URS

Hole No. KPW-1 Depth Today 1060 Depth Yesterday 970' Total Drilled 90'

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site safety, and equip. insp. Discuss Hole, look @ water source</u>
<u>12:00</u>	<u>1:30</u>	<u>Drill 970'-980'</u>
<u>1:30</u>	<u>1:45</u>	<u>Check fluid levels, and grease</u>
<u>1:45</u>	<u>8 9:00</u>	<u>Drill 980'-1040'</u>
<u>9:00</u>	<u>9:15</u>	<u>Survey Hole @ 1000'</u>
<u>9:15</u>	<u>12:00</u>	<u>Drill 1040'-1060</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>46</u>	<u>50#</u>	<u>Gel</u>							
<u>3</u>	<u>50#</u>	<u>Drispar</u>							
<u>1</u>	<u>50#</u>	<u>Soda Ash</u>							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>3</u>	<u>1</u>	BIT	FT.	<u>3.88</u>	WEIGHT	<u>9.5</u>	<u>9.5</u>	<u>9.6</u>
SIZE	<u>7 1/2"</u>	<u>4 1/2</u>	STR.	O.D.	<u>5.27 / 20.80</u>	VISC-SEC.	<u>61</u>	<u>55</u>	<u>57</u>
MFG.	<u>Lunny</u>	<u>4</u>	R.R.	O.D.	<u>5.26</u>	WL-CCR	<u>7.4</u>	<u>6.8</u>	<u>7.2</u>
TYPE	<u>T.C. Carbide</u>	<u>5</u>	O.C.	O.D.	<u>9.30</u>	PH	<u>9</u>	<u>9</u>	<u>9</u>
SER. NO.	<u>719552</u>	<u>6</u>	D.C.	O.D.	<u>5.27</u>	SOLIDS%	<u>1/2</u>	<u>1/2</u>	<u>1/2</u>
DEPTH OUT		<u>7/8</u>	R.R.	O.D.	<u>39.92</u>	TEMP.			
DEPTH IN	<u>860'</u>	<u>9</u>	D.C.	O.D.	<u>3.75</u>	Wt	<u>1/2</u>	<u>3/32</u>	<u>2/62</u>
TOTAL FTG.		<u>10</u>	R.R.	O.D.	<u>37.04</u>	Time	<u>2:30</u>	<u>7:00</u>	<u>11:30</u>
TOTAL HRS.	<u>23</u>	<u>12</u>	D.C.	R.R.	<u>7.04 / 1188</u>				
		<u>14</u>			<u>70.00</u>				
		<u>15</u>			<u>1.45</u>				
			TOTAL		<u>1102.81</u>				

SURVEY INFORMATION		SURVEY INFORMATION	
BIT NO.	<u>Shock Sub</u>	WT OF STRING	LBS.
SIZE	<u>Baker Taylor</u>	WT OF STRING LESS RODS	<u>74 HRS.</u>
MFG.	<u>Lunny</u>	DEPTH OF SUR.	<u>1000'</u>
TYPE		DEVIATION	<u>1"</u>
SER. NO.	<u>29771RRRI</u>	DEPTH OF SUR.	
DEPTH OUT		DEVIATION	
DEPTH IN	<u>860'</u>	DEPTH OF SUR.	
TOTAL FTG.		DEVIATION	
TOTAL HRS.		DEPTH OF SUR.	
		DEVIATION	

Remarks:

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Operator's Signature: Greg Martine Hrs.  
 Helper's Signature: Mark Fisher Hrs.  
 Helper's Signature: Dorell Stalheim Hrs.

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ? \_\_\_\_\_



LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <u>Lm-300</u>		DATE: <u>10-26-05</u>			
Daily Start time: <u>12:00</u>		Midnight A.M. Noon P.M.		Daily Start time: <u>12:00</u>		Midnight A.M. Noon P.M.			
PROJECT: <u>#1451</u>				NAME: <u>URS</u>					
Hole No. <u>KPW-1</u>		Depth Today <u>1200'</u>		Depth Yesterday <u>1125</u>		Total Drilled <u>75'</u>			
FROM	TO	ACTIVITY							
<u>11:45</u>	<u>12:00</u>	<u>Site safety and equip. insp. Discuss /ble</u>							
<u>12:00</u>	<u>2:00</u>	<u>Drill 1125-1140</u>							
<u>2:00</u>	<u>2:45</u>	<u>Survey Hole</u>							
<u>2:45</u>	<u>11:15</u>	<u>Drill 1140'-1200'</u>							
<u>11:15</u>	<u>12:00</u>	<u>Trip out 400' Rods</u>							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name		
<u>19</u>	<u>50#</u>	<u>Gel</u>							
<u>3</u>	<u>50#</u>	<u>Drill Bit</u>							
<u>1</u>	<u>50#</u>	<u>Solids</u>							
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>3</u>		BIT	FT.	WEIGHT	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	SURFACE PIPE IN HOLE
SIZE	<u>2 1/2"</u>		STL.	O.D. F.T.	VISC-SEC.	<u>47</u>	<u>52</u>	<u>55</u>	<u>34</u> F.T. IN.
MFG.	<u>Luvy</u>		D.C.	O.D. F.T.	WL-CGS	<u>7.2</u>	<u>6.8</u>	<u>6.8</u>	<u>80</u> F.T. IN.
TYPE	<u>T.C. Carbide</u>		D.C.	O.D. F.T.	PH	<u>9</u>	<u>9</u>	<u>9</u>	DEPTH OF CEMENT GROUT
SER. NO.	<u>719553</u>		D.C.	O.D. F.T.	SOLIDS%	<u>1/4</u>	<u>1/2</u>	<u>1/2</u>	<u>77</u> F.T. IN.
DEPTH OUT			D.C.	O.D. F.T.	TEMP.				WELL SCREEN IN HOLE
DEPTH IN	<u>860'</u>		D.C.	O.D. F.T.	W/L	<u>1/16</u>	<u>1/32</u>	<u>1/32</u>	F.T. IN.
TOTAL FTG.			D.C.	R.R.	Time	<u>1:00</u>	<u>6:45</u>	<u>10:00</u>	CASING IN HOLE
TOTAL HRS.			D.C.	R.R.					F.T. IN.
BIT NO.	<u>Shock Sub</u>		TOTAL	<u>160.81</u>					DEPTH OF GRAVEL
SIZE	<u>B.T.</u>		WT. OF STRING	LBS.	SURVEY INFORMATION				F.T. IN.
MFG.	<u>Luvy</u>		WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.		DEVIATION		DEPTH OF TRIM PIPE
TYPE			RPM		DEPTH OF SUR.		DEVIATION		F.T. IN.
SER. NO.	<u>Z87771 RRR</u>		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING
DEPTH OUT			AIR MUD PRESSURE		DEPTH OF SUR.		DEVIATION		F.T. IN.
DEPTH IN	<u>860'</u>		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL FTG.			Remarks:						
TOTAL HRS.									
<u>11</u> Hrs. Booster      ___ Hrs. Extra Comp. <u>3</u> Hrs. Hoisting Water      ___ Hrs. Cal <u>1</u> Hrs. Backhoe      ___ Hrs. Mud Pump <u>1</u> Hrs. 6" Pump (or 2) <u>1 1/4</u> Hrs. Mud Tank				Sampling Performed by Lang Yes ___ No ___		<u>Anna Martinez</u> Hrs. Driller's Signature <u>Matt Fisher</u> Hrs. Helper's Signature <u>Daryl Stalheim</u> Hrs. Helper's Signature		***JUSTIFY HOURS (if Applies)*** <u>1/4</u> Getting Fuel Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)	
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes ___ No ___ ? ___									

SE ROA 54130

JA\_18268

LANG EXPLORATORY DAILY DRILLING REPORT				RIG #	DATE:						
Daily Start time: 12:00		Midnight A.M. Noon P.M.		Daily Start time: 12:00	Midnight A.M. Noon P.M.						
PROJECT: #1451				NAME: VRS							
Hole No.	Depth Today	Depth Yesterday	Total Drilled								
KPW-1	Ø	1200'	Ø								
FROM	TO	ACTIVITY									
11:45	12:00	DISURK Hole W/ Aaron M. Site Safety & Equip Inspect.									
12:00	3:00	TRIP RODS, INTERTUBE, TOP SUB									
3:00	12:00	ADD 2 DRILL COLLARS TO B.H.A, TRIP IN INTERTUBE									
		9 5/8 ROD AND 7" RODS									
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT		
4	501B	MAXCEL									
Ø	501B	SODA ASH									
1	501B	DRISYK-R									
70	gal	Clear Diesel									
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION				
BIT NO.	3	1	BIT	F.L.	9.88	WEIGHT				SURFACE PIPE IN HOLE	34
SIZE	2 1/2"	1/2	STR.	O.D.	5.29	170.80	VISC-SEC.			80	F.T. IN.
MFG.	LANG	4	D.C.	O.D.	5.26		WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE	T.C. CARBIDE	5	D.C.	O.D.	9.30		PH			77	F.T. IN.
SER. NO.	719552	6	D.C.	O.D.	5.27		SOLIDS%			WELL SCREEN IN HOLE	
DEPTH OUT		1/8	D.C.	O.D.	39.92		TEMP.				F.T. IN.
DEPTH IN	860'	1/11	D.C.	O.D.	37.04					CASING IN HOLE	
TOTAL FTG.		1/13	D.C.	O.D.	7.04	1.83					F.T. IN.
TOTAL HRS.		14	D.C.	R.R.	20.00						F.T. IN.
		15			1.45						F.T. IN.
		9			3.75						F.T. IN.
BIT NO.	Silcock Sub	TOTAL			160.81 (202.36)					DEPTH OF GRAVEL	
SIZE	B/T	WT. OF STRING		LIB.	SURVEY INFORMATION					DEPTH OF TRIM PIPE	
MFG.	LANG	WT. OF STRING LESS RODS		74.40	DEPTH OF SUR.		DEVIATION			INTERMEDIATE CASING	
TYPE		NPH			DEPTH OF SUR.		DEVIATION				F.T. IN.
SER. NO.	287771RRR	HYD. WEIGHT ON BIT		LIB.	DEPTH OF SUR.		DEVIATION				F.T. IN.
DEPTH OUT		AIR MUD PRESSURE			DEPTH OF SUR.		DEVIATION				F.T. IN.
DEPTH IN	860'	ACTUAL WEIGHT ON BIT		LIB.	DEPTH OF SUR.		DEVIATION				F.T. IN.
TOTAL FTG.		Remarks: ADD DRILL COLLARS #12) 10.22 #13) 21.33 NEW B.H.A.									
TOTAL HRS.		TOTAL 202.36									
ALSO ADD 40' INTERTUBE											
B.H.A. 104,380 NEW LIGHT											
___ Hrs. Booster ___ Hrs. Hauling Water ___ Hrs. Backhoe ___ Hrs. 6" Pump (or 2)			___ Hrs. Extra Comp. 4 Hrs. Cementing ___ Hrs. Mud Pump 12 Hrs. Mud Tank			Sampling Performed by Lang Yes <input checked="" type="checkbox"/> No ___		Bill Rossi Hrs. 13/4 Operator Signature HURTADO Hrs. 12/4 HURTADO Hrs. 12/4 HURTADO Hrs. 12/4		***JUSTIFY HOURS (if Applies)*** 1/2 Getting Fuel Chasing for Parts 1/2 Drive Time (after the 1st one hour)	
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes ___ No ___ ? ___											

SE ROA 54131

JA\_18269



LANG EXPLORATORY DAILY DRILLING REPORT      FIG # Lm-300      DATE: 10-27-05

Daily Start time: 12:00      Midnight A.M. / Noon P.M.      Daily Start time: 12:00      Midnight A.M. / Noon P.M.      PROJECT: # 1451      NAME: URS

Hole No. KPW-1      Depth Today 1265      Depth Yesterday 1200'      Total Drilled 665'

FROM	TO	ACTIVITY
11:45	12:00	Site safety and equip. insp. Discuss Hole
12:00	1:15	Finish tripping in
1:15	7:30	Drill 1200' - 1240'
7:30	8:00	Survey Hole
8:00	12:00	Drill 1240 -
12:00	12:15	Safety meeting

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
77	50#	Gal							
2	50#	Soda							
6	50#	Bar R							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	3	1	BIT	FT.	3.88	WEIGHT	9.4	9.4	SURFACE PIPE IN HOLE
SIZE	2 1/2"	2	STR.	O.D.	20.80	WISC-SEC.	48	48	
MFG.	Lamy	3	OD	O.D.	9.27	WL-CCR	6.0	6.8	80 F.T. IN.
TYPE	T.C. Carbide	5	2 1/2"	O.D.	9.30	PH	10	9	DEPTH OF CEMENT GROUT
SER. NO.	719552	4	2 1/2"	O.D.	5.26	SOLIDS%	1/2	1/2	77 F.T. IN.
DEPTH OUT		6	2 1/2"	O.D.	5.27	TEMP.	97°	93°	WELL SCREEN IN HOLE
DEPTH IN	860'	7	2 1/2"	O.D.	39.92	W/C	1/32	1/32	F.T. IN.
TOTAL FTG.		9	2 1/2"	O.D.	3.75				CASING IN HOLE
TOTAL HRS.		10 1/2	2 1/2"	O.D.	78.59				F.T. IN.
		14	2 1/2"	O.D.	7.04				DEPTH OF GRAVEL
		14 1/2	2 1/2"	O.D.	23.28				F.T. IN.
BIT NO.	Shock Sub	TOTAL			202.36	Time	5:00	9:30	

		WT. OF STRING		SURVEY INFORMATION			
SIZE	R/T	WT. OF STRING	146,780	DEPTH OF SUR.	1600'	DEVIATION	1"
MFG.		WT. OF STRING LESS RODS	117,000	DEPTH OF SUR.		DEVIATION	
TYPE		RPM	70-80	DEPTH OF SUR.		DEVIATION	
SER. NO.	287771RRR	HYD. WEIGHT ON BIT	700-1000 LBS.	DEPTH OF SUR.		DEVIATION	
DEPTH OUT		AIR MUD PRESSURE	380	DEPTH OF SUR.		DEVIATION	
DEPTH IN	860'	ACTUAL WEIGHT ON BIT	30,840 - 55,260 LBS.	DEPTH OF SUR.		DEVIATION	
TOTAL FTG.		Remarks:					
TOTAL HRS.							

10 1/2 Hrs. Booster      \_\_\_\_\_ Hrs. Extra Comp.  
 7 Hrs. Hauling Water      \_\_\_\_\_ Hrs. Gal  
 1 Hrs. Backhoe      \_\_\_\_\_ Hrs. Mud Pump  
 \_\_\_\_\_ Hrs. 6" Pump (or 2)      1 1/4 Hrs. Mud Tank

Sampling Performed by Lang      Yes  No \_\_\_\_\_

Operator's Signature: David M. ...  
 Helper's Signature: Matt Fisher  
 Helper's Signature: Darryl Stalheim

\*\*\*JUSTIFY HOURS (if Applies)\*\*\*  
 \_\_\_\_\_ Getting Fuel  
 \_\_\_\_\_ Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # **LM 300** DATE: **10/27/05**

Daily Start time: **12:00** (Midnight A.M. / Noon P.M.) PROJECT: # **1451** NAME: **URS**

Hole No. **KPIU-1** Depth Today **1345'** Depth Yesterday **1265'** Total Drilled **80'**

FROM	TO	ACTIVITY
11:45	12:00	Discuse Hole w/ Aaron M. SITE SAFETY & Equip Inspect
17:00	11:00	Drilled 1265' - 1340'
---	---	SURVEY @ 1300'
11:00	12:00	Drilled 1340-1345'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
20	5018	MAXCEL							
1	5018	SODA ASH							
3	5018	DEKPAK-R							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD			WELL CONSTRUCTION		
BIT NO.	3	1	BY P.E. 3.88	WEIGHT	9.4	9.3	9.2	SURFACE PIPE IN HOLE	84
SIZE	26"	2	BY P.E. 5.27/20.80	VISC. SEC.	5.60	5.60	5.60	80	F.T. IN.
MFG.	Y.N.A.	4	R.C. O.D. P.E. 5.26	WL-GCR	10.4	9.8	6.4	DEPTH OF CEMENT GROUT	
TYPE	T.C. CARBIDE	5	SHOCKS R.C. O.D. P.E. 9.30	IN	9	9	9	77	F.T. IN.
SER. NO.	719552	6	CDP R.C. O.D. P.E. 14.85	SOLIDS	1/4%	1/4%	1/8%	WELL SCREEN IN HOLE	
DEPTH OUT		8	R.C. O.D. P.E. 20.01	TEMP.	94°	95°		CASING IN HOLE	
DEPTH IN	260'	11	R.C. O.D. P.E. 20.08		1/32	1/32	1/32	DEPTH OF GRAVEL	
TOTAL FTG.		13	R.C. O.D. P.E. 21.23					DEPTH OF TRIM PIPE	
TOTAL HRS.	10:40	15	CDP R.C. O.D. P.E. 20.00					INTERMEDIATE CASING	
		16	R.C. O.D. P.E. 1.45						
BIT NO.	3 SHOCKS L.B.		TOTAL 202.36	Tip	9:00	6:30	10:00		
SIZE	BIT		WT. OF STRING 132,010 LBS.	SURVEY INFORMATION					
MFG.			WT. OF STRING LESS ROD 84,380 LBS.	DEPTH OF SUR.	1300	DEVIATION			
TYPE			RPM 75	DEPTH OF SUR.		DEVIATION			
SER. NO.	70777RRR		HYD. WEIGHT ON BIT 850 LBS.	DEPTH OF SUR.		DEVIATION			
DEPTH OUT			AIR MUD PRESSURE 410	DEPTH OF SUR.		DEVIATION			
DEPTH IN	260'		ACTUAL WEIGHT ON BIT 52,190 LBS.	DEPTH OF SUR.		DEVIATION			
TOTAL FTG.			Remarks: WIRE LINE DRUM BROKEN NO SURVEY @ 1300						
TOTAL HRS.	10:40								

12 Hrs. Booster	___ Hrs. Extra Comp.	Sampling Performed by Lang Yes ___ No ___	Bill Rossi Supervisor Signature 10/27/05
3 Hrs. Hauling Water	___ Hrs. Cat		Diego Hurtado Supervisor Signature 10/27/05
1/2 Hrs. Backhoe	___ Hrs. Mud Pump		Jeff Brand Supervisor Signature 10/27/05
1/2 Hrs. 6" Pump (or 2)	12 Hrs. Mud Tank		

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ?

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LM-300 DATE: 10-28-05

Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) PROJECT: #1451 NAME: URS

Hole No. KPW-1 Depth Today 1425 Depth Yesterday 1345' Total Drilled 80'

FROM	TO	ACTIVITY
11:45	12:00	Site safety road equip insp Discuss Hole
12:00	2:30	Drill 1345'-1360'
2:30	2:45	Survey Hole @ 1300'
2:45	12:00	Drill 1360'-1425

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
17	50#	Gal							
6	50#	Pac P							
1	50#	Soda							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION		
BIT NO.	3	1	BT	FE	3.88	WEIGHT	9.3	9.5	SURFACE PIPE IN HOLE
SIZE	76"	3/5	STL	O.D.	FE 5.27	W.C. 442	55	53	80' F.T. IN.
MFG.	Lang	4	R.C.	O.D.	FE 5.26	W.C.CE	7.2	6.4	DEPTH OF CEMENT GROUT
TYPE	T.C. Carbide	5	STL	O.D.	FE 9.30	PH	10	10	77 F.T. IN.
SER. NO.	719552	6	R.C.	O.D.	FE 19.85	SOLIDS%	1/2	1/2	WELL SCREEN IN HOLE
DEPTH OUT		7	STL	O.D.	FE 5.27	TEMP.			
DEPTH IN	860'	8	R.C.	O.D.	FE 20.07				
TOTAL FTG.	565	9	R.C.	O.D.	FE 5.75				
TOTAL HRS.	75	10	R.C.	O.D.	FE 20.08				
		11	R.C.	O.D.	FE 16.94				
		12	R.C.	O.D.	FE 20.21				
		13	R.C.	O.D.	FE 21.53				
		14	O.C. TYS		7.04				
		15	R.R. 4/4		1.53				
		16	9 5/8		20.00				
		17	9 x 7		1.45				
BIT NO.	Shock Sub	TOTAL			202.36	Time	4:00	7:50	
SIZE	6/T	WT. OF STRING			178,060 LBS.	SURVEY INFORMATION			
MFG.		WT. OF STRING LESS HOES			104 LBS.	DEPTH OF SUR.	1300	DEVIATION	3/4
TYPE		FORM			70-80	DEPTH OF SUR.		DEVIATION	
SER. NO.	287771 RRR	HYD. WEIGHT ON BIT			600-900 LBS.	DEPTH OF SUR.		DEVIATION	
DEPTH OUT		AIR MUD PRESSURE			440	DEPTH OF SUR.		DEVIATION	
DEPTH IN	860'	ACTUAL WEIGHT ON BIT			36,890 LBS.	DEPTH OF SUR.		DEVIATION	
TOTAL FTG.	565	Remarks:							
TOTAL HRS.	75								

1 1/2 Hrs. Booster      \_\_\_ Hrs. Extra Comp.  
 3 Hrs. Hauling Water      \_\_\_ Hrs. Cat  
 2 1/2 Hrs. Backhoe      \_\_\_ Hrs. Mud Pump  
 \_\_\_ Hrs. 6" Pump (or 2)      1 1/4 Hrs. Mud Tank

Sampling Performed by Lang: Yes \_\_\_ No \_\_\_

Operator's Signature: Jason Martinez Hrs.  
Michael Fisher Hrs.  
Demetrius Stelheim Hrs.

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 1/4 Getting Fuel Gasoline  
 Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ? \_\_\_



LANG EXPLORATORY DAILY DRILLING REPORT RIG # **Lm-300** DATE: **10-29-05**

Daily Start time: **12:00** (Midnight A.M. / Noon P.M.) Daily Start time: **12:00** (Midnight A.M. / Noon P.M.) PROJECT: **#1451** NAME: **URS**

Hole No. **KPW-1** Depth Today **1525** Depth Yesterday **1460'** Total Drilled **605'**

FROM	TO	ACTIVITY
11:45	12:00	Site safety, and equip. insp. Discuss Hole
12:00	12:00	Drill 1460' - 1525
12:00	12:15	Safety meeting

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
15	50#	Gel							
8	50#	Par B							
1	50#	Soda							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	3		BIT	P.T.	WEIGHT	9.3	9.3	9.3	SURFACE PIPE IN HOLE
SIZE	2 1/2"		STR.	O.D. P.T.	VISC-REC.	49	50	51	80' F.T. IN.
MFG.	Long		D.C.	O.D. P.T.	WL-CC'S	6.0	6.8	6.8	DEPTH OF CEMENT GROUT
TYPE	T.C. Carbide		D.C.	O.D. P.T.	PH	8	9	9	77 F.T. IN.
SER. NO.	719552		D.C.	O.D. P.T.	SOLIDS	1/4	1/2	1/2	WELL SCREEN IN HOLE
DEPTH OUT			D.C.	O.D. P.T.	TEMP.				
DEPTH IN	860'		R.R.	O.D. P.T.	W/L	1/32	1/32	1/32	
TOTAL FTG.	665		D.C.						
TOTAL HRS.	93		R.R.						

BIT RECORD		TOTAL		SURVEY INFORMATION		WELL CONSTRUCTION	
BIT NO.	Stack Sub	207-36		DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.
SIZE	B/T	WT. OF STRING	181,130 LBS.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.
MFG.		WT. OF STRING LESS ROOBS	14,361 LBS.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.
TYPE		RPM	70-80	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.
SER. NO.	287771R.R.R.	HYD. WEIGHT ON BIT, G - 900	LBS.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.
DEPTH OUT		AIR MUD PRESSURE	480	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.
DEPTH IN	860'	ACTUAL WEIGHT ON BIT	16,500 - 56,260 LBS.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.	DEPTH OF SUR.
TOTAL FTG.	665	Remarks:					
TOTAL HRS.	93						

1 1/4 Hrs. Booster       Hrs. Extra Comp.  
 5 Hrs. Hauling Water       Hrs. Cat  
 2 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       1 1/4 Hrs. Mud Tank

Sampling Performed by Lang:  Yes       No

Signatures:  
 Operator's Signature: *Jason Martinez*  
 Fisher's Signature: *Michael Fisher*  
 Helper's Signature: *Harvey Stalheim*

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 1/4 Getting Fuel  
 1/2 Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # Lm-300 DATE: 10-30-05

Daily Start time: 12:00 Midnight A.M. Noon P.M. Daily Start time: 12:00 Midnight A.M. Noon P.M. PROJECT # 1451 NAME: 12RS

Hole No. KPW-1 Depth Today 1580 Depth Yesterday 1580' Total Drilled 0

FROM	TO	ACTIVITY
11:45	12:00	Site safety and equip insp. Discuss Hole
12:00		Trip out inner tube, and tools, change out
	7:00	bit and shock sub.
7:00	9:00	Service equip.
9:00	12:00	Trip in tools and inner tube, and 9/8 rod.

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
12	50H	Gel							
1	50H	Down pipe							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>4</u>		BIT	P.T.	WEIGHT			SURFACE PIPE IN HOLE	
SIZE	<u>26"</u>		STR.	O.D. P.T.	VISC. SEC.			<u>80</u>	34 IN. F.T.
MFG.	<u>Lamy</u>		D.C.	O.D. P.T.	WLCC'S			DEPTH OF CEMENT GROUT	
TYPE	<u>T.C. Carbide</u>		R.A.	O.D. P.T.	PH			<u>77</u>	F.T. IN.
SER. NO.	<u>6027356R</u>		D.C.	O.D. P.T.	SOLIDS%			WELL SCREEN IN HOLE	
DEPTH OUT			R.A.	O.D. P.T.	TEMP.				F.T. IN.
DEPTH IN	<u>1580'</u>		D.C.	O.D. P.T.				CASING IN HOLE	
TOTAL FTG.			R.A.	O.D. P.T.					F.T. IN.
TOTAL HRS.			D.C.	O.D. P.T.				DEPTH OF GRAVEL	
			R.A.	O.D. P.T.					F.T. IN.
BIT NO.			TOTAL	<u>202-35</u>	SURVEY INFORMATION			DEPTH OF TRIM PIPE	
SIZE			WT. OF STRING	LBS.	DEPTH OF SUR.	DEVIATION			F.T. IN.
MFG.			WT. OF STRING LESS ROOS	<u>104,380</u> LBS.	DEPTH OF SUR.	DEVIATION		INTERMEDIATE CASING	
TYPE			RPM		DEPTH OF SUR.	DEVIATION			F.T. IN.
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		CASING	
DEPTH OUT			AIR PRESSURE		DEPTH OF SUR.	DEVIATION			F.T. IN.
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION			
TOTAL FTG.			Remarks:						
TOTAL HRS.			<u>Add 1 Hr. for time change</u>						

<input type="checkbox"/> Hrs. Booster <input type="checkbox"/> Hrs. Hauling Water <input type="checkbox"/> Hrs. Backhoe <input type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cat <input type="checkbox"/> Hrs. Mud Pump <input type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	Driver's Signature: <u>David Martinez</u> Hrs. Helper's Signature: <u>Matt Fisher</u> Hrs. Helper's Signature: <u>Danny Halheim</u> Hrs. Helper's Signature: _____ Hrs. ***JUSTIFY HOURS (If Applies)*** <input type="checkbox"/> Getting Fuel <input checked="" type="checkbox"/> Chasing for Parts, Daylight Savings <input checked="" type="checkbox"/> 1/2 Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?

LANG EXPLORATORY DAILY DRILLING REPORT · RIG # **LM300** DATE: **10/29/05**

Daily Start time: **12:00** (Midnight A.M. / Noon P.M.) PROJECT: # **1451** NAME: **URS**

Hole No. **KPW-1** Depth Today **1580'** Depth Yesterday **1525'** Total Drilled **55'**

FROM	TO	ACTIVITY
11:45	12:00	DISCLOSE HOLE w/ Agrum M. Site Safety & Ecolab Inspect
12:00	8:00	Drilled 1525' - 1580'
8:00	8:30	SURVEY @ 1500'
8:30	12:00	TRIPPED 7" RODS, 9 5/8" ROD

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
8	501B	MAX GEL	Y						
1	501B	SEDR ACH	X						
2	501B	DR.SPAC-R	F						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.	3		BIT	F.T.	WEIGHT	9.3	9.4	SURFACE PIPE IN HOLE
SIZE	26"		STR.	O.D. F.T.	VISC-SEC.	50	48	80 F.T. IN.
MFG.	LANCO		D.C.	O.D. F.T.	WL-CCT'S	6.8	8	DEPTH OF CEMENT GROUT
TYPE	T.C. CARBIDE		G.C.	O.D. F.T.	MP	9	9	77 F.T. IN.
SER. NO.	719557		O.C.	O.D. F.T.	SOLIDS%	14%	14%	WELL SCREEN IN HOLE
DEPTH OUT	1580'		D.C.	R.R. O.D. F.T.	TEMP.	95°	95°	F.T. IN.
DEPTH IN	860'		D.C.	R.R. O.D. F.T.		1/32"	1/32"	CASING IN HOLE
TOTAL FTG.	720'		D.C.	R.R.				F.T. IN.
TOTAL HRS.	100:45		D.C.	R.R.				F.T. IN.
BIT NO.	Slack Sub	TOTAL			TIME	2:00	6:00	DEPTH OF GRAVEL
SIZE	B/T							F.T. IN.

		SURVEY INFORMATION	
WT. OF STRAND	138,150 LBS.	DEPTH OF SUR.	1500'
WT. OF STRAND LESS RODS	104,380 LBS.	DEPTH OF SUR.	
RPM	70-80	DEPTH OF SUR.	
HYD. WEIGHT ON BIT	900 LBS.	DEPTH OF SUR.	
AIR LINE PRESSURE	500	DEPTH OF SUR.	
ACTUAL WEIGHT ON BIT	55,260 LBS.	DEPTH OF SUR.	

TOTAL FTG. \_\_\_\_\_ TOTAL HRS. **100:45** Remarks: \_\_\_\_\_

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. ENCOUNTERS  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes \_\_\_\_\_ No \_\_\_\_\_  
 Bill Rossi (Driller's Signature) hrs 12:34  
 Greg HUSTARO (Helper's Signature) hrs 12:34  
 Jeff BRAD (Helper's Signature) hrs 12:34

\*\*\*JUSTIFY HOURS (if Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT      FIG # LM-300      DATE: 10/30/05

Daily Start time: 12:00      Midnight A.M. Noon P.M.      Daily Start time: 12:00      Midnight A.M. Noon P.M.      PROJECT: #1451      NAME: URS

Hole No. KPW-1      Depth Today 1650'      Depth Yesterday 1580'      Total Drilled 70'

FROM	TO	ACTIVITY
11:45	12:00	Discuss Hole w/ Aaron M. Site Safety & Equip Ins. spec.
12:00	2:30	TRIPPED 7' RODS TO 1578 2' OF FILL
2:30	3:00	DRILLED 2' OF FILL
3:00	12:00	DRILLED 1580'-1650'

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
1	501B	QUICK GEL	X						
1	501B	SODA ASH	X						
3	501B	DR'S PAL-R	X						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)	MUD RECORD			WELL CONSTRUCTION	
BIT NO.	4	1	BIT #4 FT. 4.00	WEIGHT	9.3	9.2	9.3	SURFACE PIPE IN HOLE
SIZE	26"	2	R.K. 3.27	VISC. SEC.	1.46	1.49	1.49	80 F.T. IN.
MFG.	LAD9	4	DE R.L. 5.26	WL. CCS	6.8	6.4	7.2	DEPTH OF CEMENT GROUT
TYPE	T.C. CARBIDE	5	DC O.D. FT. 9.17	PH	8	9	9	77 F.T. IN.
SER. NO.	6027356R	6	R.L. 14.81	SOLIDS%	1/4%	1/4%	1/4%	WELL SCREEN IN HOLE
DEPTH OUT		8	R.L. 20.07	TEMP.				
DEPTH IN	1580'	11	R.L. 16.96		W/C	1/32"	1/32"	1/32"
TOTAL FTG.		13	R.L. 21.73					
TOTAL HRS.		15	R.L. 7.04					
		16	R.L. 1.83					
		17						
BIT NO.		TOTAL	202.35	TIME	3:30	7:00	10:00	DEPTH OF GRAVEL
SIZE		WT. OF STRING	135,080 LBS.	SURVEY INFORMATION				
MFG.		WT. OF STRING LESS RODS	104,380 LBS.	DEPTH OF SUR.		DEVIATION		DEPTH OF TRIM PIPE
TYPE		RPM	70-80	DEPTH OF SUR.		DEVIATION		
SER. NO.		HYD. WEIGHT ON BIT	900 LBS.	DEPTH OF SUR.		DEVIATION		
DEPTH OUT		AIR MUD PRESSURE	400	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING
DEPTH IN		ACTUAL WEIGHT ON BIT	55260 LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL FTG.		Remarks: LIFT TUBE 500' FROM BIT						
TOTAL HRS.								

9 1/2 Hrs. Booster 4 Hrs. Hauling Water 1/2 Hrs. Backhoe 1/2 Hrs. 6" Pump (or 2)	Hrs. Extra Comp. 10 Hrs. <del>Backhoe</del> Hrs. Mud Pump 10 Hrs. Mud Tank	Sampling Performed by Lang Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Bill Rossi      Hrs. 12 3/4 Operator's Signature Helper's Signature Helper's Signature
***JUSTIFY HOURS (If Applies)*** Getting Fuel Chasing for Parts 1/2 Drive Time (after the 1st one hour)			

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_



LANG EXPLORATORY DAILY DRILLING REPORT RIG # Lm-300 DATE: 10-31-05

Daily Start time: 12:00 Midnight A.M. Noon P.M. Daily Start time: 12:00 Midnight A.M. Noon P.M. PROJECT: #1451 NAME: URS

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>KPW-1</u>	<u>1740'</u>	<u>1650'</u>	<u>90'</u>

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site safety and equip. insp. Discuss Hole</u>
<u>12:00</u>	<u>1:15</u>	<u>Drill 1650'-1660'</u>
<u>1:15</u>	<u>1:30</u>	<u>Survey Hole @ 1600'</u>
<u>1:30</u>	<u>17:00</u>	<u>Drill 1660'-1740'</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>38</u>	<u>50#</u>	<u>Gel</u>							
<u>10</u>	<u>50#</u>	<u>Pow R.</u>							
<u>1</u>	<u>50#</u>	<u>Soda ash</u>							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	<u>4</u>	<u>1</u>	BIT#	<u>RT 4.00</u>	WEIGHT	<u>9.3</u>	<u>9.2</u>	<u>9.2</u>	SURFACE PIPE IN HOLE <u>90</u> FT. IN.
SIZE	<u>26</u>	<u>2/3</u>	R.F. STB. O.D.	<u>5.27</u>	VSIG. SEC.	<u>46</u>	<u>50</u>	<u>51</u>	
MFG.	<u>Lang</u>	<u>4</u>	D.C. R.R. O.D.	<u>5.26</u>	M.U.C.C'S	<u>6.8</u>	<u>6.4</u>	<u>6.8</u>	DEPTH OF CEMENT GROUT <u>77</u> FT. IN.
TYPE	<u>T.C. Carbide</u>	<u>5</u>	D.C. O.B. P.E.	<u>9.17</u>	IN	<u>9</u>	<u>9</u>	<u>9</u>	
SER. NO.	<u>6027356R</u>	<u>1/6</u>	D.C. R.R. O.D.	<u>14.85</u>	SOLIDITY	<u>1/4</u>	<u>1/2</u>	<u>1/2</u>	WELL SCREEN IN HOLE  FT. IN.
DEPTH OUT		<u>3/4</u>	D.C. R.R. O.D.	<u>20.07</u>	TEMP.				
DEPTH IN	<u>1580'</u>	<u>10/11</u>	D.C. R.R. O.D.	<u>20.80</u>		<u>4/c</u>	<u>1/32</u>	<u>1/16</u>	<u>1/32</u>
TOTAL FTG.	<u>160'</u>	<u>11/15</u>	D.C. R.R. O.D.	<u>20.82</u>					CASING IN HOLE  FT. IN.
TOTAL HRS.	<u>18:15</u>	<u>12/5</u>	D.C. R.R. O.D.	<u>21.55</u>					
		<u>1/6</u>	D.C. R.R. O.D.	<u>1.83</u>					DEPTH OF GRAVEL  FT. IN.
		<u>17</u>		<u>20.00</u>					
				<u>1.45</u>					
BIT NO.	<u>Shock Sub #3</u>		TOTAL	<u>202.35</u>	Time	<u>3:00</u>	<u>7:00</u>	<u>10:30</u>	

		WT. OF STRING / 84, 200 LBS.		SURVEY INFORMATION			
SIZE	<u>BT</u>	<u>109, 382 LBS.</u>		DEPTH OF SUR.	<u>1600'</u>	DEVIATION	<u>1/4"</u>
MFG.	<u>Lang</u>			DEPTH OF SUR.		DEVIATION	
TYPE	<u>70-80</u>			DEPTH OF SUR.		DEVIATION	
SER. NO.	<u>?</u>	HYD. WEIGHT ON BIT <u>1400-900</u> LBS.		DEPTH OF SUR.		DEVIATION	
DEPTH OUT		AIR PRESSURE <u>400</u>		DEPTH OF SUR.		DEVIATION	
DEPTH IN	<u>1580'</u>	ACTUAL WEIGHT ON BIT <u>24560 - 557, 260</u> LBS.		DEPTH OF SUR.		DEVIATION	

TOTAL FTG. 160' TOTAL HRS. 18:15 Remarks: (160' inner tube)

<u>11 3/4</u> Hrs. Booster	___ Hrs. Extra Comp.	Sampling Performed by Lang  Yes <u>X</u> No ___	<u>Claron Martinez</u> Hrs.
<u>7</u> Hrs. Hauling Water	___ Hrs. Cat		<u>Matt Fisher</u> Hrs.
<u>2</u> Hrs. Backhoe	___ Hrs. Mud Pump		<u>Darryl Stalheim</u> Hrs.
___ Hrs. 6" Pump (or 2)	<u>11 3/4</u> Hrs. Mud Tank		Helper's Signature
			***JUSTIFY HOURS (if Applies)*** ___ Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ? \_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT				.RIG # LM-300		DATE: 10/31/05			
Daily Start time: 12:00		Midnight A.M. / Noon P.M. <u>None</u>		Daily Start time: 12:00		Midnight A.M. / Noon P.M. <u>None</u>		PROJECT: #1451 NAME: URS	
Hole No. KPW-1		Depth Today 1800'		Depth Yesterday 1740'		Total Drilled 60'			
FROM	TO	ACTIVITY							
11:45	12:00	Discuss Hole / w/ Aaron M. Site Safety & Equip. Inspect.							
12:00	4:45	Drilled 1740' - 1760'							
4:45	5:15	Surveys @ 1700							
5:15	12:00	Drilled 1760 - 1800'							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
46	501B	Quik Gel	X						
1	501B	Soda Ash	X						
3	501B	Drispac - R	X						
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.	4		BIT	FT.	WEIGHT	9.1	9.2	9.0	SURFACE PIPE IN HOLE
SIZE	26"		STB.	O.D.	WBC-SEC.	48	48	48	80 F.T. IN.
MFG.	LAL9		R.R.	O.D.	WL-CC'S	10	8	88	DEPTH OF CEMENT GROUT
TYPE	T.C. CARBIDE		D.C.	O.D.	PH	7	9	9	77 F.T. IN.
SER. NO.	6027356R		R.R.	O.D.	SOLIDS%	1/2	1/2	1/2	WELL SCREEN IN HOLE
DEPTH OUT			D.C.	O.D.	TEMP.				
DEPTH IN	1580'		R.R.	O.D.	W/C	1/32	1/32	1/32	
TOTAL FTG.	220		D.C.						
TOTAL HRS.	28		R.R.						
BIT NO.	Slack Bits	TOTAL	202.35		Time	7:00	9:00	11:00	DEPTH OF GRAVEL
SIZE	BIT	WT. OF STRING	144290 LBS.		SURVEY INFORMATION				
MFG.	LAL9	WT. OF STRING LESS RODS	104380 LBS.		DEPTH OF SUR.	1700	DEVIATION	1/4"	DEPTH OF TRIM PIPE
TYPE		RPM	70-80		DEPTH OF SUR.		DEVIATION		
SER. NO.	?	HYD. WEIGHT ON BIT	500 LBS.		DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING
DEPTH OUT		AIR PRESSURE	370		DEPTH OF SUR.		DEVIATION		
DEPTH IN	1580'	ACTUAL WEIGHT ON BIT	30200 LBS.		DEPTH OF SUR.		DEVIATION		
TOTAL FTG.	220	Remarks:							
TOTAL HRS.	28								
12 Hrs. Booster 4 Hrs. Hauling Water 1/2 Hrs. Backhoe Hrs. 6" Pump (or 2)			Hrs. Extra Comp. 12 Hrs. Cement Hrs. Mud Pump 12 Hrs. Mud Tank			Sampling Performed by Lang Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Bill Rossi Hrs. 12/24 Quentin Hurtado Hrs. 12/24 Bill Brand Hrs. 12/24	
					***JUSTIFY HOURS (If Applies)*** Getting Fuel Chasing for Parts 1/2 Drive Time (after the 1st one hour)				
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes _____ No _____ ? _____									

SE ROA 54141

JA\_18279





LANG EXPLORATORY DAILY DRILLING REPORT RIG # **LM 300** DATE: **11/2/05**

Daily Start time: **12:00**  Midnight A.M.  Noon P.M. Daily Start time: **12:00**  Midnight A.M.  Noon P.M. PROJECT: # **1451** NAME: **URS**

Hole No. **KPW-1** Depth Today **Ø** Depth Yesterday **2020' T.D.** Total Drilled **Ø**

FROM	TO	ACTIVITY
11:45	12:00	Discuss Hole w/ Aaron M. Site (Safety & Equip.) Inspect SAFETY Meeting
12:00	2:45	TRIPPED OUT 7" RODS
2:45	5:00	TRIP OUT 9 5/8" & INTER TUBE
5:00	11:00	TRIPPED OUT B.H.A.
11:00	12:00	SET UP TO LOG HOLE

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	34
SIZE			STR.	O.D. F.T.	VISC.	SEC.		80	F.T. IN.
MFG.			D.C.	O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	PH			77	F.T. IN.
SER. NO.			D.C.	O.D. F.T.	SOLIDS%			WELL SCREEN IN HOLE	
DEPTH OUT			R.R.	O.D. F.T.	TEMP.				F.T. IN.
DEPTH IN			D.C.	O.D. F.T.				CASING IN HOLE	
TOTAL FTG.			R.R.	O.D. F.T.					F.T. IN.
TOTAL HRS.			D.C.					DEPTH OF GRAVEL	
			R.R.						F.T. IN.
BIT NO.			TOTAL					DEPTH OF TRIM PIPE	
SIZE									F.T. IN.
MFG.			WT. OF STRING	LBS.	SURVEY INFORMATION			DEPTH OF INTERMEDIATE CASING	
TYPE			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION			F.T. IN.
SER. NO.			RPM		DEPTH OF SUR.	DEVIATION			F.T. IN.
DEPTH OUT			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION			F.T. IN.
DEPTH IN			AIR MUD PRESSURE		DEPTH OF SUR.	DEVIATION			F.T. IN.
TOTAL FTG.			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION			F.T. IN.
TOTAL HRS.			Remarks:						

<input type="checkbox"/> Hrs. Booster <input type="checkbox"/> Hrs. Hoisting Water <input type="checkbox"/> Hrs. Backhoe <input type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cat <input type="checkbox"/> Hrs. Mud Pump <input checked="" type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	Bill Rossi Hrs. <b>12 3/4</b> COLENTIN HUERTADO Hrs. <b>12 3/4</b> BARRY HALL Hrs. <b>7</b>
***JUSTIFY HOURS (If Applies)*** <input type="checkbox"/> Getting Fuel <input type="checkbox"/> Chasing for Parts <input checked="" type="checkbox"/> Drive Time (after the 1st one hour)			

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?



LANG EXPLORATORY DAILY DRILLING REPORT RIG # LM 300 DATE: 11/3/05

Daily Start time: 12:00 (Midnight A.M. Noon P.M.) PROJECT #1451 NAME: URS

Hole No. KPW-1 Depth Today Depth Yesterday Total Drilled

FROM	TO	ACTIVITY
11:45	12:00	Discuss Hole ID/Annul M. Site Safety & Equip Inspect.
12:00	1:00	Final Setting Up To Run, Casing
1:00	12:00	Ran 10' Casing Bill. 83

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
31	3"	CENTRALIZERS			1	18"	BULL ROSE		
1		2" WIRE CLASPS							
30	2"x20.40'	PREGROUTED S. PIPE							
0	2"x20.40'	BLANK SANDER PIPE							
1	2"	SANDER PIPE BULL ROSE							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			MT	FT	WEIGHT			SURFACE PIPE IN HOLE	34
SIZE			STB. O.D.	F.T.	VISC. SEC.			80	F.T. IN.
MFG.			D.C. R.R.	O.D. F.T.	WL. CC'S			DEPTH OF CEMENT GROUT	77
TYPE			D.C. O.D.	F.T.	PH			77	F.T. IN.
SER. NO.			D.C. R.R.	O.D. F.T.	SOLIDS			WELL SCREEN IN HOLE	
DEPTH OUT			D.C. R.R.	O.D. F.T.	TEMP.				F.T. IN.
DEPTH IN			D.C. R.R.	O.D. F.T.				CASING IN HOLE	
TOTAL FTG.			D.C. R.R.						F.T. IN.
TOTAL HRS.			D.C. R.R.					DEPTH OF GRAVEL	

		WT. OF STRING		SURVEY INFORMATION			
SIZE		WT. OF STRING	LBS.	DEPTH OF SURF.	DEVIATION	DEPTH OF TRIM PIPE	
MFG.		WT. OF STRING LESS RODS	LBS.	DEPTH OF SURF.	DEVIATION	INTERMEDIATE CASING	
TYPE		SPH		DEPTH OF SURF.	DEVIATION		
SER. NO.		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SURF.	DEVIATION		
DEPTH OUT		AIR MUD PRESSURE		DEPTH OF SURF.	DEVIATION		
DEPTH IN		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SURF.	DEVIATION		
TOTAL FTG.		Remarks:					
TOTAL HRS.							

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Bill Rossi Hrs. 12/1  
 Operator's Signature: GUATEMA HERRERO Hrs. 12/4  
 Helper's Signature: BARRY HALL Hrs. 12/4

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ? \_\_\_\_\_





LANG EXPLORATORY DAILY DRILLING REPORT      FIG # LM-300      DATE: 11/4/05

Daily Start time: 12:00      Midnight A.M. / Noon P.M.      Daily Start time: 12:00      Midnight A.M. / Noon P.M.      PROJECT: #1451      NAME: URS

Hole No. KPW-1      Depth Today      Depth Yesterday      Total Drilled

FROM	TO	ACTIVITY
11:45	12:00	Discusses Hole W/ Aaron M. Site Safety & Equip Inspect.
12:00	5:00	Run 18" casing of LAND casing 2010
5:00	6:00	Set up To GRAVEL Pack
6:00	12:00	GRAVEL PACK <del>          </del>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
10	2"x20.40'	SOUNDER PIPE			941.98	18 5/8	LOWPRESS CASING		
4		ALIGNMENT TABS			1073.02	18 5/8	BLANK CASING		
6		LANDING TABS							
10	25 0018	GRAVEL SACKS							

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	34
SIZE			STR. O.D.	F.T.	VISC-SEC.			80	F.T. IN.
MFG.			D.C. R.R.	O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			D.C. O.D.	F.T.	PH				F.T. IN.
SER. NO.			D.C. R.R.	O.D. F.T.	SOLIDS%			WELL SCREEN IN HOLE	18 5/8
DEPTH OUT			D.C. R.R.	O.D. F.T.	TEMP.			941.98	F.T. IN.
DEPTH IN			D.C. R.R.	O.D. F.T.				CASING IN HOLE	1073.02
TOTAL FTG.			D.C. R.R.					1073.02	F.T. IN.
TOTAL HRS.			D.C. R.R.					DEPTH OF GRAVEL	
			TOTAL						F.T. IN.

		WT. OF STRING		LBS.		SURVEY INFORMATION				
BIT NO.						DEPTH OF SUR.		DEVIATION	-	DEPTH OF TRIM PIPE
SIZE						DEPTH OF SUR.		DEVIATION	-	F.T. IN.
MFG.						DEPTH OF SUR.		DEVIATION	-	INTERMEDIATE CASING
TYPE						DEPTH OF SUR.		DEVIATION	-	F.T. IN.
SER. NO.						DEPTH OF SUR.		DEVIATION	-	F.T. IN.
DEPTH OUT						DEPTH OF SUR.		DEVIATION	-	F.T. IN.
DEPTH IN						DEPTH OF SUR.		DEVIATION	-	F.T. IN.

TOTAL FTG.      TOTAL HRS.      Remarks:

___ Hrs. Booster <u>1</u> Hrs. Hauling Water ___ Hrs. Backhoe ___ Hrs. 6" Pump (or 2)	___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump ___ Hrs. Mud Tank	Sampling Performed by Lang Yes ___ No ___	Bill Rossi      Hrs. <u>12 3/4</u> Driver's Signature ROBERTO HURTADO      Hrs. <u>12 3/4</u> Helper's Signature BARRY HALL      Hrs. <u>12 3/4</u> Helper's Signature
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ? \_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <u>LM-300</u>		DATE: <u>11-5-05</u>				
Daily Start time: <u>12:00</u>		Midnight A.M. / Noon P.M.		Daily Start time: <u>12:00</u>		Midnight A.M. / Noon P.M.				
PROJECT: <u>#1451</u>				NAME: <u>URS</u>						
Hole No. <u>KPW-1</u>		Depth Today		Depth Yesterday		Total Drilled				
FROM	TO	ACTIVITY								
<u>11:45</u>	<u>12:00</u>	<u>Site safety and equip. insp. Discuss Able</u>								
<u>12:00</u>		<u>Work on unplugging NQ, trip out 500' NQ</u>								
	<u>10:00</u>	<u>unplug, and trip back to 1760'</u>								
<u>10:00</u>	<u>12:00</u>	<u>Gravel pack</u>								
Quantity		Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>4</u>		<u>small</u>	<u>Super Sacks Gravel</u>							
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION			
BIT NO.			BIT	F.T.	WEIGHT		SURFACE PIPE IN HOLE			
SIZE			STL	O.D. F.T.	VISC-SEC.		<u>80</u>		F.T.	<u>IN.</u>
MFG.			D.C.	O.D. F.T.	WL-CCB		DEPTH OF CEMENT GROUT			
TYPE			R.R.	O.D. F.T.	PH					
SER. NO.			D.C.	O.D. F.T.	SOLIDS%		WELL SCREEN IN HOLE			
DEPTH OUT			R.R.	O.D. F.T.	TEMP.		<u>941.98</u>		F.T.	<u>IN.</u>
DEPTH IN			D.C.	O.D. F.T.			CASING IN HOLE			
TOTAL FTG.			R.R.	O.D. F.T.			<u>1073.02</u>		F.T.	<u>IN.</u>
TOTAL HRS.			D.C.				DEPTH OF GRAVEL			
			R.R.							
BIT NO.			TOTAL							
SIZE			WT. OF STRING	LBS.	SURVEY INFORMATION		DEPTH OF TRIM PIPE			
MFG.			WT. OF STRING LESS HOOS	LBS.	DEPTH OF SUR.	DEVIATION	<u>1760</u>		F.T.	<u>IN.</u>
TYPE			NEW		DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING			
SER. NO.			HTD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION				
DEPTH OUT			AIR PRESSURE	PSIG	DEPTH OF SUR.	DEVIATION				
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION				
TOTAL FTG.			Remarks:							
TOTAL HRS.										
Hrs. Bobster		Hrs. Extra Comp.		Sampling Performed by Lang		<u>Dean Martinez</u> Hrs. <u>Mark Halstead</u> Hrs. <u>Harry Stahlheim</u> Hrs.		"JUSTIFY HOURS (If Applies)" <u>1/4</u> Getting Fuel <u>1/2</u> Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)		
<u>1</u> Hrs. Hauling Water		Hrs. Cat		Yes _____ No _____						
Hrs. Backhoe		Hrs. Mud Pump								
Hrs. 6" Pump (or 2)		Hrs. Mud Tank								
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes _____ No _____ ? _____										

SE ROA 54149

JA\_18287

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <u>L111-300</u>		DATE: <u>11/5/05</u>			
Daily Start time: <u>12:00</u>		Midnight A.M. <u>Noon P.M.</u>		Daily Start time: <u>12:00</u>		Midnight A.M. <u>Noon P.M.</u>			
PROJECT: <u>#1451</u>				NAME: <u>URS</u>					
Hole No. <u>KPW-1</u>		Depth Today		Depth Yesterday		Total Drilled			
FROM	TO	ACTIVITY							
<u>11:45</u>	<u>12:00</u>	<u>DISCUSS HOLE W/ AGROW M. S.I.E. SAFETY &amp; EQUIP INSPEC.</u>							
<u>12:00</u>	<u>12:00</u>	<u>GRAVEL PACK</u>							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name		
<u>1</u>	<u>100 LB</u>	<u>CHLORINATING GRANULES</u>			<u>1</u>	<u>18"</u>	<u>WATER COVER PATE</u>		
<u>2.5</u>	<u>3000#</u>	<u>6.9 GRAVEL SUPER SALS</u>							
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION		
BIT NO.			BIT	F.T.	WEIGHT		SURFACE PIPE IN HOLE		
SIZE			STB	O.D. F.T.	VISC. SEC.		<u>80</u>	<u>34</u>	
MFG.			D.C. R.R.	O.D. F.T.	WL. CC'S		F.T.	IN.	
TYPE			O.C. R.R.	O.D. F.T.	PH		DEPTH OF CEMENT GROUT		
SER. NO.			O.C. R.R.	O.D. F.T.	SOLES%		F.T.	IN.	
DEPTH OUT			D.C. R.R.	O.D. F.T.	TEMP.		WELL SCREEN IN HOLE		
DEPTH IN			O.C. R.R.	O.D. F.T.			<u>941.98</u>	<u>18 3/8</u>	
TOTAL FTG.			D.C. R.R.				F.T.	IN.	
TOTAL HRS.			O.C. R.R.				CASING IN HOLE		
							<u>1073.02</u>	<u>18 5/8</u>	
							F.T.	IN.	
BIT NO.			TOTAL				DEPTH OF GRAVEL		
SIZE							<u>1360</u>	<u>W.O</u>	
MFG.			WT. OF STRING	LBS.	SURVEY INFORMATION		DEPTH OF TRIM PIPE		
TYPE			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION	F.T.	IN.	
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION			
DEPTH OUT			AIR MUD PRESSURE		DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING		
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION	F.T.	IN.	
TOTAL FTG.			Remarks:						
TOTAL HRS.									
___ Hrs. Booster <u>3</u> Hrs. Hauling Water <u>1/2</u> Hrs. Backhoe ___ Hrs. 6" Pump (or 2)		___ Hrs. Extra Comp. ___ Hrs. Cat <u>2</u> Hrs. Mud Pump ___ Hrs. Mud Tank		Sampling Performed by Lang Yes ___ No ___		<u>Bill Ross</u> Hrs. <u>12 3/4</u> Driver's Signature <u>AGROVA TEL HURTADO</u> Hrs. <u>12 3/4</u> Helper's Signature <u>BARRY HALL</u> Hrs. <u>12 3/4</u>		***JUSTIFY HOURS (If Apples)*** ___ Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)	
CLIENT REP: _____				Was the hole(s) completed to desired depth? Yes ___ No ___ ?					

SE ROA 54150

JA\_18288

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <u>Lim-300</u>		DATE: <u>11-6-05</u>			
Daily Start time: <u>12:00</u>		Midnight A.M. Noon P.M.		Daily Start time: <u>12:00</u>		Midnight A.M. Noon P.M.			
PROJECT: <u>#1451</u>				NAME: <u>URS</u>					
Hole No. <u>KPW-1</u>		Depth Today		Depth Yesterday		Total Drilled			
FROM		TO		ACTIVITY					
<u>11:45</u>		<u>12:00</u>		<u>Site safety and equip. insp. Discuss Gravel packing</u>					
<u>12:00</u>		<u>12:00</u>		<u>Gravel Pack</u>					
Quantity		Size		Material Name		LANG CLIENT			
<u>2.0</u>		<u>Supersac</u>		<u>Gravel</u>					
Quantity		Size		Material Name		LANG CLIENT			
BIT RECORD		No.		DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.		BIT	F.T.	WEIGHT				SURFACE PIPE IN HOLE	
SIZE		STL	O.D. F.T.	VISC-SEC.				<u>80'</u>	F.T. IN.
MFG.		D.C.	R.R. O.D. F.T.	WLCC%				DEPTH OF CEMENT GROUT	
TYPE		D.C.	O.D. F.T.	PH					
SER. NO.		D.C.	R.R. O.D. F.T.	SOLIDS%				WELL SCREEN IN HOLE	<u>18 5/8</u>
DEPTH OUT		D.C.	R.R. O.D. F.T.	TEMP.				<u>941.98</u>	F.T. IN.
DEPTH IN		D.C.	R.R. O.D. F.T.					CASING IN HOLE	<u>18 5/8</u>
TOTAL FTG.		D.C.	R.R.					<u>1073.02</u>	F.T. IN.
TOTAL HRS.		D.C.	R.R.					DEPTH OF GRAVEL	
BIT NO.		TOTAL							
SIZE		WT. OF STRING	LBS.	SURVEY INFORMATION				DEPTH OF TRIM PIPE	
MFG.		WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION			<u>920'</u>	F.T. IN.
TYPE		RPM		DEPTH OF SUR.	DEVIATION			INTERMEDIATE CASING	
SER. NO.		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION				
DEPTH OUT		AIR PRESSURE MUD		DEPTH OF SUR.	DEVIATION				
DEPTH IN		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION				
TOTAL FTG.		Remarks:							
TOTAL HRS.									
___ Hrs. Booster <u>2</u> Hrs. Hauling Water ___ Hrs. Backhoe ___ Hrs. 6" Pump (or 2)		___ Hrs. Extra Comp. ___ Hrs. Cat ___ Hrs. Mud Pump ___ Hrs. Mud Tank		Sampling Performed by Lang  Yes ___ No ___		<u>Caron Martinez</u> Hrs. <u>Mike Halstead</u> Hrs. <u>Nancy Stalheim</u> Hrs.		***JUSTIFY HOURS (If Applies)*** ___ Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)	
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes ___ No ___ ? ___									

SE ROA 54151

JA\_18289

LANG EXPLORATORY DAILY DRILLING REPORT				RIG #	LM 300	DATE:	11/6/05			
Daily Start time:	12:00	Midnight A.M. Noon P.M.	Daily Start time:	12:00	Midnight A.M. Noon P.M.	PROJECT: #	1451			
				NAME:		URS				
Hole No.	Depth Today		Depth Yesterday		Total Drilled					
KPIW-1										
FROM	TO	ACTIVITY								
11:45	12:00	DISCUSS HOLE W/ AARON M. P.R. SAFETY & EQUIPMENT								
12:00	12:00	GRAVEL PACK								
Quantity		Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
15		3000*	SRI GRAVEL #10							
5 1/2		3000*	SRI GRAVEL 1/4 x 1/8							
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION			
BIT NO.			BIT	F.T.	WEIGHT		SURFACE PIPE IN HOLE			
SIZE			W.C.	O.D. F.T.	VISC. SEC.		80	F.T.	34	IN.
MFG.			D.C.	O.D. F.T.	WL-CC'S		DEPTH OF CEMENT GROUT			
TYPE			D.C.	O.D. F.T.	PH		F.T.		IN.	
SER. NO.			D.C.	O.D. F.T.	SOLIDS%		WELL SCREEN IN HOLE			
DEPTH OUT			D.C.	O.D. F.T.	TEMP.		941.98	F.T.	185	IN.
DEPTH IN			D.C.	O.D. F.T.			CASING IN HOLE			
TOTAL FTG.			D.C.				1073.02	F.T.	185	IN.
TOTAL HRS.			D.C.				DEPTH OF GRAVEL			
BIT NO.			TOTAL		SURVEY INFORMATION		F.T.		IN.	
SIZE			WT. OF STRAND	LBS.	DEPTH OF SUR.	DEVIATION	DEPTH OF TRIM PIPE			
MFG.			WT. OF STRAND LESS JOBS	LBS.	DEPTH OF SUR.	DEVIATION	460	F.T.	U.A	IN.
TYPE			RPM		DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING			
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION	F.T.		IN.	
DEPTH OUT			AIR PRESSURE		DEPTH OF SUR.	DEVIATION	F.T.		IN.	
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION	F.T.		IN.	
TOTAL FTG.			Remarks:							
TOTAL HRS.			6 x 9 COLORADO SILICA SAND		2010' - 900'					
			#10 SRI GRAVEL		900' - 592'					
			1/4 x 1/8 SRI GRAVEL		592' -					
Hrs. Booster			Hrs. Extra Comp.			Sampling Performed by Lang		Bill Rossi Driller's Signature BRUCE HURTADO Helper's Signature BARRY HALL		
2 Hrs. Hauling Water			Hrs. Cat			Yes _____ No _____		***JUSTIFY HOURS (If Applies)*** Getting Fuel Chasing for Parts 1/2 Drive Time (after the 1st one hour)		
1 Hrs. Backhoe			1/2 Hrs. Mud Pump							
Hrs. 6" Pump (or 2)			Hrs. Mud Tank							
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes _____ No _____ ?										

SE ROA 54152

JA\_18290

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LM-300 DATE: 11-7-05

Daily Start time: 12:00 Midnight A.M. Noon P.M. Daily Start time: 12:00 Midnight A.M. Noon P.M. PROJECT: # 1451 NAME: URS

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>KPW-1</u>			
FROM	TO	ACTIVITY	
<u>11:45</u>	<u>12:00</u>	<u>Site safety and equip. insp. Discuss Ade</u>	
<u>12:00</u>	<u>2:45</u>	<u>Gravel pack, Tag @ 412'</u>	
<u>2:45</u>	<u>3:30</u>	<u>Set up to trip in open ended</u>	
<u>3:30</u>	<u>3:45</u>	<u>Repair rods Put in roughnecks</u>	
<u>3:45</u>	<u>12:00</u>	<u>Trip in rods, cleaning mud @ 1200' and 1600', and bottom</u>	

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>5</u>	<u>1/4" 1/8"</u>	<u>Super Sack Gravel</u>							
<u>452304</u>									

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	R.K.	WEIGHT			SURFACE PIPE IN HOLE	34
SIZE			STB.	O.D. F.T.	YSG-SEC.			80	F.T. IN.
MFG.			D.C.	R.R. O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	PH				
SER. NO.			D.C.	R.R. O.D. F.T.	SOLIDS%			WELL SCREEN IN HOLE	18%
DEPTH OUT			D.C.	R.R. O.D. F.T.	TEMP.			941.98	F.T. IN.
DEPTH IN			D.C.	R.R. O.D. F.T.				CASING IN HOLE	107%
TOTAL FTG.			D.C.	R.R.				1073.02	F.T. IN.
TOTAL HRS.			D.C.	R.R.				DEPTH OF GRAVEL	
			TOTAL					412'	F.T. IN.
BIT NO.			WT. OF STRING		LBS.	SURVEY INFORMATION			
SIZE			WT. OF STRING LESS RODS		LBS.	DEPTH OF SUR.		DEPTH OF TRIM PIPE	
MFG.			RPM			DEPTH OF SUR.	DEVIATION	400'	F.T. IN.
TYPE			HYD. WEIGHT ON BIT		LBS.	DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING	
SER. NO.			AIR MUD PRESSURE			DEPTH OF SUR.	DEVIATION		
DEPTH OUT			ACTUAL WEIGHT ON BIT		LBS.	DEPTH OF SUR.	DEVIATION		
DEPTH IN			Remarks:						
TOTAL FTG.			<u>Coxa Co Colorado Silica Sand 2010-900</u>						
TOTAL HRS.			<u>#6 SRI Gravel 900'-592'</u>						
			<u>1/4" 1/8" SRI Gravel 592'-412'</u>						

<input type="checkbox"/> Hrs. Booster <input checked="" type="checkbox"/> 5 Hrs. Hauling Water <input type="checkbox"/> Hrs. Backhoe <input type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cal <input type="checkbox"/> Hrs. Mud Pump <input type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes <input type="checkbox"/> No <input type="checkbox"/>	Driver's Signature: <u>Caron Martinez</u> Helper's Signature: <u>Mike Holstead</u> Helper's Signature: <u>Darryl Stehlein</u> Helper's Signature: _____ ***JUSTIFY HOURS (If Applies)*** <input type="checkbox"/> Getting Fuel <input type="checkbox"/> Chasing for Parts <input checked="" type="checkbox"/> 1/2 Drive Time (after the 1st one hour)
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CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ?

LANG EXPLORATORY DAILY DRILLING REPORT				FIG # LM 300		DATE: 11/7/05			
Daily Start time: 12:00		Midnight A.M. Noon P.M.		Daily Start time: 12:00		Midnight A.M. Noon P.M.		PROJECT: #1451 NAME: URS	
Hole No. KPW-1		Depth Today		Depth Yesterday		Total Drilled			
FROM	TO	ACTIVITY							
11:45	12:00	DISCUSS HOLE W/ AARON M. SITE SAFETY & EQUIP. INSPEC.							
12:00	2:00	AIR LIFT MUD @ 2010' 300 GPM							
2:00	6:30	TRIP OUT 2020' 7" RODS							
6:30	7:00	SET UP TO GRAVEL PACK							
7:00	10:30	GRAVEL PACK TO 302'							
10:30	11:00	TRIP OUT 220' N.Q.							
11:00	12:00	SET UP TO TRIP IN SLAB							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
10	9A1	UNLEADED GASOLINE	K						
6	3000#	#6 SRI GRAVEL							
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	34
SIZE			STL.	O.D. F.T.	VISC-SEC.			80	F.T. IN.
MFG.			D.C.	R.R. O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	PH				
SER. NO.			D.C.	R.R. O.D. F.T.	SOLIDS%				
DEPTH OUT			D.C.	R.R. O.D. F.T.	TEMP.			WELL SCREEN IN HOLE	18 5/8
DEPTH IN			D.C.	R.R. O.D. F.T.				941.98	F.T. IN.
TOTAL FTG.			D.C.	R.R.				CASING IN HOLE	18 5/8
TOTAL HRS.			D.C.	R.R.				1073.02 F.T.	IN.
BIT NO.			TOTAL					DEPTH OF GRAVEL	#6
SIZE					SURVEY INFORMATION			302	F.T. IN.
MFG.			WT. OF STRING	LBS.	DEPTH OF SUR.	DEVIATION		DEPTH OF TRIM PIPE	
TYPE			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION			
SER. NO.			APN		DEPTH OF SUR.	DEVIATION		INTERMEDIATE CASING	F.T. IN.
DEPTH OUT			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION			
DEPTH IN			AIR PRESSURE		DEPTH OF SUR.	DEVIATION			
TOTAL FTG.			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION			
TOTAL HRS.			Remarks:						
			6" x 9" COLURADIX SILICA SAND 2010' - 900'						
			#6 SRI GRAVEL 900' - 592'						
			1" x 1/8" SRI GRAVEL 592' - 412'						
			#6 SRI GRAVEL 412' - 302'						
2	Hrs. Booster		Hrs. Extra Comp.		Sampling Performed by Lang		Bill Rossi Hrs. 13		
4	Hrs. Hauling Water		Hrs. Cat		Yes _____ No _____		Diller's Signature: GUERRIN HURTADO Hrs. 12 3/4		
	Hrs. Backhoe		Hrs. Mud Pump				Hopper's Signature: BARRY HALL Hrs. 12 3/4		
1/2	Hrs. 6" Pump (nr 2)	2	Hrs. Mud Tank				Hester's Signature: _____		
***JUSTIFY HOURS (If Applies)***									
1/4 Getting Fuel									
1/2 Chasing for Parts									
1/2 Drive Time (after the 1st one hour)									
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes _____ No _____ ? _____									

SE ROA 54154

JA\_18292

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LH-25A DATE: 11/8/05

Daily Start time: 12:00 Midnight A.M. Daily Noon P.M. Start time: 12:00 Midnight A.M. Noon P.M. PROJECT: 1451 NAME: URS

Hole No. HPW-1 Depth Today \_\_\_\_\_ Depth Yesterday \_\_\_\_\_ Total Drilled \_\_\_\_\_

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equip inspection</u>
<u>12:00</u>	<u>4:30</u>	<u>Trp in SWAB</u>
<u>4:30</u>		<u>Develop 2006 - 1990 @ 280 GPM</u>
		<u>1990 - 1970 @ 211 GPM</u>
		<u>1970 - 1950 @ 225 GPM</u>
		<u>1950 - 1930 @ 202 GPM</u>
		<u>1930 - 1910 @ 235 GPM</u>
		<u>1910 - 1890 @ 198 GPM</u>
	<u>12:00</u>	<u>1890 - 1880 @</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>16</u>	<u>gallons</u>	<u>untreated CFN E110</u>	<u>X</u>						
<u>16</u>	<u>gallons</u>	<u>untreated Chevron 400</u>	<u>X</u>						
<u>32</u>	<u>gallons</u>	<u>untreated Chevron Ely</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	<u>34</u>
SIZE			STR.	O.D. F.T.	VISC-SEC.			<u>80</u>	F.T. IN.
MFG.			D.C.	R.R. O.D. F.T.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	PH				
SER. NO.			D.C.	R.R. O.D. F.T.	SOLIDS%				F.T. IN.
DEPTH OUT			D.C.	R.R. O.D. F.T.	TEMP.			WELL SCREEN IN HOLE	<u>187</u>
DEPTH IN			D.C.	R.R. O.D. F.T.				<u>941.98</u>	F.T. IN.
TOTAL FTG.			D.C.	R.R.				CASING IN HOLE	<u>137</u>
TOTAL HRS.			D.C.	R.R.				<u>10730.2</u>	F.T. IN.
								DEPTH OF GRAVEL	
BIT NO.			TOTAL					<u>302</u>	F.T. IN.
SIZE			WT. OF STRING	LBS.	SURVEY INFORMATION			DEPTH OF TRIM PIPE	
MFG.			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.		DEVIATION		
TYPE			RPM		DEPTH OF SUR.		DEVIATION		F.T. IN.
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING
DEPTH OUT			AIR MUD PRESSURE		DEPTH OF SUR.		DEVIATION		F.T. IN.
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL FTG.			Remarks:						
TOTAL HRS.									

7 1/2 Hrs. Booster \_\_\_\_\_ Hrs. Extra Comp.  
 \_\_\_\_\_ Hrs. Hauling Water \_\_\_\_\_ Hrs. Cat  
3 Hrs. Backhoe \_\_\_\_\_ Hrs. Mud Pump  
4 Hrs. 6" Pump (or 2) 7 1/2 Hrs. Mud Tank

Sampling Performed by Lang Yes \_\_\_\_\_ No \_\_\_\_\_

Driver's Signature: Dak Jensen Hrs.  
 Helper's Signature: Chris Cowell Hrs.  
 \*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
3/4 Getting Fuel  
1/4 Chasing for Parts  
1/2 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_





LANG EXPLORATORY DAILY DRILLING REPORT RIG # 11-25A DATE: 11-9/05

Daily Start time: 12:00 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: W/S NAME: 1451

Hole No. KPW-1 Depth Today \_\_\_\_\_ Depth Yesterday \_\_\_\_\_ Total Drilled \_\_\_\_\_

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equip. inspection</u>
<u>12:00</u>	<u>12:15</u>	<u>Develop 1630-1610 @ 185 GPM</u>
<u>12:15</u>	<u>12:30</u>	<u>check oils &amp; grease equip.</u>
<u>12:30</u>		<u>Develop 1610-1590 @ 162 gpm 1450-1430 @ 128 gpm</u>
		<u>1590-1570 @ 144 gpm 1430-1410 @ 122 gpm</u>
		<u>1570-1550 @ 149 gpm 1410-1390 @ 119 gpm</u>
		<u>1550-1530 @ 139 gpm</u>
		<u>1530-1510 @ 146 gpm</u>
		<u>1590-1490 @ 142 gpm</u>
		<u>1490-1470 @ 142 gpm</u>
	<u>12:00</u>	<u>1470-1450 @ 129 gpm</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	
SIZE			STR.	O.D. F.T.	VISC.	SEC.		<u>80</u>	F.T. IN.
MFG.			D.C.	R.R. O.D. F.T.	WL.	CC'S		DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	PH				
SER. NO.			D.C.	R.R. O.D. F.T.	SOLIDS%				
DEPTH OUT			D.C.	R.R. O.D. F.T.	TEMP.			WELL SCREEN IN HOLE	
DEPTH IN			D.C.	R.R. O.D. F.T.				<u>941.92</u>	F.T. IN.
TOTAL FTG.			D.C.	R.R.				CASING IN HOLE	
TOTAL HRS.			D.C.	R.R.				<u>1022.02</u>	F.T. IN.
BIT NO.			TOTAL					DEPTH OF GRAVEL	
SIZE								<u>302</u>	F.T. IN.

		WT. OF STRING	LBS.	SURVEY INFORMATION			
SIZE		WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION	DEPTH OF TRIM PIPE	
MFG.		RPM		DEPTH OF SUR.	DEVIATION		
TYPE		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
SER. NO.		AIR PRESSURE		DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING	
DEPTH OUT		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
DEPTH IN		Remarks:					
TOTAL FTG.							
TOTAL HRS.							

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang Yes \_\_\_\_\_ No \_\_\_\_\_

Dir. Signature: Dale Jensen  
 Hdr. Signature: Don W. Isom  
 Helper's Signature: Chris Carroll

\*\*\*JUSTIFY HOURS (if Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK-25P DATE: 11-9-05

Daily Start time: 11:45 Midnight A.M. / Noon P.M. PROJECT: URS 1451

Hole No. KPW-1 Depth Today \_\_\_\_\_ Depth Yesterday \_\_\_\_\_ Total Drilled \_\_\_\_\_

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Discuss Hole, Check Fluids, Safety Insp</u>
<u>12:00</u>	<u>12:00</u>	<u>Develop up to</u>
		<u>[REDACTED]</u>
		<u>1250 @ 70</u>
		<u>1230 @ 59</u>
		<u>1370 @ 114 gpm</u>
		<u>1210 @ 61</u>
		<u>1350 @ 116</u>
		<u>1190 @ 85</u>
		<u>1330 @ 114</u>
		<u>1170 @ 71</u>
		<u>1310 @ 112</u>
		<u>1150 @ 78 gpm</u>
		<u>1290 @ 108</u>
		<u>1270 @ 90</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.			BIT	P.L.	WEIGHT			SURFACE PIPE IN HOLE
SIZE			S.T.R.	O.D. P.L.	VISC-SEC.			F.T. IN.
MFG.			D.C.	R.R. O.D. P.L.	WL-CC'S			DEPTH OF CEMENT GROUT
TYPE			D.C.	O.D. P.L.	pH			F.T. IN.
SER. NO.			D.C.	R.R. O.D. P.L.	SOLIDS%			WELL SCREEN IN HOLE
DEPTH OUT			D.C.	R.R. O.D. P.L.	TEMP.			F.T. IN.
DEPTH IN			D.C.	R.R. O.D. P.L.				CASING IN HOLE
TOTAL FTG.			D.C.	R.R.				F.T. IN.
TOTAL HRS.			D.C.	R.R.				F.T. IN.
BIT NO.			TOTAL					DEPTH OF GRAVEL
SIZE								F.T. IN.

		WT. OF STRING		SURVEY INFORMATION			
MFG.		WT. OF STRING	LBS.	DEPTH OF SUR.	DEVIATION	DEPTH OF TRIM PIPE	F.T. IN.
TYPE		WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.	DEVIATION	INTERMEDIATE CASING	F.T. IN.
SER. NO.		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
DEPTH OUT		AIR PRESSURE MUD		DEPTH OF SUR.	DEVIATION		
DEPTH IN		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.	DEVIATION		
TOTAL FTG.		Remarks:					
TOTAL HRS.							

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cal  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump       Hrs. Mud Tank

Sampling Performed by Lang: Yes \_\_\_\_\_ No \_\_\_\_\_

Driver's Signature: Denny Robblee  
 Inspector's Signature: Mike Halstead  
 Helper's Signature: Barry Hall

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ 7 \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT				RIG # <u>14-25P</u>		DATE: <u>11/10/05</u>			
Daily Start time: <u>12:00</u>		Midnight A.M. / Noon P.M.		Daily Start time: <u>12:00</u>		Midnight A.M. / Noon P.M.			
PROJECT: <u>URS</u>				NAME: <u>1451</u>					
Hole No. <u>1cpw-1</u>		Depth Today		Depth Yesterday		Total Drilled			
FROM	TO	ACTIVITY							
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equip inspection</u>							
<u>12:00</u>	<u>12:15</u>	<u>check oils &amp; grease equip</u>							
<u>12:15</u>		<u>Develop 1150-1130 @ 63 gpm</u>							
		<u>1130-1110 @ 60 gpm</u>							
		<u>1110-1090 @ 57 gpm</u>							
		<u>1090-1070 @ 39 gpm</u>							
	<u>4:45</u>	<u>Running out of water</u>							
<u>4:45</u>	<u>12:00</u>	<u>Dry Swab in Aqua Clear From 1020' - 1310'</u>							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name		
<u>5</u>	<u>1/2"</u>	<u>Agua Clear</u>	<u>X</u>						
BIT RECORD		No.		DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.		BIT	F.L.	WEIGHT				SURFACE PIPE IN HOLE	<u>34</u>
SIZE		STR.	O.D. F.L.	VISC-SEC.				<u>80'</u> F.T. IN.	
MFG.		D.C.	O.D. F.L.	WL-CC'S				DEPTH OF CEMENT GROUT	
TYPE		R.R.	O.D. F.L.	pH					
SER. NO.		D.C.	O.D. F.L.	SOLIDS%					
DEPTH OUT		R.R.	O.D. F.L.	TEMP.				WELL SCREEN IN HOLE	<u>18</u>
DEPTH IN		D.C.	O.D. F.L.					<u>941.92</u> F.T. IN.	
TOTAL FTG.		R.R.	O.D. F.L.					CASING IN HOLE	<u>18</u>
TOTAL HRS.		D.C.	O.D. F.L.					<u>1073.02</u> F.T. IN.	
		R.R.	O.D. F.L.					DEPTH OF GRAVEL	
		TOTAL						<u>302</u> F.T. IN.	
BIT NO.		WT. OF STRING	LBS.	SURVEY INFORMATION				DEPTH OF TRIM PIPE	
SIZE		WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.		DEVIATION			
MFG.				DEPTH OF SUR.		DEVIATION			
TYPE		RPM		DEPTH OF SUR.		DEVIATION			
SER. NO.		HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		INTERMEDIATE CASING	
DEPTH OUT		AIR PRESSURE		DEPTH OF SUR.		DEVIATION			
DEPTH IN		ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION			
TOTAL FTG.		Remarks:							
TOTAL HRS.									
Hrs. Booster		Hrs. Extra Comp		Sampling Performed by Lang		<u>Dale Jensen</u> Hrs. <small>Driller's Signature</small> <u>Ron Wilson</u> Hrs. <small>Helper's Signature</small> <u>Chris Cavell</u> Hrs. <small>Helper's Signature</small>			
<u>1</u> Hrs. Hauling Water				Yes	No	***JUSTIFY HOURS (If Applies)***			
<u>2</u> Hrs. Backhoe						Getting Fuel			
<u>2</u> Hrs. 6" Pump (or 2)		<u>7 1/2</u> Hrs. Mud Tank				Chasing for Parts			
						Drive Time (after the 1st one hour)			
CLIENT REP: _____ Was the hole(s) completed to desired depth? Yes _____ No _____ ? _____									

SE ROA 54159

JA\_18297

LANG EXPLORATORY DAILY DRILLING REPORT				RIG #	DATE:				
Daily Start time: 12:00		Midnight A.M. / Noon P.M.		PROJECT: 1451					
Daily Start time: 12:00		Midnight A.M. / Noon P.M.		NAME: UTS					
Hole No.	Depth Today	Depth Yesterday	Total Drilled						
Kpw-1									
FROM	TO	ACTIVITY							
11:45	12:00	Site Safety & Equip. Inspection							
12:00	6:30	Dry SWAB in aqua clear 1570' - 1310'							
6:30	9:30	Dry SWAB back to Bottom @ 5 minutes a Rod							
9:30	12:00	Develop @ 2000 - 1990 @ 250 GPM							
		1990 - 1970 @ 232 GPM							
Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
14	gallons	Unleaded	X						
2	gallons	Aqua Clear PFD	X						
BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.F.	WEIGHT			SURFACE PIPE IN HOLE	34
SIZE			S.T.B.	O.D. F.F.	VISC.-SEC.			80'	F.T. IN.
MFG.			G.C.	R.R. O.D. F.F.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			G.C.	O.D. F.F.	PH				
SER. NO.			G.C.	R.R. O.D. F.F.	SOLIDS%			WELL SCREEN IN HOLE	18
DEPTH OUT			G.C.	R.R. O.D. F.F.	TEMP.			941.92	F.T. IN.
DEPTH IN			G.C.	R.R. O.D. F.F.				CASING IN HOLE	18
TOTAL FTG.			G.C.	R.R.				107.302	F.T. IN.
TOTAL HRS.			G.C.	R.R.				DEPTH OF GRAVEL	
BIT NO.			TOTAL					302	F.T. IN.
SIZE			WT. OF STRING	LB.	SURVEY INFORMATION			DEPTH OF TRIM PIPE	
MFG.			WT. OF STRING LESS RODS	LB.	DEPTH OF SURF.	DEVIATION			
TYPE			RPM		DEPTH OF SURF.	DEVIATION			
SER. NO.			HYD. WEIGHT ON BIT	LB.	DEPTH OF SURF.	DEVIATION		INTERMEDIATE CASING	F.T. IN.
DEPTH OUT			AIR PRESSURE		DEPTH OF SURF.	DEVIATION			
DEPTH IN			ACTUAL WEIGHT ON BIT	LB.	DEPTH OF SURF.	DEVIATION			
TOTAL FTG.			Remarks:						
TOTAL HRS.									
2 1/2 Hrs. Booster 2 Hrs. Hauling Water 2 Hrs. Backhoe 1 Hrs. 6" Pump (or 2)			Hrs. Extra Comp. Hrs. Cat Hrs. Mud Pump 6 1/2 Hrs. Mud Tank			Sampling Performed by Lang Yes _____ No _____		Dale Jensen Dick's Signature Ann Wilson Helen's Signature Chris Cowell Heber's Signature	
CLIENT REP: _____			Was the hole(s) completed to desired depth? Yes _____ No _____ ? _____						

SE ROA 54160

JA\_18298

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LK-25P DATE: 11-11-05

Daily Start time: 11:45 (Midnight A.M. / Noon P.M.) PROJECT NAME: URS 1451

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>KDU-1</u>			

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Discuss Hble, Check Fluids, SAFETY Insp.</u>
<u>12:00</u>	<u>1:45</u>	<u>START Developing @ 1970</u>
<u>1:45</u>	<u>2:30</u>	<u>Work on Blue Pump - change out</u>
<u>2:30</u>	<u>12:00</u>	<u>Continue Developing</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>1</u>	<u>5</u>	<u>SuperSack Sand</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD		WELL CONSTRUCTION	
BIT NO.			BIT	F.L.	WEIGHT			SURFACE PIPE IN HOLE
SIZE			STB.	O.D. F.L.	VISC-SEC.			F.T. IN.
MFG.			D.C.	O.D. F.L.	WL-CCR			DEPTH OF CEMENT GROUT
TYPE			R.L.	O.D. F.L.	PH			F.T. IN.
SER. NO.			D.C.	O.D. F.L.	SOLIDS%			WELL SCREEN IN HOLE
DEPTH OUT			R.L.	O.D. F.L.	TEMP.			F.T. IN.
DEPTH IN			D.C.	O.D. F.L.				CASING IN HOLE
TOTAL FTG.			R.L.	O.D. F.L.				F.T. IN.
TOTAL HRS.			D.C.	O.D. F.L.				DEPTH OF GRAVEL
			R.L.	O.D. F.L.				301.83 F.T. IN.
BIT NO.			TOTAL		SURVEY INFORMATION			DEPTH OF TRIM PIPE
SIZE					WC OF STRING	LBS.		F.T. IN.
MFG.					WT. OF STRING LESS ROOS	LBS.		INTERMEDIATE CASING
TYPE					DEPTH OF SUR.			F.T. IN.
SER. NO.					DEPTH OF SUR.			
DEPTH OUT					DEPTH OF SUR.			
DEPTH IN					DEPTH OF SUR.			
TOTAL FTG.					DEPTH OF SUR.			
TOTAL HRS.					DEPTH OF SUR.			

Remarks: Gravel pack Tagged @ 319' Added 1 SuperSack & Retagged @ 301.83

Hrs. Booster       Hrs. Extra Comp.  
 Hrs. Hauling Water       Hrs. Cat  
 Hrs. Backhoe       Hrs. Mud Pump  
 Hrs. 6" Pump (or 2)       Hrs. Mud Tank

Sampling Performed by Lang: Yes  No

Driller's Signature: Denny Robbler  
 Helper's Signature: Mike Holstead  
 Helper's Signature: Sally Hall

\*\*\*JUSTIFY HOURS (If Applies)\*\*\*  
 Getting Fuel  
 Chasing for Parts  
 Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes  No  ? \_\_\_\_\_

LANG EXPLORATORY DAILY DRILLING REPORT RIG # LH-25P DATE: 11/12/05

Daily Start time: 11:45 Midnight A.M. / Noon P.M. Daily Start time: 12:00 Midnight A.M. / Noon P.M. PROJECT: 1451 NAME: URS

Hole No.	Depth Today	Depth Yesterday	Total Drilled
<u>Kpw-1</u>			
FROM	TO	ACTIVITY	
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equip. inspections</u>	
<u>12:00</u>	<u>12:15</u>	<u>Develop 1710-1690 @ 174 gpm 1530-1530 @ 150 gpm</u>	
<u>12:15</u>		<u>1690-1670 @ 205 gpm 1530-1510 @ 130 gpm</u>	
		<u>1670-1650 @ 178 gpm 1510-1490 @ 137 gpm</u>	
		<u>1650-1630 @ 175 gpm 1490-1470 @ gpm</u>	
		<u>1630-1610 @ 162 gpm</u>	
		<u>1610-1590 @ 154 gpm</u>	
		<u>1590-1570 @ 162 gpm</u>	
		<u>1570-1550 @ 162 gpm</u>	
<u>(7:30)</u>	<u>10:30</u>	<u>Cement 301 - ?</u>	

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>9</u>	<u>Super Sxx</u>	<u>Cement</u>	<u>X</u>						
<u>11</u>	<u>50#</u>	<u>Calcium</u>	<u>X</u>						
<u>100</u>	<u>gallons</u>	<u>Clear Diesel</u>	<u>X</u>						
<u>8</u>	<u>gallons</u>	<u>unlabeled</u>	<u>X</u>						
<u>7</u>	<u>50#</u>	<u>Fr. Hole plug</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.L.	WEIGHT			SURFACE PIPE IN HOLE	34
SIZE			STR.	O.D. F.L.	VISC. SEC.			80'	F.T. IN.
MFG.			O.C.	R.R. O.D. F.L.	WL-CC'S			DEPTH OF CEMENT GROUT	
TYPE			O.C.	O.D. F.L.	PH				
SER. NO.			O.C.	R.R. O.D. F.L.	SOLIDS%				
DEPTH OUT			O.C.	R.R. O.D. F.L.	TEMP.			WELL SCREEN IN HOLE	18
DEPTH IN			O.C.	R.R. O.D. F.L.				941.92 F.T.	IN.
TOTAL FTG.			O.C.	R.R.				CASING IN HOLE	18
TOTAL HRS.			O.C.	R.R.				1072.02 F.T.	IN.
								DEPTH OF GRAVEL	
BIT NO.			TOTAL					302	F.T. IN.
SIZE			WT. OF STRING	LBS.	SURVEY INFORMATION			DEPTH OF TRIM PIPE	
MFG.			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.		DEVIATION		
TYPE			RPM		DEPTH OF SUR.		DEVIATION		
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		
DEPTH OUT			AIR PRESSURE		DEPTH OF SUR.		DEVIATION		
DEPTH IN			MUD		DEPTH OF SUR.		DEVIATION		
TOTAL FTG.			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL HRS.			REMARKS:					INTERMEDIATE CASING	F.T. IN.

<u>9 1/4</u> Hrs. Booster	___ Hrs. Extra Comp.	Sampling Performed by Lang Yes ___ No ___	<u>Dale Jensen</u> Hrs.
<u>1</u> Hrs. Hauling Water	___ Hrs. Cat		<u>Ann Wilson</u> Hrs.
<u>2</u> Hrs. Backhoe	___ Hrs. Mud Pump		<u>Chris Cowell</u> Hrs.
<u>4</u> Hrs. 6" Pump (or 2)	<u>3</u> Hrs. Mud Tank		Helper's Signature
			***JUSTIFY HOURS (If Applies)*** <u>1/2</u> Getting Fuel ___ Chasing for Parts <u>1/2</u> Drive Time (after the 1st one hour)

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_ No \_\_\_ ?





LANG EXPLORATORY DAILY DRILLING REPORT RIG # 2K-25P DATE: 10/13/05

Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) Daily Start time: 12:00 (Midnight A.M. / Noon P.M.) PROJECT: 1431 NAME: Stoller

Hole No. KPW-1 Depth Today \_\_\_\_\_ Depth Yesterday \_\_\_\_\_ Total Drilled \_\_\_\_\_

FROM	TO	ACTIVITY
<u>11:45</u>	<u>12:00</u>	<u>Site Safety &amp; Equip. inspection</u>
<u>12:00</u>	<u>12:30</u>	<u>Develop 1250-1230'</u>
<u>12:30</u>	<u>12:45</u>	<u>Chalk outs &amp; grease pump</u>
<u>12:45</u>	<u>1:</u>	<u>Develop 1230' - 1210' @ 80 gpm 1150-1130 47 gpm</u>
		<u>1210' - 1190' @ 57 gpm 1130-1110 41 gpm</u>
		<u>1190' - 1170' @ 46 gpm 1110-1090 34 gpm</u>
	<u>8:45</u>	<u>1170' - 1150' @ 44 gpm 1090-1070</u>
<u>8:45</u>	<u>12:00</u>	<u>Trip out SWAB, Pull out landing plates &amp; 34"</u>

Quantity	Size	Material Name	LANG	CLIENT	Quantity	Size	Material Name	LANG	CLIENT
<u>15</u>	<u>50#</u>	<u>Quick rate</u>	<u>X</u>						
<u>12</u>	<u>gallons</u>	<u>unleaded</u>	<u>X</u>						

BIT RECORD		No.	DRILLING ASSEM. (at end of hour)		MUD RECORD			WELL CONSTRUCTION	
BIT NO.			BIT	F.T.	WEIGHT			SURFACE PIPE IN HOLE	
SIZE			S.T.R.	O.D. F.T.	VISC. SEC.			<u>80'</u>	F.T. IN.
MFG.			D.C.	O.D. F.T.	WL. CC'S			DEPTH OF CEMENT GROUT	
TYPE			D.C.	O.D. F.T.	PH			<u>302-0</u>	F.T. IN.
SER. NO.			R.R.	O.D. F.T.	SOLIDS%			WELL SCREEN IN HOLE	
DEPTH OUT			D.C.	O.D. F.T.	TEMP.			<u>941.92</u>	F.T. IN.
DEPTH IN			R.R.	O.D. F.T.				CASING IN HOLE	
TOTAL FTG.			D.C.					<u>1072.02</u>	F.T. IN.
TOTAL HRS.			R.R.					DEPTH OF GRAVEL	
BIT NO.			TOTAL					<u>302</u>	F.T. IN.
SIZE			WT. OF STRING	LBS.	SURVEY INFORMATION			DEPTH OF TRIM PIPE	
MFG.			WT. OF STRING LESS RODS	LBS.	DEPTH OF SUR.		DEVIATION		
TYPE			RPM		DEPTH OF SUR.		DEVIATION		
SER. NO.			HYD. WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		
DEPTH OUT			AIR MUD PRESSURE		DEPTH OF SUR.		DEVIATION	INTERMEDIATE CASING	
DEPTH IN			ACTUAL WEIGHT ON BIT	LBS.	DEPTH OF SUR.		DEVIATION		
TOTAL FTG.			Remarks:						
TOTAL HRS.									

<input type="checkbox"/> Hrs. Booster <input type="checkbox"/> Hrs. Hoisting Water <input checked="" type="checkbox"/> Hrs. Backhoe <input checked="" type="checkbox"/> Hrs. 6" Pump (or 2)	<input type="checkbox"/> Hrs. Extra Comp. <input type="checkbox"/> Hrs. Cal <input type="checkbox"/> Hrs. Mud Pump <input checked="" type="checkbox"/> Hrs. Mud Tank	Sampling Performed by Lang Yes _____ No _____	Driver's Signature: <u>Dale Jensen</u> Helper's Signature: <u>Ray Wilson</u> Helper's Signature: <u>Chris Powell</u>
***JUSTIFY HOURS (If Applies)*** <input type="checkbox"/> Getting Fuel <input type="checkbox"/> Chasing for Parts <input checked="" type="checkbox"/> 1/2 Drive Time (after the 1st one hour)			

CLIENT REP: \_\_\_\_\_ Was the hole(s) completed to desired depth? Yes \_\_\_\_\_ No \_\_\_\_\_ ? \_\_\_\_\_



SE ROA 54166

JA\_18304

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/11/2005 15:59:23.937	0.000	990.445	0.000
12/11/2005 15:59:31.137	0.120	994.467	4.022
12/11/2005 15:59:38.937	0.250	999.554	9.109
12/11/2005 15:59:46.737	0.380	1,007.593	17.148
12/11/2005 15:59:55.137	0.520	1,017.684	27.239
12/11/2005 16:00:04.137	0.670	1,030.677	40.232
12/11/2005 16:00:13.737	0.830	1,045.976	55.531
12/11/2005 16:00:23.337	0.990	1,062.458	72.013
12/11/2005 16:00:34.137	1.170	1,075.445	85.000
12/11/2005 16:00:45.537	1.360	1,086.886	96.441
12/11/2005 16:00:57.537	1.560	1,095.416	104.971
12/11/2005 16:01:10.137	1.770	1,103.067	112.622
12/11/2005 16:01:23.337	1.990	1,108.874	118.429
12/11/2005 16:01:37.737	2.230	1,110.540	120.095
12/11/2005 16:01:52.737	2.480	1,114.208	123.763
12/11/2005 16:02:08.337	2.740	1,117.539	127.094
12/11/2005 16:02:25.137	3.020	1,118.505	128.060
12/11/2005 16:02:43.137	3.320	1,121.455	131.010
12/11/2005 16:03:01.737	3.630	1,122.795	132.350
12/11/2005 16:03:22.137	3.970	1,125.696	135.251
12/11/2005 16:03:43.137	4.320	1,126.618	136.173
12/11/2005 16:04:05.337	4.690	1,128.806	138.361
12/11/2005 16:04:29.337	5.090	1,129.715	139.270
12/11/2005 16:04:54.537	5.510	1,131.351	140.906
12/11/2005 16:05:20.937	5.950	1,131.066	140.621
12/11/2005 16:05:49.137	6.420	1,133.567	143.122
12/11/2005 16:06:19.137	6.920	1,134.507	144.062
12/11/2005 16:06:50.937	7.450	1,134.964	144.519
12/11/2005 16:07:24.537	8.010	1,136.671	146.226
12/11/2005 16:08:00.537	8.610	1,137.433	146.988
12/11/2005 16:08:36.537	9.210	1,138.884	148.439
12/11/2005 16:09:18.537	9.910	1,140.021	149.576
12/11/2005 16:10:00.537	10.610	1,140.503	150.058
12/11/2005 16:10:42.537	11.310	1,141.053	150.608
12/11/2005 16:11:30.537	12.110	1,141.684	151.239
12/11/2005 16:12:24.537	13.010	1,142.961	152.516
12/11/2005 16:13:12.537	13.810	1,143.573	153.128
12/11/2005 16:14:12.537	14.810	1,144.358	153.913
12/11/2005 16:15:12.537	15.810	1,144.294	153.849
12/11/2005 16:16:12.537	16.810	1,145.185	154.740
12/11/2005 16:17:18.537	17.910	1,145.986	155.541
12/11/2005 16:18:30.537	19.110	1,146.276	155.831
12/11/2005 16:19:48.537	20.410	1,146.863	156.418
12/11/2005 16:21:06.537	21.710	1,147.443	156.998
12/11/2005 16:22:30.537	23.110	1,147.419	156.974
12/11/2005 16:24:00.537	24.610	1,147.634	157.189
12/11/2005 16:25:36.537	26.210	1,148.869	158.424
12/11/2005 16:27:12.537	27.810	1,148.267	157.822
12/11/2005 16:29:00.537	29.610	1,148.882	158.437
12/11/2005 16:30:54.537	31.510	1,149.692	159.247

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/11/2005 16:32:54.537	33.510	1,150.329	159.884
12/11/2005 16:35:00.537	35.610	1,150.228	159.783
12/11/2005 16:37:12.537	37.810	1,151.076	160.631
12/11/2005 16:39:36.537	40.210	1,150.884	160.439
12/11/2005 16:42:06.537	42.710	1,151.694	161.249
12/11/2005 16:44:42.537	45.310	1,151.816	161.371
12/11/2005 16:47:30.537	48.110	1,152.141	161.696
12/11/2005 16:50:30.537	51.110	1,152.201	161.756
12/11/2005 16:53:36.537	54.210	1,152.303	161.858
12/11/2005 16:57:00.537	57.610	1,152.869	162.424
12/11/2005 17:00:30.537	61.110	1,152.958	162.513
12/11/2005 17:04:12.537	64.810	1,153.234	162.789
12/11/2005 17:08:12.537	68.810	1,152.590	162.145
12/11/2005 17:12:24.537	73.010	1,153.002	162.557
12/11/2005 17:16:48.537	77.410	1,154.218	163.773
12/11/2005 17:21:30.537	82.110	1,153.868	163.423
12/11/2005 17:26:30.537	87.110	1,154.433	163.988
12/11/2005 17:31:48.537	92.410	1,154.173	163.728
12/11/2005 17:37:24.537	98.010	1,154.510	164.065
12/11/2005 17:43:24.537	104.010	1,155.865	165.420
12/11/2005 17:49:24.537	110.010	1,155.175	164.730
12/11/2005 17:56:24.537	117.010	1,155.929	165.484
12/11/2005 18:03:24.537	124.010	1,155.858	165.413
12/11/2005 18:10:24.537	131.010	1,156.382	165.937
12/11/2005 18:18:24.537	139.010	1,156.467	166.022
12/11/2005 18:27:24.537	148.010	1,157.189	166.744
12/11/2005 18:35:24.537	156.010	1,156.714	166.269
12/11/2005 18:45:24.537	166.010	1,157.110	166.665
12/11/2005 18:55:24.537	176.010	1,156.951	166.506
12/11/2005 19:05:24.537	186.010	1,157.892	167.447
12/11/2005 19:15:24.537	196.010	1,156.984	166.539
12/11/2005 19:25:24.537	206.010	1,157.489	167.044
12/11/2005 19:35:24.537	216.010	1,157.752	167.307
12/11/2005 19:45:24.537	226.010	1,157.794	167.349
12/11/2005 19:55:24.537	236.010	1,159.065	168.620
12/11/2005 20:05:24.537	246.010	1,158.784	168.339
12/11/2005 20:15:24.537	256.010	1,159.414	168.969
12/11/2005 20:25:24.537	266.010	1,159.595	169.150
12/11/2005 20:35:24.537	276.010	1,159.631	169.186
12/11/2005 20:45:24.537	286.010	1,159.318	168.873
12/11/2005 20:55:24.537	296.010	1,160.410	169.965
12/11/2005 21:05:24.537	306.010	1,160.317	169.872
12/11/2005 21:15:24.537	316.010	1,159.985	169.540
12/11/2005 21:25:24.537	326.010	1,160.223	169.778
12/11/2005 21:35:24.537	336.010	1,160.666	170.221
12/11/2005 21:45:24.537	346.010	1,160.358	169.913
12/11/2005 21:55:24.537	356.010	1,160.196	169.751
12/11/2005 22:05:24.537	366.010	1,159.588	169.143
12/11/2005 22:15:24.537	376.010	1,160.883	170.438
12/11/2005 22:25:24.537	386.010	1,160.862	170.417

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/11/2005 22:35:24.537	396.010	1,159.835	169.390
12/11/2005 22:45:24.537	406.010	1,161.363	170.918
12/11/2005 22:55:24.537	416.010	1,160.945	170.500
12/11/2005 23:05:24.537	426.010	1,160.951	170.506
12/11/2005 23:15:24.537	436.010	1,161.829	171.384
12/11/2005 23:25:24.537	446.010	1,161.580	171.135
12/11/2005 23:35:24.537	456.010	1,161.396	170.951
12/11/2005 23:45:24.537	466.010	1,161.283	170.838
12/11/2005 23:55:24.537	476.010	1,161.404	170.959
12/12/2005 0:05:24.537	486.010	1,162.598	172.153
12/12/2005 0:15:24.537	496.010	1,162.049	171.604
12/12/2005 0:25:24.537	506.010	1,162.087	171.642
12/12/2005 0:35:24.537	516.010	1,162.839	172.394
12/12/2005 0:45:24.537	526.010	1,161.709	171.264
12/12/2005 0:55:24.537	536.010	1,162.178	171.733
12/12/2005 1:05:24.537	546.010	1,161.706	171.261
12/12/2005 1:15:24.537	556.010	1,162.340	171.895
12/12/2005 1:25:24.537	566.010	1,162.294	171.849
12/12/2005 1:35:24.537	576.010	1,162.631	172.186
12/12/2005 1:45:24.537	586.010	1,162.238	171.793
12/12/2005 1:55:24.537	596.010	1,162.222	171.777
12/12/2005 2:05:24.537	606.010	1,162.348	171.903
12/12/2005 2:15:24.537	616.010	1,162.801	172.356
12/12/2005 2:25:24.537	626.010	1,162.983	172.538
12/12/2005 2:35:24.537	636.010	1,162.280	171.835
12/12/2005 2:45:24.537	646.010	1,163.520	173.075
12/12/2005 2:55:24.537	656.010	1,163.223	172.778
12/12/2005 3:05:24.537	666.010	1,162.961	172.516
12/12/2005 3:15:24.537	676.010	1,163.334	172.889
12/12/2005 3:25:24.537	686.010	1,162.869	172.424
12/12/2005 3:35:24.537	696.010	1,162.411	171.966
12/12/2005 3:45:24.538	706.010	1,163.309	172.864
12/12/2005 3:55:24.537	716.010	1,163.594	173.149
12/12/2005 4:05:24.537	726.010	1,163.910	173.465
12/12/2005 4:15:24.537	736.010	1,163.250	172.805
12/12/2005 4:25:24.537	746.010	1,163.304	172.859
12/12/2005 4:35:24.537	756.010	1,163.214	172.769
12/12/2005 4:45:24.537	766.010	1,162.760	172.315
12/12/2005 4:55:24.537	776.010	1,163.649	173.204
12/12/2005 5:05:24.537	786.010	1,163.282	172.837
12/12/2005 5:15:24.537	796.010	1,163.817	173.372
12/12/2005 5:25:24.537	806.010	1,163.937	173.492
12/12/2005 5:35:24.537	816.010	1,163.022	172.577
12/12/2005 5:45:24.537	826.010	1,163.320	172.875
12/12/2005 5:55:24.537	836.010	1,164.051	173.606
12/12/2005 6:05:24.537	846.010	1,164.190	173.745
12/12/2005 6:15:24.537	856.010	1,164.185	173.740
12/12/2005 6:25:24.537	866.010	1,164.018	173.573
12/12/2005 6:35:24.537	876.010	1,163.790	173.345
12/12/2005 6:45:24.537	886.010	1,164.149	173.704

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/12/2005 6:55:24.537	896.010	1,163.930	173.485
12/12/2005 7:05:24.537	906.010	1,163.685	173.240
12/12/2005 7:15:24.537	916.010	1,163.752	173.307
12/12/2005 7:25:24.537	926.010	1,163.949	173.504
12/12/2005 7:35:24.537	936.010	1,163.746	173.301
12/12/2005 7:45:24.537	946.010	1,164.204	173.759
12/12/2005 7:55:24.537	956.010	1,164.355	173.910
12/12/2005 8:05:24.537	966.010	1,164.435	173.990
12/12/2005 8:15:24.537	976.010	1,163.988	173.543
12/12/2005 8:25:24.537	986.010	1,163.726	173.281
12/12/2005 8:35:24.537	996.010	1,164.832	174.387
12/12/2005 8:45:24.537	1,006.010	1,165.058	174.613
12/12/2005 8:55:24.537	1,016.010	1,164.459	174.014
12/12/2005 9:05:24.537	1,026.010	1,164.594	174.149
12/12/2005 9:15:24.537	1,036.010	1,164.991	174.546
12/12/2005 9:25:24.537	1,046.010	1,164.748	174.303
12/12/2005 9:35:24.537	1,056.010	1,164.463	174.018
12/12/2005 9:45:24.537	1,066.010	1,164.539	174.094
12/12/2005 9:55:24.537	1,076.010	1,164.226	173.781
12/12/2005 10:05:24.537	1,086.010	1,165.182	174.737
12/12/2005 10:15:24.537	1,096.010	1,164.241	173.796
12/12/2005 10:25:24.537	1,106.010	1,165.306	174.861
12/12/2005 10:35:24.537	1,116.010	1,164.755	174.310
12/12/2005 10:45:24.537	1,126.010	1,164.644	174.199
12/12/2005 10:55:24.537	1,136.010	1,164.231	173.786
12/12/2005 11:05:24.537	1,146.010	1,165.092	174.647
12/12/2005 11:15:24.537	1,156.010	1,165.554	175.109
12/12/2005 11:25:24.537	1,166.010	1,164.696	174.251
12/12/2005 11:35:24.537	1,176.010	1,164.992	174.547
12/12/2005 11:45:24.537	1,186.010	1,165.539	175.094
12/12/2005 11:55:24.537	1,196.010	1,165.431	174.986
12/12/2005 12:05:24.537	1,206.010	1,165.250	174.805
12/12/2005 12:15:24.537	1,216.010	1,165.143	174.698
12/12/2005 12:25:24.537	1,226.010	1,164.863	174.418
12/12/2005 12:35:24.537	1,236.010	1,165.080	174.635
12/12/2005 12:45:24.537	1,246.010	1,164.765	174.320
12/12/2005 12:55:24.537	1,256.010	1,165.432	174.987
12/12/2005 13:05:24.537	1,266.010	1,165.371	174.926
12/12/2005 13:15:24.537	1,276.010	1,164.855	174.410
12/12/2005 13:25:24.537	1,286.010	1,165.297	174.852
12/12/2005 13:35:24.537	1,296.010	1,164.805	174.360
12/12/2005 13:45:24.537	1,306.010	1,165.143	174.698
12/12/2005 13:55:24.537	1,316.010	1,165.310	174.865
12/12/2005 14:05:24.537	1,326.010	1,165.316	174.871
12/12/2005 14:15:24.537	1,336.010	1,165.219	174.774
12/12/2005 14:25:24.537	1,346.010	1,165.247	174.802
12/12/2005 14:35:24.537	1,356.010	1,166.145	175.700
12/12/2005 14:45:24.537	1,366.010	1,165.390	174.945
12/12/2005 14:55:24.537	1,376.010	1,165.440	174.995
12/12/2005 15:05:24.537	1,386.010	1,166.205	175.760

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/12/2005 15:15:24.537	1,396.010	1,165.130	174.685
12/12/2005 15:25:24.537	1,406.010	1,166.003	175.558
12/12/2005 15:35:24.537	1,416.010	1,165.676	175.231
12/12/2005 15:45:24.537	1,426.010	1,165.481	175.036
12/12/2005 15:55:24.537	1,436.010	1,165.640	175.195
12/12/2005 16:05:24.537	1,446.010	1,165.327	174.882
12/12/2005 16:15:24.537	1,456.010	1,164.978	174.533
12/12/2005 16:25:24.537	1,466.010	1,165.520	175.075
12/12/2005 16:35:24.537	1,476.010	1,165.995	175.550
12/12/2005 16:45:24.537	1,486.010	1,165.072	174.627
12/12/2005 16:55:24.537	1,496.010	1,165.643	175.198
12/12/2005 17:05:24.537	1,506.010	1,166.085	175.640
12/12/2005 17:15:24.537	1,516.010	1,165.681	175.236
12/12/2005 17:25:24.537	1,526.010	1,166.074	175.629
12/12/2005 17:35:24.537	1,536.010	1,165.873	175.428
12/12/2005 17:45:24.537	1,546.010	1,165.873	175.428
12/12/2005 17:55:24.537	1,556.010	1,165.877	175.432
12/12/2005 18:05:24.537	1,566.010	1,165.887	175.442
12/12/2005 18:15:24.537	1,576.010	1,166.007	175.562
12/12/2005 18:25:24.537	1,586.010	1,165.766	175.321
12/12/2005 18:35:24.537	1,596.010	1,165.924	175.479
12/12/2005 18:45:24.537	1,606.010	1,165.678	175.233
12/12/2005 18:55:24.537	1,616.010	1,165.465	175.020
12/12/2005 19:05:24.537	1,626.010	1,165.706	175.261
12/12/2005 19:15:24.537	1,636.010	1,166.056	175.611
12/12/2005 19:25:24.537	1,646.010	1,166.162	175.717
12/12/2005 19:35:24.537	1,656.010	1,166.230	175.785
12/12/2005 19:45:24.537	1,666.010	1,166.008	175.563
12/12/2005 19:55:24.537	1,676.010	1,166.491	176.046
12/12/2005 20:05:24.537	1,686.010	1,166.014	175.569
12/12/2005 20:15:24.537	1,696.010	1,166.192	175.747
12/12/2005 20:25:24.537	1,706.010	1,165.539	175.094
12/12/2005 20:35:24.537	1,716.010	1,166.192	175.747
12/12/2005 20:45:24.537	1,726.010	1,166.152	175.707
12/12/2005 20:55:24.537	1,736.010	1,166.060	175.615
12/12/2005 21:05:24.537	1,746.010	1,166.033	175.588
12/12/2005 21:15:24.537	1,756.010	1,165.810	175.365
12/12/2005 21:25:24.537	1,766.010	1,166.197	175.752
12/12/2005 21:35:24.537	1,776.010	1,166.061	175.616
12/12/2005 21:45:24.537	1,786.010	1,165.815	175.370
12/12/2005 21:55:24.537	1,796.010	1,166.387	175.942
12/12/2005 22:05:24.537	1,806.010	1,165.302	174.857
12/12/2005 22:15:24.537	1,816.010	1,165.849	175.404
12/12/2005 22:25:24.537	1,826.010	1,165.986	175.541
12/12/2005 22:35:24.537	1,836.010	1,165.635	175.190
12/12/2005 22:45:24.537	1,846.010	1,166.732	176.287
12/12/2005 22:55:24.537	1,856.010	1,166.639	176.194
12/12/2005 23:05:24.537	1,866.010	1,166.329	175.884
12/12/2005 23:15:24.537	1,876.010	1,165.819	175.374
12/12/2005 23:25:24.537	1,886.010	1,165.989	175.544



KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/12/2005 23:35:24.537	1,896.010	1,166.096	175.651
12/12/2005 23:45:24.537	1,906.010	1,167.419	176.974
12/12/2005 23:55:24.537	1,916.010	1,166.867	176.422
12/13/2005 0:05:24.537	1,926.010	1,166.894	176.449
12/13/2005 0:15:24.537	1,936.010	1,168.169	177.724
12/13/2005 0:25:24.537	1,946.010	1,166.857	176.412
12/13/2005 0:35:24.537	1,956.010	1,166.716	176.271
12/13/2005 0:45:24.537	1,966.010	1,166.496	176.051
12/13/2005 0:55:24.537	1,976.010	1,167.293	176.848
12/13/2005 1:05:24.537	1,986.010	1,167.007	176.562
12/13/2005 1:15:24.537	1,996.010	1,166.774	176.329
12/13/2005 1:25:24.537	2,006.010	1,167.762	177.317
12/13/2005 1:35:24.537	2,016.010	1,167.333	176.888
12/13/2005 1:45:24.537	2,026.010	1,167.184	176.739
12/13/2005 1:55:24.537	2,036.010	1,166.728	176.283
12/13/2005 2:05:24.537	2,046.010	1,167.477	177.032
12/13/2005 2:15:24.537	2,056.010	1,167.375	176.930
12/13/2005 2:25:24.537	2,066.010	1,167.613	177.168
12/13/2005 2:35:24.537	2,076.010	1,167.186	176.741
12/13/2005 2:45:24.537	2,086.010	1,167.613	177.168
12/13/2005 2:55:24.537	2,096.010	1,167.205	176.760
12/13/2005 3:05:24.537	2,106.010	1,168.180	177.735
12/13/2005 3:15:24.537	2,116.010	1,167.606	177.161
12/13/2005 3:25:24.537	2,126.010	1,167.300	176.855
12/13/2005 3:35:24.537	2,136.010	1,167.455	177.010
12/13/2005 3:45:24.537	2,146.010	1,167.538	177.093
12/13/2005 3:55:24.537	2,156.010	1,167.095	176.650
12/13/2005 4:05:24.537	2,166.010	1,167.098	176.653
12/13/2005 4:15:24.537	2,176.010	1,167.343	176.898
12/13/2005 4:25:24.537	2,186.010	1,168.100	177.655
12/13/2005 4:35:24.537	2,196.010	1,167.298	176.853
12/13/2005 4:45:24.537	2,206.010	1,167.528	177.083
12/13/2005 4:55:24.537	2,216.010	1,167.342	176.897
12/13/2005 5:05:24.537	2,226.010	1,167.797	177.352
12/13/2005 5:15:24.537	2,236.010	1,167.237	176.792
12/13/2005 5:25:24.537	2,246.010	1,167.693	177.248
12/13/2005 5:35:24.537	2,256.010	1,168.036	177.591
12/13/2005 5:45:24.537	2,266.010	1,167.538	177.093
12/13/2005 5:55:24.537	2,276.010	1,167.273	176.828
12/13/2005 6:05:24.537	2,286.010	1,167.175	176.730
12/13/2005 6:15:24.537	2,296.010	1,168.056	177.611
12/13/2005 6:25:24.537	2,306.010	1,167.575	177.130
12/13/2005 6:35:24.537	2,316.010	1,167.792	177.347
12/13/2005 6:45:24.537	2,326.010	1,167.342	176.897
12/13/2005 6:55:24.537	2,336.010	1,167.598	177.153
12/13/2005 7:05:24.537	2,346.010	1,167.855	177.410
12/13/2005 7:15:24.537	2,356.010	1,168.106	177.661
12/13/2005 7:25:24.537	2,366.010	1,167.807	177.362
12/13/2005 7:35:24.537	2,376.010	1,168.292	177.847
12/13/2005 7:45:24.537	2,386.010	1,167.825	177.380

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/13/2005 7:55:24.537	2,396.010	1,167.756	177.311
12/13/2005 8:05:24.537	2,406.010	1,167.669	177.224
12/13/2005 8:15:24.537	2,416.010	1,167.896	177.451
12/13/2005 8:25:24.537	2,426.010	1,167.051	176.606
12/13/2005 8:35:24.537	2,436.010	1,167.978	177.533
12/13/2005 8:45:24.537	2,446.010	1,167.094	176.649
12/13/2005 8:55:24.537	2,456.010	1,167.848	177.403
12/13/2005 9:05:24.537	2,466.010	1,167.543	177.098
12/13/2005 9:15:24.537	2,476.010	1,167.524	177.079
12/13/2005 9:25:24.537	2,486.010	1,167.476	177.031
12/13/2005 9:35:24.537	2,496.010	1,167.795	177.350
12/13/2005 9:45:24.537	2,506.010	1,167.937	177.492
12/13/2005 9:55:24.537	2,516.010	1,167.551	177.106
12/13/2005 10:05:24.537	2,526.010	1,167.850	177.405
12/13/2005 10:15:24.537	2,536.010	1,167.984	177.539
12/13/2005 10:25:24.537	2,546.010	1,168.518	178.073
12/13/2005 10:35:24.537	2,556.010	1,168.154	177.709
12/13/2005 10:45:24.537	2,566.010	1,167.650	177.205
12/13/2005 10:55:24.537	2,576.010	1,167.987	177.542
12/13/2005 11:05:24.537	2,586.010	1,167.536	177.091
12/13/2005 11:15:24.537	2,596.010	1,168.293	177.848
12/13/2005 11:25:24.537	2,606.010	1,167.940	177.495
12/13/2005 11:35:24.537	2,616.010	1,166.773	176.328
12/13/2005 11:45:24.537	2,626.010	1,168.401	177.956
12/13/2005 11:55:24.537	2,636.010	1,167.921	177.476
12/13/2005 12:05:24.537	2,646.010	1,167.916	177.471
12/13/2005 12:15:24.537	2,656.010	1,168.215	177.770
12/13/2005 12:25:24.537	2,666.010	1,168.121	177.676
12/13/2005 12:35:24.537	2,676.010	1,167.489	177.044
12/13/2005 12:45:24.537	2,686.010	1,167.035	176.590
12/13/2005 12:55:24.537	2,696.010	1,168.469	178.024
12/13/2005 13:05:24.537	2,706.010	1,168.141	177.696
12/13/2005 13:15:24.537	2,716.010	1,167.609	177.164
12/13/2005 13:25:24.537	2,726.010	1,167.872	177.427
12/13/2005 13:35:24.537	2,736.010	1,168.572	178.127
12/13/2005 13:45:24.537	2,746.010	1,168.747	178.302
12/13/2005 13:55:24.537	2,756.010	1,168.352	177.907
12/13/2005 14:05:24.537	2,766.010	1,167.293	176.848
12/13/2005 14:15:24.537	2,776.010	1,168.470	178.025
12/13/2005 14:25:24.537	2,786.010	1,168.101	177.656
12/13/2005 14:35:24.537	2,796.010	1,167.723	177.278
12/13/2005 14:45:24.537	2,806.010	1,167.356	176.911
12/13/2005 14:55:24.537	2,816.010	1,168.278	177.833
12/13/2005 15:05:24.537	2,826.010	1,168.311	177.866
12/13/2005 15:15:24.537	2,836.010	1,168.242	177.797
12/13/2005 15:25:24.537	2,846.010	1,168.003	177.558
12/13/2005 15:35:24.537	2,856.010	1,168.179	177.734
12/13/2005 15:45:24.537	2,866.010	1,167.765	177.320
12/13/2005 15:55:24.537	2,876.010	1,169.146	178.701
12/13/2005 16:05:24.537	2,886.010	1,167.913	177.468

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/13/2005 16:15:24.537	2,896.010	1,167.734	177.289
12/13/2005 16:25:24.537	2,906.010	1,168.580	178.135
12/13/2005 16:35:24.537	2,916.010	1,168.572	178.127
12/13/2005 16:45:24.537	2,926.010	1,167.389	176.944
12/13/2005 16:55:24.537	2,936.010	1,168.336	177.891
12/13/2005 17:05:24.537	2,946.010	1,167.463	177.018
12/13/2005 17:15:24.537	2,956.010	1,168.547	178.102
12/13/2005 17:25:24.537	2,966.010	1,168.100	177.655
12/13/2005 17:35:24.537	2,976.010	1,168.951	178.506
12/13/2005 17:45:24.537	2,986.010	1,168.883	178.438
12/13/2005 17:55:24.537	2,996.010	1,168.146	177.701
12/13/2005 18:05:24.537	3,006.010	1,168.022	177.577
12/13/2005 18:15:24.537	3,016.010	1,168.811	178.366
12/13/2005 18:25:24.543	3,026.010	1,168.354	177.909
12/13/2005 18:35:24.537	3,036.010	1,168.561	178.116
12/13/2005 18:45:24.537	3,046.010	1,168.826	178.381
12/13/2005 18:55:24.537	3,056.010	1,167.831	177.386
12/13/2005 19:05:24.537	3,066.010	1,167.857	177.412
12/13/2005 19:15:24.537	3,076.010	1,168.679	178.234
12/13/2005 19:25:24.537	3,086.010	1,168.670	178.225
12/13/2005 19:35:24.537	3,096.010	1,168.429	177.984
12/13/2005 19:45:24.537	3,106.010	1,168.670	178.225
12/13/2005 19:55:24.537	3,116.010	1,168.711	178.266
12/13/2005 20:05:24.537	3,126.010	1,168.805	178.360
12/13/2005 20:15:24.537	3,136.010	1,169.302	178.857
12/13/2005 20:25:24.537	3,146.010	1,168.964	178.519
12/13/2005 20:35:24.537	3,156.010	1,168.621	178.176
12/13/2005 20:45:24.537	3,166.010	1,168.719	178.274
12/13/2005 20:55:24.537	3,176.010	1,167.772	177.327
12/13/2005 21:05:24.537	3,186.010	1,168.073	177.628
12/13/2005 21:15:24.537	3,196.010	1,168.604	178.159
12/13/2005 21:25:24.537	3,206.010	1,168.462	178.017
12/13/2005 21:35:24.537	3,216.010	1,169.055	178.610
12/13/2005 21:45:24.537	3,226.010	1,168.164	177.719
12/13/2005 21:55:24.537	3,236.010	1,168.003	177.558
12/13/2005 22:05:24.537	3,246.010	1,168.605	178.160
12/13/2005 22:15:24.537	3,256.010	1,168.948	178.503
12/13/2005 22:25:24.537	3,266.010	1,168.275	177.830
12/13/2005 22:35:24.537	3,276.010	1,168.509	178.064
12/13/2005 22:45:24.537	3,286.010	1,168.747	178.302
12/13/2005 22:55:24.537	3,296.010	1,168.698	178.253
12/13/2005 23:05:24.537	3,306.010	1,168.615	178.170
12/13/2005 23:15:24.537	3,316.010	1,168.682	178.237
12/13/2005 23:25:24.537	3,326.010	1,169.249	178.804
12/13/2005 23:35:24.537	3,336.010	1,168.893	178.448
12/13/2005 23:45:24.537	3,346.010	1,168.292	177.847
12/13/2005 23:55:24.537	3,356.010	1,168.607	178.162
12/14/2005 0:05:24.537	3,366.010	1,168.742	178.297
12/14/2005 0:15:24.537	3,376.010	1,169.198	178.753
12/14/2005 0:25:24.537	3,386.010	1,169.511	179.066

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/14/2005 0:35:24.537	3,396.010	1,168.421	177.976
12/14/2005 0:45:24.537	3,406.010	1,168.053	177.608
12/14/2005 0:55:24.537	3,416.010	1,168.811	178.366
12/14/2005 1:05:24.537	3,426.010	1,168.640	178.195
12/14/2005 1:15:24.537	3,436.010	1,168.857	178.412
12/14/2005 1:25:24.537	3,446.010	1,169.008	178.563
12/14/2005 1:35:24.537	3,456.010	1,169.148	178.703
12/14/2005 1:45:24.537	3,466.010	1,168.737	178.292
12/14/2005 1:55:24.537	3,476.010	1,168.616	178.171
12/14/2005 2:05:24.537	3,486.010	1,169.423	178.978
12/14/2005 2:15:24.537	3,496.010	1,168.940	178.495
12/14/2005 2:25:24.537	3,506.010	1,168.621	178.176
12/14/2005 2:35:24.537	3,516.010	1,168.557	178.112
12/14/2005 2:45:24.537	3,526.010	1,168.841	178.396
12/14/2005 2:55:24.537	3,536.010	1,168.552	178.107
12/14/2005 3:05:24.537	3,546.010	1,168.607	178.162
12/14/2005 3:15:24.537	3,556.010	1,168.270	177.825
12/14/2005 3:25:24.537	3,566.010	1,168.895	178.450
12/14/2005 3:35:24.537	3,576.010	1,169.464	179.019
12/14/2005 3:45:24.537	3,586.010	1,168.461	178.016
12/14/2005 3:55:24.537	3,596.010	1,168.912	178.467
12/14/2005 4:05:24.537	3,606.010	1,168.940	178.495
12/14/2005 4:15:24.537	3,616.010	1,169.304	178.859
12/14/2005 4:25:24.537	3,626.010	1,170.594	180.149
12/14/2005 4:35:24.537	3,636.010	1,169.343	178.898
12/14/2005 4:45:24.537	3,646.010	1,169.711	179.266
12/14/2005 4:55:24.537	3,656.010	1,169.491	179.046
12/14/2005 5:05:24.537	3,666.010	1,170.177	179.732
12/14/2005 5:15:24.537	3,676.010	1,169.532	179.087
12/14/2005 5:25:24.537	3,686.010	1,169.318	178.873
12/14/2005 5:35:24.537	3,696.010	1,169.637	179.192
12/14/2005 5:45:24.537	3,706.010	1,169.265	178.820
12/14/2005 5:55:24.537	3,716.010	1,169.179	178.734
12/14/2005 6:05:24.537	3,726.010	1,169.793	179.348
12/14/2005 6:15:24.537	3,736.010	1,170.147	179.702
12/14/2005 6:25:24.537	3,746.010	1,170.081	179.636
12/14/2005 6:35:24.537	3,756.010	1,169.732	179.287
12/14/2005 6:45:24.537	3,766.010	1,169.395	178.950
12/14/2005 6:55:24.537	3,776.010	1,169.600	179.155
12/14/2005 7:05:24.537	3,786.010	1,169.479	179.034
12/14/2005 7:15:24.537	3,796.010	1,170.164	179.719
12/14/2005 7:25:24.537	3,806.010	1,169.399	178.954
12/14/2005 7:35:24.537	3,816.010	1,169.807	179.362
12/14/2005 7:45:24.537	3,826.010	1,169.919	179.474
12/14/2005 7:55:24.537	3,836.010	1,170.027	179.582
12/14/2005 8:05:24.537	3,846.010	1,170.276	179.831
12/14/2005 8:15:24.537	3,856.010	1,169.434	178.989
12/14/2005 8:25:24.537	3,866.010	1,169.433	178.988
12/14/2005 8:35:24.537	3,876.010	1,169.105	178.660
12/14/2005 8:45:24.537	3,886.010	1,170.127	179.682

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/14/2005 8:55:24.537	3,896.010	1,169.236	178.791
12/14/2005 9:05:24.537	3,906.010	1,169.526	179.081
12/14/2005 9:15:24.537	3,916.010	1,170.125	179.680
12/14/2005 9:25:24.537	3,926.010	1,169.515	179.070
12/14/2005 9:35:24.537	3,936.010	1,169.851	179.406
12/14/2005 9:45:24.537	3,946.010	1,169.357	178.912
12/14/2005 9:55:24.537	3,956.010	1,169.326	178.881
12/14/2005 10:05:24.537	3,966.010	1,170.196	179.751
12/14/2005 10:15:24.537	3,976.010	1,169.473	179.028
12/14/2005 10:25:24.537	3,986.010	1,169.908	179.463
12/14/2005 10:35:24.537	3,996.010	1,170.046	179.601
12/14/2005 10:45:24.537	4,006.010	1,170.135	179.690
12/14/2005 10:55:24.537	4,016.010	1,169.892	179.447
12/14/2005 11:05:24.537	4,026.010	1,169.829	179.384
12/14/2005 11:15:24.537	4,036.010	1,170.138	179.693
12/14/2005 11:25:24.537	4,046.010	1,169.754	179.309
12/14/2005 11:35:24.537	4,056.010	1,169.590	179.145
12/14/2005 11:45:24.537	4,066.010	1,170.424	179.979
12/14/2005 11:55:24.537	4,076.010	1,170.044	179.599
12/14/2005 12:05:24.537	4,086.010	1,169.736	179.291
12/14/2005 12:15:24.537	4,096.010	1,169.657	179.212
12/14/2005 12:25:24.537	4,106.010	1,169.795	179.350
12/14/2005 12:35:24.537	4,116.010	1,169.433	178.988
12/14/2005 12:45:24.537	4,126.010	1,170.139	179.694
12/14/2005 12:55:24.537	4,136.010	1,170.148	179.703
12/14/2005 13:05:24.537	4,146.010	1,169.515	179.070
12/14/2005 13:15:24.537	4,156.010	1,170.067	179.622
12/14/2005 13:25:24.537	4,166.010	1,169.724	179.279
12/14/2005 13:35:24.537	4,176.010	1,169.325	178.880
12/14/2005 13:45:24.537	4,186.010	1,169.268	178.823
12/14/2005 13:55:24.537	4,196.010	1,169.997	179.552
12/14/2005 14:05:24.537	4,206.010	1,169.088	178.643
12/14/2005 14:15:24.537	4,216.010	1,169.760	179.315
12/14/2005 14:25:24.537	4,226.010	1,169.467	179.022
12/14/2005 14:35:24.537	4,236.010	1,169.691	179.246
12/14/2005 14:45:24.537	4,246.010	1,169.629	179.184
12/14/2005 14:55:24.537	4,256.010	1,170.103	179.658
12/14/2005 15:05:24.537	4,266.010	1,170.485	180.040
12/14/2005 15:15:24.537	4,276.010	1,170.216	179.771
12/14/2005 15:25:24.537	4,286.010	1,169.774	179.329
12/14/2005 15:35:24.537	4,296.010	1,169.834	179.389
12/14/2005 15:45:24.537	4,306.010	1,169.123	178.678
12/14/2005 15:55:24.537	4,316.010	1,169.641	179.196
12/14/2005 16:05:24.537	4,326.010	1,169.798	179.353
12/14/2005 16:15:24.537	4,336.010	1,169.732	179.287
12/14/2005 16:25:24.537	4,346.010	1,169.431	178.986
12/14/2005 16:35:24.537	4,356.010	1,169.653	179.208
12/14/2005 16:45:24.537	4,366.010	1,169.961	179.516
12/14/2005 16:55:24.537	4,376.010	1,169.373	178.928
12/14/2005 17:05:24.537	4,386.010	1,169.529	179.084

**KPW-1 December 2005 Constant-Rate Test (pumped well)**

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/14/2005 17:15:24.537	4,396.010	1,169.328	178.883
12/14/2005 17:25:24.537	4,406.010	1,169.823	179.378
12/14/2005 17:35:24.537	4,416.010	1,170.487	180.042
12/14/2005 17:45:24.537	4,426.010	1,169.546	179.101
12/14/2005 17:55:24.537	4,436.010	1,170.089	179.644
12/14/2005 18:05:24.537	4,446.010	1,169.298	178.853
12/14/2005 18:15:24.537	4,456.010	1,170.367	179.922
12/14/2005 18:25:24.537	4,466.010	1,170.188	179.743
12/14/2005 18:35:24.537	4,476.010	1,169.807	179.362
12/14/2005 18:45:24.537	4,486.010	1,169.706	179.261
12/14/2005 18:55:24.537	4,496.010	1,170.131	179.686
12/14/2005 19:05:24.537	4,506.010	1,170.059	179.614
12/14/2005 19:15:24.537	4,516.010	1,169.448	179.003
12/14/2005 19:25:24.537	4,526.010	1,169.801	179.356
12/14/2005 19:35:24.537	4,536.010	1,169.946	179.501
12/14/2005 19:45:24.537	4,546.010	1,169.582	179.137
12/14/2005 19:55:24.537	4,556.010	1,170.153	179.708
12/14/2005 20:05:24.537	4,566.010	1,170.245	179.800
12/14/2005 20:15:24.537	4,576.010	1,169.903	179.458
12/14/2005 20:25:24.537	4,586.010	1,170.196	179.751
12/14/2005 20:35:24.537	4,596.010	1,170.176	179.731
12/14/2005 20:45:24.537	4,606.010	1,169.832	179.387
12/14/2005 20:55:24.537	4,616.010	1,170.286	179.841
12/14/2005 21:05:24.537	4,626.010	1,169.955	179.510
12/14/2005 21:15:24.537	4,636.010	1,169.895	179.450
12/14/2005 21:25:24.537	4,646.010	1,170.446	180.001
12/14/2005 21:35:24.537	4,656.010	1,170.602	180.157
12/14/2005 21:45:24.537	4,666.010	1,170.600	180.155
12/14/2005 21:55:24.537	4,676.010	1,169.991	179.546
12/14/2005 22:05:24.537	4,686.010	1,170.438	179.993
12/14/2005 22:15:24.537	4,696.010	1,169.813	179.368
12/14/2005 22:25:24.537	4,706.010	1,170.156	179.711
12/14/2005 22:35:24.537	4,716.010	1,170.211	179.766
12/14/2005 22:45:24.537	4,726.010	1,170.083	179.638
12/14/2005 22:55:24.537	4,736.010	1,170.846	180.401
12/14/2005 23:05:24.537	4,746.010	1,169.234	178.789
12/14/2005 23:15:24.537	4,756.010	1,171.181	180.736
12/14/2005 23:25:24.537	4,766.010	1,170.262	179.817
12/14/2005 23:35:24.537	4,776.010	1,170.004	179.559
12/14/2005 23:45:24.537	4,786.010	1,170.298	179.853
12/14/2005 23:55:24.537	4,796.010	1,170.341	179.896
12/15/2005 0:05:24.537	4,806.010	1,169.729	179.284
12/15/2005 0:15:24.537	4,816.010	1,170.153	179.708
12/15/2005 0:25:24.537	4,826.010	1,169.604	179.159
12/15/2005 0:35:24.537	4,836.010	1,169.982	179.537
12/15/2005 0:45:24.537	4,846.010	1,169.933	179.488
12/15/2005 0:55:24.537	4,856.010	1,170.254	179.809
12/15/2005 1:05:24.537	4,866.010	1,170.433	179.988
12/15/2005 1:15:24.537	4,876.010	1,170.136	179.691
12/15/2005 1:25:24.537	4,886.010	1,169.858	179.413

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/15/2005 1:35:24.537	4,896.010	1,170.215	179.770
12/15/2005 1:45:24.537	4,906.010	1,170.012	179.567
12/15/2005 1:55:24.537	4,916.010	1,170.063	179.618
12/15/2005 2:05:24.537	4,926.010	1,170.326	179.881
12/15/2005 2:15:24.537	4,936.010	1,170.628	180.183
12/15/2005 2:25:24.537	4,946.010	1,170.925	180.480
12/15/2005 2:35:24.537	4,956.010	1,170.624	180.179
12/15/2005 2:45:24.537	4,966.010	1,170.491	180.046
12/15/2005 2:55:24.537	4,976.010	1,169.360	178.915
12/15/2005 3:05:24.537	4,986.010	1,169.939	179.494
12/15/2005 3:15:24.537	4,996.010	1,169.793	179.348
12/15/2005 3:25:24.537	5,006.010	1,170.932	180.487
12/15/2005 3:35:24.537	5,016.010	1,169.906	179.461
12/15/2005 3:45:24.537	5,026.010	1,170.089	179.644
12/15/2005 3:55:24.537	5,036.010	1,170.103	179.658
12/15/2005 4:05:24.537	5,046.010	1,169.952	179.507
12/15/2005 4:15:24.537	5,056.010	1,170.578	180.133
12/15/2005 4:25:24.537	5,066.010	1,169.853	179.408
12/15/2005 4:35:24.537	5,076.010	1,170.670	180.225
12/15/2005 4:45:24.537	5,086.010	1,170.249	179.804
12/15/2005 4:55:24.537	5,096.010	1,169.710	179.265
12/15/2005 5:05:24.537	5,106.010	1,170.598	180.153
12/15/2005 5:15:24.537	5,116.010	1,169.681	179.236
12/15/2005 5:25:24.537	5,126.010	1,170.278	179.833
12/15/2005 5:35:24.537	5,136.010	1,169.573	179.128
12/15/2005 5:45:24.537	5,146.010	1,170.199	179.754
12/15/2005 5:55:24.537	5,156.010	1,169.494	179.049
12/15/2005 6:05:24.537	5,166.010	1,169.933	179.488
12/15/2005 6:15:24.537	5,176.010	1,170.013	179.568
12/15/2005 6:25:24.537	5,186.010	1,170.068	179.623
12/15/2005 6:35:24.537	5,196.010	1,169.438	178.993
12/15/2005 6:45:24.537	5,206.010	1,169.515	179.070
12/15/2005 6:55:24.537	5,216.010	1,169.892	179.447
12/15/2005 7:05:24.537	5,226.010	1,170.481	180.036
12/15/2005 7:15:24.537	5,236.010	1,169.621	179.176
12/15/2005 7:25:24.537	5,246.010	1,170.012	179.567
12/15/2005 7:35:24.537	5,256.010	1,170.065	179.620
12/15/2005 7:45:24.537	5,266.010	1,168.983	178.538
12/15/2005 7:55:24.537	5,276.010	1,170.147	179.702
12/15/2005 8:05:24.537	5,286.010	1,169.628	179.183
12/15/2005 8:15:24.537	5,296.010	1,169.746	179.301
12/15/2005 8:25:24.537	5,306.010	1,170.147	179.702
12/15/2005 8:35:24.537	5,316.010	1,169.869	179.424
12/15/2005 8:45:24.537	5,326.010	1,169.430	178.985
12/15/2005 8:55:24.537	5,336.010	1,170.470	180.025
12/15/2005 9:05:24.537	5,346.010	1,169.832	179.387
12/15/2005 9:15:24.537	5,356.010	1,170.358	179.913
12/15/2005 9:25:24.537	5,366.010	1,169.804	179.359
12/15/2005 9:35:24.537	5,376.010	1,170.172	179.727
12/15/2005 9:45:24.537	5,386.010	1,170.723	180.278

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/15/2005 9:55:24.537	5,396.010	1,170.193	179.748
12/15/2005 10:05:24.537	5,406.010	1,169.894	179.449
12/15/2005 10:15:24.537	5,416.010	1,168.834	178.389
12/15/2005 10:25:24.537	5,426.010	1,168.784	178.339
12/15/2005 10:35:24.537	5,436.010	1,169.883	179.438
12/15/2005 10:45:24.537	5,446.010	1,169.752	179.307
12/15/2005 10:55:24.537	5,456.010	1,169.729	179.284
12/15/2005 11:05:24.537	5,466.010	1,169.872	179.427
12/15/2005 11:15:24.537	5,476.010	1,169.274	178.829
12/15/2005 11:25:24.537	5,486.010	1,169.234	178.789
12/15/2005 11:35:24.537	5,496.010	1,169.625	179.180
12/15/2005 11:45:24.537	5,506.010	1,169.332	178.887
12/15/2005 11:55:24.537	5,516.010	1,169.573	179.128
12/15/2005 12:05:24.537	5,526.010	1,169.958	179.513
12/15/2005 12:15:24.537	5,536.010	1,168.991	178.546
12/15/2005 12:25:24.537	5,546.010	1,168.994	178.549
12/15/2005 12:35:24.537	5,556.010	1,168.387	177.942
12/15/2005 12:45:24.537	5,566.010	1,168.190	177.745
12/15/2005 12:55:24.537	5,576.010	1,169.790	179.345
12/15/2005 13:05:24.537	5,586.010	1,169.219	178.774
12/15/2005 13:15:24.537	5,596.010	1,168.827	178.382
12/15/2005 13:25:24.537	5,606.010	1,168.852	178.407
12/15/2005 13:35:24.537	5,616.010	1,168.596	178.151
12/15/2005 13:45:24.537	5,626.010	1,169.162	178.717
12/15/2005 13:55:24.537	5,636.010	1,169.427	178.982
12/15/2005 14:05:24.537	5,646.010	1,169.346	178.901
12/15/2005 14:15:24.537	5,656.010	1,168.531	178.086
12/15/2005 14:25:24.537	5,666.010	1,169.774	179.329
12/15/2005 14:35:24.537	5,676.010	1,169.003	178.558
12/15/2005 14:45:24.537	5,686.010	1,169.057	178.612
12/15/2005 14:55:24.537	5,696.010	1,168.590	178.145
12/15/2005 15:05:24.537	5,706.010	1,169.241	178.796
12/15/2005 15:15:24.537	5,716.010	1,168.733	178.288
12/15/2005 15:25:24.537	5,726.010	1,169.450	179.005
12/15/2005 15:35:24.537	5,736.010	1,169.120	178.675
12/15/2005 15:45:24.537	5,746.010	1,169.544	179.099
12/15/2005 15:55:24.537	5,756.010	1,168.858	178.413
12/15/2005 16:05:24.537	5,766.010	1,169.772	179.327
12/15/2005 16:15:24.537	5,776.010	1,168.668	178.223
12/15/2005 16:25:24.537	5,786.010	1,168.974	178.529
12/15/2005 16:35:24.537	5,796.010	1,169.490	179.045
12/15/2005 16:45:24.537	5,806.010	1,169.210	178.765
12/15/2005 16:55:24.537	5,816.010	1,169.644	179.199
12/15/2005 17:05:24.537	5,826.010	1,169.356	178.911
12/15/2005 17:15:24.537	5,836.010	1,169.939	179.494
12/15/2005 17:25:24.537	5,846.010	1,169.359	178.914
12/15/2005 17:35:24.537	5,856.010	1,169.487	179.042
12/15/2005 17:45:24.537	5,866.010	1,168.886	178.441
12/15/2005 17:55:24.537	5,876.010	1,169.294	178.849
12/15/2005 18:05:24.537	5,886.010	1,169.080	178.635



KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/15/2005 18:15:24.537	5,896.010	1,168.833	178.388
12/15/2005 18:25:24.537	5,906.010	1,168.945	178.500
12/15/2005 18:35:24.537	5,916.010	1,169.475	179.030
12/15/2005 18:45:24.537	5,926.010	1,168.793	178.348
12/15/2005 18:55:24.537	5,936.010	1,169.824	179.379
12/15/2005 19:05:24.537	5,946.010	1,169.288	178.843
12/15/2005 19:15:24.537	5,956.010	1,169.729	179.284
12/15/2005 19:25:24.537	5,966.010	1,169.068	178.623
12/15/2005 19:35:24.537	5,976.010	991.030	0.585
12/15/2005 19:45:24.537	5,986.010	992.718	2.273
12/15/2005 19:55:24.537	5,996.010	991.908	1.463
12/15/2005 20:05:24.537	6,006.010	991.736	1.291
12/15/2005 20:15:24.537	6,016.010	991.631	1.186
12/15/2005 20:25:24.537	6,026.010	991.472	1.027
12/15/2005 20:35:24.537	6,036.010	991.398	0.953
12/15/2005 20:45:24.537	6,046.010	991.270	0.825
12/15/2005 20:55:24.537	6,056.010	991.207	0.762
12/15/2005 21:05:24.537	6,066.010	991.340	0.895
12/15/2005 21:15:24.537	6,076.010	991.086	0.641
12/15/2005 21:25:24.537	6,086.010	991.165	0.720
12/15/2005 21:35:24.537	6,096.010	991.026	0.581
12/15/2005 21:45:24.537	6,106.010	991.153	0.708
12/15/2005 21:55:24.537	6,116.010	990.933	0.488
12/15/2005 22:05:24.537	6,126.010	991.111	0.666
12/15/2005 22:15:24.537	6,136.010	990.968	0.523
12/15/2005 22:25:24.537	6,146.010	990.922	0.477
12/15/2005 22:35:24.537	6,156.010	990.940	0.495
12/15/2005 22:45:24.537	6,166.010	990.941	0.496
12/15/2005 22:55:24.537	6,176.010	990.933	0.488
12/15/2005 23:05:24.537	6,186.010	990.899	0.454
12/15/2005 23:15:24.537	6,196.010	990.906	0.461
12/15/2005 23:25:24.537	6,206.010	990.845	0.400
12/15/2005 23:35:24.537	6,216.010	990.829	0.384
12/15/2005 23:45:24.537	6,226.010	990.820	0.375
12/15/2005 23:55:24.537	6,236.010	990.789	0.344
12/16/2005 0:05:24.537	6,246.010	990.757	0.312
12/16/2005 0:15:24.537	6,256.010	990.683	0.238
12/16/2005 0:25:24.537	6,266.010	990.719	0.274
12/16/2005 0:35:24.537	6,276.010	990.669	0.224
12/16/2005 0:45:24.537	6,286.010	990.760	0.315
12/16/2005 0:55:24.537	6,296.010	990.715	0.270
12/16/2005 1:05:24.537	6,306.010	990.759	0.314
12/16/2005 1:15:24.537	6,316.010	990.626	0.181
12/16/2005 1:25:24.537	6,326.010	990.645	0.200
12/16/2005 1:35:24.537	6,336.010	990.683	0.238
12/16/2005 1:45:24.537	6,346.010	990.616	0.171
12/16/2005 1:55:24.537	6,356.010	990.592	0.147
12/16/2005 2:05:24.537	6,366.010	990.552	0.107
12/16/2005 2:15:24.537	6,376.010	990.529	0.084
12/16/2005 2:25:24.537	6,386.010	990.494	0.049

KPW-1 December 2005 Constant-Rate Test (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/16/2005 2:35:24.537	6,396.010	990.665	0.220
12/16/2005 2:45:24.537	6,406.010	990.627	0.182
12/16/2005 2:55:24.537	6,416.010	990.553	0.108
12/16/2005 3:05:24.537	6,426.010	990.533	0.088
12/16/2005 3:15:24.537	6,436.010	990.642	0.197
12/16/2005 3:25:24.537	6,446.010	990.506	0.061
12/16/2005 3:35:24.537	6,456.010	990.524	0.079
12/16/2005 3:45:24.537	6,466.010	990.479	0.034
12/16/2005 3:55:24.537	6,476.010	990.405	-0.040
12/16/2005 4:05:24.537	6,486.010	990.395	-0.050
12/16/2005 4:15:24.537	6,496.010	990.378	-0.067
12/16/2005 4:25:24.537	6,506.010	990.413	-0.032
12/16/2005 4:35:24.537	6,516.010	990.488	0.043
12/16/2005 4:45:24.537	6,526.010	990.420	-0.025
12/16/2005 4:55:24.537	6,536.010	990.422	-0.023
12/16/2005 5:05:24.537	6,546.010	990.392	-0.053
12/16/2005 5:15:24.537	6,556.010	990.364	-0.081
12/16/2005 5:25:24.537	6,566.010	990.378	-0.067
12/16/2005 5:35:24.537	6,576.010	990.382	-0.063
12/16/2005 5:45:24.537	6,586.010	990.347	-0.098
12/16/2005 5:55:24.537	6,596.010	990.297	-0.148
12/16/2005 6:05:24.537	6,606.010	990.289	-0.156
12/16/2005 6:15:24.537	6,616.010	990.443	-0.002
12/16/2005 6:25:24.537	6,626.010	990.402	-0.043
12/16/2005 6:35:24.537	6,636.010	990.367	-0.078
12/16/2005 6:45:24.537	6,646.010	990.337	-0.108
12/16/2005 6:55:24.537	6,656.010	990.321	-0.124
12/16/2005 7:05:24.537	6,666.010	990.354	-0.091
12/16/2005 7:15:24.537	6,676.010	990.319	-0.126
12/16/2005 7:25:24.537	6,686.010	990.313	-0.132
12/16/2005 7:35:24.537	6,696.010	990.310	-0.135
12/16/2005 7:45:24.537	6,706.010	990.353	-0.092
12/16/2005 7:55:24.537	6,716.010	990.310	-0.135
12/16/2005 8:05:24.537	6,726.010	990.310	-0.135
12/16/2005 8:15:24.537	6,736.010	990.298	-0.147
12/16/2005 8:25:24.537	6,746.010	990.260	-0.185

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KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/11/2005 15:59:24.136	0.003	992.073	0.000
12/11/2005 15:59:39.736	0.263	992.079	0.006
12/11/2005 15:59:56.536	0.543	992.110	0.037
12/11/2005 16:00:14.536	0.843	992.570	0.497
12/11/2005 16:00:33.136	1.153	993.561	1.488
12/11/2005 16:00:53.536	1.493	995.085	3.012
12/11/2005 16:01:14.536	1.843	996.803	4.730
12/11/2005 16:01:36.736	2.213	998.508	6.435
12/11/2005 16:02:00.736	2.613	1,000.091	8.018
12/11/2005 16:02:25.936	3.033	1,001.508	9.435
12/11/2005 16:02:52.336	3.473	1,002.676	10.603
12/11/2005 16:03:20.536	3.943	1,003.730	11.657
12/11/2005 16:03:50.536	4.443	1,004.679	12.606
12/11/2005 16:04:22.336	4.973	1,005.541	13.468
12/11/2005 16:04:55.936	5.533	1,006.316	14.243
12/11/2005 16:05:31.936	6.133	1,007.077	15.004
12/11/2005 16:06:07.936	6.733	1,007.709	15.636
12/11/2005 16:06:49.936	7.433	1,008.323	16.250
12/11/2005 16:07:31.936	8.133	1,008.888	16.815
12/11/2005 16:08:13.936	8.833	1,009.403	17.330
12/11/2005 16:09:01.936	9.633	1,009.884	17.811
12/11/2005 16:09:55.936	10.533	1,010.362	18.289
12/11/2005 16:10:43.936	11.333	1,010.783	18.710
12/11/2005 16:11:43.936	12.333	1,011.186	19.113
12/11/2005 16:12:43.936	13.333	1,011.561	19.488
12/11/2005 16:13:43.936	14.333	1,011.898	19.825
12/11/2005 16:14:49.936	15.433	1,012.233	20.160
12/11/2005 16:16:01.936	16.633	1,012.519	20.446
12/11/2005 16:17:19.936	17.933	1,012.802	20.729
12/11/2005 16:18:37.936	19.233	1,013.067	20.994
12/11/2005 16:20:01.936	20.633	1,013.344	21.271
12/11/2005 16:21:31.936	22.133	1,013.559	21.486
12/11/2005 16:23:07.936	23.733	1,013.775	21.702
12/11/2005 16:24:43.936	25.333	1,014.015	21.942
12/11/2005 16:26:31.936	27.133	1,014.225	22.152
12/11/2005 16:28:25.936	29.033	1,014.363	22.290
12/11/2005 16:30:25.936	31.033	1,014.531	22.458
12/11/2005 16:32:31.936	33.133	1,014.732	22.659
12/11/2005 16:34:43.936	35.333	1,014.852	22.779
12/11/2005 16:37:07.936	37.733	1,015.010	22.937
12/11/2005 16:39:37.936	40.233	1,015.129	23.056
12/11/2005 16:42:13.936	42.833	1,015.257	23.184
12/11/2005 16:45:01.936	45.633	1,015.382	23.309
12/11/2005 16:48:01.936	48.633	1,015.503	23.430
12/11/2005 16:51:07.936	51.733	1,015.577	23.504
12/11/2005 16:54:31.936	55.133	1,015.697	23.624
12/11/2005 16:58:01.936	58.633	1,015.798	23.725
12/11/2005 17:01:43.936	62.333	1,015.868	23.795
12/11/2005 17:05:43.936	66.333	1,015.971	23.898
12/11/2005 17:09:55.936	70.533	1,016.049	23.976

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/11/2005 17:14:19.936	74.933	1,016.118	24.045
12/11/2005 17:19:01.936	79.633	1,016.192	24.119
12/11/2005 17:24:01.936	84.633	1,016.260	24.187
12/11/2005 17:29:19.936	89.933	1,016.332	24.259
12/11/2005 17:34:55.936	95.533	1,016.386	24.313
12/11/2005 17:40:55.936	101.533	1,016.452	24.379
12/11/2005 17:46:55.936	107.533	1,016.555	24.482
12/11/2005 17:53:55.936	114.533	1,016.630	24.557
12/11/2005 18:00:55.936	121.533	1,016.701	24.628
12/11/2005 18:07:55.936	128.533	1,016.755	24.682
12/11/2005 18:15:55.936	136.533	1,016.819	24.746
12/11/2005 18:24:55.936	145.533	1,016.873	24.800
12/11/2005 18:32:55.936	153.533	1,016.894	24.821
12/11/2005 18:42:55.936	163.533	1,016.949	24.876
12/11/2005 18:52:55.936	173.533	1,017.042	24.969
12/11/2005 19:02:55.936	183.533	1,017.107	25.034
12/11/2005 19:12:55.936	193.533	1,017.103	25.030
12/11/2005 19:22:55.936	203.533	1,017.191	25.118
12/11/2005 19:32:55.936	213.533	1,017.197	25.124
12/11/2005 19:42:55.936	223.533	1,017.227	25.154
12/11/2005 19:52:55.936	233.533	1,017.264	25.191
12/11/2005 20:02:55.936	243.533	1,017.327	25.254
12/11/2005 20:12:55.936	253.533	1,017.329	25.256
12/11/2005 20:22:55.948	263.534	1,017.403	25.330
12/11/2005 20:32:55.936	273.533	1,017.422	25.349
12/11/2005 20:42:55.936	283.533	1,017.488	25.415
12/11/2005 20:52:55.936	293.533	1,017.566	25.493
12/11/2005 21:02:55.936	303.533	1,017.558	25.485
12/11/2005 21:12:55.936	313.533	1,017.622	25.549
12/11/2005 21:22:55.936	323.533	1,017.652	25.579
12/11/2005 21:32:55.936	333.533	1,017.674	25.601
12/11/2005 21:42:55.936	343.533	1,017.700	25.627
12/11/2005 21:52:55.936	353.533	1,017.721	25.648
12/11/2005 22:02:55.936	363.533	1,017.701	25.628
12/11/2005 22:12:55.936	373.533	1,017.774	25.701
12/11/2005 22:22:55.936	383.533	1,017.749	25.676
12/11/2005 22:32:55.936	393.533	1,017.823	25.750
12/11/2005 22:42:55.936	403.533	1,017.780	25.707
12/11/2005 22:52:55.936	413.533	1,017.806	25.733
12/11/2005 23:02:55.936	423.533	1,017.827	25.754
12/11/2005 23:12:55.936	433.533	1,017.891	25.818
12/11/2005 23:22:55.936	443.533	1,017.868	25.795
12/11/2005 23:32:55.936	453.533	1,017.879	25.806
12/11/2005 23:42:55.936	463.533	1,017.885	25.812
12/11/2005 23:52:55.936	473.533	1,017.939	25.866
12/12/2005 0:02:55.936	483.533	1,017.925	25.852
12/12/2005 0:12:55.936	493.533	1,017.933	25.860
12/12/2005 0:22:55.936	503.533	1,017.942	25.869
12/12/2005 0:32:55.936	513.533	1,017.969	25.896
12/12/2005 0:42:55.936	523.533	1,017.939	25.866

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/12/2005 0:52:55.936	533.533	1,017.991	25.918
12/12/2005 1:02:55.936	543.533	1,017.980	25.907
12/12/2005 1:12:55.936	553.533	1,018.028	25.955
12/12/2005 1:22:55.936	563.533	1,018.025	25.952
12/12/2005 1:32:55.936	573.533	1,018.060	25.987
12/12/2005 1:42:55.936	583.533	1,018.062	25.989
12/12/2005 1:52:55.936	593.533	1,018.026	25.953
12/12/2005 2:02:55.936	603.533	1,018.055	25.982
12/12/2005 2:12:55.936	613.533	1,018.068	25.995
12/12/2005 2:22:55.936	623.533	1,018.092	26.019
12/12/2005 2:32:55.936	633.533	1,018.098	26.025
12/12/2005 2:42:55.936	643.533	1,018.119	26.046
12/12/2005 2:52:55.936	653.533	1,018.127	26.054
12/12/2005 3:02:55.936	663.533	1,018.120	26.047
12/12/2005 3:12:55.936	673.533	1,018.153	26.080
12/12/2005 3:22:55.936	683.533	1,018.162	26.089
12/12/2005 3:32:55.936	693.533	1,018.181	26.108
12/12/2005 3:42:55.936	703.533	1,018.197	26.124
12/12/2005 3:52:55.936	713.533	1,018.198	26.125
12/12/2005 4:02:55.936	723.533	1,018.221	26.148
12/12/2005 4:12:55.936	733.533	1,018.219	26.146
12/12/2005 4:22:55.936	743.533	1,018.232	26.159
12/12/2005 4:32:55.936	753.533	1,018.258	26.185
12/12/2005 4:42:55.936	763.533	1,018.265	26.192
12/12/2005 4:52:55.936	773.533	1,018.283	26.210
12/12/2005 5:02:55.936	783.533	1,018.195	26.122
12/12/2005 5:12:55.936	793.533	1,018.305	26.232
12/12/2005 5:22:55.936	803.533	1,018.327	26.254
12/12/2005 5:32:55.936	813.533	1,018.322	26.249
12/12/2005 5:42:55.936	823.533	1,018.338	26.265
12/12/2005 5:52:55.936	833.533	1,018.341	26.268
12/12/2005 6:02:55.936	843.533	1,018.367	26.294
12/12/2005 6:12:55.936	853.533	1,018.373	26.300
12/12/2005 6:22:55.936	863.533	1,018.378	26.305
12/12/2005 6:32:55.936	873.533	1,018.392	26.319
12/12/2005 6:42:55.936	883.533	1,018.398	26.325
12/12/2005 6:52:55.936	893.533	1,018.410	26.337
12/12/2005 7:02:55.936	903.533	1,018.405	26.332
12/12/2005 7:12:55.936	913.533	1,018.387	26.314
12/12/2005 7:22:55.936	923.533	1,018.437	26.364
12/12/2005 7:32:55.936	933.533	1,018.438	26.365
12/12/2005 7:42:55.936	943.533	1,018.443	26.370
12/12/2005 7:52:55.936	953.533	1,018.457	26.384
12/12/2005 8:02:55.936	963.533	1,018.470	26.397
12/12/2005 8:12:55.936	973.533	1,018.431	26.358
12/12/2005 8:22:55.936	983.533	1,018.484	26.411
12/12/2005 8:32:55.936	993.533	1,018.503	26.430
12/12/2005 8:42:55.936	1,003.533	1,018.460	26.387
12/12/2005 8:52:55.936	1,013.533	1,018.505	26.432
12/12/2005 9:02:55.936	1,023.533	1,018.509	26.436

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/12/2005 9:12:55.936	1,033.533	1,018.518	26.445
12/12/2005 9:22:55.936	1,043.533	1,018.516	26.443
12/12/2005 9:32:55.936	1,053.533	1,018.532	26.459
12/12/2005 9:42:55.936	1,063.533	1,018.492	26.419
12/12/2005 9:52:55.936	1,073.533	1,018.532	26.459
12/12/2005 10:02:55.936	1,083.533	1,018.497	26.424
12/12/2005 10:12:55.936	1,093.533	1,018.518	26.445
12/12/2005 10:22:55.936	1,103.533	1,018.545	26.472
12/12/2005 10:32:55.936	1,113.533	1,018.552	26.479
12/12/2005 10:42:55.936	1,123.533	1,018.534	26.461
12/12/2005 10:52:55.936	1,133.533	1,018.539	26.466
12/12/2005 11:02:55.936	1,143.533	1,018.508	26.435
12/12/2005 11:12:55.936	1,153.533	1,018.492	26.419
12/12/2005 11:22:55.936	1,163.533	1,018.535	26.462
12/12/2005 11:32:55.936	1,173.533	1,018.533	26.460
12/12/2005 11:42:55.936	1,183.533	1,018.531	26.458
12/12/2005 11:52:55.936	1,193.533	1,018.530	26.457
12/12/2005 12:02:55.936	1,203.533	1,018.519	26.446
12/12/2005 12:12:55.936	1,213.533	1,018.527	26.454
12/12/2005 12:22:55.936	1,223.533	1,018.530	26.457
12/12/2005 12:32:55.936	1,233.533	1,018.526	26.453
12/12/2005 12:42:55.936	1,243.533	1,018.481	26.408
12/12/2005 12:52:55.936	1,253.533	1,018.524	26.451
12/12/2005 13:02:55.936	1,263.533	1,018.521	26.448
12/12/2005 13:12:55.936	1,273.533	1,018.526	26.453
12/12/2005 13:22:55.936	1,283.533	1,018.533	26.460
12/12/2005 13:32:55.936	1,293.533	1,018.534	26.461
12/12/2005 13:42:55.936	1,303.533	1,018.539	26.466
12/12/2005 13:52:55.936	1,313.533	1,018.547	26.474
12/12/2005 14:02:55.936	1,323.533	1,018.536	26.463
12/12/2005 14:12:55.936	1,333.533	1,018.555	26.482
12/12/2005 14:22:55.936	1,343.533	1,018.550	26.477
12/12/2005 14:32:55.936	1,353.533	1,018.558	26.485
12/12/2005 14:42:55.936	1,363.533	1,018.522	26.449
12/12/2005 14:52:55.936	1,373.533	1,018.561	26.488
12/12/2005 15:02:55.936	1,383.533	1,018.575	26.502
12/12/2005 15:12:55.936	1,393.533	1,018.531	26.458
12/12/2005 15:22:55.936	1,403.533	1,018.568	26.495
12/12/2005 15:32:55.936	1,413.533	1,018.578	26.505
12/12/2005 15:42:55.936	1,423.533	1,018.552	26.479
12/12/2005 15:52:55.936	1,433.533	1,018.589	26.516
12/12/2005 16:02:55.936	1,443.533	1,018.601	26.528
12/12/2005 16:12:55.936	1,453.533	1,018.570	26.497
12/12/2005 16:22:55.936	1,463.533	1,018.621	26.548
12/12/2005 16:32:55.936	1,473.533	1,018.645	26.572
12/12/2005 16:42:55.936	1,483.533	1,018.605	26.532
12/12/2005 16:52:55.936	1,493.533	1,018.620	26.547
12/12/2005 17:02:55.936	1,503.533	1,018.673	26.600
12/12/2005 17:12:55.936	1,513.533	1,018.633	26.560
12/12/2005 17:22:55.936	1,523.533	1,018.627	26.554

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/12/2005 17:32:55.936	1,533.533	1,018.685	26.612
12/12/2005 17:42:55.936	1,543.533	1,018.642	26.569
12/12/2005 17:52:55.936	1,553.533	1,018.694	26.621
12/12/2005 18:02:55.936	1,563.533	1,018.695	26.622
12/12/2005 18:12:55.936	1,573.533	1,018.674	26.601
12/12/2005 18:22:55.936	1,583.533	1,018.698	26.625
12/12/2005 18:32:55.936	1,593.533	1,018.720	26.647
12/12/2005 18:42:55.936	1,603.533	1,018.722	26.649
12/12/2005 18:52:55.936	1,613.533	1,018.684	26.611
12/12/2005 19:02:55.936	1,623.533	1,018.730	26.657
12/12/2005 19:12:55.936	1,633.533	1,018.735	26.662
12/12/2005 19:22:55.936	1,643.533	1,018.747	26.674
12/12/2005 19:32:55.936	1,653.533	1,018.773	26.700
12/12/2005 19:42:55.936	1,663.533	1,018.764	26.691
12/12/2005 19:52:55.936	1,673.533	1,018.756	26.683
12/12/2005 20:02:55.936	1,683.533	1,018.764	26.691
12/12/2005 20:12:55.936	1,693.533	1,018.775	26.702
12/12/2005 20:22:55.936	1,703.533	1,018.785	26.712
12/12/2005 20:32:55.936	1,713.533	1,018.755	26.682
12/12/2005 20:42:55.936	1,723.533	1,018.796	26.723
12/12/2005 20:52:55.936	1,733.533	1,018.806	26.733
12/12/2005 21:02:55.936	1,743.533	1,018.773	26.700
12/12/2005 21:12:55.936	1,753.533	1,018.823	26.750
12/12/2005 21:22:55.936	1,763.533	1,018.832	26.759
12/12/2005 21:32:55.936	1,773.533	1,018.821	26.748
12/12/2005 21:42:55.936	1,783.533	1,018.823	26.750
12/12/2005 21:52:55.936	1,793.533	1,018.826	26.753
12/12/2005 22:02:55.936	1,803.533	1,018.826	26.753
12/12/2005 22:12:55.936	1,813.533	1,018.820	26.747
12/12/2005 22:22:55.936	1,823.533	1,018.840	26.767
12/12/2005 22:32:55.936	1,833.533	1,018.832	26.759
12/12/2005 22:42:55.936	1,843.533	1,018.805	26.732
12/12/2005 22:52:55.936	1,853.533	1,018.804	26.731
12/12/2005 23:02:55.936	1,863.533	1,018.857	26.784
12/12/2005 23:12:55.936	1,873.533	1,018.852	26.779
12/12/2005 23:22:55.936	1,883.533	1,018.855	26.782
12/12/2005 23:32:55.936	1,893.533	1,018.862	26.789
12/12/2005 23:42:55.936	1,903.533	1,018.902	26.829
12/12/2005 23:52:55.936	1,913.533	1,018.934	26.861
12/13/2005 0:02:55.936	1,923.533	1,018.936	26.863
12/13/2005 0:12:55.936	1,933.533	1,018.944	26.871
12/13/2005 0:22:55.936	1,943.533	1,018.950	26.877
12/13/2005 0:32:55.936	1,953.533	1,018.961	26.888
12/13/2005 0:42:55.936	1,963.533	1,018.920	26.847
12/13/2005 0:52:55.936	1,973.533	1,018.965	26.892
12/13/2005 1:02:55.936	1,983.533	1,018.959	26.886
12/13/2005 1:12:55.936	1,993.533	1,018.961	26.888
12/13/2005 1:22:55.936	2,003.533	1,018.957	26.884
12/13/2005 1:32:55.936	2,013.533	1,018.967	26.894
12/13/2005 1:42:55.936	2,023.533	1,018.964	26.891



KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/13/2005 1:52:55.936	2,033.533	1,018.942	26.869
12/13/2005 2:02:55.936	2,043.533	1,018.977	26.904
12/13/2005 2:12:55.936	2,053.533	1,018.942	26.869
12/13/2005 2:22:55.936	2,063.533	1,018.993	26.920
12/13/2005 2:32:55.936	2,073.533	1,018.993	26.920
12/13/2005 2:42:55.936	2,083.533	1,018.992	26.919
12/13/2005 2:52:55.936	2,093.533	1,018.989	26.916
12/13/2005 3:02:55.936	2,103.533	1,018.997	26.924
12/13/2005 3:12:55.936	2,113.533	1,018.998	26.925
12/13/2005 3:22:55.936	2,123.533	1,018.995	26.922
12/13/2005 3:32:55.936	2,133.533	1,018.959	26.886
12/13/2005 3:42:55.936	2,143.533	1,019.000	26.927
12/13/2005 3:52:55.936	2,153.533	1,019.000	26.927
12/13/2005 4:02:55.936	2,163.533	1,019.008	26.935
12/13/2005 4:12:55.936	2,173.533	1,019.008	26.935
12/13/2005 4:22:55.936	2,183.533	1,019.019	26.946
12/13/2005 4:32:55.936	2,193.533	1,019.023	26.950
12/13/2005 4:42:55.936	2,203.533	1,019.035	26.962
12/13/2005 4:52:55.936	2,213.533	1,019.031	26.958
12/13/2005 5:02:55.936	2,223.533	1,019.033	26.960
12/13/2005 5:12:55.936	2,233.533	1,019.037	26.964
12/13/2005 5:22:55.936	2,243.533	1,019.047	26.974
12/13/2005 5:32:55.936	2,253.533	1,019.055	26.982
12/13/2005 5:42:55.936	2,263.533	1,019.054	26.981
12/13/2005 5:52:55.936	2,273.533	1,019.062	26.989
12/13/2005 6:02:55.936	2,283.533	1,019.071	26.998
12/13/2005 6:12:55.936	2,293.533	1,019.071	26.998
12/13/2005 6:22:55.936	2,303.533	1,019.078	27.005
12/13/2005 6:32:55.936	2,313.533	1,019.089	27.016
12/13/2005 6:42:55.936	2,323.533	1,019.083	27.010
12/13/2005 6:52:55.936	2,333.533	1,019.079	27.006
12/13/2005 7:02:55.936	2,343.533	1,019.063	26.990
12/13/2005 7:12:55.936	2,353.533	1,019.112	27.039
12/13/2005 7:22:55.936	2,363.533	1,019.114	27.041
12/13/2005 7:32:55.936	2,373.533	1,019.116	27.043
12/13/2005 7:42:55.936	2,383.533	1,019.130	27.057
12/13/2005 7:52:55.936	2,393.533	1,019.100	27.027
12/13/2005 8:02:55.936	2,403.533	1,019.145	27.072
12/13/2005 8:12:55.936	2,413.533	1,019.139	27.066
12/13/2005 8:22:55.936	2,423.533	1,019.139	27.066
12/13/2005 8:32:55.936	2,433.533	1,019.148	27.075
12/13/2005 8:42:55.936	2,443.533	1,019.154	27.081
12/13/2005 8:52:55.936	2,453.533	1,019.154	27.081
12/13/2005 9:02:55.936	2,463.533	1,019.166	27.093
12/13/2005 9:12:55.936	2,473.533	1,019.149	27.076
12/13/2005 9:22:55.936	2,483.533	1,019.154	27.081
12/13/2005 9:32:55.936	2,493.533	1,019.165	27.092
12/13/2005 9:42:55.936	2,503.533	1,019.117	27.044
12/13/2005 9:52:55.936	2,513.533	1,019.143	27.070
12/13/2005 10:02:55.936	2,523.533	1,019.149	27.076

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/13/2005 10:12:55.936	2,533.533	1,019.114	27.041
12/13/2005 10:22:55.936	2,543.533	1,019.144	27.071
12/13/2005 10:32:55.936	2,553.533	1,019.107	27.034
12/13/2005 10:42:55.936	2,563.533	1,019.136	27.063
12/13/2005 10:52:55.936	2,573.533	1,019.134	27.061
12/13/2005 11:02:55.936	2,583.533	1,019.137	27.064
12/13/2005 11:12:55.936	2,593.533	1,019.127	27.054
12/13/2005 11:22:55.936	2,603.533	1,019.127	27.054
12/13/2005 11:32:55.936	2,613.533	1,019.084	27.011
12/13/2005 11:42:55.936	2,623.533	1,019.127	27.054
12/13/2005 11:52:55.936	2,633.533	1,019.125	27.052
12/13/2005 12:02:55.936	2,643.533	1,019.085	27.012
12/13/2005 12:12:55.936	2,653.533	1,019.117	27.044
12/13/2005 12:22:55.936	2,663.533	1,019.079	27.006
12/13/2005 12:32:55.936	2,673.533	1,019.114	27.041
12/13/2005 12:42:55.936	2,683.533	1,019.078	27.005
12/13/2005 12:52:55.936	2,693.533	1,019.078	27.005
12/13/2005 13:02:55.936	2,703.533	1,019.129	27.056
12/13/2005 13:12:55.936	2,713.533	1,019.124	27.051
12/13/2005 13:22:55.936	2,723.533	1,019.128	27.055
12/13/2005 13:32:55.936	2,733.533	1,019.102	27.029
12/13/2005 13:42:55.936	2,743.533	1,019.100	27.027
12/13/2005 13:52:55.936	2,753.533	1,019.108	27.035
12/13/2005 14:02:55.936	2,763.533	1,019.071	26.998
12/13/2005 14:12:55.936	2,773.533	1,019.069	26.996
12/13/2005 14:22:55.936	2,783.533	1,019.114	27.041
12/13/2005 14:32:55.947	2,793.533	1,019.106	27.033
12/13/2005 14:42:55.936	2,803.533	1,019.072	26.999
12/13/2005 14:52:55.936	2,813.533	1,019.108	27.035
12/13/2005 15:02:55.936	2,823.533	1,019.110	27.037
12/13/2005 15:12:55.936	2,833.533	1,019.128	27.055
12/13/2005 15:22:55.936	2,843.533	1,019.146	27.073
12/13/2005 15:32:55.936	2,853.533	1,019.148	27.075
12/13/2005 15:42:55.936	2,863.533	1,019.151	27.078
12/13/2005 15:52:55.936	2,873.533	1,019.151	27.078
12/13/2005 16:02:55.936	2,883.533	1,019.163	27.090
12/13/2005 16:12:55.936	2,893.533	1,019.163	27.090
12/13/2005 16:22:55.936	2,903.533	1,019.161	27.088
12/13/2005 16:32:55.936	2,913.533	1,019.168	27.095
12/13/2005 16:42:55.936	2,923.533	1,019.142	27.069
12/13/2005 16:52:55.936	2,933.533	1,019.178	27.105
12/13/2005 17:02:55.936	2,943.533	1,019.192	27.119
12/13/2005 17:12:55.936	2,953.533	1,019.186	27.113
12/13/2005 17:22:55.936	2,963.533	1,019.199	27.126
12/13/2005 17:32:55.936	2,973.533	1,019.203	27.130
12/13/2005 17:42:55.936	2,983.533	1,019.215	27.142
12/13/2005 17:52:55.936	2,993.533	1,019.211	27.138
12/13/2005 18:02:55.936	3,003.533	1,019.197	27.124
12/13/2005 18:12:55.936	3,013.533	1,019.223	27.150
12/13/2005 18:22:55.936	3,023.533	1,019.241	27.168

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/13/2005 18:32:55.936	3,033.533	1,019.200	27.127
12/13/2005 18:42:55.936	3,043.533	1,019.255	27.182
12/13/2005 18:52:55.936	3,053.533	1,019.255	27.182
12/13/2005 19:02:55.936	3,063.533	1,019.261	27.188
12/13/2005 19:12:55.936	3,073.533	1,019.278	27.205
12/13/2005 19:22:55.936	3,083.533	1,019.266	27.193
12/13/2005 19:32:55.936	3,093.533	1,019.265	27.192
12/13/2005 19:42:55.936	3,103.533	1,019.271	27.198
12/13/2005 19:52:55.936	3,113.533	1,019.273	27.200
12/13/2005 20:02:55.936	3,123.533	1,019.238	27.165
12/13/2005 20:12:55.936	3,133.533	1,019.277	27.204
12/13/2005 20:22:55.936	3,143.533	1,019.274	27.201
12/13/2005 20:32:55.936	3,153.533	1,019.292	27.219
12/13/2005 20:42:55.936	3,163.533	1,019.307	27.234
12/13/2005 20:52:55.936	3,173.533	1,019.266	27.193
12/13/2005 21:02:55.936	3,183.533	1,019.257	27.184
12/13/2005 21:12:55.936	3,193.533	1,019.312	27.239
12/13/2005 21:22:55.936	3,203.533	1,019.313	27.240
12/13/2005 21:32:55.936	3,213.533	1,019.287	27.214
12/13/2005 21:42:55.936	3,223.533	1,019.337	27.264
12/13/2005 21:52:55.936	3,233.533	1,019.343	27.270
12/13/2005 22:02:55.936	3,243.533	1,019.334	27.261
12/13/2005 22:12:55.936	3,253.533	1,019.330	27.257
12/13/2005 22:22:55.936	3,263.533	1,019.310	27.237
12/13/2005 22:32:55.936	3,273.533	1,019.341	27.268
12/13/2005 22:42:55.936	3,283.533	1,019.348	27.275
12/13/2005 22:52:55.936	3,293.533	1,019.312	27.239
12/13/2005 23:02:55.936	3,303.533	1,019.353	27.280
12/13/2005 23:12:55.936	3,313.533	1,019.352	27.279
12/13/2005 23:22:55.936	3,323.533	1,019.359	27.286
12/13/2005 23:32:55.936	3,333.533	1,019.355	27.282
12/13/2005 23:42:55.936	3,343.533	1,019.362	27.289
12/13/2005 23:52:55.936	3,353.533	1,019.317	27.244
12/14/2005 0:02:55.936	3,363.533	1,019.317	27.244
12/14/2005 0:12:55.936	3,373.533	1,019.361	27.288
12/14/2005 0:22:55.936	3,383.533	1,019.318	27.245
12/14/2005 0:32:55.936	3,393.533	1,019.334	27.261
12/14/2005 0:42:55.936	3,403.533	1,019.359	27.286
12/14/2005 0:52:55.936	3,413.533	1,019.342	27.269
12/14/2005 1:02:55.936	3,423.533	1,019.333	27.260
12/14/2005 1:12:55.936	3,433.533	1,019.364	27.291
12/14/2005 1:22:55.936	3,443.533	1,019.344	27.271
12/14/2005 1:32:55.936	3,453.533	1,019.384	27.311
12/14/2005 1:42:55.936	3,463.533	1,019.386	27.313
12/14/2005 1:52:55.936	3,473.533	1,019.388	27.315
12/14/2005 2:02:55.936	3,483.533	1,019.392	27.319
12/14/2005 2:12:55.936	3,493.533	1,019.370	27.297
12/14/2005 2:22:55.936	3,503.533	1,019.400	27.327
12/14/2005 2:32:55.936	3,513.533	1,019.406	27.333
12/14/2005 2:42:55.936	3,523.533	1,019.416	27.343

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/14/2005 2:52:55.936	3,533.533	1,019.386	27.313
12/14/2005 3:02:55.936	3,543.533	1,019.419	27.346
12/14/2005 3:12:55.936	3,553.533	1,019.417	27.344
12/14/2005 3:22:55.936	3,563.533	1,019.425	27.352
12/14/2005 3:32:55.936	3,573.533	1,019.430	27.357
12/14/2005 3:42:55.936	3,583.533	1,019.431	27.358
12/14/2005 3:52:55.936	3,593.533	1,019.389	27.316
12/14/2005 4:02:55.936	3,603.533	1,019.404	27.331
12/14/2005 4:12:55.936	3,613.533	1,019.494	27.421
12/14/2005 4:22:55.936	3,623.533	1,019.496	27.423
12/14/2005 4:32:55.936	3,633.533	1,019.459	27.386
12/14/2005 4:42:55.936	3,643.533	1,019.511	27.438
12/14/2005 4:52:55.936	3,653.533	1,019.509	27.436
12/14/2005 5:02:55.936	3,663.533	1,019.469	27.396
12/14/2005 5:12:55.936	3,673.533	1,019.524	27.451
12/14/2005 5:22:55.936	3,683.533	1,019.518	27.445
12/14/2005 5:32:55.936	3,693.533	1,019.492	27.419
12/14/2005 5:42:55.936	3,703.533	1,019.544	27.471
12/14/2005 5:52:55.936	3,713.533	1,019.568	27.495
12/14/2005 6:02:55.936	3,723.533	1,019.578	27.505
12/14/2005 6:12:55.936	3,733.533	1,019.536	27.463
12/14/2005 6:22:55.936	3,743.533	1,019.558	27.485
12/14/2005 6:32:55.936	3,753.533	1,019.537	27.464
12/14/2005 6:42:55.936	3,763.533	1,019.596	27.523
12/14/2005 6:52:55.936	3,773.533	1,019.574	27.501
12/14/2005 7:02:55.936	3,783.533	1,019.579	27.506
12/14/2005 7:12:55.936	3,793.533	1,019.587	27.514
12/14/2005 7:22:55.936	3,803.533	1,019.559	27.486
12/14/2005 7:32:55.936	3,813.533	1,019.599	27.526
12/14/2005 7:42:55.936	3,823.533	1,019.606	27.533
12/14/2005 7:52:55.936	3,833.533	1,019.612	27.539
12/14/2005 8:02:55.936	3,843.533	1,019.629	27.556
12/14/2005 8:12:55.936	3,853.533	1,019.648	27.575
12/14/2005 8:22:55.936	3,863.533	1,019.656	27.583
12/14/2005 8:32:55.936	3,873.533	1,019.660	27.587
12/14/2005 8:42:55.936	3,883.533	1,019.656	27.583
12/14/2005 8:52:55.936	3,893.533	1,019.661	27.588
12/14/2005 9:02:55.936	3,903.533	1,019.664	27.591
12/14/2005 9:12:55.936	3,913.533	1,019.659	27.586
12/14/2005 9:22:55.936	3,923.533	1,019.622	27.549
12/14/2005 9:32:55.936	3,933.533	1,019.621	27.548
12/14/2005 9:42:55.936	3,943.533	1,019.623	27.550
12/14/2005 9:52:55.936	3,953.533	1,019.677	27.604
12/14/2005 10:02:55.936	3,963.533	1,019.644	27.571
12/14/2005 10:12:55.936	3,973.533	1,019.628	27.555
12/14/2005 10:22:55.936	3,983.533	1,019.593	27.520
12/14/2005 10:32:55.936	3,993.533	1,019.619	27.546
12/14/2005 10:42:55.936	4,003.533	1,019.678	27.605
12/14/2005 10:52:55.936	4,013.533	1,019.593	27.520
12/14/2005 11:02:55.936	4,023.533	1,019.602	27.529

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/14/2005 11:12:55.936	4,033.533	1,019.628	27.555
12/14/2005 11:22:55.936	4,043.533	1,019.583	27.510
12/14/2005 11:32:55.936	4,053.533	1,019.612	27.539
12/14/2005 11:42:55.936	4,063.533	1,019.607	27.534
12/14/2005 11:52:55.936	4,073.533	1,019.559	27.486
12/14/2005 12:02:55.936	4,083.533	1,019.586	27.513
12/14/2005 12:12:55.936	4,093.533	1,019.579	27.506
12/14/2005 12:22:55.936	4,103.533	1,019.583	27.510
12/14/2005 12:32:55.936	4,113.533	1,019.506	27.433
12/14/2005 12:42:55.936	4,123.533	1,019.573	27.500
12/14/2005 12:52:55.936	4,133.533	1,019.506	27.433
12/14/2005 13:02:55.936	4,143.533	1,019.532	27.459
12/14/2005 13:12:55.936	4,153.533	1,019.535	27.462
12/14/2005 13:22:55.936	4,163.533	1,019.497	27.424
12/14/2005 13:32:55.936	4,173.533	1,019.479	27.406
12/14/2005 13:42:55.936	4,183.533	1,019.507	27.434
12/14/2005 13:52:55.936	4,193.533	1,019.480	27.407
12/14/2005 14:02:55.936	4,203.533	1,019.529	27.456
12/14/2005 14:12:55.936	4,213.533	1,019.476	27.403
12/14/2005 14:22:55.936	4,223.533	1,019.514	27.441
12/14/2005 14:32:55.936	4,233.533	1,019.470	27.397
12/14/2005 14:42:55.936	4,243.533	1,019.515	27.442
12/14/2005 14:52:55.936	4,253.533	1,019.500	27.427
12/14/2005 15:02:55.936	4,263.533	1,019.497	27.424
12/14/2005 15:12:55.936	4,273.533	1,019.497	27.424
12/14/2005 15:22:55.936	4,283.533	1,019.473	27.400
12/14/2005 15:32:55.936	4,293.533	1,019.505	27.432
12/14/2005 15:42:55.936	4,303.533	1,019.472	27.399
12/14/2005 15:52:55.936	4,313.533	1,019.474	27.401
12/14/2005 16:02:55.936	4,323.533	1,019.517	27.444
12/14/2005 16:12:55.936	4,333.533	1,019.514	27.441
12/14/2005 16:22:55.936	4,343.533	1,019.510	27.437
12/14/2005 16:32:55.936	4,353.533	1,019.477	27.404
12/14/2005 16:42:55.936	4,363.533	1,019.488	27.415
12/14/2005 16:52:55.936	4,373.533	1,019.489	27.416
12/14/2005 17:02:55.936	4,383.533	1,019.497	27.424
12/14/2005 17:12:55.936	4,393.533	1,019.491	27.418
12/14/2005 17:22:55.936	4,403.533	1,019.511	27.438
12/14/2005 17:32:55.936	4,413.533	1,019.541	27.468
12/14/2005 17:42:55.936	4,423.533	1,019.516	27.443
12/14/2005 17:52:55.936	4,433.533	1,019.551	27.478
12/14/2005 18:02:55.939	4,443.533	1,019.514	27.441
12/14/2005 18:12:55.936	4,453.533	1,019.530	27.457
12/14/2005 18:22:55.936	4,463.533	1,019.530	27.457
12/14/2005 18:32:55.938	4,473.533	1,019.541	27.468
12/14/2005 18:42:55.936	4,483.533	1,019.543	27.470
12/14/2005 18:52:55.936	4,493.533	1,019.577	27.504
12/14/2005 19:02:55.936	4,503.533	1,019.560	27.487
12/14/2005 19:12:55.936	4,513.533	1,019.558	27.485
12/14/2005 19:22:55.936	4,523.533	1,019.534	27.461

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/14/2005 19:32:55.936	4,533.533	1,019.568	27.495
12/14/2005 19:42:55.936	4,543.533	1,019.579	27.506
12/14/2005 19:52:55.936	4,553.533	1,019.555	27.482
12/14/2005 20:02:55.936	4,563.533	1,019.578	27.505
12/14/2005 20:12:55.936	4,573.533	1,019.567	27.494
12/14/2005 20:22:55.936	4,583.533	1,019.575	27.502
12/14/2005 20:32:55.936	4,593.533	1,019.570	27.497
12/14/2005 20:42:55.936	4,603.533	1,019.582	27.509
12/14/2005 20:52:55.936	4,613.533	1,019.579	27.506
12/14/2005 21:02:55.936	4,623.533	1,019.593	27.520
12/14/2005 21:12:55.936	4,633.533	1,019.596	27.523
12/14/2005 21:22:55.936	4,643.533	1,019.587	27.514
12/14/2005 21:32:55.936	4,653.533	1,019.597	27.524
12/14/2005 21:42:55.936	4,663.533	1,019.594	27.521
12/14/2005 21:52:55.936	4,673.533	1,019.598	27.525
12/14/2005 22:02:55.936	4,683.533	1,019.597	27.524
12/14/2005 22:12:55.936	4,693.533	1,019.596	27.523
12/14/2005 22:22:55.936	4,703.533	1,019.589	27.516
12/14/2005 22:32:55.936	4,713.533	1,019.591	27.518
12/14/2005 22:42:55.936	4,723.533	1,019.589	27.516
12/14/2005 22:52:55.936	4,733.533	1,019.586	27.513
12/14/2005 23:02:55.936	4,743.533	1,019.586	27.513
12/14/2005 23:12:55.936	4,753.533	1,019.574	27.501
12/14/2005 23:22:55.936	4,763.533	1,019.588	27.515
12/14/2005 23:32:55.936	4,773.533	1,019.579	27.506
12/14/2005 23:42:55.936	4,783.533	1,019.614	27.541
12/14/2005 23:52:55.936	4,793.533	1,019.575	27.502
12/15/2005 0:02:55.936	4,803.533	1,019.578	27.505
12/15/2005 0:12:55.936	4,813.533	1,019.578	27.505
12/15/2005 0:22:55.936	4,823.533	1,019.563	27.490
12/15/2005 0:32:55.936	4,833.533	1,019.574	27.501
12/15/2005 0:42:55.936	4,843.533	1,019.567	27.494
12/15/2005 0:52:55.936	4,853.533	1,019.571	27.498
12/15/2005 1:02:55.936	4,863.533	1,019.575	27.502
12/15/2005 1:12:55.936	4,873.533	1,019.570	27.497
12/15/2005 1:22:55.936	4,883.533	1,019.570	27.497
12/15/2005 1:32:55.936	4,893.533	1,019.573	27.500
12/15/2005 1:42:55.936	4,903.533	1,019.574	27.501
12/15/2005 1:52:55.936	4,913.533	1,019.584	27.511
12/15/2005 2:02:55.936	4,923.533	1,019.561	27.488
12/15/2005 2:12:55.936	4,933.533	1,019.563	27.490
12/15/2005 2:22:55.936	4,943.533	1,019.552	27.479
12/15/2005 2:32:55.936	4,953.533	1,019.554	27.481
12/15/2005 2:42:55.936	4,963.533	1,019.558	27.485
12/15/2005 2:52:55.936	4,973.533	1,019.558	27.485
12/15/2005 3:02:55.936	4,983.533	1,019.542	27.469
12/15/2005 3:12:55.936	4,993.533	1,019.507	27.434
12/15/2005 3:22:55.936	5,003.533	1,019.575	27.502
12/15/2005 3:32:55.936	5,013.533	1,019.539	27.466
12/15/2005 3:42:55.936	5,023.533	1,019.524	27.451

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/15/2005 3:52:55.936	5,033.533	1,019.478	27.405
12/15/2005 4:02:55.936	5,043.533	1,019.527	27.454
12/15/2005 4:12:55.936	5,053.533	1,019.518	27.445
12/15/2005 4:22:55.936	5,063.533	1,019.515	27.442
12/15/2005 4:32:55.936	5,073.533	1,019.518	27.445
12/15/2005 4:42:55.936	5,083.533	1,019.519	27.446
12/15/2005 4:52:55.936	5,093.533	1,019.537	27.464
12/15/2005 5:02:55.936	5,103.533	1,019.521	27.448
12/15/2005 5:12:55.936	5,113.533	1,019.521	27.448
12/15/2005 5:22:55.936	5,123.533	1,019.526	27.453
12/15/2005 5:32:55.936	5,133.533	1,019.523	27.450
12/15/2005 5:42:55.936	5,143.533	1,019.558	27.485
12/15/2005 5:52:55.936	5,153.533	1,019.517	27.444
12/15/2005 6:02:55.936	5,163.533	1,019.560	27.487
12/15/2005 6:12:55.936	5,173.533	1,019.535	27.462
12/15/2005 6:22:55.936	5,183.533	1,019.534	27.461
12/15/2005 6:32:55.936	5,193.533	1,019.536	27.463
12/15/2005 6:42:55.936	5,203.533	1,019.527	27.454
12/15/2005 6:52:55.936	5,213.533	1,019.536	27.463
12/15/2005 7:02:55.936	5,223.533	1,019.543	27.470
12/15/2005 7:12:55.936	5,233.533	1,019.537	27.464
12/15/2005 7:22:55.936	5,243.533	1,019.544	27.471
12/15/2005 7:32:55.936	5,253.533	1,019.523	27.450
12/15/2005 7:42:55.936	5,263.533	1,019.549	27.476
12/15/2005 7:52:55.936	5,273.533	1,019.552	27.479
12/15/2005 8:02:55.936	5,283.533	1,019.547	27.474
12/15/2005 8:12:55.936	5,293.533	1,019.551	27.478
12/15/2005 8:22:55.936	5,303.533	1,019.561	27.488
12/15/2005 8:32:55.936	5,313.533	1,019.540	27.467
12/15/2005 8:42:55.936	5,323.533	1,019.512	27.439
12/15/2005 8:52:55.936	5,333.533	1,019.519	27.446
12/15/2005 9:02:55.936	5,343.533	1,019.548	27.475
12/15/2005 9:12:55.936	5,353.533	1,019.550	27.477
12/15/2005 9:22:55.936	5,363.533	1,019.535	27.462
12/15/2005 9:32:55.936	5,373.533	1,019.536	27.463
12/15/2005 9:42:55.936	5,383.533	1,019.527	27.454
12/15/2005 9:52:55.936	5,393.533	1,019.521	27.448
12/15/2005 10:02:55.936	5,403.533	1,019.505	27.432
12/15/2005 10:12:55.936	5,413.533	1,019.493	27.420
12/15/2005 10:22:55.936	5,423.533	1,019.495	27.422
12/15/2005 10:32:55.936	5,433.533	1,019.480	27.407
12/15/2005 10:42:55.936	5,443.533	1,019.473	27.400
12/15/2005 10:52:55.936	5,453.533	1,019.471	27.398
12/15/2005 11:02:55.936	5,463.533	1,019.451	27.378
12/15/2005 11:12:55.936	5,473.533	1,019.448	27.375
12/15/2005 11:22:55.936	5,483.533	1,019.432	27.359
12/15/2005 11:32:55.936	5,493.533	1,019.393	27.320
12/15/2005 11:42:55.936	5,503.533	1,019.376	27.303
12/15/2005 11:52:55.936	5,513.533	1,019.410	27.337
12/15/2005 12:02:55.936	5,523.533	1,019.383	27.310

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Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/15/2005 12:12:55.936	5,533.533	1,019.413	27.340
12/15/2005 12:22:55.936	5,543.533	1,019.414	27.341
12/15/2005 12:32:55.936	5,553.533	1,019.353	27.280
12/15/2005 12:42:55.936	5,563.533	1,019.348	27.275
12/15/2005 12:52:55.936	5,573.533	1,019.379	27.306
12/15/2005 13:02:55.936	5,583.533	1,019.374	27.301
12/15/2005 13:12:55.936	5,593.533	1,019.298	27.225
12/15/2005 13:22:55.936	5,603.533	1,019.334	27.261
12/15/2005 13:32:55.936	5,613.533	1,019.380	27.307
12/15/2005 13:42:55.936	5,623.533	1,019.354	27.281
12/15/2005 13:52:55.936	5,633.533	1,019.320	27.247
12/15/2005 14:02:55.936	5,643.533	1,019.339	27.266
12/15/2005 14:12:55.936	5,653.533	1,019.302	27.229
12/15/2005 14:22:55.936	5,663.533	1,019.331	27.258
12/15/2005 14:32:55.936	5,673.533	1,019.350	27.277
12/15/2005 14:42:55.936	5,683.533	1,019.314	27.241
12/15/2005 14:52:55.936	5,693.533	1,019.351	27.278
12/15/2005 15:02:55.936	5,703.533	1,019.316	27.243
12/15/2005 15:12:55.936	5,713.533	1,019.348	27.275
12/15/2005 15:22:55.936	5,723.533	1,019.317	27.244
12/15/2005 15:32:55.936	5,733.533	1,019.309	27.236
12/15/2005 15:42:55.936	5,743.533	1,019.318	27.245
12/15/2005 15:52:55.936	5,753.533	1,019.316	27.243
12/15/2005 16:02:55.936	5,763.533	1,019.353	27.280
12/15/2005 16:12:55.936	5,773.533	1,019.317	27.244
12/15/2005 16:22:55.936	5,783.533	1,019.367	27.294
12/15/2005 16:32:55.936	5,793.533	1,019.328	27.255
12/15/2005 16:42:55.936	5,803.533	1,019.301	27.228
12/15/2005 16:52:55.936	5,813.533	1,019.358	27.285
12/15/2005 17:02:55.936	5,823.533	1,019.369	27.296
12/15/2005 17:12:55.936	5,833.533	1,019.324	27.251
12/15/2005 17:22:55.936	5,843.533	1,019.366	27.293
12/15/2005 17:32:55.936	5,853.533	1,019.349	27.276
12/15/2005 17:42:55.936	5,863.533	1,019.329	27.256
12/15/2005 17:52:55.936	5,873.533	1,019.372	27.299
12/15/2005 18:02:55.936	5,883.533	1,019.334	27.261
12/15/2005 18:12:55.936	5,893.533	1,019.379	27.306
12/15/2005 18:22:55.936	5,903.533	1,019.382	27.309
12/15/2005 18:32:55.936	5,913.533	1,019.345	27.272
12/15/2005 18:42:55.936	5,923.533	1,019.383	27.310
12/15/2005 18:52:55.936	5,933.533	1,019.360	27.287
12/15/2005 19:02:55.936	5,943.533	1,019.353	27.280
12/15/2005 19:12:55.936	5,953.533	1,019.389	27.316
12/15/2005 19:22:55.936	5,963.533	1,019.406	27.333
12/15/2005 19:32:55.936	5,973.533	996.496	4.423
12/15/2005 19:42:55.936	5,983.533	996.665	4.592
12/15/2005 19:52:55.936	5,993.533	995.978	3.905
12/15/2005 20:02:55.936	6,003.533	995.396	3.323
12/15/2005 20:12:55.936	6,013.533	995.102	3.029
12/15/2005 20:22:55.936	6,023.533	994.838	2.765



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Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/15/2005 20:32:55.936	6,033.533	994.672	2.599
12/15/2005 20:42:55.936	6,043.533	994.532	2.459
12/15/2005 20:52:55.936	6,053.533	994.439	2.366
12/15/2005 21:02:55.936	6,063.533	994.343	2.270
12/15/2005 21:12:55.936	6,073.533	994.282	2.209
12/15/2005 21:22:55.936	6,083.533	994.199	2.126
12/15/2005 21:32:55.936	6,093.533	994.123	2.050
12/15/2005 21:42:55.936	6,103.533	994.024	1.951
12/15/2005 21:52:55.936	6,113.533	993.991	1.918
12/15/2005 22:02:55.936	6,123.533	993.907	1.834
12/15/2005 22:12:55.936	6,133.533	993.871	1.798
12/15/2005 22:22:55.936	6,143.533	993.840	1.767
12/15/2005 22:32:55.936	6,153.533	993.817	1.744
12/15/2005 22:42:55.936	6,163.533	993.741	1.668
12/15/2005 22:52:55.936	6,173.533	993.718	1.645
12/15/2005 23:02:55.936	6,183.533	993.655	1.582
12/15/2005 23:12:55.936	6,193.533	993.628	1.555
12/15/2005 23:22:55.936	6,203.533	993.594	1.521
12/15/2005 23:32:55.936	6,213.533	993.568	1.495
12/15/2005 23:42:55.936	6,223.533	993.519	1.446
12/15/2005 23:52:55.936	6,233.533	993.495	1.422
12/16/2005 0:02:55.936	6,243.533	993.483	1.410
12/16/2005 0:12:55.936	6,253.533	993.450	1.377
12/16/2005 0:22:55.936	6,263.533	993.412	1.339
12/16/2005 0:32:55.936	6,273.533	993.379	1.306
12/16/2005 0:42:55.936	6,283.533	993.374	1.301
12/16/2005 0:52:55.936	6,293.533	993.325	1.252
12/16/2005 1:02:55.936	6,303.533	993.331	1.258
12/16/2005 1:12:55.936	6,313.533	993.267	1.194
12/16/2005 1:22:55.936	6,323.533	993.246	1.173
12/16/2005 1:32:55.936	6,333.533	993.217	1.144
12/16/2005 1:42:55.936	6,343.533	993.218	1.145
12/16/2005 1:52:55.936	6,353.533	993.189	1.116
12/16/2005 2:02:55.936	6,363.533	993.175	1.102
12/16/2005 2:12:55.936	6,373.533	993.158	1.085
12/16/2005 2:22:55.936	6,383.533	993.145	1.072
12/16/2005 2:32:55.936	6,393.533	993.133	1.060
12/16/2005 2:42:55.936	6,403.533	993.085	1.012
12/16/2005 2:52:55.936	6,413.533	993.089	1.016
12/16/2005 3:02:55.936	6,423.533	993.042	0.969
12/16/2005 3:12:55.936	6,433.533	993.062	0.989
12/16/2005 3:22:55.936	6,443.533	993.023	0.950
12/16/2005 3:32:55.936	6,453.533	993.046	0.973
12/16/2005 3:42:55.936	6,463.533	992.983	0.910
12/16/2005 3:52:55.936	6,473.533	992.960	0.887
12/16/2005 4:02:55.936	6,483.533	992.948	0.875
12/16/2005 4:12:55.936	6,493.533	992.922	0.849
12/16/2005 4:22:55.936	6,503.533	992.914	0.841
12/16/2005 4:32:55.936	6,513.533	992.909	0.836
12/16/2005 4:42:55.936	6,523.533	992.843	0.770

KPW-1 December 2005 Constant-Rate Test (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/16/2005 4:52:55.936	6,533.533	992.884	0.811
12/16/2005 5:02:55.936	6,543.533	992.829	0.756
12/16/2005 5:12:55.936	6,553.533	992.827	0.754
12/16/2005 5:22:55.936	6,563.533	992.820	0.747
12/16/2005 5:32:55.936	6,573.533	992.824	0.751
12/16/2005 5:42:55.936	6,583.533	992.813	0.740
12/16/2005 5:52:55.936	6,593.533	992.806	0.733
12/16/2005 6:02:55.936	6,603.533	992.742	0.669
12/16/2005 6:12:55.936	6,613.533	992.738	0.665
12/16/2005 6:22:55.936	6,623.533	992.724	0.651
12/16/2005 6:32:55.936	6,633.533	992.752	0.679
12/16/2005 6:42:55.936	6,643.533	992.696	0.623
12/16/2005 6:52:55.936	6,653.533	992.711	0.638
12/16/2005 7:02:55.936	6,663.533	992.731	0.658
12/16/2005 7:12:55.936	6,673.533	992.752	0.679
12/16/2005 7:22:55.936	6,683.533	992.693	0.620
12/16/2005 7:32:55.936	6,693.533	992.698	0.625
12/16/2005 7:42:55.936	6,703.533	992.664	0.591
12/16/2005 7:52:55.936	6,713.533	992.664	0.591
12/16/2005 8:02:55.936	6,723.533	992.667	0.594
12/16/2005 8:12:55.936	6,733.533	992.722	0.649
12/16/2005 8:22:55.936	6,743.533	992.692	0.619
12/16/2005 8:32:55.936	6,753.533	992.657	0.584

SE ROA 54198

JA\_18336

**Air Development Data for KPW-1**

Job \_\_\_\_\_ Project No. \_\_\_\_\_  
 Sheet \_\_\_\_\_ of \_\_\_\_\_

Description KPW-1 air lift swab (1) Computed by \_\_\_\_\_ Date \_\_\_\_\_

Checked by \_\_\_\_\_ Date \_\_\_\_\_

Reference

Date/Time	Time	HH	So. Core	TDI	Temp	Imp. Reading	Appearance - Intervals
11/7/05	4:50	begin	864	563	37.31	~1.5	Brown cloudy 2002-1985
275 gm	5:10	8:75	854	555	36.41	~0.6	
	5:20	8:81	847	557	40.21		
	5:30	8:82	843	548	39.91		
200 gm	5:40	8:84	842	547	40.04	~0.6	
11/7/05	6:00	Begin	820	533	39.91	~0.4	1985-1925
	6:20	8:82	868	532	39.72		
241 gm	6:30	8:85	823	535	40.61	~0.7	
	6:40	8:94	811	527	41.04		
203 gm	6:50	8:94	822	534	40.20	0.4	
	7:00	8:94					
191 gm	7:05	Begin	812	528	40.15	2.57	1965-1945
	7:25	8:93	811	527	40.55		
	7:35	8:92	810	521	41.53	0.3	
285 gm	7:45	8:91	813	528	41.81		
	7:55	8:89	811	520	40.91	0.2	
	8:05	8:89					
253	8:10	Begin	807	524	40.63	0.4	1945-1925
	8:30	8:86	804	523	43.15		
	8:40	8:85	899	519	42.57	0.3	
	8:50	8:98	799	520	42.41		
235	9:00	8:92	860	520	41.71	0.1	slightly cloudy
	9:05	8:92					

Job \_\_\_\_\_

Sheet \_\_\_\_\_ of \_\_\_\_\_

 Description KPW-1 airlift / Swab (1)

Project No. \_\_\_\_\_

Computed by \_\_\_\_\_

Date \_\_\_\_\_

Checked by \_\_\_\_\_

Date \_\_\_\_\_

Reference \_\_\_\_\_

Time	HA	SC	TDR	Temp	Imped	Appearance	Notes
9:15	8.96	786	511	38.41	0.2	lighter cloudy	1925-1926
9:35	9.03	778	504	40.48			
9:45	9.05	779	506	41.67	0.1		
9:55	9.11	791	508	40.91	0.2		
10:05	9.04	789	511	40.87			
<hr/>							
10:20	Begin						1905-1885
10:40	9.06	776	508	41.78	0.2	brown cloudy	
10:50	9.13	774	504	41.68		not as clear	filter pack on screen
11:00	9.18	782	508	42.31	0.8		
11:10	9.19	790	507	42.33			
11:20	8.53	783	509	42.41	0.3		
<hr/>							
11:40	Begin						1875-1875
11:45	8.96	783	509	40.67	0.7	light brown cloudy	
11:50	8.97	790	513	41.71			
12:00	9.02	793	516	41.64	0.4		
12:10							
12:20							









Job

Project No.

Description KPW-1 Airtight + Swabs (1)

Computed by SF

Sheet

of

Date 4/9/05

Checked by

Date

Interval	Time	gpm	pH	SE %	TD %/c	Temp	Inhal	Appearance	Reference
1470-1450	0730	-	-	-	-	-	-	-	-
(1465-1445)	0750	130	9.20	763	496	41.0/105.8	1.8	Brown/cloudy	-
	0800	-	9.23	765	497	43.2/109.8	-	-	-
	0810	114	9.21	759	494	44.2/111.6	1.0	-	-
1450-1430	0830	-	-	-	-	-	-	-	-
(1448-1425)	0750	128	9.19	757	492	40.5/104.9	0.9	Brown/cloudy	-
	0900	-	9.25	764	497	42.6/108.7	-	-	-
	0910	-	9.26	763	496	43.6/110.5	0.3	-	-
1430-1410	0750	-	-	-	-	-	-	-	-
(1425-1405)	0800	122	9.29	760	499	41.6/106.9	1.2	Brown/cloudy	-
	0820	-	9.32	766	498	42.4/108.9	-	-	-
	0830	118	9.28	768	499	44.2/111.6	0.8	-	-
1410-1390	1050	-	-	-	-	-	-	-	-
(1405-1385)	1110	118	9.24	762	495	43.4/110.1	0.8	light Brown/cloudy	-
	1120	-	9.33	762	495	44.7/112.5	-	-	-
	1130	115	9.29	763	496	45.1/113.1	0.4	-	-
1370-1350	1217	-	-	-	-	-	-	-	-
(1365-1345)	1237	119	9.23	761	495	43.0/109.5	0.3	lt brn cloudy	-
	1247	-	9.26	763	496	44.05/111.3	-	-	-
	1257	115	9.25	761	495	44.54/110.2	0.2	lt brn cloudy	-
1330-1310	1319	-	-	-	-	-	-	-	-
(1305-1285)	1339	115	9.33	749	487	42.45/108.4	2.5	H-m brn cloudy	-
	1349	-	9.19	762	495	44.15/111.5	-	-	-
	1359	116	9.27	760	494	43.50/110.3	0.5	H-m brn cloudy	-
1350-1330	1414	-	-	-	-	-	-	-	-
(1345-1325)	1434	113	9.24	756	491	42.95/109.3	1.0	lt brn cloudy	-
	1444	-	9.26	760	494	43.9/111.0	-	-	-
	1454	114	9.30	763	496	44.16/111.5	0.3	brn cloudy	-

Project No.       
 Computed by HJK  
 Checked by     

Job W-1 air lift Sub (1)  
 Description     

Reference	Date	Time	Flow	Pressure	Notes
1350-1310	11/14	15:34	9.31	7.55	Interval time
1350-1305	11/14	15:34	9.31	7.55	Interval time
1350-1290	11/14	16:18	9.27	7.53	Interval time
1350-1285	11/14	16:48	9.33	7.57	Interval time
1290-1270	11/13	17:18	9.29	7.60	Interval time
1290-1255	11/13	17:32	9.29	7.51	Interval time
1270-1250	11/16	18:16	9.29	7.45	Interval time
1250-1230	11/16	18:36	9.36	7.52	Interval time
1250-1220	11/16	18:56	9.31	7.55	Interval time
1250-1210	11/16	19:04	9.25	7.50	Interval time
1250-1205	11/16	19:19	9.25	7.50	Interval time
1210-1190	11/16	20:11	9.20	7.45	Interval time

Project No.       
 Computed by HX

Job Description KPLD-1 airlift swab (1)

Interval	Time	gpm	PH	SC <sub>45%</sub> (%)	TDS (mg/l)	T(°C/F)	Imhoff appearance	Reference
1190-1170	2:16	-	-	-	-	-	-	-
1185-1165	2:26	-	9.50	742	483	39.02/103.2	1.0	It brn / cloudy
1180-1150	2:56	-	9.45	744	487	39.85/103.2	-	-
1175-1145	2:41	7.8	9.48	746	485	39.27/103.2	0.20	-
1170-1150	2:31	-	-	-	-	-	-	-
1165-1145	2:31	-	9.37	742	482	37.64/99.8	1.0	It brn / cloudy
1150-1130	2:15	-	9.42	750	487	35.2 /	0.4	It brn, cloudy
1145-1125	00:36	<del>0.15</del>	9.37	742	486	37.2 /	0.2	It brn / cloudy
1140-1120	01:42	-	9.39	747	484	36.4 /	0.2	It brn / cloudy
1130-1110	01:42	-	9.52	737	479	36.1 /	0.7	brn / cloudy
1125-1105	01:56	60	9.43	747	486	35.8 /	-	It brn / cloudy
1120-1090	2:26	-	-	-	-	-	-	-
1110-1090	2:42	-	9.44	744	484	33.14 /	-	It brn, cloudy
1105-1085	2:56	57	9.43	744	484	34.43 /	0.2	It brn, cloudy
1095-1070	2:54	-	9.49	743	483	34.13 /	0.1	It brn, cloudy
1090-1070	03:25	-	-	-	-	-	-	-
1085-1065	3:55	39	9.49	743	483	34.14 /	0.2	It brn / cloudy
1080-1060	4:05	-	9.41	734	477	30.01	0.4	It brn / cloudy

Job       
Description K.P.W. - 1 final sound  
Project No.       
Computed by       
Checked by     

Time	Interval	Temp	SC w/cm	PH	gpm	Temp	Imhoff	Appearance
0938	1906-1900	0958	770	8.06	250	752	592	5.0
1023	(2001-1955)	1023	752	8.12	250	752	40.03/104.05	brown/cloudy
1028		1028	750	8.22	250	750	41.41/106.55	light brown
1102	1990-1970	1102	<del>746</del> 746	8.31	232	746	40.14/102.5	thick creamy
1123	(1988-1965)	1123	742	8.29	232	742	41.73/102.47	milky stringy
1133		1133	739	8.30	232	739	42.06/107.71	foam cloudy
1210	1970-1950	1210	733	8.33	232	733	42.27/108.3	cloudy
1300	1965-1945	1300	733	8.33	235	731	42.27/108.3	light brown/cloudy
1315	(1965)	1315	731	8.31	235	735	42.26/109.4	cloudy
1323		1323	733	8.32	232	733	42.66/110.6	cloudy
1332		1332	735	8.32	232	735	42.66/110.6	cloudy
1337	1950-1930	1337	735	8.46	204	735	44.02/111.2	light brown/cloudy
1345	(1945-1925)	1345	735	8.46	204	733	43.84/110.9	light brown/cloudy
1455	(1945-1925)	1455	733	8.40	204	732	43.84/110.9	light brown/cloudy
1503		1503	732	8.40	204	732	43.57/110.4	light brown/cloudy
1523	1910-1900	1523	731	8.33	198	731	43.25/109.9	light brown/cloudy
1542	1950-1925	1542	731	8.33	198	735	43.25/109.9	light brown/cloudy
1552	(1910-1900)	1552	732	8.30	201	732	43.20/109.8	light brown/cloudy
1623	1910-1900	1623	730	8.40	201	730	44.04/111.4	light brown/cloudy
1642	(1925-1905)	1642	730	8.40	201	732	44.41/111.9	light brown/cloudy
1658		1658	732	8.41	201	732	44.41/111.9	light brown/cloudy
1705		1705	726	8.44	201	726	44.22/111.6	milky/cloudy
1718	1830-1840	1718	722	8.34	201	722	44.28/104.00	light brown
1742	(1910-1881)	1742	722	8.34	201	722	44.28/104.00	light brown
1748		1748	722	8.34	201	722	44.28/104.00	light brown

Project No. \_\_\_\_\_  
Computed by \_\_\_\_\_  
Checked by \_\_\_\_\_

Job	Description	Final Swabs	Reference
gpa	Interval time	1810-1830	1810-1830
gpa	Interval time	1839	1805-1825
gpa	Interval time	1854	(ft 95)
gpa	Interval time	1909	1790-1810
gpa	Interval time	1921	1785-1805
gpa	Interval time	1941	(ft 95)
gpa	Interval time	1956	1805-1825
gpa	Interval time	2011	1770-1790
gpa	Interval time	2027	1765-1785
gpa	Interval time	2102	(ft 95)
gpa	Interval time	2117	1750-1770
gpa	Interval time	2143	1745-1765
gpa	Interval time	2158	(ft 95)
gpa	Interval time	2212	1730-1750
gpa	Interval time	2217	1725-1745
gpa	Interval time	2232	(ft 95)
gpa	Interval time	2252	1710-1730
gpa	Interval time	2317	1705-1725
gpa	Interval time	2337	(ft 95)
gpa	Interval time	2352	1695-1715
gpa	Interval time	2407	1690-1710
gpa	Interval time	2422	(ft 95)
gpa	Interval time	2437	1685-1705
gpa	Interval time	2452	(ft 95)
gpa	Interval time	2507	1680-1700
gpa	Interval time	2522	(ft 95)
gpa	Interval time	2537	1675-1695
gpa	Interval time	2552	(ft 95)
gpa	Interval time	2567	1670-1690
gpa	Interval time	2582	(ft 95)
gpa	Interval time	2597	1665-1685
gpa	Interval time	2612	(ft 95)
gpa	Interval time	2627	1660-1680
gpa	Interval time	2642	(ft 95)
gpa	Interval time	2657	1655-1675
gpa	Interval time	2672	(ft 95)
gpa	Interval time	2687	1650-1670
gpa	Interval time	2702	(ft 95)
gpa	Interval time	2717	1645-1665
gpa	Interval time	2732	(ft 95)
gpa	Interval time	2747	1640-1660
gpa	Interval time	2762	(ft 95)
gpa	Interval time	2777	1635-1655
gpa	Interval time	2792	(ft 95)
gpa	Interval time	2807	1630-1650
gpa	Interval time	2822	(ft 95)
gpa	Interval time	2837	1625-1645
gpa	Interval time	2852	(ft 95)
gpa	Interval time	2867	1620-1640
gpa	Interval time	2882	(ft 95)
gpa	Interval time	2897	1615-1635
gpa	Interval time	2912	(ft 95)
gpa	Interval time	2927	1610-1630
gpa	Interval time	2942	(ft 95)
gpa	Interval time	2957	1605-1625
gpa	Interval time	2972	(ft 95)
gpa	Interval time	2987	1600-1620
gpa	Interval time	3002	(ft 95)
gpa	Interval time	3017	1595-1615
gpa	Interval time	3032	(ft 95)
gpa	Interval time	3047	1590-1610
gpa	Interval time	3062	(ft 95)
gpa	Interval time	3077	1585-1605
gpa	Interval time	3092	(ft 95)
gpa	Interval time	3107	1580-1600
gpa	Interval time	3122	(ft 95)
gpa	Interval time	3137	1575-1595
gpa	Interval time	3152	(ft 95)
gpa	Interval time	3167	1570-1590
gpa	Interval time	3182	(ft 95)
gpa	Interval time	3197	1565-1585
gpa	Interval time	3212	(ft 95)
gpa	Interval time	3227	1560-1580
gpa	Interval time	3242	(ft 95)
gpa	Interval time	3257	1555-1575
gpa	Interval time	3272	(ft 95)
gpa	Interval time	3287	1550-1570
gpa	Interval time	3302	(ft 95)
gpa	Interval time	3317	1545-1565
gpa	Interval time	3332	(ft 95)
gpa	Interval time	3347	1540-1560
gpa	Interval time	3362	(ft 95)
gpa	Interval time	3377	1535-1555
gpa	Interval time	3392	(ft 95)
gpa	Interval time	3407	1530-1550
gpa	Interval time	3422	(ft 95)
gpa	Interval time	3437	1525-1545
gpa	Interval time	3452	(ft 95)
gpa	Interval time	3467	1520-1540
gpa	Interval time	3482	(ft 95)
gpa	Interval time	3497	1515-1535
gpa	Interval time	3512	(ft 95)
gpa	Interval time	3527	1510-1530
gpa	Interval time	3542	(ft 95)
gpa	Interval time	3557	1505-1525
gpa	Interval time	3572	(ft 95)
gpa	Interval time	3587	1500-1520
gpa	Interval time	3602	(ft 95)
gpa	Interval time	3617	1495-1515
gpa	Interval time	3632	(ft 95)
gpa	Interval time	3647	1490-1510
gpa	Interval time	3662	(ft 95)
gpa	Interval time	3677	1485-1505
gpa	Interval time	3692	(ft 95)
gpa	Interval time	3707	1480-1500
gpa	Interval time	3722	(ft 95)
gpa	Interval time	3737	1475-1495
gpa	Interval time	3752	(ft 95)
gpa	Interval time	3767	1470-1490
gpa	Interval time	3782	(ft 95)
gpa	Interval time	3797	1465-1485
gpa	Interval time	3812	(ft 95)
gpa	Interval time	3827	1460-1480
gpa	Interval time	3842	(ft 95)
gpa	Interval time	3857	1455-1475
gpa	Interval time	3872	(ft 95)
gpa	Interval time	3887	1450-1470
gpa	Interval time	3902	(ft 95)
gpa	Interval time	3917	1445-1465
gpa	Interval time	3932	(ft 95)
gpa	Interval time	3947	1440-1460
gpa	Interval time	3962	(ft 95)
gpa	Interval time	3977	1435-1455
gpa	Interval time	3992	(ft 95)
gpa	Interval time	4007	1430-1450

Job \_\_\_\_\_

Project No. \_\_\_\_\_

Sheet \_\_\_\_\_ of \_\_\_\_\_

Description KPM-1 Phat Suich

Computed by \_\_\_\_\_

Date 11/11/02

Checked by \_\_\_\_\_

Date \_\_\_\_\_

Sub-interval	Time	6 Am	pH	Sc w/son	TDS mg/L	Temp	Embuff	Appearance	Reference
1710-1690 (1705-1685)	0030 0050 0405 0120	— — 174 —	8.53 8.49 8.51	701 706 709	456 461 462	40.14/104.15 41.03/105.88 40.91/105.64	0.1 — 0.0	m. Turb — —	—
1830-1810	0126 0154	—	8.55 8.54	707 704	457 460	40.11/104.19 39.81/103.53	0.1	m. Turb	—
(1785-1820)	0211 0226	205	8.57	709	461	39.41/102.94	0.1	m. Turb	—
1670-1660	0236 0255	—	8.71	706	460	39.74/102.64	0.0	m. Turb	—
(1605-1645)	0310 0325	178	8.35 8.41	711 710	464 462	39.41/102.96 39.91/103.32	0.0	—	—
1650-1630	0331 0356	—	8.49	708	460	39.21/103.30	0.1	m. Turb	—
(1645-1630)	0411 0426	178	8.54 8.58	704 699	457 454	39.42/102.96 38.72/101.09	0.0	m. Turb	—
1630-1610	0437 0457 0512 0527	— — 162 —	8.50 8.43 8.45	720 707 700	468 460 465	40.14/105.15 39.64/103.35 39.37/102.87	0.2 — 0.0	— — m. Turb	—
(1610-1570)	0530 0550 0605 0620	— — 154 —	8.54 8.47 8.45	708 711 705	460 462 458	39.74/103.83 39.62/103.32 39.73/103.51	0.2 — 0.0	— — m. Turb	—
(1585-1585)	0633	—	8.60	702	459	38.93/102.07	0.1	—	—
1590-1570	0653 0700	— 142	8.46 8.60	711 707	467 455	38.14/101.55 38.79/101.82	— 0.0	— —	—
(1585-1565)	0723	—	8.60	707	455	38.79/101.82	0.0	—	—

Job \_\_\_\_\_

Project No. \_\_\_\_\_

Sheet \_\_\_\_\_ of \_\_\_\_\_

Description KPW-1 Final

Computed by \_\_\_\_\_

Date 11/12/02

Checked by \_\_\_\_\_

Date \_\_\_\_\_

Interval	Time	Q <sub>10</sub>	114	SC	TD5	Flow	Inflow	Appearance	Reference
1570-1580	0170	-	8:54	648	457	39.21/102.54	0.1	tan/m/ky	
(1581-1590)	0180	291	8:54	711	462	40.23/104.41	-	-	
(1591-1600)	0190	-	8:57	707	455	41.48/107.52	0.1	white/tan	
1570-1580	0180	-	8:58	710	467	39.21/102.54	0.2	tan	
(1581-1590)	0190	151	8:58	709	478	37.04/102.27	-	-	
(1591-1600)	0200	-	8:58	710	461	38.19/101.64	0.2	tan cloudy	
1570-1580	0200	-	8:58	699	454	40.71/105.14	1.4	brassy/cloudy	
(1581-1590)	0210	130	8:58	706	459	40.62/105.11	-	-	
(1591-1600)	0220	-	8:58	711	462	42.04/109.41	0.1	m/ky	
1570-1580	0230	-	8:58	708	459	41.65/106.97	0.8	tan/cloudy	
(1581-1590)	0240	131	8:58	709	466	40.91/105.59	-	-	
(1591-1600)	0250	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0260	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0270	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0280	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0290	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0300	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0310	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0320	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0330	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0340	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0350	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0400	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0410	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0420	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0430	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0440	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0450	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0500	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0510	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0520	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0530	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0540	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0550	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0600	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0610	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0620	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0630	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0640	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0650	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0700	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0710	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0720	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0730	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0740	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0750	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0800	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0810	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0820	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0830	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0840	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0850	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0900	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0910	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0920	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	0930	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	0940	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	0950	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1000	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1010	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1020	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1030	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1040	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1050	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1100	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1110	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1120	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1130	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1140	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1150	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1200	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1210	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1220	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1230	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1240	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1250	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1300	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1310	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1320	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1330	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1340	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1350	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1400	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1410	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1420	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1430	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1440	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1450	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1460	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1470	-	8:58	708	467	40.71/107.08	0.0	m/ky	
1570-1580	1480	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1581-1590)	1490	-	8:58	708	467	40.71/107.08	0.0	m/ky	
(1591-1600)	1500	-	8:58	708	467	40.71/107.08	0.0	m/ky	



Project No.  
Computed by  
Checked by

Job Description KRW - Final Search

Interval time	SPM	pH	SC ( $\mu\text{S}/\text{cm}^2$ )	TDS ( $\text{mg}/\text{l}$ )	T ( $^{\circ}\text{C}/\text{F}$ )	Inhoft appearance
1430-1435	1344	-	-	-	-	-
1435-1440	1404	-	8.64	713	463	43.88/11.8 0.1 ten f clouds
1440-1445	1419	129	8.69	718	466	44.17/11.5 -
1445-1450	1434	-	8.69	717	466	44.29/11.7 <0.1 It ten f clouds
1450-1455	1443	-	-	-	-	-
1455-1458	1503	-	8.69	711	462	43.66/11.0 0.1 ten f clouds
1458-1459	1518	127	8.63	712	463	44.17/11.5 -
1459-1410	1546	-	-	-	-	-
1459-1410	1533	-	8.66	715	465	44.38/11.4 ~0.0 It clouds
1459-1410	1606	-	8.60	709	461	42.61/10.7 0.25 It brn
1459-1410	1621	118	8.60	705	468	43.45/11.1 -
1459-1410	1636	-	8.68	714	464	44.08/11.3 ~0.0 cloudy
1370-1340	1642	112	-	-	-	-
1350-1330	1748	102	-	-	-	-
1330-1320	1847	92	-	-	-	-
1310-1320	1945	-	-	-	-	-
1305-1305	2020	-	8.85	704	457	42.95/10.9 0.2 It ten f clouds
1305-1305	2035	91	8.74	710	461	42.30/10.8 1 It ten f clouds
1290-1310	2048	-	-	-	-	-
1290-1310	2108	7	8.72	712	463	43.21/11.0 0.1 clouds / milk
1290-1310	2122	-	8.75	710	461	43.52/11.4 -
1290-1310	2138	89	8.75	709	462	43.68/11.6 ~0.0 clouds / milk
1270-1300	2143	-	-	-	-	-
1265-1285	2203	-	8.70	709	460	42.33/10.8 <0.1 It ten f clouds
1265-1285	2218	86	8.75	710	461	42.27/10.8 1 milk / It ten f clouds
1265-1285	2253	-	8.72	710	461	42.10/10.7 ~0.0

Interval	Time	SPM	PLA	SL (m <sup>3</sup> /m)	TDS (mg/l)	T (°C / °F)	Inhoff	appearance
1250-1251	0242	-	8.165	709	461	42.13/107.8	<0.1	hazy/cloudy
1251-1252	0243	76	8.172	710	482	42.30/108.1	-	-
1252-1253	0244	-	8.178	710	462	42.27/108.1	-	milk
1253-1254	0245	-	-	-	-	-	-	-
1254-1255	0000	78	8.178	699	454	38.41/101.14	<0.1	milk
1255-1256	0012	-	8.169	685	446	39.88/102.88	-	-
1256-1257	0026	-	8.171	687	446	38.61/101.50	<0.1	milk
1257-1258	0040	-	-	-	-	-	-	-
1258-1259	0055	-	8.179	685	445	38.41/101.14	<0.1	milk
1259-1260	0100	80	8.178	703	457	36.51/98.44	-	-
1260-1261	0105	-	8.164	682	444	36.19/97.65	<0.1	-
1261-1262	0110	-	-	-	-	-	-	-
1262-1263	0200	57	8.171	683	444	35.03/95.05	<0.1	h. brown / cloudy
1263-1264	0215	-	8.172	702	456	37.4/98.85	-	-
1264-1265	0230	-	8.178	700	455	36.79/98.44	<0.1	milk
1265-1266	0242	-	-	-	-	-	-	-
1266-1267	0300	-	8.160	703	457	34.81/94.66	0.1	h. brown
1267-1268	0315	46	8.164	704	457	35.4/96.33	-	-
1268-1269	0330	-	8.162	680	442	35.42/95.76	<0.1	milk
1269-1270	0345	-	-	-	-	-	-	-
1270-1271	0404	44	8.182	693	451	34.12/93.78	<0.1	h. brown
1271-1272	0420	-	8.173	695	452	34.76/94.57	-	-
1272-1273	0445	-	8.178	699	451	34.92/94.86	0.0	milk
1273-1274	0445	-	-	-	-	-	-	-
1274-1275	0505	43	8.181	701	455	34.43/93.97	<0.1	milk
1275-1276	0535	-	8.176	697	455	34.67/94.41	0.0	milk
1276-1277	0545	-	8.175	690	450	33.13/91.64	0.1	h. brown
1277-1278	0600	31	8.187	697	453	35.22/95.40	<0.1	milk
1278-1279	0630	-	-	-	-	-	-	-

SE ROA 54214

JA\_18352

**KPW-1 Pump Development**

Water Quality Parameters During Aquifer Testing

Date: 12/6/05  
 Well Name/Test Type: KPW-1  
 Static Water Level: 991.35  
 Start Time:

development - 1 day)  
 (before 24-hr shifts)

Location: KPW-1  
 Job Number:  
 Geologist: HK; SH

Time	Discharge (gpm)	Totalizer (gallons)	Water Level (feet bgs)	Drawdown (feet)	Temp. (°F)	pH	EC (uS/cm)	TDS (ppm)	Comments
12/5/05	12/5/05	-	-	-	-	-	-	-	STATIC: 991.35
1556	450	-	1017.06	25.21	131.5	7.91	655	425	spec cap: 17.5
1719	895	-	1052.4	61.05	130.27	7.75	666	430	spec cap: 14.6; turb: 14
1752	572	-	1054.3	62.95	130.21	7.60	658	429	spec cap: 14.2; turb: 7
			991.35	64.07					
12/6/05 0950	0905	-	1058.35	64.07	130.60	7.95	690	416	spec cap: 13.4; turb: 9
1022	930	-	1058.5	67.24	130.96	8.10	622	408	spec. cap: 13.8 turb: 11
1036	1050	-	1073.63	82.37	130.76	8.04	642	420	spec cap: 12.7 turb: 10
1136	1122	-	1081.5	90.29	130.67	7.94	620	406	spec cap: 12.4 turb: 19
1150	1117	-	1081.85	90.59	130.31	7.92	650	423	spec cap: 12.3 turb: 17
1230	1117	-	1081.32	90.06	130.95	7.12	648	421	spec. cap: 12.4 turb: 12
1255	-	-	1092.5	101.29	129.93	8.03	652	422	spec. cap: - turb: 27
1356	1233	-	1096.69	105.43	130.36	8.05	646	422	spec. cap: 11.7 turb: 18
1420	1373	-	1112.32	121.06	129.94	8.09	617	404	spec. cap 11.3 turb: 46
1443	1512	-	1130.92	139.56	130.13	7.91	612	411	spec. cap 10.8 turb: 70
1450	-	-	1132.2	-	-	-	-	-	Surge onset
1520	-	-	-	-	-	-	-	-	Surge receding
1540	-	-	992.52	-	-	-	-	-	
1550	-	-	-	-	-	-	-	-	Begin pumping
1556	1058	-	1067.42	76.16	130.40	7.98	387	253	spec. cap: 13.9 turb: 324
1615	1248	-	1086.65	95.39	130.88	8.02	646	421	spec. cap: 13.1 turb: 24
1633	1380	-	1102.65	111.37	130.92	8.00	648	422	spec. cap: 12.9 turb: 32
1640	-	-	-	-	-	-	-	-	Surge onset
1710	-	-	-	-	-	-	-	-	Surge second time.
1740	-	-	-	-	-	-	-	-	Begin pumping

W:\Forms\Water quality during development

Water Quality Parameters During Aquifer Testing

Date: 12/6/05  
 Well Name/Test Type: KPW-1  
 Static Water Level:  
 Start Time:

development

Location: KPW-1  
 Job Number:  
 Geologist: HK, SH

12/7/05

Time	Discharge (gpm)	Totalizer (gallons)	Water Level (feet bgs)	Drawdown (feet)	Temp. (C)	pH	EC (uS/cm)	TDS (ppm)	Comments
1745	1208	-	1082.67	91.41	131.15	8.11	648	422	spec. cap: 13.2 Turb: 28
1802	1200	-	1086.02	99.76	131.32	7.97	657	427	spec. cap: 12.7 Turb: 44
0740	-	-	991.35	-	-	-	-	-	Begin pumping - water at surface
0755	1054	-	1067.14	75.79	129.47	8.26	540	350	spec. cap: 14.1 Turb: 91
-	-	-	-	-	-	-	-	-	Discharge is slightly rusty.
0810	1593	-	1123.55	132.2	130.64	8.15	654	425	spec. cap: 12 Turb: 72 D: 31. cld.
0825	1589	-	1142.33	150.98	130.51	8.09	655	426	spec. cap: 10.5 Turb: 158
0842	1740	-	1155.2	161.85	130.59	8.02	654	425	spec. cap: 10.8 Turb: 203
0855	1737	-	1157.5	-	130.55	8.00	654	425	spec. cap: Turb: 163
0901	-	-	-	-	-	-	-	-	Surge once.
0931	-	-	-	-	-	-	-	-	Surge second time.
1000	-	-	-	-	-	-	-	-	Surge third time.
1030	-	-	-	-	-	-	-	-	Resume pumping.
1040	1091	-	1066.1	74.75	130.77	8.13	657	428	spec. cap: 14.6 Turb: 501
1055	1088	-	1069.65	78.3	130.29	8.12	398	259	spec. cap: 13.9 Turb: 39
1110	1669	-	1183.46	192.11	130.70	8.07	654	425	spec. cap: 8.7 Turb: 90
1125	1656	-	1147.6	156.25	130.71	8.01	651	423	spec. cap: 10.6 Turb: 53
1128	-	-	-	-	-	-	-	-	Surge once.

07.48

Water Quality Parameters During Aquifer Testing

Pg. 3 of 5 bk 5

Date: 12/7/05  
 Well Name/Test Type:  
 Static Water Level: 991.35  
 Start Time:

development

Location: KPW-i  
 Job Number: 2544322  
 Geologist: HK;SH

Time	Discharge (gpm)	Totalizer (gallons)	Water Level (feet bgs)	Drawdown (feet)	Temp. (°F)	pH	EC (uS/cm)	TDS (ppm)	Comments
12/7/05	-	-	-	-	-	-	-	-	-
1200	-	-	-	-	-	-	-	-	surge (second)
1240	-	-	-	-	-	-	-	-	third surge
1310	-	-	-	-	-	-	-	-	fourth surge
1340	-	-	-	-	-	-	-	-	grey/brown water
1355	1065	-	1068.7	77.35	129.56	8.20	389	250	SpCap = 13.77
1418	increasing flow to ~1750 gpm	-	-	-	-	-	-	-	-
1418	1754	-	-	-	-	-	-	-	water is fairly clear
1420	1752	239650	1145.45	154.1	130.11	8.04	656	425	SpCap 11.37
1425	1750	-	1149.40	158.05	-	-	-	-	SpCap 11.02
1430	1748	-	1150.55	159.20	-	-	-	-	SpCap 10.97
1430	-	-	-	-	-	-	-	-	end of pump → surge
1545	1068	-	1067.8	76.45	130.50	8.15	656	427	SpCap: 14 Turb: 119 *
1600	1724	-	1148.02	156.67	130.36	8.06	654	425	SpCap: 11 Turb: 90
1615	1713	-	1147.3	155.95	130.31	8.04	654	425	SpCap: 11 Turb: 61
1616	-	-	-	-	-	-	-	-	Surge once.
1646	-	-	-	-	-	-	-	-	Surge second time.
1715	-	-	-	-	-	-	-	-	Begin pumping.
1724	1785	-	1087.81	96.54	130.27	8.10	656	427	Sp. cap. 13.3 Turb: 292
1736	1751	-	1090.95	99.6	130.38	8.05	653	424	Sp. cap. 17.6 Turb: 37
1745	1726	-	1148.54	157.19	130.56	8.08	654	425	Sp. cap. 11 Turb: 60
<del>1755</del> 1755	-	-	-	-	-	-	-	-	Surge (1)
<del>1825</del> 1825	-	-	-	-	-	-	-	-	Surge (2)
1900	-	-	-	-	-	-	-	-	PUMP ON
1905	1305	-	-	-	-	-	-	-	brown w/ 15 sec rusty red pulse

W:\Forms\Water quality during development

\*At 1530, pumping at ~1,050 gpm discharge was grey/brown w/ a short pulse of rusty red  
 SE ROA 54218

Water Quality Parameters During Aquifer Testing

Date: 12/7/05  
 Well Name/Test Type: KPW-1  
 Static Water Level: 991.35  
 Start Time:

Location: KPW-1  
 Job Number: 23414322  
 Geologist: WK, SA

development

Time	Discharge (gpm)	Totalizer (gallons)	Water Level (feet bgs)	Drawdown (feet)	Temp. (°F)	pH	EC (uS/cm)	TDS (ppm)	Comments
1918	1245	-	-	-	129.02	8.23	653	424	- turb: 94
1922	1248	-	1091.64	100.29	-	-	-	-	Sp Cp: 12.94
1925	1925	-	1148.74	157.29	-	-	-	-	Sp Cp: 12.23 turb: HK
1935	1951	-	-	-	129.24	8.19	370	241	turb: 116
1950	1960	-	1748.78	157.40	-	-	-	-	pump off turb: 274
2020	1993	-	1148.78	157.40	-	-	-	-	Spec Cp: 12.94
2030	1995	-	1148.78	157.40	130.52	8.16	654	425	Spec Cp: 12.76
2035	2009	-	1145.44	154.07	-	-	-	-	Sp Cp: 13.52
2040	2003	-	-	-	130.10	8.13	653	424	Sp Cp: 12.03 turb: 121
2053	2044	-	1148.75	157.43	130.25	8.04	652	424	Sp Cp: 12.48 turb: 188
2106	-	-	-	-	-	-	-	-	stop pump to surge
2135	-	-	-	-	-	-	-	-	second surge
2205	-	-	-	-	-	-	-	-	stopping pump
2210	-	-	-	-	-	-	-	-	tan water / turb, pulse
2215	1715	-	1134.82	143.47	130.50	8.22	653	425	11.95 - 4cp turb: 109
2245	1707	-	1147.98	137.63	-	-	-	-	Sp Cp: 12.4
2250	-	-	-	-	-	-	-	-	stopping flow up
2250	2041	-	1148.52	138.17	130.53	8.06	652	424	Sp Cp: 14.23 turb: 109
2310	-	-	-	-	130.53	8.07	652	424	Sp Cp: HK turb: 87
2320	2037	-	1148.20	138.35	-	-	-	-	Sp Cp: 14.72
2321	-	-	-	-	-	-	-	-	starting to surge (1)
2350	-	-	-	-	-	-	-	-	Surge (2)

W:\forms\Water quality during development



Water Quality Parameters During Aquifer Testing

Date: 12/8/05  
 Well Name/Test Type:  
 Static Water Level: 991.35  
 Start Time:

Location:  
 Job Number:  
 Geologist:

Time	Discharge (gpm)	Totalizer (gallons)	Water Level (feet bgs)	Drawdown (feet)	Temp. (C)	pH	EC (uS/cm)	TDS (ppm)	Comments
0020	-	-	-	-	-	-	-	-	Surge (2)
0050	-	-	-	-	-	-	-	-	Surge (3)
0120	-	-	-	-	-	-	-	-	Begin pumping - Discharge is grayish Rusty red plate seen in discharge Turb: 100
0130	2040	-	Charging battery	-	130.87	8.19	655	426	
0156	2030	-	1147.6	156.25	130.64	8.21	653	424	Sp. Cp. 12.99 Turb: 130
0140	2027	-	1148.1	156.75	131.06	8.17	652	424	Sp. Cp. 12.93 Turb: 114
0150	2019	-	1148.97	157.62	131.01	8.11	652	424	Sp. Cp. 12.91 Turb: 99
0157	2007	-	1149.5	158.15	130.95	8.10	652	424	Sp. Cp. 12.69 Turb: 82
0200	-	-	-	-	-	-	-	-	Surge (1)
0230	-	-	-	-	-	-	-	-	Surge (2)
0300	-	-	-	-	-	-	-	-	Surge (3)
0330	-	-	-	-	-	-	-	-	Begin pumping. Discharge is grayish/ Rusty red plate lasts 21 sec. then clears.
0343	2032	-	1141.66	150.31	130.73	8.25	652	424	Sp. Cp. 13.52 Turb: 86
0350	2033	-	1145.99	154.64	130.50	8.22	651	423	Sp. Cp. 13.15 Turb: 78
0400	2032	-	1146.47	155.12	130.58	8.14	651	423	Sp. Cp. 13.1 Turb: 58
0410	2030	-	1150.52	159.17	130.25	8.11	651	423	Sp. Cp. 12.75 Turb: 57
0412	-	-	-	-	-	-	-	-	Surge (1)
0440	-	-	-	-	-	-	-	-	Surge (2)
0510	-	-	-	-	-	-	-	-	Begin pumping - Discharge is light grayish/brownish. Rusty red plate seen in discharge.
0523	2024	-	1143.57	152.22	130.80	8.17	653	424	Sp. Cp. 13.31 Turb: 93
0530	2023	-	1148.3	156.95	130.36	8.20	652	424	Sp. Cp. 12.95 Turb: 64
0540	2027	-	1150.51	159.16	130.65	8.14	651	423	Sp. Cp. 12.74 Turb: 53
0553	2033	-	1150.79	159.44	130.44	8.09	651	423	Sp. Cp. 12.75 Turb: 52

W:\Forms\Water quality during development

\* KSPW \*

Sounder make, model, S/N: Project: Job No.: Client:

Well Name	Description	Measurement Point		Measured DTW (ft bwp)	SPM Date/Time	time of pumping DTW (#bgs)	Comments
		DTW Height (ft ags)	DTW Height (ft ags)				
12/7/05 0750	STATIC WL	0740	991.35	72.86	1065	-	spec cap = 14.4 spec cap = 14.08
0800			1047.14	75.79	1067	10	spec cap 12.1
0805			1123.55	122.2	1600	0	spec cap 10.75
0815			1135.53	118.11	1590	10	spec cap 10.5
0825			1141.33	150.98	1738	0	spec cap 10.73
0830			1153.22	148.16	1730	10	spec cap 10.52
0855-1020	at SURGE W/ end of pump		1157.8	166.45	1730	15	spec cap 10.21
1035			1066.1	74.75	1140	0	spec cap 15.25
1045			1068.5	77.05	1088	10	spec cap 14.12
1055			1069.65	78.3	1088	20	spec cap 13.81
1105			1083.46	92.1	1668	20	spec cap 14.87
1115			1141.2	152.77	1660	10	spec cap 14.87
1125			1147.16	155.81	1657	15	spec cap 14.62
1215	first pump after surge		1067.81	76.41	1065	0	spec cap 13.92
1255			1068.7	77.35	1065	15	spec cap 13.77
1420			1150.53	157.20	1350	15	spec cap 10.47
1557			1048.02	156.67	1745	12	spec cap 11.18
1615	end of pump		1157.30	155.95	1744	0	spec cap 11.18
1931			1158.31	157.34	1925	0	spec cap 12.23
1950	end of pump		1158.78	157.43	1960	0	spec cap 12.44
2053			1158.75	157.43	2044	0	spec cap 12.98
2245			1147.98	137.63	1707	0	spec cap 12.5
2300			1148.52	138.17	2041	0	spec cap 14.77
2320			1148.70	138.25	2037	0	spec cap 14.72



SE ROA 54223

JA\_18361

### Field Water Quality Parameters for the Development of KMW-1

Date	Time	Flow (gpm)	pH	SC ( $\mu\text{S}/\text{cm}$ )	TDS* ( $\text{mg}/\text{L}$ )	Temperature ( $^{\circ}\text{F}$ )	Comments
10/13/2005	14:25	20	-	-	-	112.4	The mud is thinning.
10/13/2005	14:30	20-25	-	-	-	113.0	The mud is thin and has no significant solids. The flow is increasing slightly and starting to surge.
10/13/2005	14:35	25	-	-	-	113.7	
10/13/2005	14:45	25	-	-	-	114.0	
10/13/2005	14:47	-	-	-	-	-	Shut off air and add a rod.
10/13/2005	15:22	-	-	-	-	-	Air up
10/13/2005	15:33	25-35+	-	-	-	115.8	The mud is thinning.
10/13/2005	15:40	50	-	-	-	116.7	
10/13/2005	15:48	100	-	-	-	117.3	Flow to mud tank
10/13/2005	16:30	50-100	8.5	1,180	790.6	117.8	Light muddy appearance, brown
10/13/2005	17:00	-	8.5	1,160	777.2	117.3	Light muddy appearance, brown
10/13/2005	17:30	100	8.6	1,150	770.5	117.5	Light muddy appearance, brown
10/13/2005	18:00	100	8.6	1,130	757.1	117.6	Light brown, clearing
10/13/2005	19:00	100	8.6	1,120	750.4	117.6	Cloudy brown, clearing
10/13/2005	19:12	-	-	-	-	-	Shut off air
10/13/2005	20:15	-	-	-	-	-	Surged well 10 times by pressuring up to 400 psi; discharge clouded up considerably.
10/13/2005	20:30	100	8.6	1,170	783.9	116.0	Flow still at 100 gpm but looks like increase that was observed at 19:00.
10/13/2005	22:00	100	8.6	1,120	750.4	117.2	Slightly brown but clearing
10/14/2005	01:05	-	-	-	-	-	Surged well 5 times (to 400 psi) then unload; 433 psi to come around; will surge 5 times every 2 hours.
10/14/2005	15:15	100	8.6	1,130	757.1	117.1	Slightly cloudy, light gray
10/14/2005	06:00	-	8.6	1,130	757.1	117.1	Relocated meters and checked the last sample (00:15)
10/14/2005	06:30	-	-	-	-	-	Surged well 5 times; 448 psi to come around
10/14/2005	07:10	-	8.4	1,190	797.3	114.6	First sample after the purge. The water is turbid brown with fine sand.

\*TDS was calculated based on the SC, where  $\text{TDS} = 0.67 * \text{SC}$ .

**Field Water Quality Parameters for the Development of KMW-1**

Date	Time	Flow (gpm)	pH	SC ( $\mu\text{S}/\text{cm}$ )	TDS* ( $\text{mg}/\text{L}$ )	Temperature ( $^{\circ}\text{F}$ )	Comments
10/14/2005	09:00	-	8.6	1,120	750.4	117.6	Slightly to moderately cloudy.
10/14/2005	09:10	-	-	-	-	-	Surge 5 times
10/14/2005	09:30	-	8.5	1,110	743.7	117.0	Pale brown, cloudy with fine sand
10/14/2005	10:30	-	8.6	1,100	737.0	118.2	Light gray and cloudy
10/14/2005	10:45	-	8.5	1,100	737.0	---	Surge 5 times; turbid brown with fine sand
10/14/2005	11:40	-	8.6	1,100	737.0	118.2	Surge well 5 times; cloudy brownish gray
10/14/2005	12:35	-	8.5	1,090	730.3	118.4	Cloudy gray-brown
10/14/2005	13:30	-	8.5	1,100	737.0	118.5	Slightly cloudy light gray
10/14/2005	13:42	-	-	-	-	-	442 psi to come around; turbid brown with very fine sand & silt
10/14/2005	15:00	-	8.4	1,090	730.3	118.7	Moderately brown and cloudy
10/14/2005	15:15	-	-	-	-	-	End of development.

\*TDS was calculated based on the SC, where  $\text{TDS} = 0.67 * \text{SC}$ .

SE ROA 54226

JA\_18364

KPW-1 December 2005 Step-Discharge Test 2 (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/10/2005 7:00:35.814	0.000	990.445	0.000
12/10/2005 7:00:37.617	0.030	991.002	0.557
12/10/2005 7:00:39.474	0.061	992.285	1.840
12/10/2005 7:00:41.517	0.095	993.522	3.077
12/10/2005 7:00:43.614	0.130	993.278	2.833
12/10/2005 7:00:45.834	0.167	993.925	3.480
12/10/2005 7:00:48.234	0.207	995.870	5.425
12/10/2005 7:00:50.758	0.249	997.959	7.514
12/10/2005 7:00:53.394	0.293	1,000.196	9.751
12/10/2005 7:00:56.215	0.340	1,002.680	12.235
12/10/2005 7:00:59.214	0.390	1,006.016	15.571
12/10/2005 7:01:02.398	0.443	1,009.522	19.077
12/10/2005 7:01:05.754	0.499	1,013.591	23.146
12/10/2005 7:01:09.354	0.559	1,018.358	27.913
12/10/2005 7:01:12.954	0.619	1,023.864	33.419
12/10/2005 7:01:16.831	0.684	1,029.272	38.827
12/10/2005 7:01:17.081	0.688	1,030.332	39.887
12/10/2005 7:01:17.332	0.692	1,030.923	40.478
12/10/2005 7:01:17.582	0.696	1,030.181	39.736
12/10/2005 7:01:17.832	0.700	1,030.776	40.331
12/10/2005 7:01:18.082	0.704	1,031.409	40.964
12/10/2005 7:01:18.332	0.709	1,031.300	40.855
12/10/2005 7:01:18.607	0.713	1,032.616	42.171
12/10/2005 7:01:18.832	0.717	1,032.519	42.074
12/10/2005 7:01:19.082	0.721	1,032.337	41.892
12/10/2005 7:01:19.332	0.725	1,034.072	43.627
12/10/2005 7:01:19.582	0.729	1,033.328	42.883
12/10/2005 7:01:19.832	0.734	1,033.180	42.735
12/10/2005 7:01:20.082	0.738	1,034.676	44.231
12/10/2005 7:01:20.332	0.742	1,035.080	44.635
12/10/2005 7:01:20.582	0.746	1,034.560	44.115
12/10/2005 7:01:20.832	0.750	1,035.774	45.329
12/10/2005 7:01:21.082	0.754	1,036.983	46.538
12/10/2005 7:01:21.332	0.759	1,037.326	46.881
12/10/2005 7:01:21.582	0.763	1,037.793	47.348
12/10/2005 7:01:21.832	0.767	1,037.419	46.974
12/10/2005 7:01:22.082	0.771	1,038.137	47.692
12/10/2005 7:01:22.332	0.775	1,038.037	47.592
12/10/2005 7:01:22.582	0.779	1,038.563	48.118
12/10/2005 7:01:22.832	0.784	1,039.116	48.671
12/10/2005 7:01:23.191	0.790	1,041.134	50.689
12/10/2005 7:01:23.552	0.796	1,040.810	50.365
12/10/2005 7:01:23.971	0.803	1,041.471	51.026
12/10/2005 7:01:24.391	0.810	1,041.766	51.321
12/10/2005 7:01:24.811	0.817	1,042.541	52.096
12/10/2005 7:01:25.291	0.825	1,044.290	53.845
12/10/2005 7:01:25.831	0.834	1,044.144	53.699
12/10/2005 7:01:26.311	0.842	1,044.198	53.753
12/10/2005 7:01:26.911	0.852	1,045.958	55.513
12/10/2005 7:01:27.511	0.862	1,046.246	55.801



KPW-1 December 2005 Step-Discharge Test 2 (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/10/2005 7:01:28.111	0.872	1,045.910	55.465
12/10/2005 7:01:28.771	0.883	1,047.660	57.215
12/10/2005 7:01:29.491	0.895	1,049.033	58.588
12/10/2005 7:01:30.273	0.908	1,050.733	60.288
12/10/2005 7:01:31.051	0.921	1,052.380	61.935
12/10/2005 7:01:31.891	0.935	1,052.266	61.821
12/10/2005 7:01:32.791	0.950	1,054.167	63.722
12/10/2005 7:01:33.751	0.966	1,055.035	64.590
12/10/2005 7:01:34.711	0.982	1,056.165	65.720
12/10/2005 7:01:35.791	1.000	1,056.926	66.481
12/10/2005 7:01:36.931	1.019	1,058.747	68.302
12/10/2005 7:01:38.131	1.039	1,061.049	70.604
12/10/2005 7:01:39.391	1.060	1,061.044	70.599
12/10/2005 7:01:40.711	1.082	1,062.526	72.081
12/10/2005 7:01:42.151	1.106	1,064.443	73.998
12/10/2005 7:01:43.651	1.131	1,066.217	75.772
12/10/2005 7:01:45.212	1.157	1,067.790	77.345
12/10/2005 7:01:46.891	1.185	1,068.782	78.337
12/10/2005 7:01:48.694	1.215	1,070.407	79.962
12/10/2005 7:01:50.551	1.246	1,071.629	81.184
12/10/2005 7:01:52.643	1.280	1,073.966	83.521
12/10/2005 7:01:54.702	1.315	1,074.254	83.809
12/10/2005 7:01:56.911	1.352	1,077.639	87.194
12/10/2005 7:01:59.311	1.392	1,079.145	88.700
12/10/2005 7:02:01.831	1.434	1,080.054	89.609
12/10/2005 7:02:04.471	1.478	1,081.952	91.507
12/10/2005 7:02:07.291	1.525	1,083.301	92.856
12/10/2005 7:02:10.294	1.575	1,085.035	94.590
12/10/2005 7:02:13.471	1.628	1,086.813	96.368
12/10/2005 7:02:16.832	1.684	1,087.739	97.294
12/10/2005 7:02:20.435	1.744	1,090.324	99.879
12/10/2005 7:02:24.031	1.804	1,090.804	100.359
12/10/2005 7:02:28.232	1.874	1,093.121	102.676
12/10/2005 7:02:32.432	1.944	1,092.977	102.532
12/10/2005 7:02:36.633	2.014	1,096.515	106.070
12/10/2005 7:02:41.431	2.094	1,096.016	105.571
12/10/2005 7:02:46.831	2.184	1,096.238	105.793
12/10/2005 7:02:51.631	2.264	1,098.200	107.755
12/10/2005 7:02:57.631	2.364	1,095.077	104.632
12/10/2005 7:03:03.631	2.464	1,094.023	103.578
12/10/2005 7:03:09.632	2.564	1,092.617	102.172
12/10/2005 7:03:16.231	2.674	1,090.625	100.180
12/10/2005 7:03:23.431	2.794	1,088.394	97.949
12/10/2005 7:03:31.231	2.924	1,086.133	95.688
12/10/2005 7:03:39.031	3.054	1,084.947	94.502
12/10/2005 7:03:47.431	3.194	1,083.047	92.602
12/10/2005 7:03:56.431	3.344	1,080.620	90.175
12/10/2005 7:04:06.031	3.504	1,081.266	90.821
12/10/2005 7:04:15.631	3.664	1,084.475	94.030
12/10/2005 7:04:26.431	3.844	1,090.490	100.045

KPW-1 December 2005 Step-Discharge Test 2 (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/10/2005 7:04:37.831	4.034	1,096.871	106.426
12/10/2005 7:04:49.831	4.234	1,103.642	113.197
12/10/2005 7:05:02.431	4.444	1,108.586	118.141
12/10/2005 7:05:15.631	4.664	1,112.863	122.418
12/10/2005 7:05:30.031	4.904	1,117.283	126.838
12/10/2005 7:05:45.031	5.154	1,120.308	129.863
12/10/2005 7:06:00.631	5.414	1,123.685	133.240
12/10/2005 7:06:17.431	5.694	1,125.478	135.033
12/10/2005 7:06:35.431	5.994	1,128.331	137.886
12/10/2005 7:06:54.031	6.304	1,131.004	140.559
12/10/2005 7:07:14.431	6.644	1,132.852	142.407
12/10/2005 7:07:35.431	6.994	1,134.971	144.526
12/10/2005 7:07:57.631	7.364	1,137.126	146.681
12/10/2005 7:08:21.631	7.764	1,138.749	148.304
12/10/2005 7:08:46.831	8.184	1,139.575	149.130
12/10/2005 7:09:13.231	8.624	1,140.871	150.426
12/10/2005 7:09:41.431	9.094	1,142.604	152.159
12/10/2005 7:10:11.431	9.594	1,143.984	153.539
12/10/2005 7:10:43.231	10.124	1,145.952	155.507
12/10/2005 7:11:16.831	10.684	1,145.722	155.277
12/10/2005 7:11:52.831	11.284	1,146.167	155.722
12/10/2005 7:12:28.831	11.884	1,148.688	158.243
12/10/2005 7:13:10.831	12.584	1,148.437	157.992
12/10/2005 7:13:52.831	13.284	1,148.884	158.439
12/10/2005 7:14:34.831	13.984	1,150.667	160.222
12/10/2005 7:15:22.831	14.784	1,150.268	159.823
12/10/2005 7:16:16.831	15.684	1,152.156	161.711
12/10/2005 7:17:04.831	16.484	1,152.129	161.684
12/10/2005 7:18:04.831	17.484	1,153.057	162.612
12/10/2005 7:19:04.831	18.484	1,152.463	162.018
12/10/2005 7:20:04.831	19.484	1,153.655	163.210
12/10/2005 7:21:10.831	20.584	1,153.635	163.190
12/10/2005 7:22:22.831	21.784	1,154.459	164.014
12/10/2005 7:23:40.831	23.084	1,155.571	165.126
12/10/2005 7:24:58.831	24.384	1,155.625	165.180
12/10/2005 7:26:22.831	25.784	1,156.250	165.805
12/10/2005 7:27:52.831	27.284	1,157.505	167.060
12/10/2005 7:29:28.831	28.884	1,156.256	165.811
12/10/2005 7:31:04.831	30.484	1,156.780	166.335
12/10/2005 7:32:52.831	32.284	1,157.029	166.584
12/10/2005 7:34:46.831	34.184	1,157.672	167.227
12/10/2005 7:36:46.831	36.184	1,158.405	167.960
12/10/2005 7:38:52.831	38.284	1,157.861	167.416
12/10/2005 7:41:04.831	40.484	1,158.227	167.782
12/10/2005 7:43:28.831	42.884	1,157.760	167.315
12/10/2005 7:45:58.831	45.384	1,158.594	168.149
12/10/2005 7:48:34.831	47.984	1,159.938	169.493
12/10/2005 7:51:22.831	50.784	1,159.674	169.229
12/10/2005 7:54:22.831	53.784	1,159.675	169.230
12/10/2005 7:57:28.831	56.884	1,160.799	170.354

KPW-1 December 2005 Step-Discharge Test 2 (pumped well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/10/2005 8:00:52.831	60.284	1,160.696	170.251
12/10/2005 8:04:22.831	63.784	1,161.521	171.076
12/10/2005 8:08:04.831	67.484	1,161.866	171.421
12/10/2005 8:12:04.831	71.484	1,162.590	172.145
12/10/2005 8:16:16.831	75.684	1,162.964	172.519
12/10/2005 8:20:40.831	80.084	1,162.882	172.437
12/10/2005 8:25:22.831	84.784	1,163.346	172.901
12/10/2005 8:30:22.831	89.784	1,163.536	173.091
12/10/2005 8:35:40.831	95.084	1,163.997	173.552
12/10/2005 8:41:16.831	100.684	1,163.237	172.792
12/10/2005 8:47:16.831	106.684	1,164.670	174.225
12/10/2005 8:53:16.831	112.684	1,164.176	173.731
12/10/2005 9:00:16.831	119.684	1,164.889	174.444
12/10/2005 9:07:16.831	126.684	1,164.571	174.126
12/10/2005 9:14:16.831	133.684	1,164.804	174.359
12/10/2005 9:22:16.831	141.684	1,165.273	174.828
12/10/2005 9:31:16.831	150.684	1,165.203	174.758
12/10/2005 9:39:16.831	158.684	1,166.172	175.727
12/10/2005 9:49:16.831	168.684	1,165.312	174.867
12/10/2005 9:59:16.831	178.684	1,167.316	176.871
12/10/2005 10:09:16.831	188.684	1,167.075	176.630
12/10/2005 10:19:16.831	198.684	1,165.658	175.213
12/10/2005 10:29:16.831	208.684	1,167.004	176.559
12/10/2005 10:39:16.831	218.684	1,167.815	177.370
12/10/2005 10:49:16.831	228.684	1,166.722	176.277
12/10/2005 10:59:16.831	238.684	1,167.767	177.322
12/10/2005 11:09:16.831	248.684	1,168.340	177.895
12/10/2005 11:19:16.831	258.684	1,167.129	176.684
12/10/2005 11:29:16.833	268.684	1,166.512	176.067
12/10/2005 11:39:16.831	278.684	1,167.710	177.265
12/10/2005 11:49:16.831	288.684	1,167.887	177.442
12/10/2005 11:59:16.831	298.684	1,167.851	177.406
12/10/2005 12:09:16.831	308.684	1,167.961	177.516
12/10/2005 12:19:16.831	318.684	1,168.160	177.715
12/10/2005 12:29:16.831	328.684	1,168.690	178.245
12/10/2005 12:39:16.831	338.684	1,168.626	178.181
12/10/2005 12:49:16.831	348.684	1,168.835	178.390
12/10/2005 12:59:16.831	358.684	1,168.884	178.439
12/10/2005 13:09:16.831	368.684	980.929	-9.516
12/10/2005 13:19:16.831	378.684	992.805	2.360
12/10/2005 13:29:16.831	388.684	991.153	0.708
12/10/2005 13:39:16.831	398.684	990.764	0.319
12/10/2005 13:49:16.831	408.684	990.791	0.346
12/10/2005 13:59:16.831	418.684	990.810	0.365
12/10/2005 14:09:16.831	428.684	990.548	0.103

KPW-1 December 2005 Step-Discharge Test 2 (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/10/2005 7:00:36.464	0.000	992.065	0.000
12/10/2005 7:00:41.264	0.080	992.110	0.045
12/10/2005 7:00:47.264	0.180	992.056	-0.009
12/10/2005 7:00:53.264	0.280	992.063	-0.002
12/10/2005 7:00:59.264	0.380	992.101	0.036
12/10/2005 7:01:05.864	0.490	992.087	0.022
12/10/2005 7:01:13.064	0.610	992.142	0.077
12/10/2005 7:01:20.864	0.740	992.306	0.241
12/10/2005 7:01:28.664	0.870	992.615	0.550
12/10/2005 7:01:37.064	1.010	993.020	0.955
12/10/2005 7:01:46.064	1.160	993.524	1.459
12/10/2005 7:01:55.664	1.320	994.225	2.160
12/10/2005 7:02:05.264	1.480	994.915	2.850
12/10/2005 7:02:16.063	1.660	995.793	3.728
12/10/2005 7:02:27.464	1.850	996.638	4.573
12/10/2005 7:02:39.464	2.050	997.483	5.418
12/10/2005 7:02:52.063	2.260	998.308	6.243
12/10/2005 7:03:05.264	2.480	999.096	7.031
12/10/2005 7:03:19.664	2.720	999.846	7.781
12/10/2005 7:03:34.664	2.970	1,000.499	8.434
12/10/2005 7:03:50.263	3.230	1,001.044	8.979
12/10/2005 7:04:07.063	3.510	1,001.448	9.383
12/10/2005 7:04:25.063	3.810	1,001.736	9.671
12/10/2005 7:04:43.664	4.120	1,001.997	9.932
12/10/2005 7:05:04.063	4.460	1,002.399	10.334
12/10/2005 7:05:25.063	4.810	1,002.990	10.925
12/10/2005 7:05:47.263	5.180	1,003.700	11.635
12/10/2005 7:06:11.263	5.580	1,004.496	12.431
12/10/2005 7:06:36.464	6.000	1,005.273	13.208
12/10/2005 7:07:02.864	6.440	1,005.968	13.903
12/10/2005 7:07:31.063	6.910	1,006.659	14.594
12/10/2005 7:08:01.063	7.410	1,007.251	15.186
12/10/2005 7:08:32.864	7.940	1,007.884	15.819
12/10/2005 7:09:06.463	8.500	1,008.422	16.357
12/10/2005 7:09:42.463	9.100	1,008.956	16.891
12/10/2005 7:10:18.463	9.700	1,009.410	17.345
12/10/2005 7:11:00.463	10.400	1,009.937	17.872
12/10/2005 7:11:42.463	11.100	1,010.333	18.268
12/10/2005 7:12:24.463	11.800	1,010.717	18.652
12/10/2005 7:13:12.463	12.600	1,011.085	19.020
12/10/2005 7:14:06.463	13.500	1,011.490	19.425
12/10/2005 7:14:54.463	14.300	1,011.758	19.693
12/10/2005 7:15:54.463	15.300	1,012.126	20.061
12/10/2005 7:16:54.463	16.300	1,012.411	20.346
12/10/2005 7:17:54.463	17.300	1,012.662	20.597
12/10/2005 7:19:00.463	18.400	1,012.927	20.862
12/10/2005 7:20:12.463	19.600	1,013.173	21.108
12/10/2005 7:21:30.463	20.900	1,013.417	21.352
12/10/2005 7:22:48.463	22.200	1,013.639	21.574
12/10/2005 7:24:12.463	23.600	1,013.858	21.793

KPW-1 December 2005 Step-Discharge Test 2 (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/10/2005 7:25:42.463	25.100	1,014.071	22.006
12/10/2005 7:27:18.463	26.700	1,014.256	22.191
12/10/2005 7:28:54.463	28.300	1,014.444	22.379
12/10/2005 7:30:42.463	30.100	1,014.611	22.546
12/10/2005 7:32:36.463	32.000	1,014.783	22.718
12/10/2005 7:34:36.463	34.000	1,014.946	22.881
12/10/2005 7:36:42.463	36.100	1,015.057	22.992
12/10/2005 7:38:54.463	38.300	1,015.230	23.165
12/10/2005 7:41:18.463	40.700	1,015.355	23.290
12/10/2005 7:43:48.463	43.200	1,015.478	23.413
12/10/2005 7:46:24.463	45.800	1,015.606	23.541
12/10/2005 7:49:12.463	48.600	1,015.711	23.646
12/10/2005 7:52:12.463	51.600	1,015.811	23.746
12/10/2005 7:55:18.463	54.700	1,015.912	23.847
12/10/2005 7:58:42.463	58.100	1,016.022	23.957
12/10/2005 8:02:12.463	61.600	1,016.107	24.042
12/10/2005 8:05:54.463	65.300	1,016.281	24.216
12/10/2005 8:09:54.463	69.300	1,016.365	24.300
12/10/2005 8:14:06.463	73.500	1,016.491	24.426
12/10/2005 8:18:30.463	77.900	1,016.583	24.518
12/10/2005 8:23:12.463	82.600	1,016.661	24.596
12/10/2005 8:28:12.463	87.600	1,016.698	24.633
12/10/2005 8:33:30.463	92.900	1,016.781	24.716
12/10/2005 8:39:06.463	98.500	1,016.885	24.820
12/10/2005 8:45:06.463	104.500	1,016.940	24.875
12/10/2005 8:51:06.463	110.500	1,017.001	24.936
12/10/2005 8:58:06.463	117.500	1,017.036	24.971
12/10/2005 9:05:06.463	124.500	1,017.128	25.063
12/10/2005 9:12:06.463	131.500	1,017.146	25.081
12/10/2005 9:20:06.463	139.500	1,017.206	25.141
12/10/2005 9:29:06.463	148.500	1,017.304	25.239
12/10/2005 9:37:06.463	156.500	1,017.313	25.248
12/10/2005 9:47:06.463	166.500	1,017.360	25.295
12/10/2005 9:57:06.463	176.500	1,017.451	25.386
12/10/2005 10:07:06.463	186.500	1,017.493	25.428
12/10/2005 10:17:06.463	196.500	1,017.505	25.440
12/10/2005 10:27:06.463	206.500	1,017.553	25.488
12/10/2005 10:37:06.463	216.500	1,017.587	25.522
12/10/2005 10:47:06.463	226.500	1,017.582	25.517
12/10/2005 10:57:06.463	236.500	1,017.656	25.591
12/10/2005 11:07:06.463	246.500	1,017.685	25.620
12/10/2005 11:17:06.463	256.500	1,017.679	25.614
12/10/2005 11:27:06.463	266.500	1,017.730	25.665
12/10/2005 11:37:06.463	276.500	1,017.766	25.701
12/10/2005 11:47:06.463	286.500	1,017.768	25.703
12/10/2005 11:57:06.463	296.500	1,017.764	25.699
12/10/2005 12:07:06.463	306.500	1,017.822	25.757
12/10/2005 12:17:06.463	316.500	1,017.849	25.784
12/10/2005 12:27:06.463	326.500	1,017.825	25.760
12/10/2005 12:37:06.463	336.500	1,017.853	25.788

KPW-1 December 2005 Step-Discharge Test 2 (observation well)

Real Time	Elapsed Time	Level-DTW (ft)	Drawdown: s (ft)
12/10/2005 12:47:06.463	346.500	1,017.877	25.812
12/10/2005 12:57:06.463	356.500	1,017.905	25.840
12/10/2005 13:07:06.463	366.500	1,019.978	27.913
12/10/2005 13:17:06.463	376.500	997.298	5.233
12/10/2005 13:27:06.463	386.500	994.910	2.845
12/10/2005 13:37:06.463	396.500	994.105	2.040
12/10/2005 13:47:06.463	406.500	993.714	1.649
12/10/2005 13:57:06.463	416.500	993.489	1.424
12/10/2005 14:07:06.463	426.500	993.347	1.282