Aerial Map Source: Google Map, 01/05/2014.

LEGEND

- SB01 — TEMPORARY WELL LOCATION (PLUGGED)
- S01 — TEMPORARY SUMP
- MONITORING WELL LOCATION (PERMANENT WELL)
- 3.3 — BENZENE CONCENTRATION (mg/l)
- SCREENING LEVEL = 0.005 mg/l
- SPH — SEPARATE PHASE HYDROCARBON
- ISOCONTOUR OF BENZENE CONCENTRATION (mg/l)

0 220
SCALE IN FEET

NEW MEXICO
QUADRANGLE LOCATION

Western Refining
GALLUP REFINERY

PROJ. NO.: Western Refining | DATE: 06/30/15 | FILE: WestRef-bB41

FIGURE 10
BENZENE
CONCENTRATION MAP
MARCH 2015

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Suite 300
Austin, Texas 78759

Aerial Map Source: Google Map, 01/05/2014.

LEGEND

SB01	TEMPORARY WELL LOCATION (PLUGGED)
S01	TEMPORARY SUMP
	MONITORING WELL LOCATION (PERMANENT WELL)
0.019	1,1-DICHLOROETHANE CONCENTRATION (mg/l)
	SCREENING LEVEL = 0.025 mg/l
SPH	SEPARATE PHASE HYDROCARBON
	ISOCONTOUR OF 1,1-DICHLOROETHANE CONCENTRATION (mg/l)

0 220
SCALE IN FEET

NEW MEXICO
QUADRANGLE LOCATION

Western Refining
GALLUP REFINERY

PROJ. NO.: Western Refining | DATE: 06/30/15 | FILE: WestRef-bB40

FIGURE 11
1,1-DICHLOROETHANE
CONCENTRATION MAP
MARCH 2015

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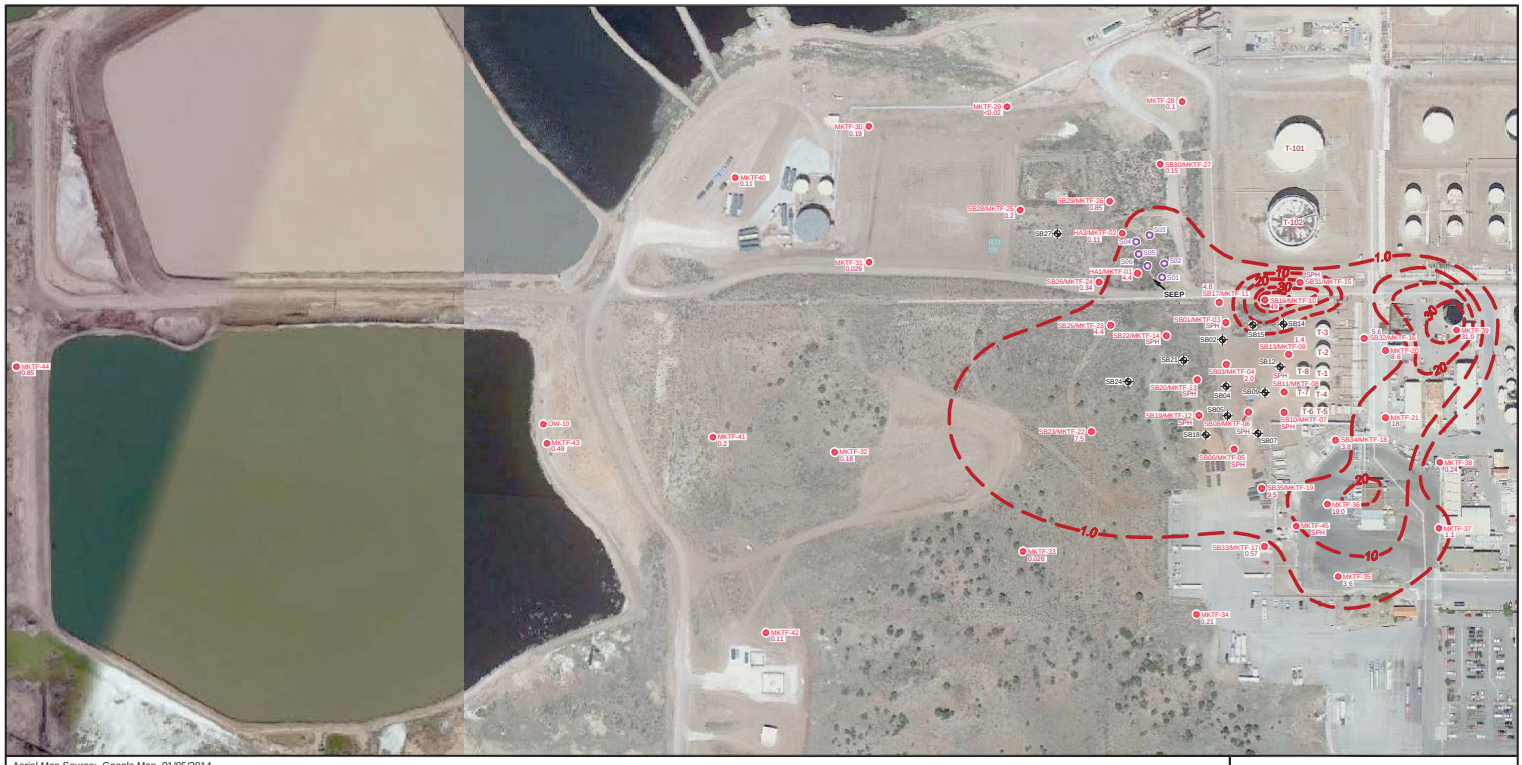
Suite 300
Austin, Texas 78759



Aerial Map Source: Google Map, 01/05/2014.

LEGEND

- SB01 — TEMPORARY WELL LOCATION (PLUGGED)
- S01 — TEMPORARY SUMP
- MONITORING WELL LOCATION (PERMANENT WELL)
- 0.026 — DISSLOVED IRON CONCENTRATION (mg/l)
- SCREENING LEVEL = 1.0 mg/l
- SPH — SEPARATE PHASE HYDROCARBON
- ISOCONTOUR OF DISSLOVED IRON CONCENTRATION (mg/l)

0 220
SCALE IN FEET

NEW MEXICO
QUADRANGLE LOCATION

Western Refining
GALLUP REFINERY

PROJ. NO.: Western Refining | DATE: 06/30/15 | FILE: WestRef-bB39

FIGURE 12
DISSOLVED IRON
CONCENTRATION MAP
MARCH 2015

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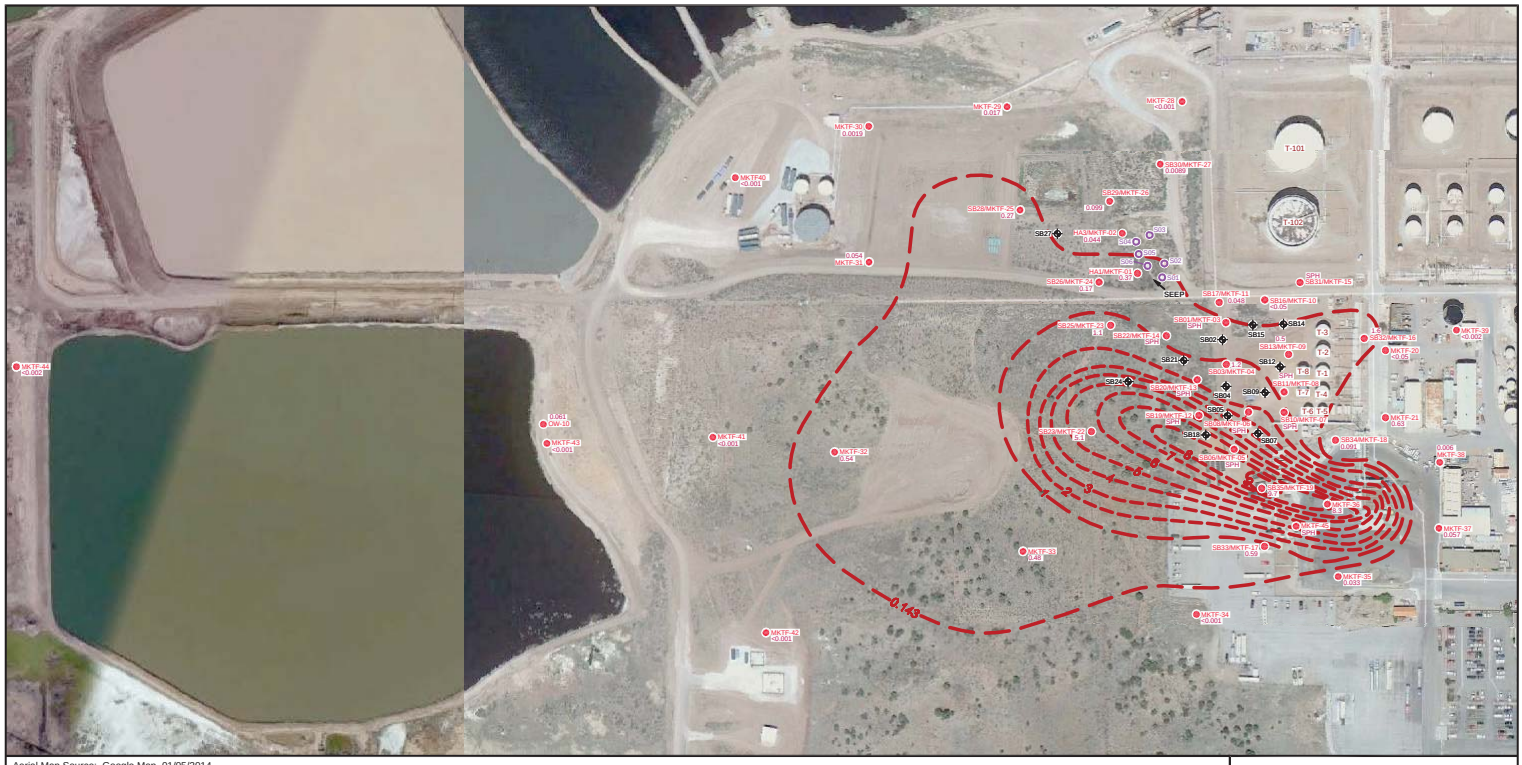

Aerial Map Source: Google Map, 01/05/2014.

LEGEND

SB01	TEMPORARY WELL LOCATION (PLUGGED)
S01	TEMPORARY SUMP
	MONITORING WELL LOCATION (PERMANENT WELL)
1.1	MTBE CONCENTRATION (mg/l)
	SCREENING LEVEL = 0.143 mg/l
SPH	SEPARATE PHASE HYDROCARBON
	ISOCONTOUR OF MTBE CONCENTRATION (mg/l)

0 220
SCALE IN FEET

NEW MEXICO
QUADRANGLE LOCATION

Western Refining
GALLUP REFINERY

PROJ. NO.: Western Refining | DATE: 06/30/15 | FILE: WestRef-bB42

FIGURE 13
MTBE
CONCENTRATION MAP
MARCH 2015

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Aerial Map Source: Google Map, 01/05/2014.

LEGEND

SB01	TEMPORARY WELL LOCATION (PLUGGED)
S01	TEMPORARY SUMP
	MONITORING WELL LOCATION (PERMANENT WELL)
0.3	NAPHTHALENE CONCENTRATION (mg/l)
	SCREENING LEVEL = 0.00165 mg/l
SPH	SEPARATE PHASE HYDROCARBON
	ISOCONTOUR OF NAPHTHALENE CONCENTRATION (mg/l)

0 220
SCALE IN FEET

NEW MEXICO
QUADRANGLE LOCATION

Western Refining
GALLUP REFINERY

PROJ. NO.: Western Refining | DATE: 06/30/15 | FILE: WestRef-bB38

FIGURE 14
NAPHTHALENE
CONCENTRATION MAP
MARCH 2015

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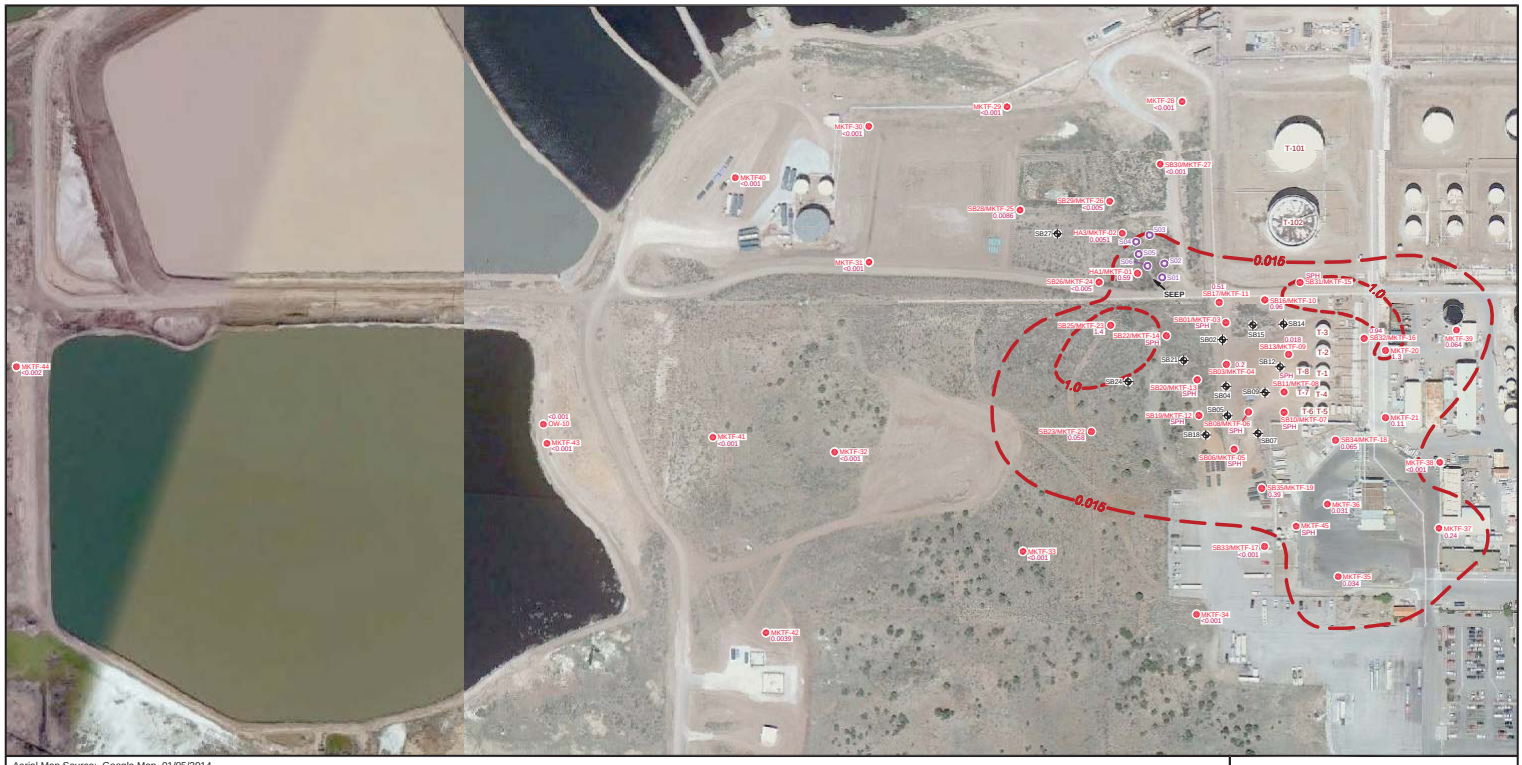

Aerial Map Source: Google Map, 01/05/2014.

LEGEND

SB01	TEMPORARY WELL LOCATION (PLUGGED)
S01	TEMPORARY SUMP
	MONITORING WELL LOCATION (PERMANENT WELL)
1.4	1,2,4-TRIMETHYLBENZENE CONCENTRATION (mg/l)
	SCREENING LEVEL = 0.015 mg/l
SPH	SEPARATE PHASE HYDROCARBON
	ISOCONTOUR OF 1,2,4-TRIMETHYLBENZENE CONCENTRATION (mg/l)

0 220
SCALE IN FEET

NEW MEXICO
QUADRANGLE LOCATION

Western Refining
GALLUP REFINERY

PROJ. NO.: Western Refining | DATE: 06/30/15 | FILE: WestRef-bB43

FIGURE 15
1,2,4-TRIMETHYLBENZENE
CONCENTRATION MAP
MARCH 2015

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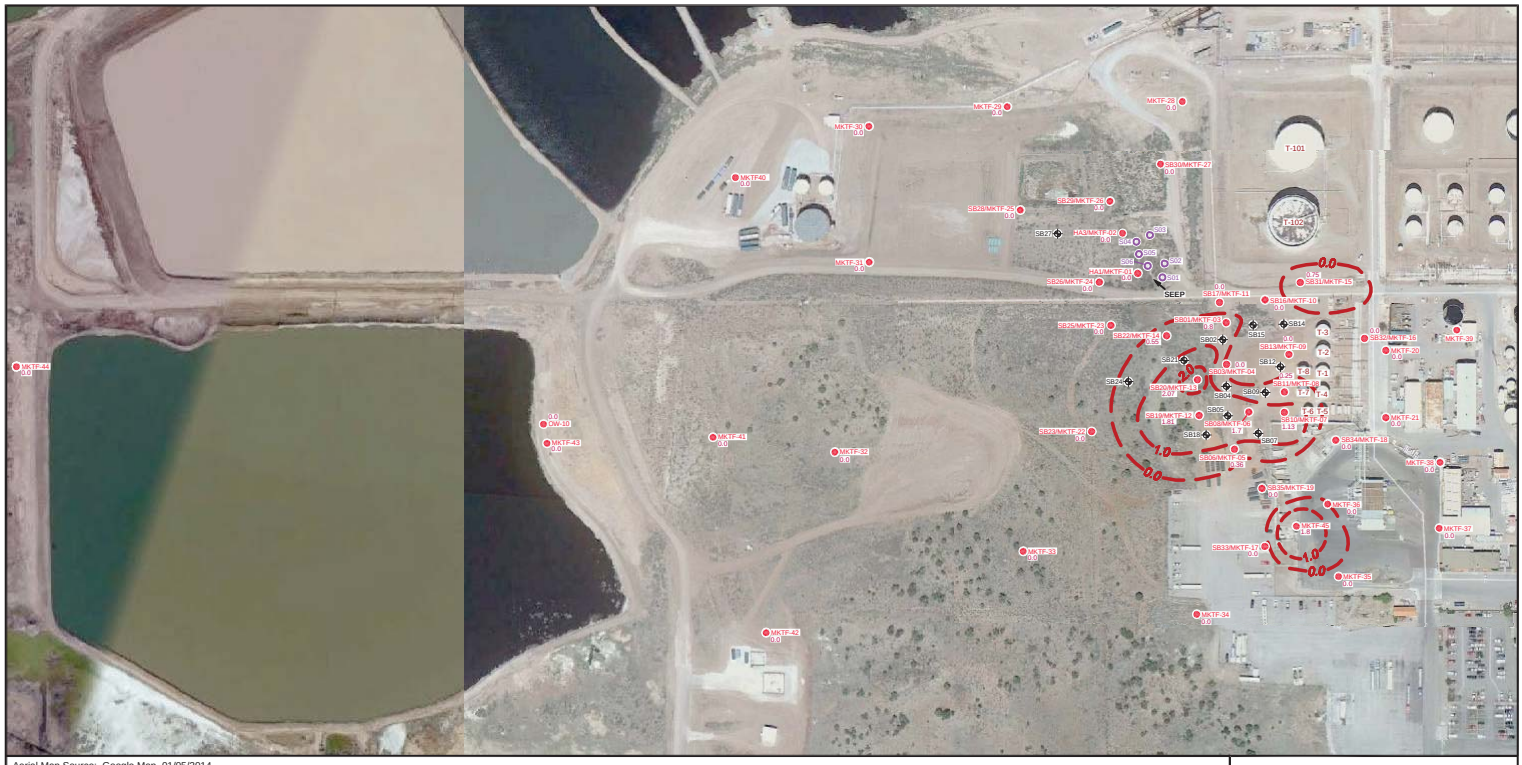

Aerial Map Source: Google Map, 01/05/2014.

LEGEND

SB01	TEMPORARY WELL LOCATION (PLUGGED)
S01	TEMPORARY SUMP
	MONITORING WELL LOCATION (PERMANENT WELL)
1.81	SEPARATE PHASE HYDROCARBON THICKNESS (FT)
	CONTOUR OF SEPARATE PHASE HYDROCARBON THICKNESS (FT)

0 220
SCALE IN FEET

NEW MEXICO
QUADRANGLE LOCATION

Western Refining
GALLUP REFINERY

PROJ. NO.: Western Refining | DATE: 06/30/15 | FILE: WestRef-bB44

FIGURE 16
SEPARATE PHASE
HYDROCARBON THICKNESS MAP
MARCH 2015

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Appendix A

Boring / Well Completion Logs

LOG OF BORING

Boring No.: HA2
Start Date: 7/11/2013 08:40
Finish Date: 7/11/2013 09:40

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: N/A
Drilling Rig: N/A
Drilling Method: Hand Auger
Sampling Method: Auger Head
Comments: N 35°29.353' W 108°25.785'

Total Depth: 9' bgl
Ground Water: Saturated @ 4.75' bgl
Elev., TOC (ft. msl): 212.86
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): 212.30
Site Coordinates:
N 3058.77 **W** 1182.85

Depth (ft.)	Sampling: Sample Depth	Sampling: Time	Sampling: Sample Type/ Container/No.	Sampling: Saturation	Sampling: Organic Vapor (ppm)	Sampling: USCS Class	Recovery (%)	Sample Description	Depth (ft.)
								Ground Surface	
0					15.4 86°F		100	**Silty Clay (CL)** Low plasticity, soft, damp, brown/reddish brown, no odor, damp	0
2									2
4				4.75'	15.6 86°F		100	**Silty Clay (CL)** Similar to above, moist to saturated at 4.75' bgl, gravelly, no odor	4
6					15.3 86°F		100	**Silty Clay (CL)** Similar to above with saturated sand seams, strong hydrocarbon odor, no phase-separated hydrocarbon	6
8					1250 86°F				8
10								Total Depth = 9' BGL Set temporary 1" Well Screened: 5-9' bgl Filter Pack: 2-9' bgl Bentonite:0-2' bgl Stickup: 0.5'	10
12									12
14									14
16									16

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LOG OF BORING

Boring No.: HA3
Start Date: 7/11/2013 12:45
Finish Date: 7/11/2013 13:45

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: N/A
Drilling Rig: N/A
Drilling Method: Hand Auger
Sampling Method: Auger Head
Comments: N 35°29.360' W 108°25.789'

Total Depth: 10.75' bgl
Ground Water: Saturated @ 9' bgl
Elev., TOC (ft. msl): 210.84
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): 210.24
Site Coordinates:
N 3098.06 **W** 1177.09

Depth (ft.)	Sampling: Sample Depth	Sampling: Time	Sampling: Sample Type/ Container/No.	Sampling: Saturation	Sampling: Organic Vapor (ppm)	Sampling: USCS Class	Recovery (%)	Sample Description	Depth (ft.)
0								Ground Surface	0
2					24.6 98°F		100	**Silty Clay (CL)** Low plasticity, firm, damp, brown-reddish brown, no odor	2
4									4
6					20.1 98°F 400 98°F		100	**Silty Clay (CL)** Similar to above, odor at 6' bgl with black discolorations	6
8				9'	933 98°F		100	**Sandy Clay (CL)** Low plasticity, soft, moist to saturated at 9' bgl, hydrocarbon odor, no phase-separated hydrocarbon	8
10					800 98°F		100	**Sandy Clay/Clayey Sand (SC/CL)** Fine grain, compact, saturated, dark brown, hydrocarbon odor, no phase-separated hydrocarbon	10
12								Total Depth = 10.75' BGL	12
14								Set temporary 1" Well Screened: 5.75-10.75' bgl Filter Pack: 2-10.75' bgl Bentonite: 0-2' bgl Stickup: 0.75'	14
16									16

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LOG OF BORING

Boring No.: HA4
Start Date: 7/11/2013 14:00
Finish Date: 7/11/2013 15:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: N/A
Drilling Rig: N/A
Drilling Method: Hand Auger
Sampling Method: Auger Head
Comments: N 35°29.363' W 108°25.787'

Total Depth: 7' bgl
Ground Water: Saturated @ 4' bgl
Elev., TOC (ft. msl): 211.26
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): 208.25
Site Coordinates:
N 3119.63 **W** 1190.00

Depth (ft.)	Sampling: Sample Depth	Sampling: Time	Sampling: Sample Type/ Container/No.	Sampling: Saturation	Sampling: Organic Vapor (ppm)	Sampling: USCS Class	Recovery (%)	Sample Description	Depth (ft.)
								Ground Surface	
0							100	**Silt (ML)** Low plasticity, soft, dry, light brown, no odor	0
2					8.2 384 90°F		100	**Sandy Gravelly Clay (CL)** Low plasticity, firm, damp, brown, no odor	2
4				4'	394 90°F		100	**Sandy Gravelly Clay (CL)** Similar to above, black, hydrocarbon odor, moist	4
6							100	**Sandy Gravelly Clay (CL)** Similar to above, saturated, oily, hydrocarbon odor, black to dark brown to brown	6
								Total Depth = 7' BGL	
8									8
10									10
12									12
14									14
16									16

Set temporary 1" Well
Screened: 2-7' bgl
Filter Pack: 1-7' bgl
Bentonite:0-1' bgl
Stickup: 3.25'

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LOG OF BORING

Boring No.: HA5
Start Date: 7/11/2013 15:10
Finish Date: 7/11/2013 16:15

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: N/A
Drilling Rig: N/A
Drilling Method: Hand Auger
Sampling Method: Auger Head
Comments:

Total Depth: 8' bgl
Ground Water: Saturated @ 5.5' bgl
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N **E**

Depth (ft.)	Sampling: Sample Depth	Sampling: Time	Sampling: Sample Type/ Container/No.	Sampling: Saturation	Sampling: Organic Vapor (ppm)	Sampling: USCS Class	Recovery (%)	Sample Description	Depth (ft.)
								Ground Surface	
0							100	**Silt (ML)** Low plasticity, very dense, dry to damp, brown, no odor	0
2					8.5 80°F		100	**Sandy Clay/Clayey Sand (CL)** Low plasticity, fine grain, compact, brown, no odor	2
4				5.5'					4
6					19.4 112 80°F		100	**Clayey Sand (SC)** Similar to above, saturated at 5.5' bgl, becomes black, oily, hydrocarbon odor	6
8								Total Depth = 8' BGL	8
10									10
12									12
14									14
16									16

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WELL INSTALLATION

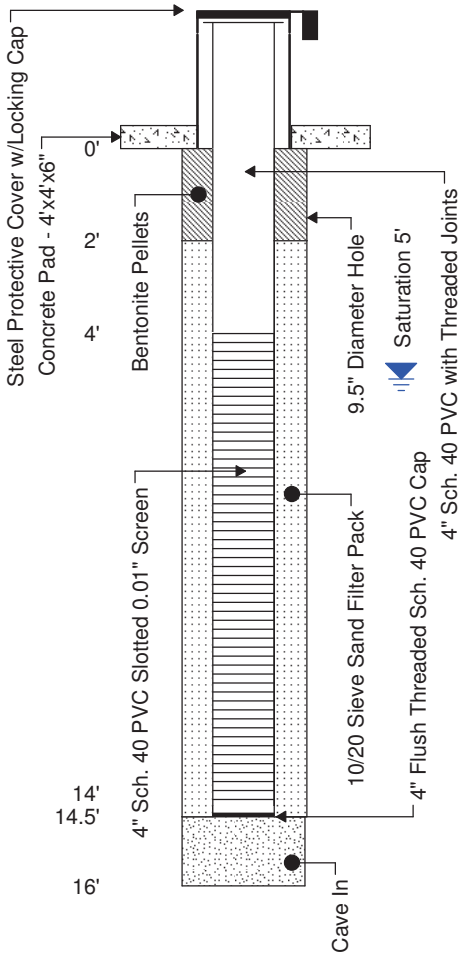
Well No.: MKTF-01
Start Date: 11/14/2013
Finish Date: 11/14/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.346' W 108°25.782'; Boring ID - HA1

Total Depth: 16' bgl
Ground Water: Saturated @ 5' bgl
Elev., TOC (ft. msl): 6920.67
Elev., PAD (ft. msl): 6918.28
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,864.41 **E** 2,545,561.73

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
0 to 5				100	**Silty Clay (CL)** Low plasticity, soft, damp, reddish brown to brown, no odor
5		5'			
5 to 15				100	**Silty Clay/Clayey Silt (CL/ML)** Low plasticity, very soft, moist to saturated, brown grading to black, gravelly, bio odor, no phase-separated hydrocarbon
					Total Depth = 16' BGL

Completion Results



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WELL INSTALLATION

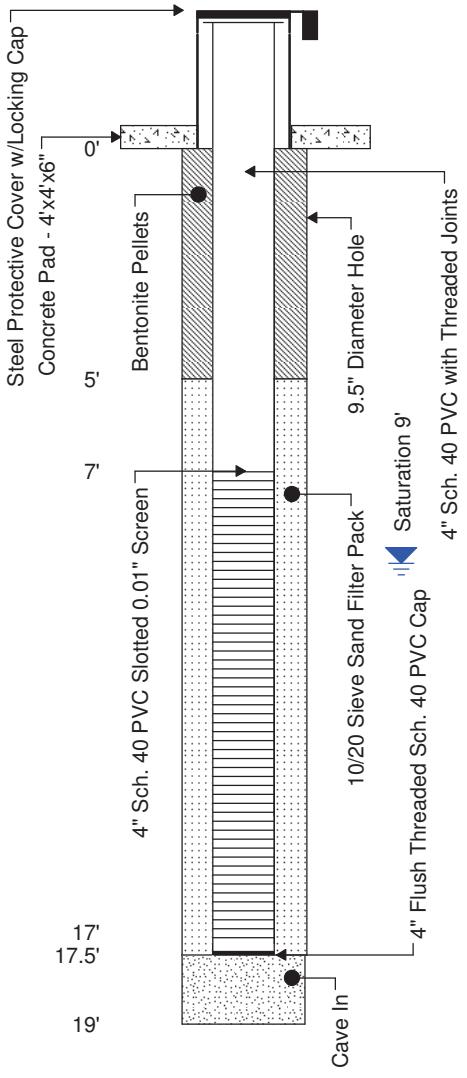
Well No.: MKTF-02
Start Date: 11/14/2013
Finish Date: 11/14/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.360' W 108°25.789'; Boring ID HA3

Total Depth: 19' bgl
Ground Water: Saturated @ 9' bgl
Elev., TOC (ft. msl): 6917.45
Elev., PAD (ft. msl): 6915.00
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,946.93 **E** 2,545,530.46

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
0					Ground Surface
1					**Silty Clay (CL)** Low plasticity, firm, damp, brown-reddish brown, no odor
3	24.6			100	
5	20.1				**Silty Clay (CL)** Similar to above, odor at 6' bgl with black discoloration
7	400			100	
9	933 800	9'		100	**Sandy Clay (CL)** Low plasticity, soft, moist to saturated at 9' bgl, hydrocarbon odor, no phase-separated hydrocarbon
11					**Sandy Clay/Clayey Sand (SC/CL)** Fine grain, compact, saturated, dark brown, hydrocarbon odor, no phase-separated hydrocarbon
13					
15				100	
17					
19					Total Depth = 19' BGL

Completion Results



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WELL INSTALLATION

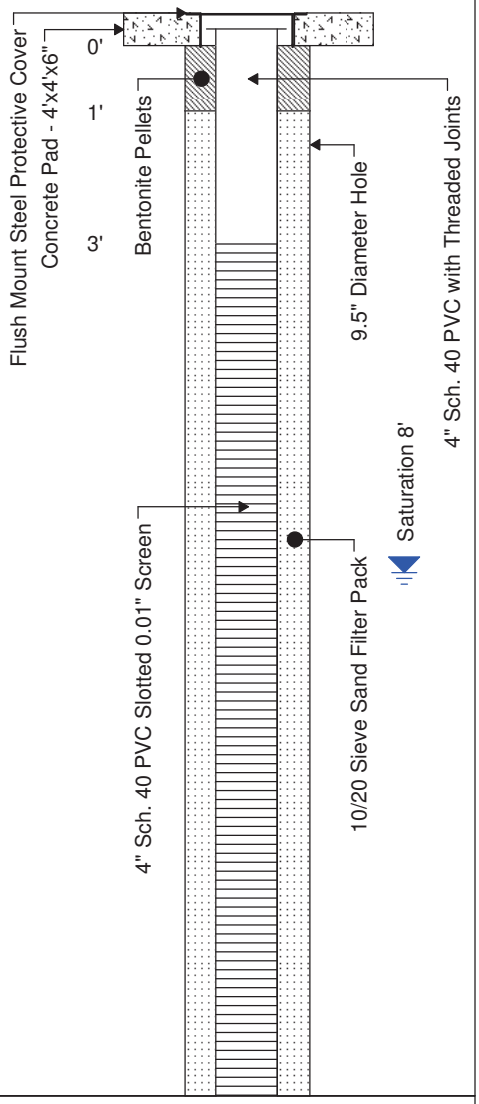
Well No.: MKTF-03
Start Date: 11/7/2013
Finish Date: 11/7/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.328' W108°25.743'; Boring ID - SB01

Total Depth: 19' bgl
Ground Water: Saturated @ 8' bgl
Elev., TOC (ft. msl): 6931.31
Elev., PAD (ft. msl): 6931.73
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,746.53 **E** 2,545,756.87

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-1					Ground Surface
1	164			60	**Fill (Silt/Sand)** Fine grain, loose, dry to damp, brown, no odor
3	423			40	**Silty Clay (CL)** Low plasticity, firm, damp, brown/reddish brown, no odor
5	330			70	**Silty Clay (CL)** Similar to above, no odor
7	75			90	**Silty Clay (CL)** Similar to above, sandy at base from 7.75-8.0' bgl, no odor
9	326	8'		90	**Silty Clay (CL)** Fine grain sand seams throughout, saturated, phase-separated hydrocarbon, hydrocarbon odor, clear phase-separated hydrocarbon poured out of split spoon
11	312			90	**Silty Clay (CL)** Similar to above with sand seams, saturated with phase-separated hydrocarbon, hydrocarbon odor, dark brown
13	368			80	**Gravelly Sand (SW)** Fine to medium to coarse grain, loose, saturated with phase-separated hydrocarbon, black, hydrocarbon odor
15	700			60	**Gravelly Sand (SW)** Similar to above

Completion Results



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WELL INSTALLATION

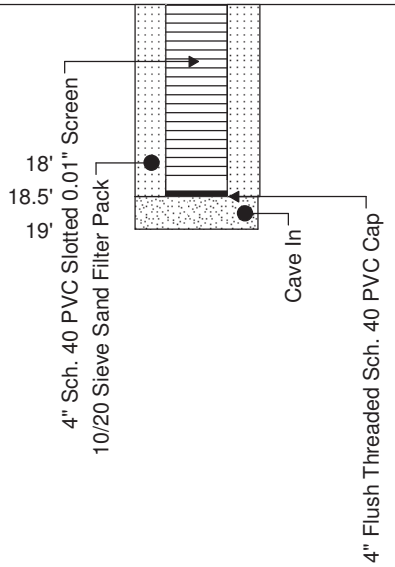
Well No.: MKTF-03
Start Date: 11/7/2013
Finish Date: 11/7/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.328' W108°25.743'; Boring ID - SB01

Total Depth: 19' bgl
Ground Water: Saturated @ 8' bgl
Elev., TOC (ft. msl): 6931.31
Elev., PAD (ft. msl): 6931.73
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,746.53 **E** 2,545,756.87

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
17				10	**Silty Sand/Silty Clay (SM/CL)** Low plasticity, firm, moist, brown, faint odor, no phase-separated hydrocarbon
					Silty Clay (CL) Poor recovery
19	225			80	**Clay (CH)** High plasticity, very dense, damp, light reddish brown, faint odor
					Total Depth = 19' BGL

Completion Results



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WELL INSTALLATION

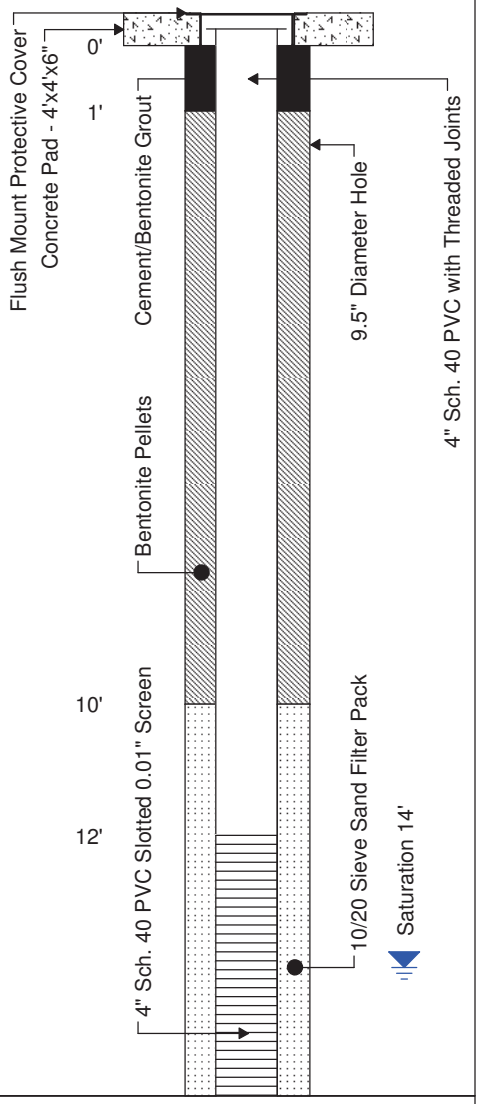
Well No.: MKTF-04
Start Date: 11/12/2013
Finish Date: 11/12/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.310' W 108°25.742'; Boring ID SB03

Total Depth: 24' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): 6933.57
Elev., PAD (ft. msl): 6933.90
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,649.46 **E** 2,545,752.83

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-1					Ground Surface
1	10.2			90	**Fill (Silt/Gravel)** Low plasticity, very dense, dry, light brown, no odor
3	11.7			80	**Fill (Silt/Gravel)** Similar to above, black, dense at base, no odor
5	16			90	**Silty Clay (CL)** Low plasticity, stiff, damp, reddish brown, no odor, calcareous
7	26			90	**Gravelly Sandy Clay (CL)** Low plasticity, loose to firm, damp, brown, no odor
9	708			70	**Silty Clay (CL)** Low plasticity, very soft, damp, reddish brown, hydrocarbon odor
11	369			80	**Clay (CH)** High plasticity, firm, damp, reddish brown, hydrocarbon odor
13	660	14'		90	**Sandy Clay/Clayey Sand (SC/CL)** Low plasticity, fine grain, soft, damp, reddish brown, hydrocarbon odor
15	85			90	**Sandy Clay (SC)** Similar to above, saturated sand seams, hydrocarbon odor, brown

Completion Results



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WELL INSTALLATION

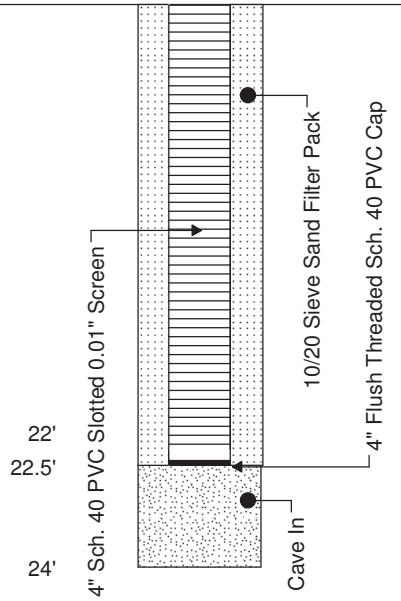
Well No.: MKTF-04
Start Date: 11/12/2013
Finish Date: 11/12/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.310' W 108°25.742'; Boring ID SB03

Total Depth: 24' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): 6933.57
Elev., PAD (ft. msl): 6933.90
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,649.46 **E** 2,545,752.83

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
17	64			70	**Sandy Clay (SC)** Similar to above, moist to saturated, hydrocarbon odor, brown
	33				**Sandy Clay (SC)** Low plasticity, fine grain, soft, moist to saturated, light reddish brown, hydrocarbon odor, gravelly at base
19					**Silty Clay (CL)** Low plasticity, stiff, damp, light reddish brown grading to yellowish/greenish gray, becomes more silty at base
21				90	
23					Total Depth = 24' BGL
25					
27					
29					
31					

Completion Results



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512/347-7588
512/347-8243

WELL INSTALLATION

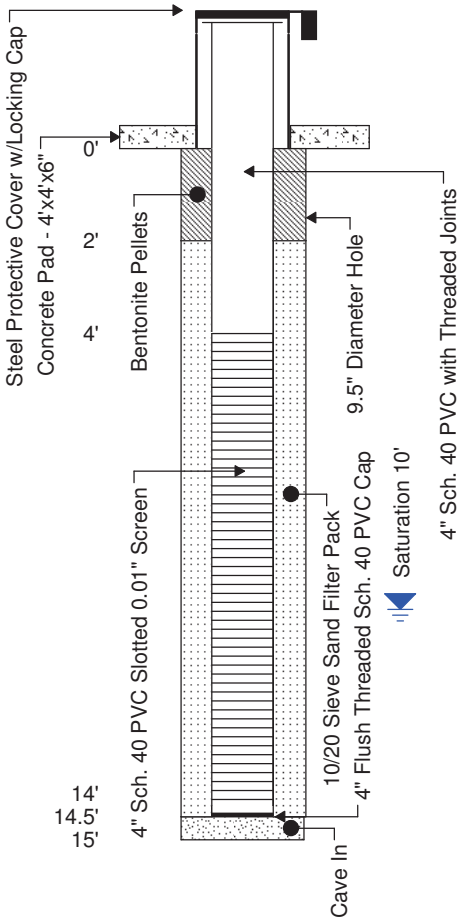
Well No.: MKTF-05
Start Date: 11/12/2013
Finish Date: 11/12/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 15' bgl
Ground Water: Saturated @ 10' bgl
Elev., TOC (ft. msl): 6942.22
Elev., PAD (ft. msl): 6939.49
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,472.30 **E** 2,545,769.95

Comments: N 35°29.282' W 108°25.739'; Boring ID - SB06

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	52.6			60	**Fill (Silty Clay/Gravel)** Low plasticity, firm, damp, brown, faint odor
3	180			100	**Silty Clay (CL)** Low plasticity, firm, damp, reddish brown, odor, calcareous
5	224			90	**Sandy Clay/Clayey Sand (CL/SC)** Low plasticity, fine grain, damp, dark brown, hydrocarbon odor, sand seams present
7	1202			90	**Sandy Clay/Clayey Sand (CL)** Similar to above
9	1228	10'		90	**Sandy Silty Clay (CL)** Low plasticity, soft, damp, dark brown, hydrocarbon odor
11	1525			90	**Sandy Clay (CL)** Similar to above, with moist to saturated sand seams, hydrocarbon odor
13	377			90	**Clayey Sand (SC)** Fine grain, loose to compact, saturated, hydrocarbon odor, dark brown
15					**Sandy Clay (CL)** Low plasticity, soft to firm, moist, dark brown, hydrocarbon odor
					Total Depth = 15' BGL



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WELL INSTALLATION

Well No.: MKTF-06
Start Date: 11/11/2013
Finish Date: 11/11/2013

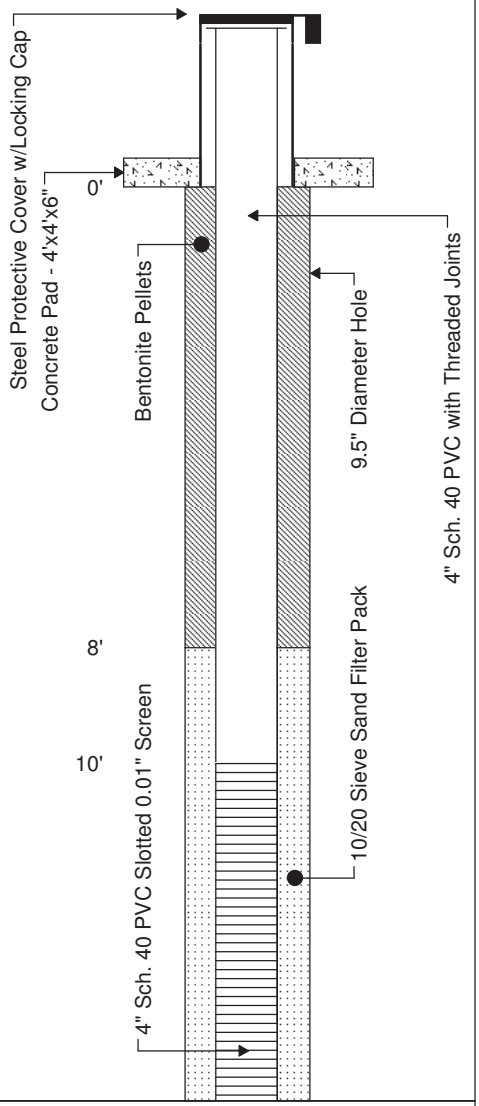
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 21' bgl
Ground Water: Saturated @ 17.5' bgl
Elev., TOC (ft. msl): 6946.81
Elev., PAD (ft. msl): 6944.24
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,556.28 **E** 2,545,811.85

Comments: N 35°29.295' W 108°25.732'; Boring ID - SB08

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	15.9			70	**Fill (Silt/Silty Clay)** Low plasticity, stiff, dry, light brown, no odor
3	228			60	**Fill (Silty Clay/Gravel)** Similar to above, dry, no odor
5	177			60	**Fill (Silty Clay)** Similar to above, damp, no odor
7	264			40	**Fill (Silty Clay)** Low plasticity, soft, damp, brown, gravel and wood debris
9				--	No recovery
11	90			10	**Fill (Silty Clay/Gravel)** Similar to above
13	660			100	**Sandy Silty Clay (CL)** Low plasticity, soft, damp to moist at base, brown, hydrocarbon odor
15					

Completion Results



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Austin, Texas 78746

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512/347-8243

WELL INSTALLATION

Well No.: MKTF-06
Start Date: 11/11/2013
Finish Date: 11/11/2013

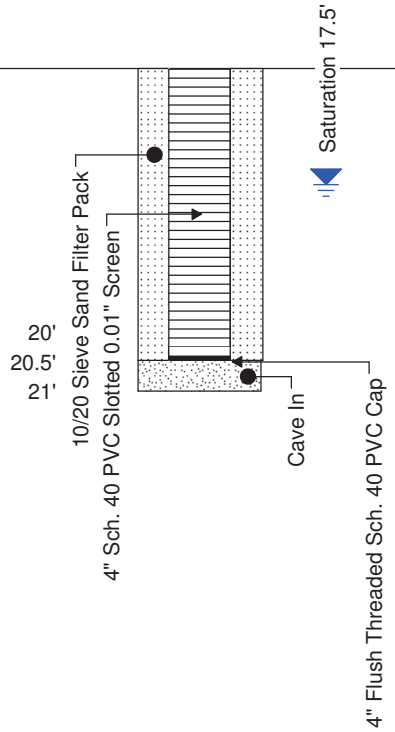
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 21' bgl
Ground Water: Saturated @ 17.5' bgl
Elev., TOC (ft. msl): 6946.81
Elev., PAD (ft. msl): 6944.24
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,556.28 **E** 2,545,811.85

Comments: N 35°29.295' W 108°25.732'; Boring ID - SB08

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
17	1115	17.5'		100	**Sandy Silty Clay (CL)** Similar to above, moist, oily, hydrocarbon odor
				100	**Gravelly Sandy Clay (CL)** Low plasticity, firm, moist, oily, 1" gravel, strong hydrocarbon odor
19	225			100	**Clayey Gravel Sand (SC)** Fine to medium grain, loose, saturated, phase-separated hydrocarbon present, black, hydrocarbon odor
21					**Sandy Clay (CL)** Low plasticity, firm, moist, black hydrocarbon odor
					Total Depth = 21' BGL
23					
25					
27					
29					
31					
33					

Completion Results



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512/347-8243

WELL INSTALLATION

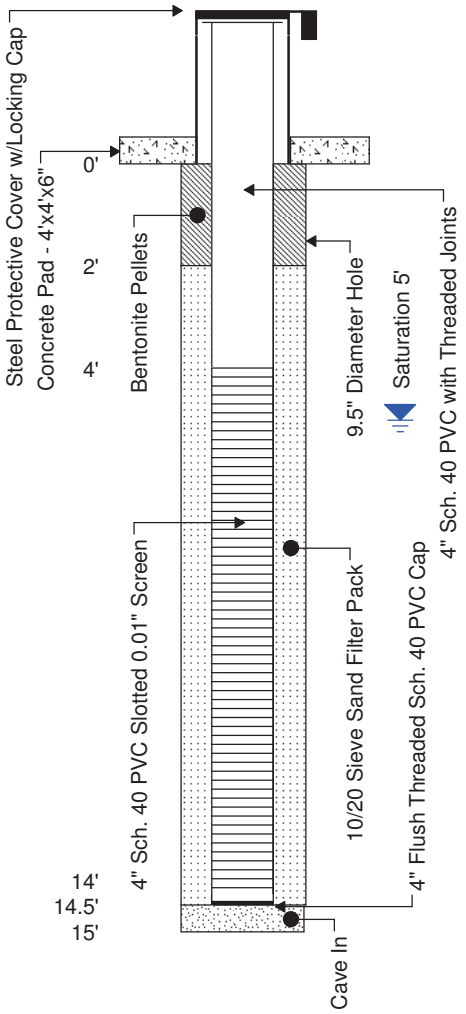
Well No.: MKTF-07
Start Date: 11/11/2013
Finish Date: 11/11/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 15' bgl
Ground Water: Saturated @ 5' bgl
Elev., TOC (ft. msl): 6947.18
Elev., PAD (ft. msl): 6944.40
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,555.11 **E** 2,545,885.42

Comments: N 35°29.295' W 108°25.710'; Boring ID - SB10

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	132			90	**Fill (Silty Clay)** Low plasticity, firm, dry to damp, brown, faint odor
3	235			90	**Fill (Clay/Sand/Gravel)** Damp, hydrocarbon odor
5	1202	5'		50	**Fill (Clay/Caliche Rock)** Odor
7	372			90	**Silty Sand (SM)** Fine grain, loose, saturated, phase-separated hydrocarbon, oily, brown to dark brown, hydrocarbon odor
					Silty Sand (SM) Similar to above, saturated
11				--	**Silty Clay (CL)** Low plasticity, firm, damp, brown, hydrocarbon odor No recovery
15					Total Depth = 15' BGL



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512/347-8243

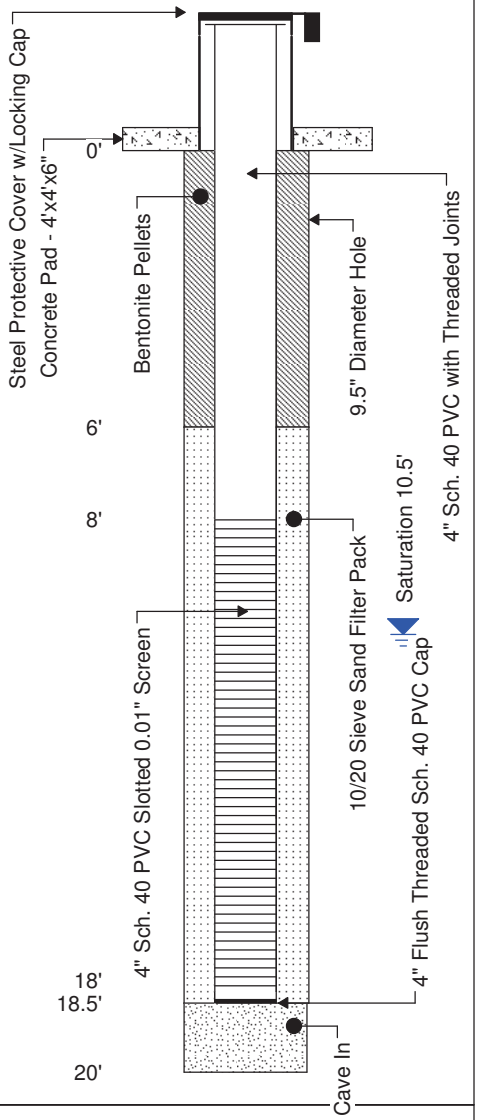
WELL INSTALLATION

Well No.: MKTF-08
Start Date: 11/11/2013
Finish Date: 11/11/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.302' W 108°25.716'; Boring ID - SB11

Total Depth: 20' bgl
Ground Water: Saturated @ 10.5' bgl
Elev., TOC (ft. msl): 6947.09
Elev., PAD (ft. msl): 6944.02
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,598.94 **E** 2,545,885.02

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	85			90	**Fill (Silty Clay/Gravel)** Low plasticity, firm, dry to damp, odor
3	273			80	**Fill (Silty Clay/Gravel)** Similar to above
5	86			90	**Clay (CH)** High plasticity, stiff, damp, brown with light brown pockets of silt, odor
7	308			90	**Silty Clay (CL)** Low plasticity, soft/crumbly, dry to damp, brown, hydrocarbon odor
9	1126			80	**Silty Clay (CL)** Low plasticity, soft, damp, brown, hydrocarbon odor
11	789	10.5'		80	**Silty Clay (CL)** Similar to above, moist
13	558			90	**Silty Clay (CL)** Medium grain, loose, saturated, phase-separated hydrocarbon, hydrocarbon odor, brown
15					**Sandy Silty Clay (CL)** Low plasticity, soft to firm, moist, hydrocarbon odor
17					**Sandy Clay (CL)** Low plasticity, soft to compact, saturated, phase-separated hydrocarbon, hydrocarbon odor
19					Total Depth = 20' BGL



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WELL INSTALLATION

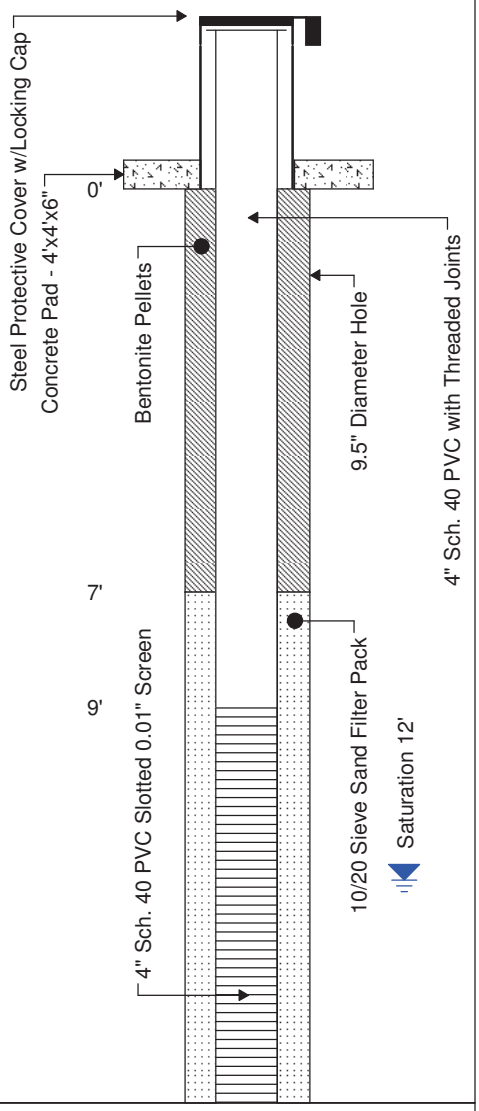
Well No.: MKTF-09
Start Date: 11/11/2013
Finish Date: 11/11/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.316' W 108°25.715'; Boring ID - SB13

Total Depth: 22' bgl
Ground Water: Saturated @ 12' bgl
Elev., TOC (ft. msl): 6946.50
Elev., PAD (ft. msl): 6943.57
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,681.33 **E** 2,545,895.93

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	21.9			90	**Fill (Silty Clay)** Low plasticity, stiff, dry to damp, no odor, brown
3	32.7			90	**Fill (Silty Clay)** Similar to above, gravel
5	36.1			90	**Silty Clay (CL)** Low plasticity, soft, damp, brown, faint odor
7	37			90	**Silty Clay (CL)** Similar to above
9	533			90	**Silty Clay (CL)** Similar to above
					Sandy Clay (CL) Similar to above, increase in sand and moisture
11	314	12'		90	**Sandy Clay (CL)** Similar to above, moist, hydrocarbon odor, dark brown
13	651			90	**Sandy Clay/Clayey Sand (CL/SC)** Fine to medium grain, compact, moist to saturated, hydrocarbon odor
15	587				**Sandy Clay/Clayey Sand (CL/SC)** Similar to above, saturated, sheen observed on split spoon, black, hydrocarbon odor

Completion Results



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WELL INSTALLATION

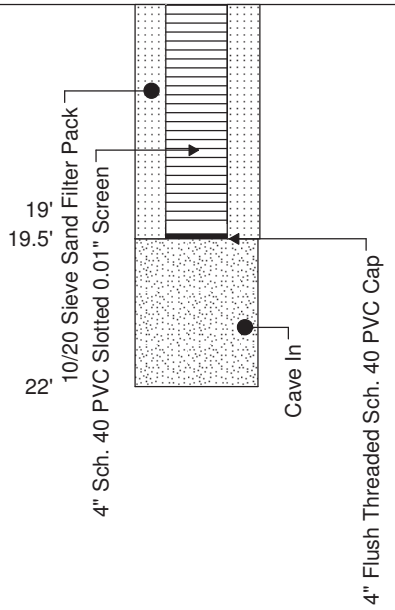
Well No.: MKTF-09
Start Date: 11/11/2013
Finish Date: 11/11/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 22' bgl
Ground Water: Saturated @ 12' bgl
Elev., TOC (ft. msl): 6946.50
Elev., PAD (ft. msl): 6943.57
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,681.33 **E** 2,545,895.93

Comments: N 35°29.316' W 108°25.715'; Boring ID - SB13

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description	Completion Results
17				90	**Sandy Clay/Clayey Sand (CL/SC)** Fine to medium grain, compact, saturated, sheen observed on split spoon, black, hydrocarbon odor	
19						
21						
22					Total Depth = 22' BGL	
23						
25						
27						
29						
31						
33						



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WELL INSTALLATION

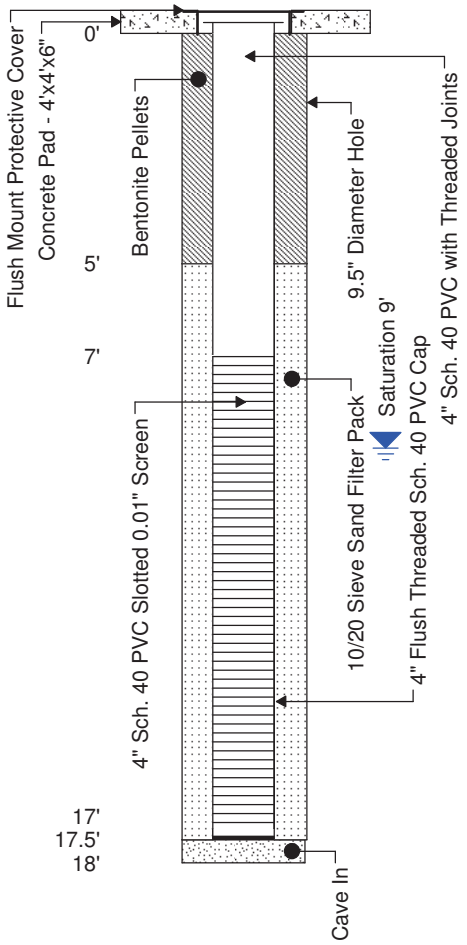
Well No.: MKTF-10
Start Date: 10/31/2013
Finish Date: 10/31/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.336' W 108°25.724'; Boring ID SB16

Total Depth: 18' bgl
Ground Water: Saturated @ 9' bgl
Elev., TOC (ft. msl): 6937.16
Elev., PAD (ft. msl): 6937.51
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,807.47 **E** 2,545,853.54

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	90			90	**Fill (Silt/Gravel)** Low plasticity, loose, dry, light brown
3	14			90	**Fill (Silty Clay/Gravel)** Similar to above
5	431			90	**Silty Clay (CL)** Low plasticity, stiff, dry, reddish brown, odor, calcareous
7	448			60	**Sand (SP)** Fine grain, loose, dry, reddish brown, odor
9	654	9'		60	**Sand (SP)** Similar to above, saturated at 9' bgl, phase-separated hydrocarbon, hydrocarbon odor
11	1559			90	**Clayey Sand (SC)** Fine grain, soft, saturated, phase-separated hydrocarbon, brown to black, hydrocarbon odor
13	713			90	**Clayey Sand/Sandy Clay (SC/CL)** Low plasticity, firm to stiff, moist to saturated, hydrocarbon odor, dark brown
15					
17					
					Total Depth = 18' BGL
19					
21					

Completion Results



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WELL INSTALLATION

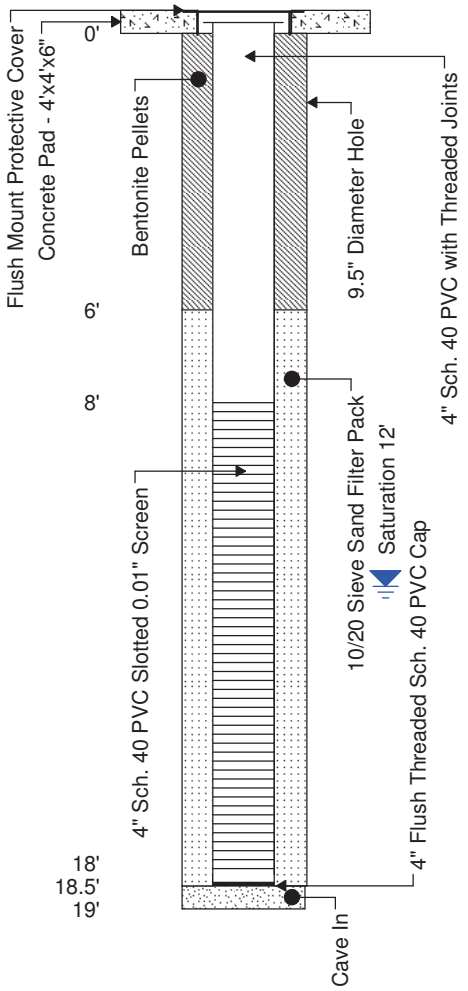
Well No.: MKTF-11
Start Date: 10/31/2013
Finish Date: 10/31/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.336' W 108°25.739'; Boring ID - SB17

Total Depth: 19' bgl
Ground Water: Saturated @ 12' bgl
Elev., TOC (ft. msl): 6931.34
Elev., PAD (ft. msl): 6931.61
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,806.93 **E** 2,545,754.77

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	14			60	**Fill (Silty Clay/Gravel)** Low plasticity, stiff, dry, light brown
3	36			70	**Fill (Silty Clay)** Similar to above
5	80			90	**Silty Clay (CL)** Low plasticity, firm, damp, brown, calcareous
7	125			80	**Silty Clay (CL)** Similar to above
9	1259			80	**Silty Clay (CL)** Low plasticity, firm, damp, oily, hydrocarbon odor, dark brown
11	860	12'		70	**Silty Clay (CL)** Similar to above, moist, hydrocarbon odor, oily, phase-separated hydrocarbon
13	1716			60	**Sandy Clay (CL)** Low plasticity, soft, moist to saturated, hydrocarbon odor, dark brown
15	1050			70	**Silty Sand (SM)** Medium grain, loose, saturated, hydrocarbon odor, dark brown to black
17					**Sandy/Silty Clay (CL)** Low plasticity, firm, saturated, dark brown to black, hydrocarbon odor
19					Total Depth = 19' BGL

Completion Results



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WELL INSTALLATION

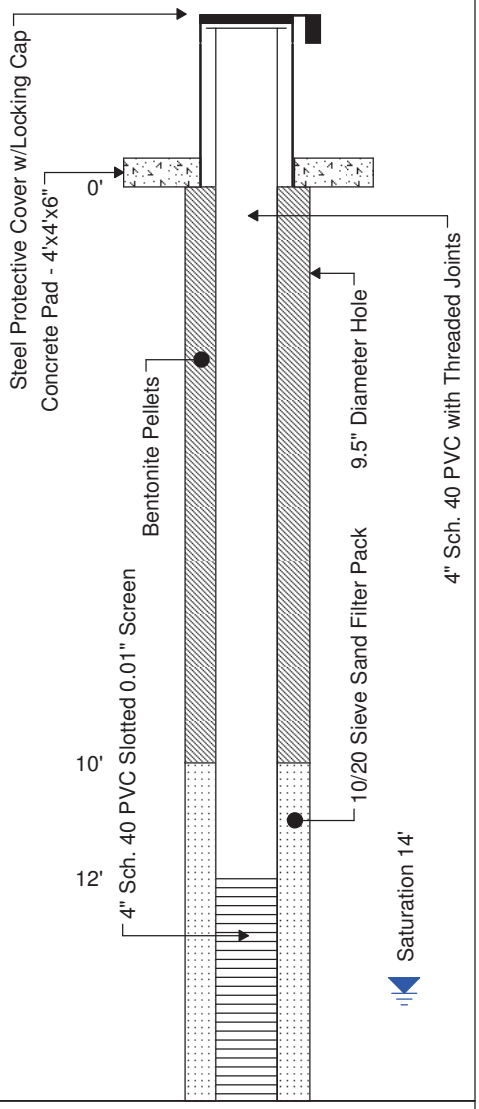
Well No.: MKTF-12
Start Date: 11/7/2013
Finish Date: 11/7/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.294' W 108°25.754'; Boring ID - SB19

Total Depth: 23' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): 6942.11
Elev., PAD (ft. msl): 6939.70
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,542.07 **E** 2,545,688.29

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	8.7			90	**Silt/Gravel (ML)** Low plasticity, soft, dry/damp, no odor, brown
3	54			80	**Silt/Gravel (ML)** Similar to above
5	7			70	**Gravel/Silt (GW)** 1/2 to 1" gravel, loose, compact, dry, no odor
7	7.5			70	**Clayey Sandy Silt (ML)** Very fine grain, compact, dry to damp, brown, no odor
9	5.5			60	**Sandy Clay (CL)** Low plasticity, firm, damp, light brown, no odor
11	5.8			70	**Sandy Clay (CL)** Similar to above, brown, no odor
13	10	14'		70	**Sandy Clay (CL)** Similar to above **Silty Sand (SM)** Fine to medium grain, loose, damp, brown, no odor
15	225			50	**Sandy Clay (CL)** Low plasticity, firm, moist to saturated in sand seams, hydrocarbon odor, dark brown

Completion Results



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512/347-8243

WELL INSTALLATION

Well No.: MKTF-12
Start Date: 11/7/2013
Finish Date: 11/7/2013

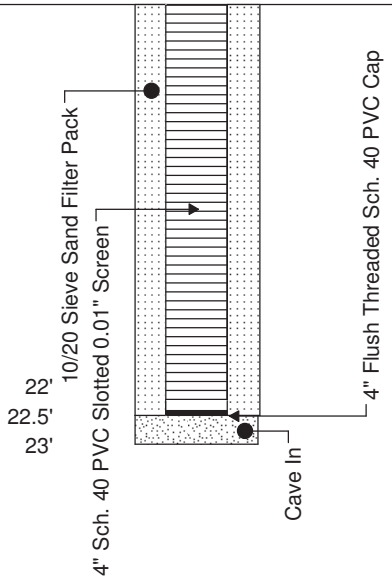
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 23' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): 6942.11
Elev., PAD (ft. msl): 6939.70
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,542.07 **E** 2,545,688.29

Comments: N 35°29.294' W 108°25.754'; Boring ID - SB19

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
17	319			70	**Sandy Clay (CL)** Similar to above, moist, hydrocarbon odor
19	400			--	**Sandy Clay (CL)** Similar to above, moist, hydrocarbon odor
21	532			--	**Sandy Clay/Clayey Sand (CL)** Very fine grain, compact, moist to saturated, sheen observed in split spoon, hydrocarbon odor
23					Total Depth = 23' BGL
25					
27					
29					
31					
33					

Completion Results



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512/347-8243

WELL INSTALLATION

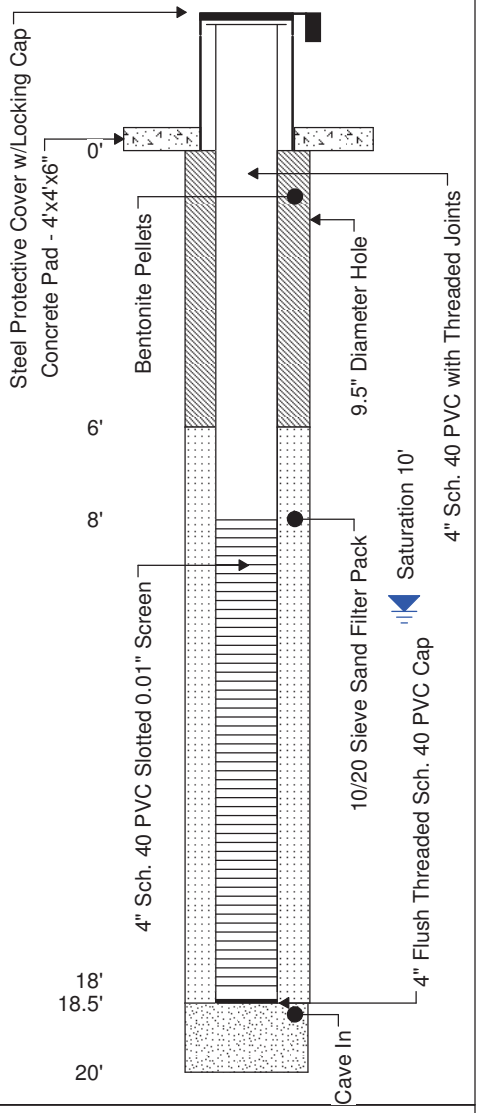
Well No.: MKTF-13
Start Date: 11/12/2013
Finish Date: 11/12/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.307' W 108°25.755'; Boring ID - SB20

Total Depth: 20' bgl
Ground Water: Saturated @ 10' bgl
Elev., TOC (ft. msl): 6935.18
Elev., PAD (ft. msl): 6933.67
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,625.25 **E** 2,545,697.39

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	8			90	**Silt (ML)** Low plasticity, soft, damp, brown, no odor
3	12.7			90	**Silt (ML)** Similar to above, trace gravel
5	13			80	**Sandy Clay (CL)** Low plasticity, stiff, dry, brown, calcareous
7	17			90	**Silty Sand/Sandy Silt (SM/ML)** Very fine grain, loose to compact, dry, calcareous, brown
9	59	10'		90	**Sandy Silt (ML)** Similar to above, no odor
11	1165			90	**Sandy Clay/Clayey Sand (SC/CL)** Medium grain, compact, moist to saturated, hydrocarbon odor, brown
13	1200			90	**Clayey Sand (SC)** Similar to above, saturated, hydrocarbon odor
15					
17					
19					Total Depth = 20' BGL

Completion Results



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512/347-7588
512/347-8243

WELL INSTALLATION

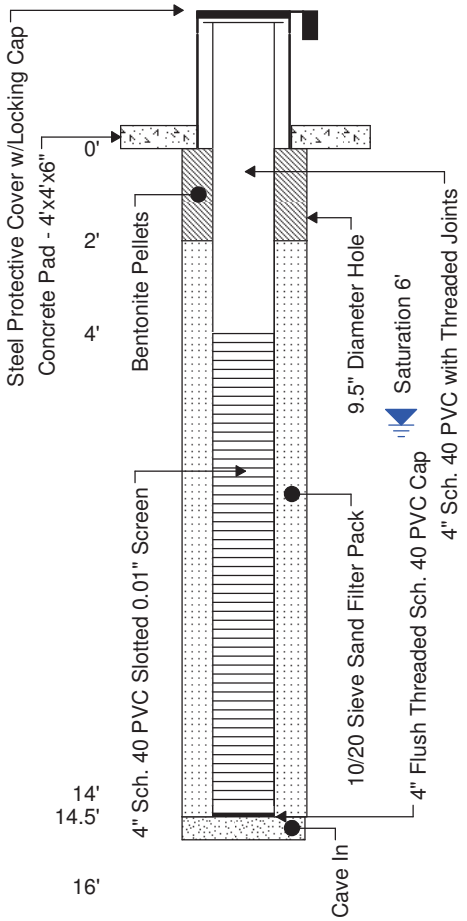
Well No.: MKTF-14
Start Date: 11/12/2013
Finish Date: 11/12/2013

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.323' W 108°25.769'; Boring ID SB22

Total Depth: 15' bgl
Ground Water: Saturated @ 6' bgl
Elev., TOC (ft. msl): 6928.02
Elev., PAD (ft. msl): 6925.65
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,719.43 **E** 2,545,625.96

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	18			20	**Silty Clay (CL)** Low plasticity, soft, damp, brown
3	308			90	**Silty Clay (CL)** Similar to above, odor
5	793	6'		90	**Sandy Clay (CL)** Low plasticity, firm, moist, oily, brown, trace gravel
7	504			90	**Clayey Sand (SC)** Medium grain, loose to compact, saturated, phase-separated hydrocarbon, hydrocarbon odor, black
9	760			90	**Clayey Sand (SC)** Similar to above
15					Total Depth = 15' BGL

Completion Results



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512/347-8243

WELL INSTALLATION

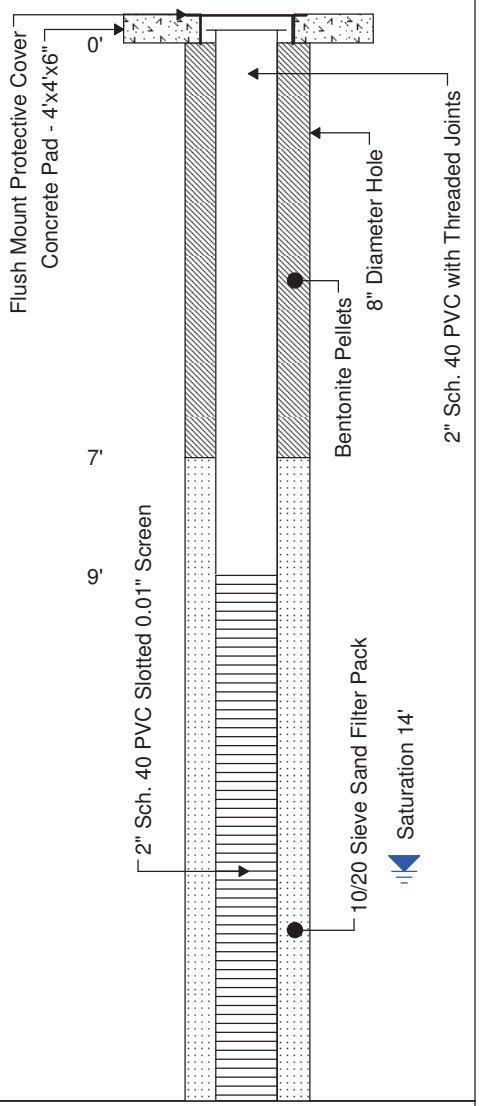
Well No.: MKTF-15
Start Date: 10/29/2013 09:30
Finish Date: 10/29/2013 12:15

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel
Comments: N 35°29.343' W 108°25.708'; Boring ID - SB31

Total Depth: 22' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): 6943.48
Elev., PAD (ft. msl): 6943.74
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,845.57 **E** 2,545,934.58

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-1					Ground Surface
1	6.7			0	**Fill (Clay and Gravel)** No recovery
3	14.6			90	**Fill (Clay and Gravel)** Reddish brown
5				90	**Fill (Clay and Gravel)** Similar to above, no odor
7	823			90	**Fill (Silty Clay)** Reddish brown, hydrocarbon odor
9	1004			90	**Silty Sandy Clay (CL)** Low plasticity, firm to soft, damp, reddish brown, hydrocarbon odor
11	293			70	**Silty Sand (SM)** Fine grain, compact, damp, light reddish brown, no odor
13	221	14'		80	**Sand (SP)** Similar to above, odor, moist to very moist
15				80	**Sand (SP)** Fine to medium grain, loose, saturated, brown, hydrocarbon odor, phase-separated hydrocarbon present
17				60	**Sandy Silt (ML)** Low plasticity, very soft, damp to moist, brown, hydrocarbon odor

Completion Results



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512/347-7588
512/347-8243

WELL INSTALLATION

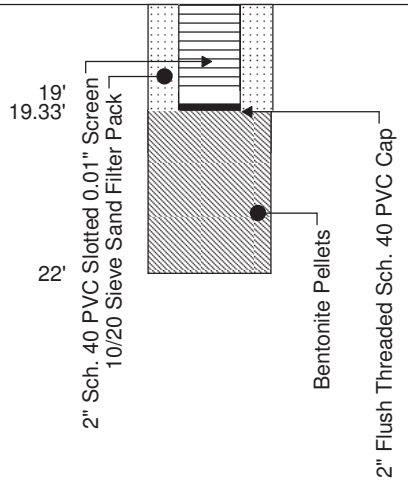
Well No.: MKTF-15
Start Date: 10/29/2013 09:30
Finish Date: 10/29/2013 12:15

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel
Comments: N 35°29.343' W 108°25.708'; Boring ID - SB31

Total Depth: 22' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): 6943.48
Elev., PAD (ft. msl): 6943.74
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,845.57 **E** 2,545,934.58

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
19			ML/SM	90	**Sandy Silt/Silty Sand (ML/SM)** Fine grain, loose to compact, moist to saturated, hydrocarbon odor, dark brown to black
			ML/SM		**Sandy Silt/Silty Sand (ML/SM)** Similar to above, saturated in silty sand lenses, hydrocarbon odor
21			CL	90	**Silty Clay (CL)** Low plasticity, firm, damp, brown, faint odor
			CL		**Silty Clay (CL)** Similar to above, odor
23					Total Depth = 22' BGL
25					
27					
29					
31					
33					
35					

Completion Results



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WELL INSTALLATION

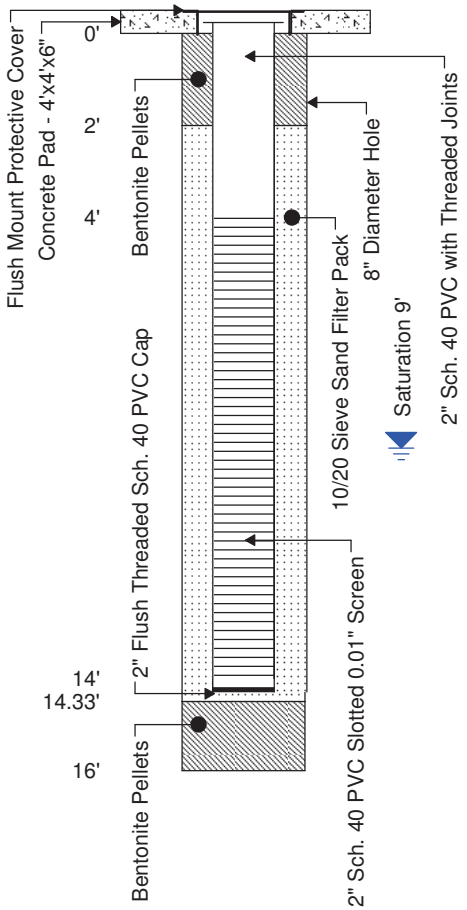
Well No.: MKTF-16
Start Date: 11/7/2013 08:40
Finish Date: 11/7/2013 11:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 16' bgl
Ground Water: Saturated @ 9' bgl
Elev., TOC (ft. msl): 6950.58
Elev., PAD (ft. msl): 6951.00
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,718.14 **E** 2,546,068.55

Comments: N 35°29.323' W 108°25.680'; Boring ID - SB32

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1				0	**Fill (Clay/Gravel)** No recovery
3	469			10	**Fill (Clay/Gravel)** Similar to above
5				0	**Fill (Clay/Gravel)** Similar to baove
7				0	**Fill (Clay/Gravel)** Similar to above
9	1445	9'		90	**Fill (Clay/Gravel)** Saturated at 9' bgl, black discoloration, hydrocarbon odor
11	1255			90	**Gravelly Sand (SW)** High plasticity, firm, damp, dark brown, hydrocarbon odor
13	1412			40	**Clayey Sand (SC)** Similar to above, hydrocarbon odor
15	439			80	**Clayey Sand (SC)** Moderate plasticity, firm, damp, brown, hydrocarbon odor
					Total Depth = 16' BGL



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512/347-8243

WELL INSTALLATION

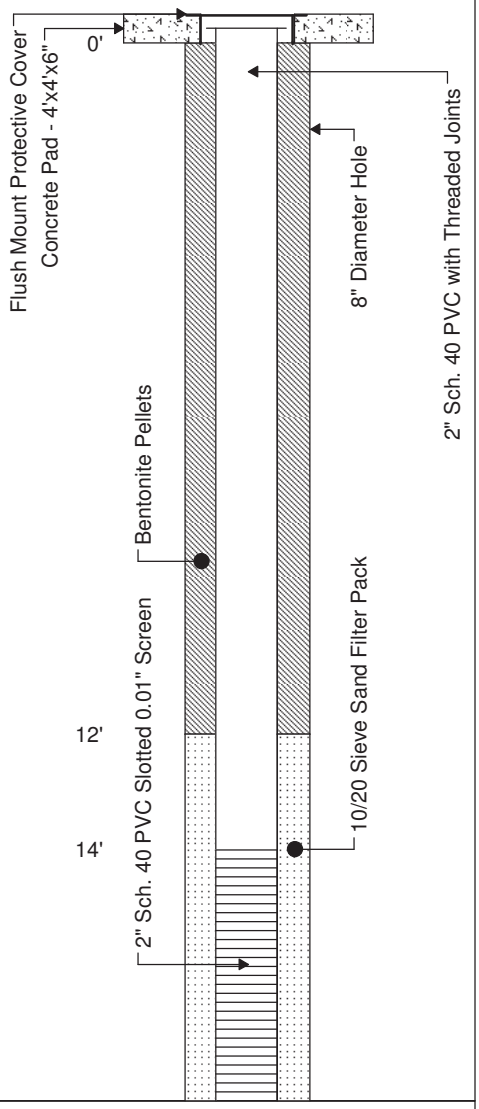
Well No.: MKTF-17
Start Date: 11/14/2013 13:00
Finish Date: 11/14/2013 15:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.248' W 108°25.724'; Boring ID - SB33

Total Depth: 25' bgl
Ground Water: Saturated @ 20' bgl
Elev., TOC (ft. msl): 6945.76
Elev., PAD (ft. msl): 6945.79
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,268.93 **E** 2,545,850.73

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-1					Ground Surface
1				10	**Fill (Asphalt/Base/Clay)** Low plasticity, soft, damp, brown
3	150			10	**Fill (Clay)** Similar to above
5	157			90	**Fill (Sand/Gravel/Clay)** Moist to very moist, reddish brown, no odor
7	92.1			20	**Fill (Sand/Gravel/Clay)** Similar to above, saturated, odor
9	65.9			90	**Clay (CH)** High plasticity, firm, damp, faint odor, brown
11	17			60	**Clay (CH)** Similar to above
13	55			70	**Clay (CH)** High plasticity, soft, damp, dark brown and black, odor
15	17.5			60	**Clay (CH)** Similar to above, faint odor
17	11.3			10	**Clay (CH)** Similar to above, trace fine grain sand

Completion Results



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512/347-8243

WELL INSTALLATION

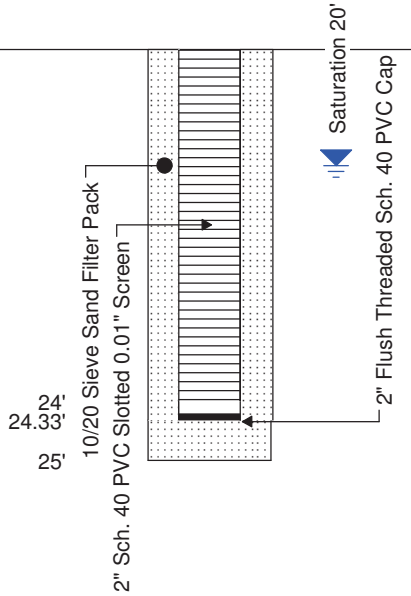
Well No.: MKTF-17
Start Date: 11/14/2013 13:00
Finish Date: 11/14/2013 15:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.248' W 108°25.724'; Boring ID - SB33

Total Depth: 25' bgl
Ground Water: Saturated @ 20' bgl
Elev., TOC (ft. msl): 6945.76
Elev., PAD (ft. msl): 6945.79
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,268.93 **E** 2,545,850.73

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
20	17.2	20'		10	**Clay (CH)** High plasticity, soft, damp, brown
	17.5			70	**Sandy Clay (CH)** Moderate plasticity, soft, very moist to saturated in sand seams
22				80	**Silty Clayey Gravel (GM)** Compact to loose, medium grain sand to 1/4" gravel - angular, saturated, brown
24				90	**Clay (CH)** Moderate plasticity, firm to stiff, damp, greenish gray
					Total Depth = 25' BGL

Completion Results



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WELL INSTALLATION

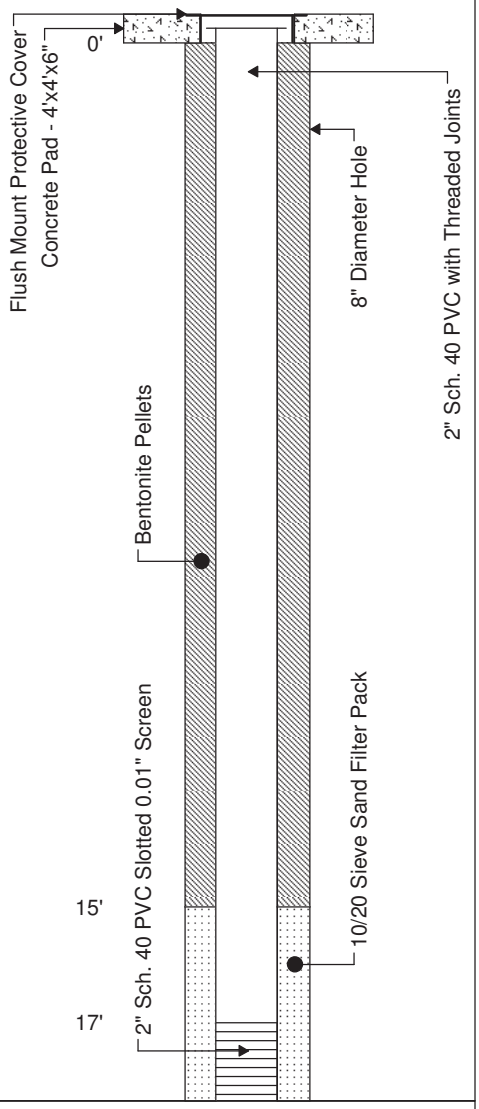
Well No.: MKTF-18
Start Date: 11/15/2013 10:00
Finish Date: 11/15/2013 15:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 27' bgl
Ground Water: Saturated @ 23' bgl
Elev., TOC (ft. msl): 6950.65
Elev., PAD (ft. msl): 6950.97
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,497.53 **E** 2,546,006.29

Comments: N 35°29.288' W 108°25.692'; Boring ID - SB34

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-1					Ground Surface
1				--	**Fill (Gravel and Silty Clay)**
3	1009			20	**Fill (Gravel and Silty Clay)** Similar to above, strong hydrocarbon odor, damp
5	693			60	**Fill (Gravel and Silty Clay)** Similar to above
7	1108			70	**Fill (Silty Clay)** Low plasticity, firm, damp, brown, gravel present, strong hydrocarbon odor
9	901			90	**Fill (Clay/Sand/Gravel)** Similar to above, saturated, odor, sheen observed
11	803			60	**Clay (CH)** High plasticity, stiff, damp, brown, hydrocarbon odor
13	254			70	**Clay (CH)** Similar to above, very fine grain, sand in partings
15	200			30	**Clay (CH)** Similar to above
17				--	No recovery



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512/347-7588
512/347-8243

WELL INSTALLATION

Well No.: MKTF-18
Start Date: 11/15/2013 10:00
Finish Date: 11/15/2013 15:00

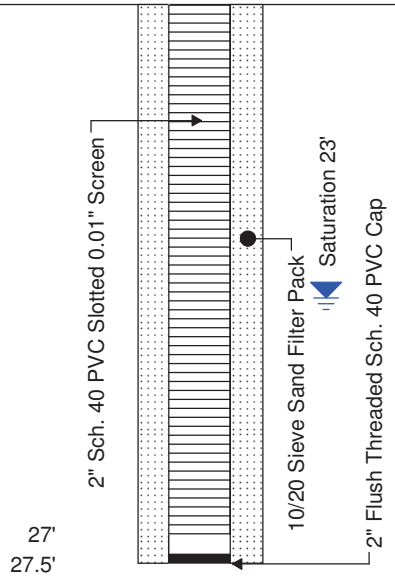
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 27' bgl
Ground Water: Saturated @ 23' bgl
Elev., TOC (ft. msl): 6950.65
Elev., PAD (ft. msl): 6950.97
Elev., GL (ft. msl): --
Site Coordinates:
N 1,633,497.53 **E** 2,546,006.29

Comments: N 35°29.288' W 108°25.692'; Boring ID - SB34

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
20	112			30	**Clay (CH)** High plasticity, firm, damp, brown, faint odor
	55			20	**Clay (CH)** Similar to above
22					
	323	23'		80	**Clay (CH)** Similar to above
24					**Sandy Clay/Clayey Sand (SC/CL)** Fine grain, compact, very moist to saturated, brown, hydrocarbon present
				90	**Clayey Sand (SC)** Similar to above, saturated
26					**Sandy Clay (CL)** Low plasticity, firm, damp, hydrocarbon odor, greenish gray
28					Total Depth = 27' BGL
30					
32					
34					
36					

Completion Results



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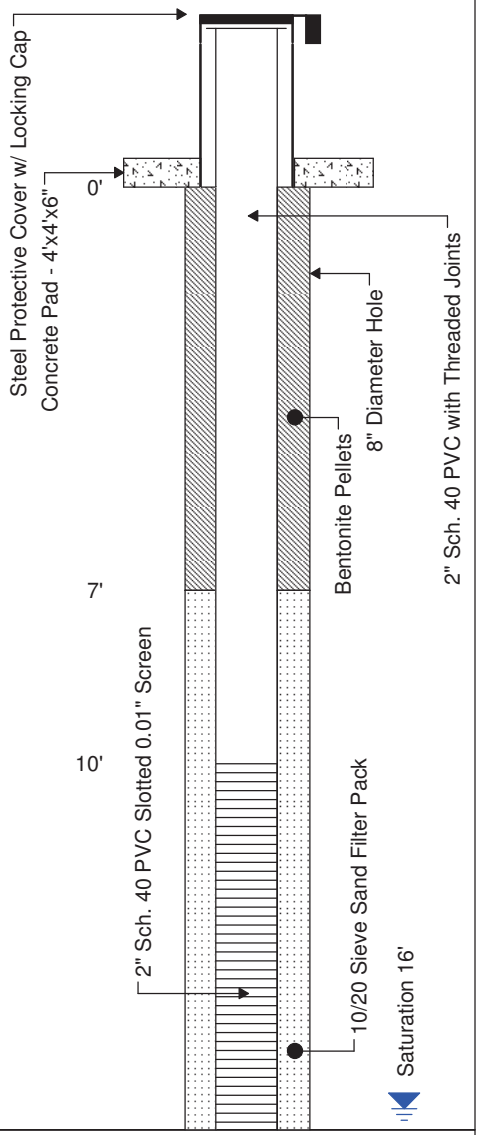
WELL INSTALLATION

Well No.: MKTF-19
Start Date: 11/5/2013 08:50
Finish Date: 11/5/2013 11:20

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel
Comments: N 35°29.268' W 108°25.726'; Boring ID - SB35

Total Depth: 20' bgl
Ground Water: Saturated @ 16' bgl
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N **W**

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1				--	**Fill (Asphate/Base/Clay)** Odor
3	1178			50	**Fill (Silty Clay/Sandy Gravel)** Brown, strong hydrocarbon odor
5	1232			90	**Fill (Silty Clay/Sandy Gravel)** Similar to above, gray discoloration, strong hydrocarbon odor
7	120			80	**Clay (CH)** High plasticity, stiff, damp, brown, odor, calcareous, sampling tube is oily
9	375			70	**Clay (CH)** Similar to above, odor, oily
11	601			70	**Silty Sandy Clay (CL)** Moderate plasticity, firm, damp, brown, hydrocarbon odor, sampling tube is oily
13	1279			70	**Sandy Clay (CL)** Low plasticity, soft, damp to moist in sand seams, brown, strong hydrocarbon odor
15	249	16'		90	**Sandy Clay (CL)** Similar to above, hydrocarbon odor, tube is oily



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512/347-8243

WELL INSTALLATION

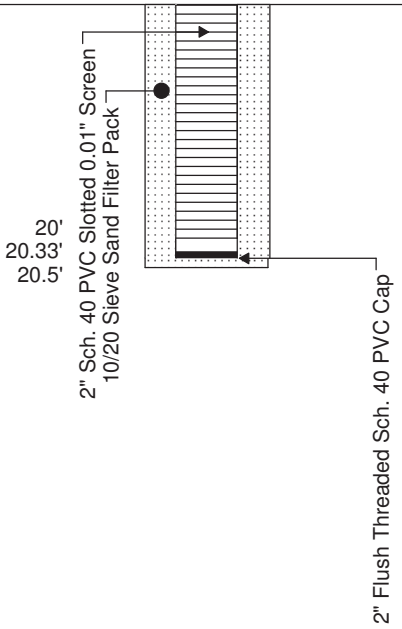
Well No.: MKTF-19
Start Date: 11/5/2013 08:50
Finish Date: 11/5/2013 11:20

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel
Comments: N 35°29.268' W 108°25.726'; Boring ID - SB35

Total Depth: 20' bgl
Ground Water: Saturated @ 16' bgl
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N **W**

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
18				90	**Silty Sand (SM)** Fine grain, loose, saturated, oily/phase-separated hydrocarbon, hydrocarbon odor, clay at base
20				90	**Silty Sand (SM)** Similar to above
					Total Depth = 20' BGL

Completion Results



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512/347-8243

WELL INSTALLATION

Well No.: MKTF-19
Start Date: 11/5/2013 08:50
Finish Date: 11/5/2013 11:20

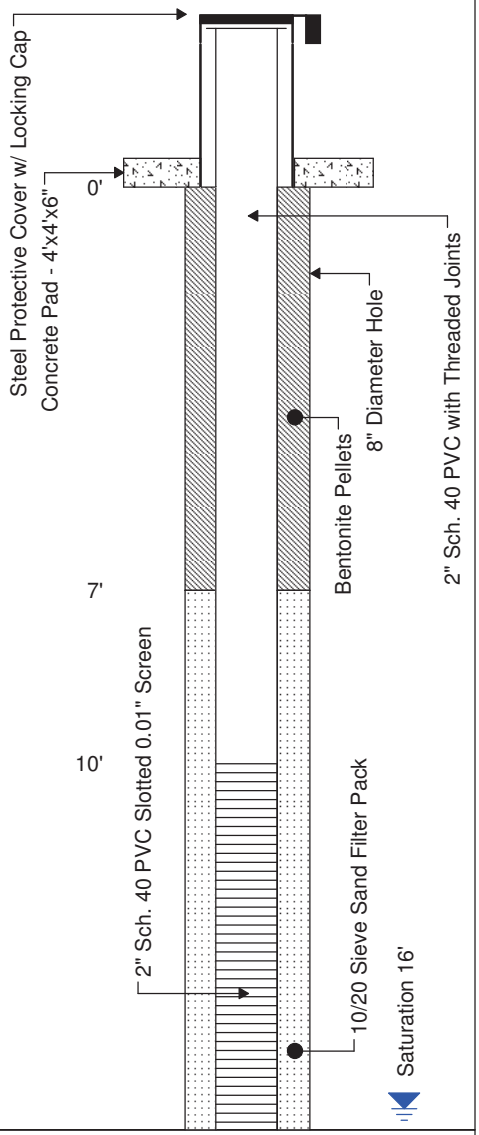
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel

Total Depth: 20' bgl
Ground Water: Saturated @ 16' bgl
Elev., TOC (ft. msl): 6944.67
Elev., PAD (ft. msl): 6944.89
Elev., GL (ft. msl): 6944.34
Site Coordinates:
N 1633381.19 **E** 2545842.82

Comments: N 35°29.268' W 108°25.726'; Boring ID - SB35

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1				--	**Fill (Asphalt/Base/Clay)** Odor
3	1178			50	**Fill (Silty Clay/Sandy Gravel)** Brown, strong hydrocarbon odor
5	1232			90	**Fill (Silty Clay/Sandy Gravel)** Similar to above, gray discoloration, strong hydrocarbon odor
7	120			80	**Clay (CH)** High plasticity, stiff, damp, brown, odor, calcareous, sampling tube is oily
9	375			70	**Clay (CH)** Similar to above, odor, oily
11	601			70	**Silty Sandy Clay (CL)** Moderate plasticity, firm, damp, brown, hydrocarbon odor, sampling tube is oily
13	1279			70	**Sandy Clay (CL)** Low plasticity, soft, damp to moist in sand seams, brown, strong hydrocarbon odor
15	249	16'		90	**Sandy Clay (CL)** Similar to above, hydrocarbon odor, tube is oily

Completion Results



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512/347-8243

WELL INSTALLATION

Well No.: MKTF-19
Start Date: 11/5/2013 08:50
Finish Date: 11/5/2013 11:20

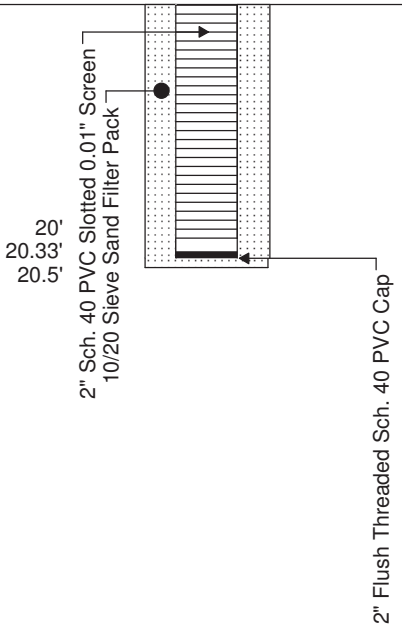
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel

Total Depth: 20' bgl
Ground Water: Saturated @ 16' bgl
Elev., TOC (ft. msl): 6944.67
Elev., PAD (ft. msl): 6944.89
Elev., GL (ft. msl): 6944.34
Site Coordinates:
N 1633381.19 **E** 2545842.82

Comments: N 35°29.268' W 108°25.726'; Boring ID - SB35

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
18				90	**Silty Sand (SM)** Fine grain, loose, saturated, oily/phase-separated hydrocarbon, hydrocarbon odor, clay at base
20				90	**Silty Sand (SM)** Similar to above
					Total Depth = 20' BGL

Completion Results



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512/347-7588
512/347-8243

WELL INSTALLATION

Well No.: MKTF-20
Start Date: 2/10/2014
Finish Date: 2/10/2014

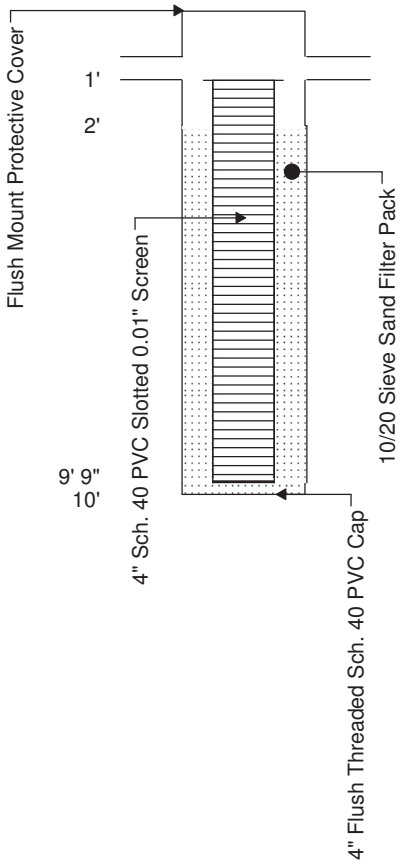
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Not Applicable
Driller: Western Refining Southwest, Inc.
Drilling Rig: Not Applicable
Drilling Method: Not Applicable
Sampling Method: Not Applicable

Total Depth: 10' bgl
Ground Water: 7.86' ft. BTOC
Elev., TOC (ft. msl): 6951.78
Elev., PAD (ft. msl): 6951.89
Elev., GL (ft. msl): 6951.17
Site Coordinates:
N 1633698.28 **E** 2546111.23

Comments: N 35°29.319' W 108°25.674'; Boring ID: Sump-N

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1					**Fill Material**
3					
5				--	
7					
9					
11					Total Depth = 10' BGL
13					
15					
17					
19					

Completion Results



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512/347-7588
512/347-8243

WELL INSTALLATION

Well No.: MKTF-21
Start Date: 2/10/2014
Finish Date: 2/10/2014

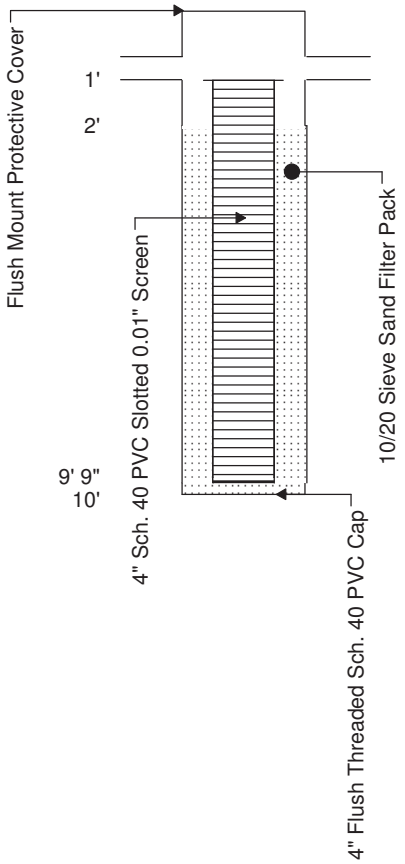
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Not Applicable
Driller: Western Refining Southwest, Inc.
Drilling Rig: Not Applicable
Drilling Method: Not Applicable
Sampling Method: Not Applicable

Total Depth: 10' bgl
Ground Water: 7.60' ft. BTOC
Elev., TOC (ft. msl): 6952.57
Elev., PAD (ft. msl): 6952.68
Elev., GL (ft. msl): 6952.00
Site Coordinates:
N 1633570.30 **E** 2546110.00

Comments: N 35°29.295' W 108°25.675'; Boring ID: Sump-S

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1					**Fill Material**
3					
5				--	
7					
9					
11					Total Depth = 10' BGL
13					
15					
17					
19					

Completion Results



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512/347-8243

WELL INSTALLATION

Well No.: MKTF-22
Start Date: 11/8/2013 12:15
Finish Date: 11/8/2013 15:30

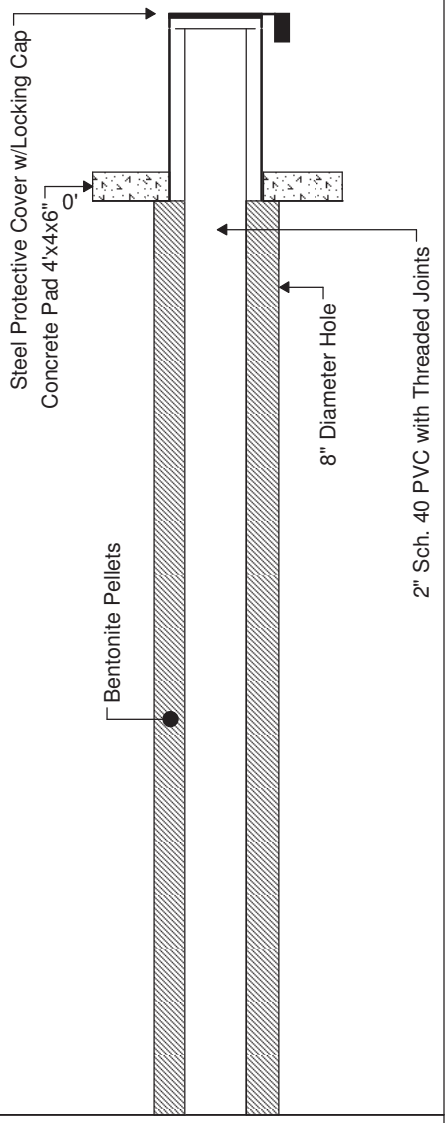
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 32' bgl
Ground Water: Saturated @ 26' bgl
Elev., TOC (ft. msl): 6942.31
Elev., PAD (ft. msl): 6939.76
Elev., GL (ft. msl): 6938.57
Site Coordinates:
N 1633501.64 **E** 2545478.20

Comments: N 35°29.288' W 108°25.802'; Boring ID - SB23

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	3.4			10	**Clayey Silt (ML)** Low plasticity, very fine grain, compact to loose, damp, tan, no odor
3	8.9			20	**Clayey Silt (ML)** Similar to above
5	7.0			20	**Clayey Silt (ML)** Similar to above
7	7.9			50	**Clayey Silt (ML)** Similar to above, light brown, no odor
9	6.4			40	**Clayey Silt (ML)** Low plasticity, stiff, damp, light brown, no odor
11	13.7			50	**Clayey Silt (ML)** Similar to above
13	12.7			10	**Clayey Silt (ML)** Similar to above, very stiff
15	10.1			70	**Clayey Silt (ML)** Very fine grain, stiff, damp, brown, no odor, becomes sandy at base

Completion Results



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WELL INSTALLATION

Well No.: MKTF-22
Start Date: 11/8/2013 12:15
Finish Date: 11/8/2013 15:30

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

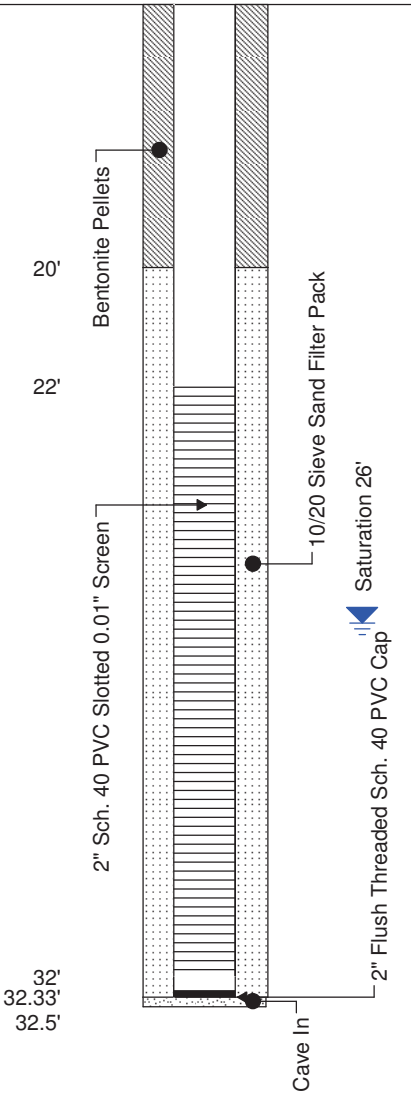
Total Depth: 32' bgl
Ground Water: Saturated @ 26' bgl
Elev., TOC (ft. msl): 6942.31
Elev., PAD (ft. msl): 6939.76
Elev., GL (ft. msl): 6938.57
Site Coordinates:
N 1633501.64 **E** 2545478.20

Comments: N 35°29.288' W 108°25.802'; Boring ID - SB23

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
17	13.2			10	**Silty Clay/Clayey Silt (CL)** Similar to above, increase in clay, damper, no odor
19	17.2			90	**Silty Clay (CL)** Low plasticity, firm, damp, brown, no odor
21	14.1			90	**Sandy Clay (CL)** Low plasticity, soft, damp, brown, no odor
23	43.1			90	**Sandy Clay (CL)** Similar to above, damp, faint odor
25	73.1	26'		90	**Sandy Clay (CL)** Similar to above, very moist in sand seams, hydrocarbon odor
27				90	**Silty Sand (SM)** Fine to medium grain, loose, saturated, brownish gray, hydrocarbon odor
29				90	**Clayey Silt (ML)** Very fine grain, soft, moist, dark brown, hydrocarbon odor
31				90	**Sand (SP)** Fine to medium grain, loose, saturated, brown, odor
33					**Silty Clay (CL)** Low to moderate plasticity, firm, damp, brown and light olive/gray, no odor at base
					Silty Clay (CL) Low plasticity, firm, damp, greenish gray, no odor

Total Depth = 32' BGL

Completion Results



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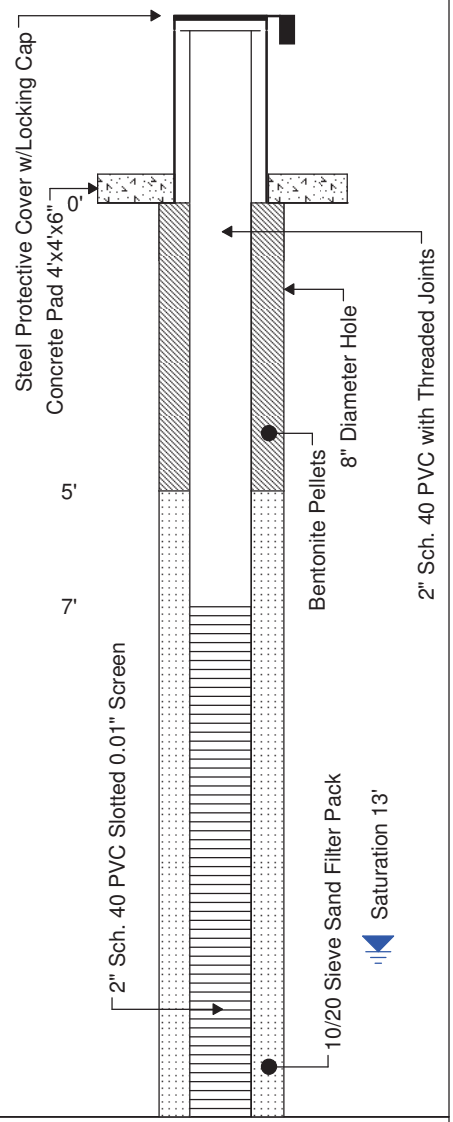
WELL INSTALLATION

Well No.: MKTF-23
Start Date: 11/4/2013 14:00
Finish Date: 11/4/2013 16:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel
Comments: N 35°29.327' W 108°25.795'; Boring ID - SB25

Total Depth: 20' bgl
Ground Water: Saturated @ 13' bgl
Elev., TOC (ft. msl): 6929.98
Elev., PAD (ft. msl): 6927.23
Elev., GL (ft. msl): 6925.79
Site Coordinates:
N 1633750.93 **E** 2545503.70

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	10.3			90	**Silty Clay/Clayey Silt (ML/CL)** Low plasticity, firm, damp, brown, no odor
3	9.7				**Silty Clay/Clayey Silt (ML/CL)** Similar to above
5	13.4				**Silty Clay/Clayey Silt (ML/CL)** Similar to above
	21.9				**Clayey Silt (ML)** Low plasticity, soft, damp, brown, no odor
7	22			90	**Clayey Silt (ML)** Similar to above
9	29.1				**Clayey Sand (SC)** Very fine grain, compact, damp, brown, no odor
11	211			80	**Clayey Sand (SC)** Similar to above, odor, moist
13	1022	13'			**Clayey Sand (SC)** Fine grain, compact, moist to saturated in sand seam, hydrocarbon odor, phase-separated hydrocarbon present
15					



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WELL INSTALLATION

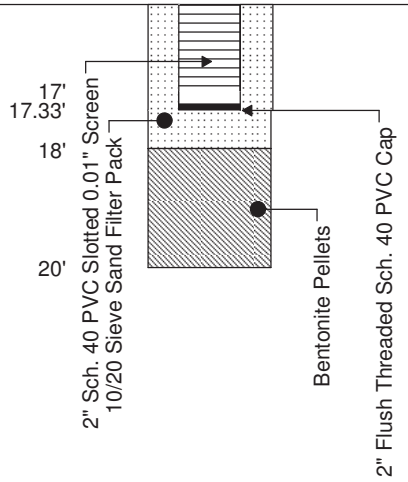
Well No.: MKTF-23
Start Date: 11/4/2013 14:00
Finish Date: 11/4/2013 16:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Five-Foot Core Barrel
Comments: N 35°29.327' W 108°25.795'; Boring ID - SB25

Total Depth: 20' bgl
Ground Water: Saturated @ 13' bgl
Elev., TOC (ft. msl): 6929.98
Elev., PAD (ft. msl): 6927.23
Elev., GL (ft. msl): 6925.79
Site Coordinates:
N 1633750.93 **E** 2545503.70

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
17	32.6			90	**Clay (CH)** High plasticity, stiff, damp, brown, no odor
19	28.9				
21	22.7				**Sandy Clay (CL)** Moderate plasticity, firm, damp, brown and gray, no odor
23					Total Depth = 20' BGL
25					
27					
29					
31					
33					

Completion Results



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WELL INSTALLATION

Well No.: MKTF-24
Start Date: 10/29/2013 13:15
Finish Date: 10/29/2013 16:15

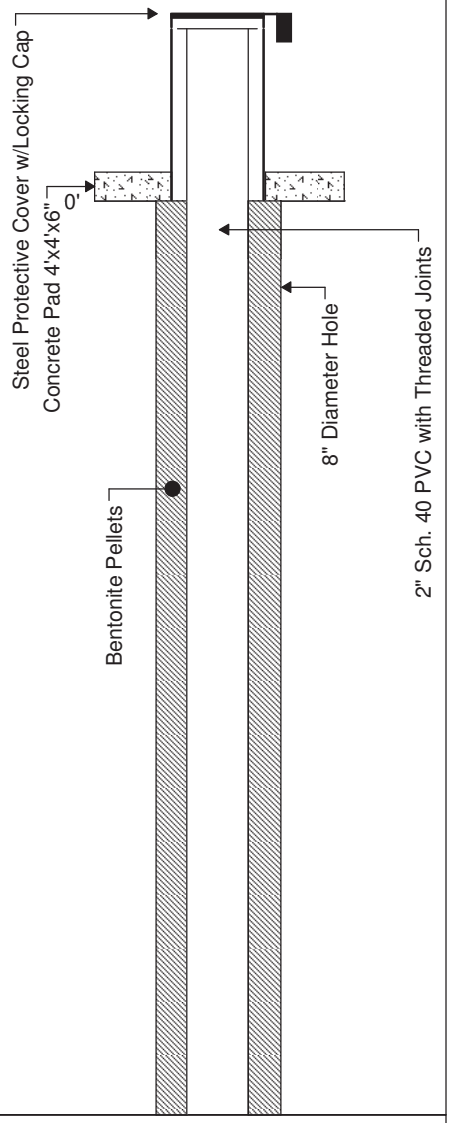
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 30' bgl
Ground Water: Saturated @ 20' bgl
Elev., TOC (ft. msl): 6928.72
Elev., PAD (ft. msl): 6926.07
Elev., GL (ft. msl): 6924.62
Site Coordinates:
N 1633853.19 **E** 2545468.48

Comments: N 35°29.342' W 108°25.800'; Boring ID - SB26

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	14.1			90	**Silt/Silty Sand (ML/SM)** Very fine to fine grain, loose, dry, brown
3	11.2			10	**Silty Sand (SM)** Fine grain, compact/very dense, damp, brown
5	12.5			90	**Silty Sandy Clay (CL)** Low plasticity, very dense, damp, brown
7	11.8			90	**Silty Sandy Clay (CL)** Similar to above
9	14.8			60	**Silty Sandy Clay (CL)** Similar to above
11	12.5			90	**Silty Sandy Clay (CL)** Similar to above
13	12.8			90	**Silty Sandy Clay (CL)** Similar to above
15	13.4			90	**Clay (CH)** High plasticity, firm, damp, brown, trace silt, no odor

Completion Results



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WELL INSTALLATION

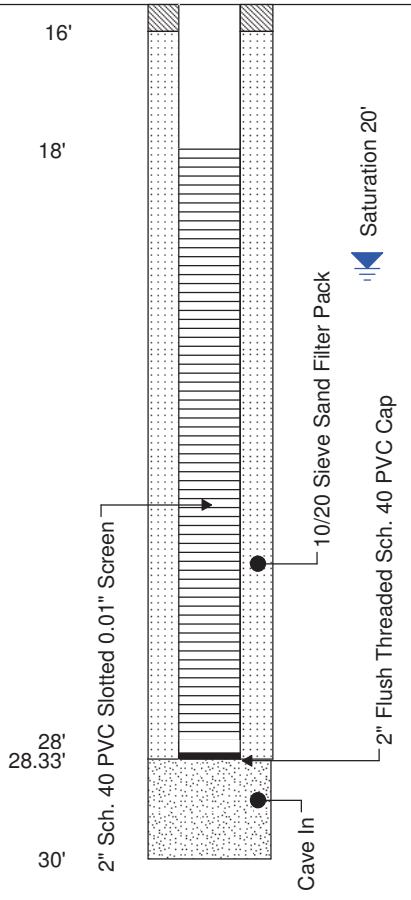
Well No.: MKTF-24
Start Date: 10/29/2013 13:15
Finish Date: 10/29/2013 16:15

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon
Comments: N 35°29.342' W 108°25.800'; Boring ID - SB26

Total Depth: 30' bgl
Ground Water: Saturated @ 20' bgl
Elev., TOC (ft. msl): 6928.72
Elev., PAD (ft. msl): 6926.07
Elev., GL (ft. msl): 6924.62
Site Coordinates:
N 1633853.19 **E** 2545468.48

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
17	16.8			70	**Silty Sandy Clay (CL)** Low plasticity, firm, damp, brown, no odor
19	33.7	20'		90	**Sandy Clay (CL)** Low plasticity, soft, damp, brown, no odor
21	40.8			90	**Sandy Clay/Clayey Sand (CL/SC)** Fine grain, compact to soft, moist to saturated, brown, no odor
23				90	**Sandy Clay/Clayey Sand (CL/SC)** Similar to above, moist to saturated, no odor
25				90	**Sandy Clay/Clayey Sand (CL/SC)** Similar to above, moist to saturated, no odor
27				90	**Sandy Clay/Clayey Sand (CL/SC)** Similar to above, moist to saturated, greenish gray sand at base
29				90	**Silt/Siltstone (ML)** Low plasticity, very dense, dry, crumbly, brown/reddish brown, no odor
31					Total Depth = 30' BGL
33					

Completion Results



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512/347-8243

WELL INSTALLATION

Well No.: MKTF-25
Start Date: 10/30/2013 14:45
Finish Date: 10/30/2013 16:30

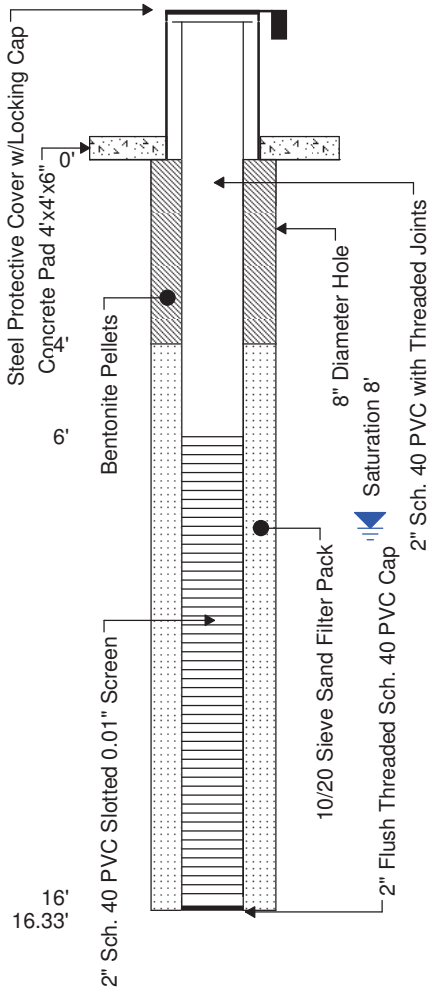
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 16' bgl
Ground Water: Saturated @ 8' bgl
Elev., TOC (ft. msl): 6916.19
Elev., PAD (ft. msl): 6913.35
Elev., GL (ft. msl): 6911.79
Site Coordinates:
N 1634015.86 **E** 2545275.68

Comments: N 35°29.372' W 108°25.840'; Boring ID - SB28

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	10.9			60	**Fill (Silty Clay/Gravel)** Low plasticity, stiff, damp, brown, no odor
3	14.5			70	**Fill (Silty Clay/Gravel)** Similar to above
5	12.9			20	**Silty Clay (CL)** Low plasticity, stiff, damp, brown
7	14.5	8'		70	**Silty Clay (CL)** Similar to above
9	21.1			60	**Gravelly Sand (SW)** Fine to medium grain, loose, brown, saturated, odor
11				80	**Gravelly Sand (SW)** Fine to medium grain, compact, brown, very moist to saturated, odor
13				70	**Clayey Sand (SC)** Fine grain, compact, brown, moist to saturated in sand seams, odor
15				80	**Clayey Sand (SC)** Similar to above, odor
					Total Depth = 16' BGL

Completion Results



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512/347-8243

WELL INSTALLATION

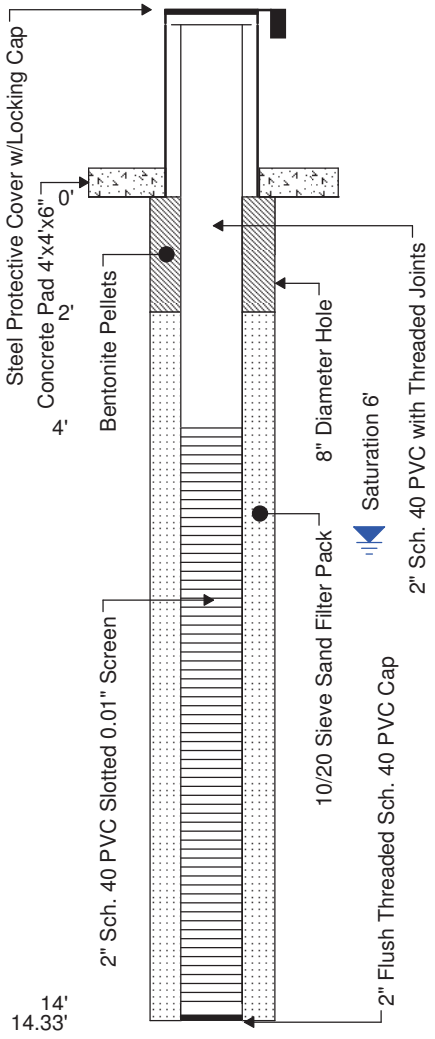
Well No.: MKTF-26
Start Date: 10/30/2013 10:40
Finish Date: 10/30/2013 12:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 14' bgl
Ground Water: Saturated @ 6' bgl
Elev., TOC (ft. msl): 6915.31
Elev., PAD (ft. msl): 6912.55
Elev., GL (ft. msl): 6911.35
Site Coordinates:
N 1634033.63 **E** 2545492.39

Comments: N 35°29.373' W 108°25.796'; Boring ID - SB29

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	17.5			80	**Silty Clay (CL)** Low plasticity, soft, damp, brown, no odor, trace small gravel
3	9.4			60	**Silty Clay (CL)** Similar to above
5	4.8	6'		60	**Silty Clay (CL)** Similar to above
7	34.8			90	**Sandy Clay/Clayey Sand (SC/CL)** Very fine grain, compact/soft, brown, moist, faint odor, saturated at base
9				70	**Sandy Clay (SC)** Low plasticity, stiff, damp, brown, no odor
11				60	**Silt/Siltstone (ML)** Low plasticity, very dense, dry, reddish brown, very fine grain sand in fissures, no odor
13				60	**Silt/Siltstone (ML)** Similar to above
15					Total Depth = 14' BGL



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512/347-8243

WELL INSTALLATION

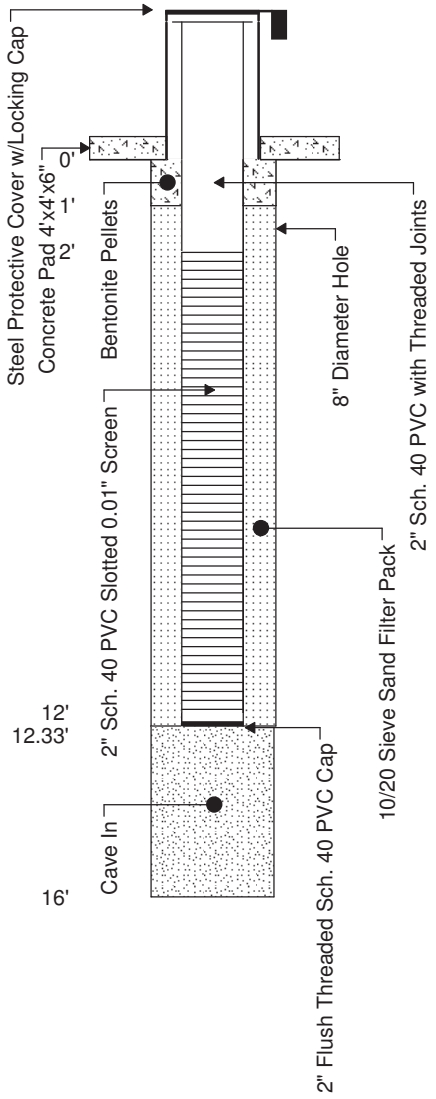
Well No.: MKTF-27
Start Date: 10/30/2013 09:00
Finish Date: 10/30/2013 10:20

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01809
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: Split Spoon

Total Depth: 16' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): 6917.90
Elev., PAD (ft. msl): 6915.36
Elev., GL (ft. msl): 6914.18
Site Coordinates:
N 1634115.56 **E** 2545620.98

Comments: N 35°29.387' W 108°25.771'; Boring ID - SB30

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
					Ground Surface
1	3.3			90	**Silty Clay (CL)** Low plasticity, firm, damp, brown, occasional gravel
3	4.1			80	**Silty Clay (CL)** Similar to above
5	2.4			90	**Silty Clay (CL)** Similar to above
7	4.1			90	**Silty Clay (CL)** Low to moderate plasticity, firm to soft, damp, brown, no odor, calcareous organics present
9	3.3			80	**Silt/Siltstone (ML)** Low plasticity, very dense, dry, reddish brown with greenish gray very fine grain sand in fissures, no odor
11	3.7			80	**Silt/Siltstone (ML)** Similar to above
13	4.5			80	**Silt/Siltstone (ML)** Similar to above
15	3.9			80	**Silt/Siltstone (ML)** Similar to above
					Total Depth = 16' BGL



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WELL INSTALLATION

Well No.: MKTF-28
Start Date: 4/2/2014 11:30
Finish Date: 4/2/2014 14:25

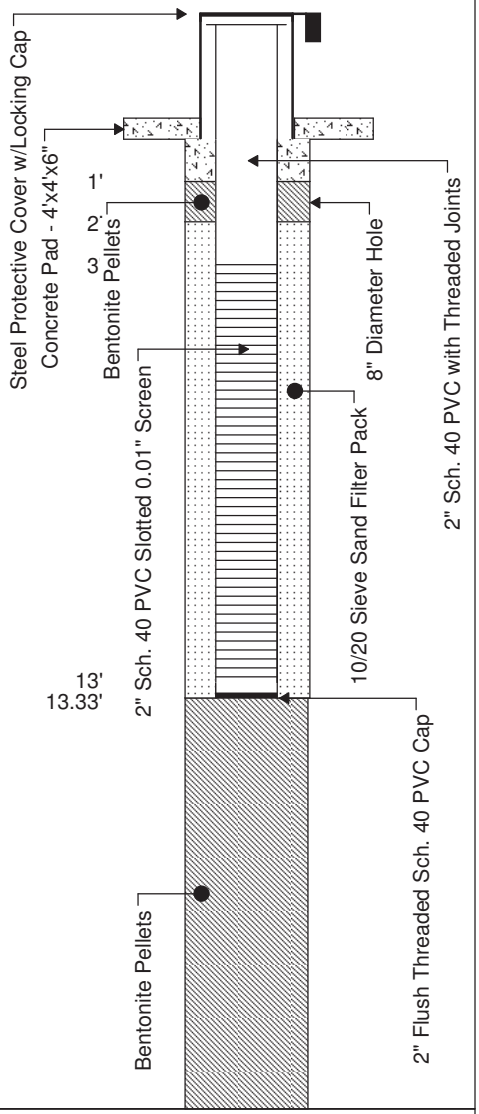
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon

Total Depth: 30' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): 6921.52
Elev., PAD (ft. msl): 6918.67
Elev., GL (ft. msl): 6917.51
Site Coordinates:
N 1634263.44 **E** 2545650.04

Comments: N 35°29.412' W 108°25.763', Air Temp: 48°F

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					
-1					Ground Surface
1	2.6			90	**Fill (Silty Clay)** Low plasticity, soft, damp, brown, no odor, sandy at base, moist
3	5.0				
5	3.6			60	**Silty Clay (CL)** Similar to above, damp to moist at 7.5' bgl
7	7.6				
9	8.2			60	**Silty Clay (CL)** Low plasticity, stiff, damp to dry, crumbly, brown, no odor
11	8.1				
13	7.5			60	**Silty Clay (CL)** Similar to above
15	9.1				
17	5.5			60	**Silty Clay (CL)** Similar to above
19	7.8				
21	3.5			60	

Completion Results



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512/347-8243

WELL INSTALLATION

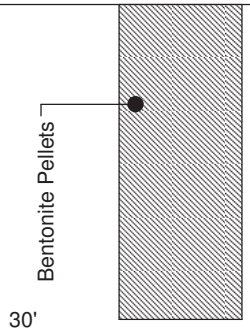
Well No.: MKTF-28
Start Date: 4/2/2014 11:30
Finish Date: 4/2/2014 14:25

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon
Comments: N 35°29.412' W 108°25.763', Air Temp: 48°F

Total Depth: 30' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): 6921.52
Elev., PAD (ft. msl): 6918.67
Elev., GL (ft. msl): 6917.51
Site Coordinates:
N 1634263.44 **E** 2545650.04

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
24	4.3				**Clay (CH)** High plasticity, very stiff, reddish brown and gray, no odor, crumbly
26	4.1			60	**Clay (CH)** Similar to above
28	3.3				
30					Total Depth = 30' BGL
32					
34					
36					
38					
40					
42					
44					
46					
48					

Completion Results



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512/347-8243

WELL INSTALLATION

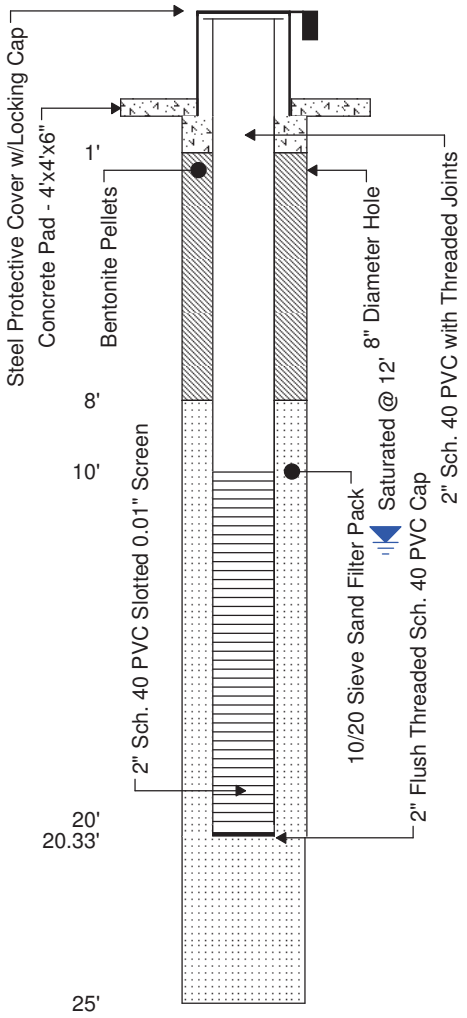
Well No.: MKTF-29
Start Date: 4/2/2014 08:30
Finish Date: 4/2/2014 11:15

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon
Comments: N 35°29.406' W 108°25.846', Air Temp: 41°F

Total Depth: 25' bgl
Ground Water: Saturated @ 12' bgl
Elev., TOC (ft. msl): 6901.62
Elev., PAD (ft. msl): 6898.83
Elev., GL (ft. msl): 6897.67
Site Coordinates:
N 1634249.76 **E** 2545258.34

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
0					Ground Surface
1	2.2			95	**Silty Clay (CL)** Low plasticity, firm, damp, brown, no odor
3	3.9				
5	3.1				
7	1.3			95	**Silty Clay (CL)** Similar to above, no odor
9	4.4				
11	2.4				**Silty Clay (CL)** Similar to above, no odor
13	2.9	12'		60	**Clayey Sand (SC)** Fine grain, compact, saturated, brown, no odor
15	2.8				**Clayey Sand (SC)** Similar to above, saturated
17	2.7			60	
19	1.0				**Clay (CH)** High plasticity, very stiff, dry, damp, reddish brown/gray, no odor
21	1.0			90	**Clay (CH)** Similar to above, no odor
23	1.2				
25					Total Depth = 25' BGL
27					

Completion Results



RPS
1250 S. Capital of Texas Hwy., Bldg. 3, Suite 200
Austin, Texas 78746

512/347-7588
512/347-8243

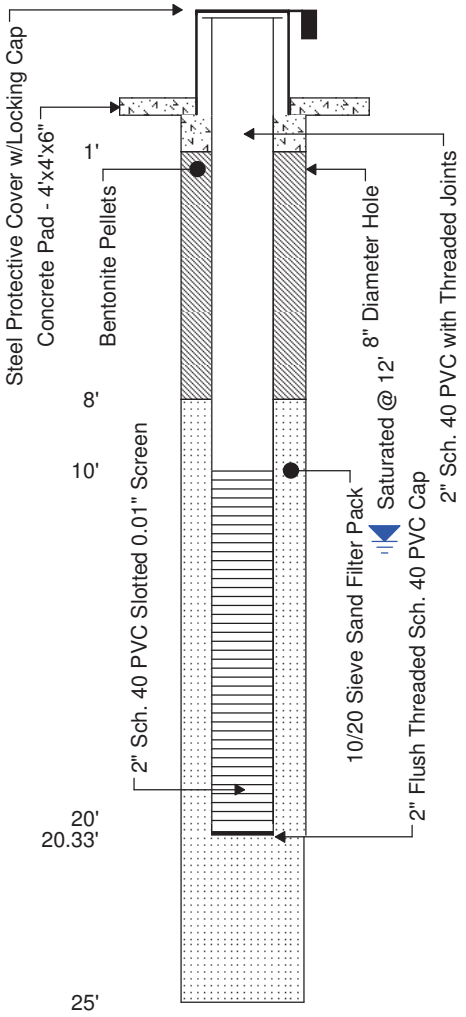
WELL INSTALLATION

Well No.: MKTF-30
Start Date: 4/1/2014 13:00
Finish Date: 4/1/2014 15:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon
Comments: N 35°29.405' W 108°25.910', Air Temp: 58°F

Total Depth: 25' bgl
Ground Water: Saturated @ 12' bgl
Elev., TOC (ft. msl): 6900.80
Elev., PAD (ft. msl): 6898.10
Elev., GL (ft. msl): 6896.68
Site Coordinates:
N 1634225.67 **E** 2544937.91

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
0					Ground Surface
1	12.3			30	**Fill (Silty Clay)** Low plasticity, firm, dry, brown, no odor
5	12.3			90	**Fill (Silty Clay)** Similar to above, dry, crumbly, no odor, sand at base
7	13.2				
9	17.1				
11	18.5	12'		80	**Silty Sand (SM)** Fine grain, compact to loose, moist to saturated at 12' bgl, brown, no odor, clayey at 14' bgl
13	17.2				
15					**Sandy Clay (CL)** Low plasticity, firm, damp, brown, no odor
15	13.1			90	**Clayey Sand (SC)** Very fine grain, compact, saturated, brown, no odor
17					
19	13.8				**Sandy Clay (CL)** Low plasticity, firm, damp, brown, no odor
21	9.1			95	**Clay (CH)** Moderate to high plasticity, stiff, damp to dry, crumbly, brown/gray, no odor
23	6.2				
25					Total Depth = 25' BGL



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512/347-8243

WELL INSTALLATION

Well No.: MKTF-31
Start Date: 4/1/2014 08:20
Finish Date: 4/1/2014 12:00

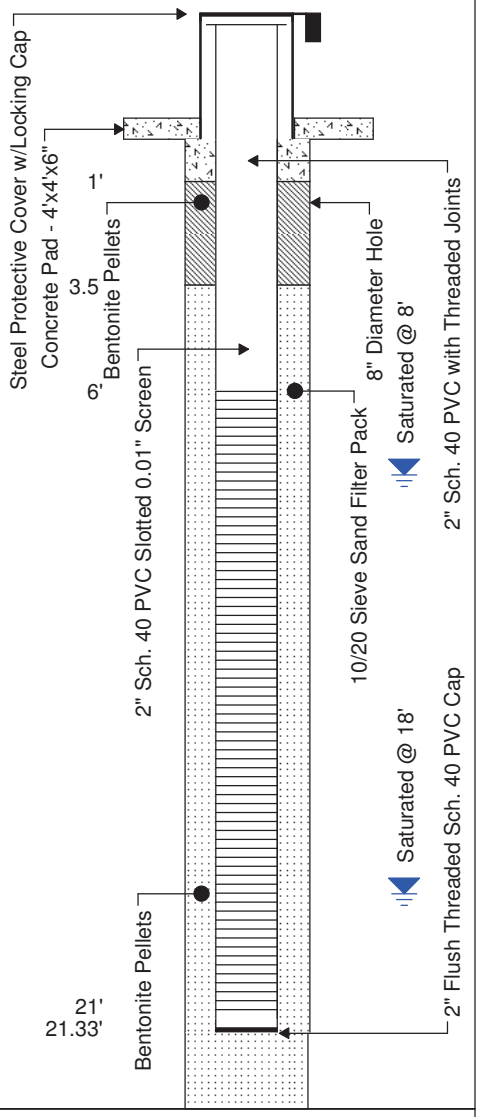
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon

Total Depth: 30' bgl
Ground Water: Saturated @ 8' bgl
Elev., TOC (ft. msl): 6906.87
Elev., PAD (ft. msl): 6904.26
Elev., GL (ft. msl): 6903.11
Site Coordinates:
N 1633898.83 **E** 2544938.99

Comments: N 35°29.350' W 108°25.909', Air Temp: 48°F; Boring ID - SB20

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
0					Ground Surface
1	2.0			90	**Fill (Silty Clay)** Low plasticity, firm, damp, brown, no odor, gravel throughout
3	2.7				
5	6.5				**Silty Clay (CL)** Low plasticity, firm, damp, brown, no odor
7	5.2	8'		70	**Clayey Sand (SC)** Very fine grain, compact, very moist at 6' bgl to saturated at 8' bgl, brown, no odor
9	4.8				
11				95	**Clayey Sand/Silty Sand (SC/SM)** Similar to above, saturated, brown, no odor
13	5.8				**Clay (CH)** High plasticity, stiff, damp, brown, no odor
15				95	**Sandy Clay (CL)** Low to moderate plasticity, firm, damp in sand seams, brown, no odor
17	3.3	18'			
19	4.6				**Clayey Sand (SC)** Very fine grain, compact, moist to saturated, brown, no odor
21	5.2			90	**Sandy Clay (CL)** Low to moderate plasticity, firm, damp in sand seams, brown, no odor

Completion Results



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1250 S. Capital of Texas Hwy., Bldg. 3, Suite 200
Austin, Texas 78746

512/347-7588
512/347-8243

WELL INSTALLATION

Well No.: MKTF-31
Start Date: 4/1/2014 08:20
Finish Date: 4/1/2014 12:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon

Total Depth: 30' bgl
Ground Water: Saturated @ 8' bgl
Elev., TOC (ft. msl): 6906.87
Elev., PAD (ft. msl): 6904.26
Elev., GL (ft. msl): 6903.11
Site Coordinates:
N 1633898.83 **E** 2544938.99

Comments: N 35°29.350' W 108°25.909', Air Temp: 48°F; Boring ID - SB20

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description	Completion Results
24	7.2					
26	2.5			90	**Clay (CH)** Moderate plasticity, firm, dry to damp, crumbly, reddish brown, no odor	
28	2.3					
30					Total Depth = 30' BGL	30' 10/20 Sieve Sand Filter Pack
32						
34						
36						
38						
40						
42						
44						
46						
48						

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WELL INSTALLATION

Well No.: MKTF-32
Start Date: 3/31/2014 14:40
Finish Date: 3/31/2014 16:30

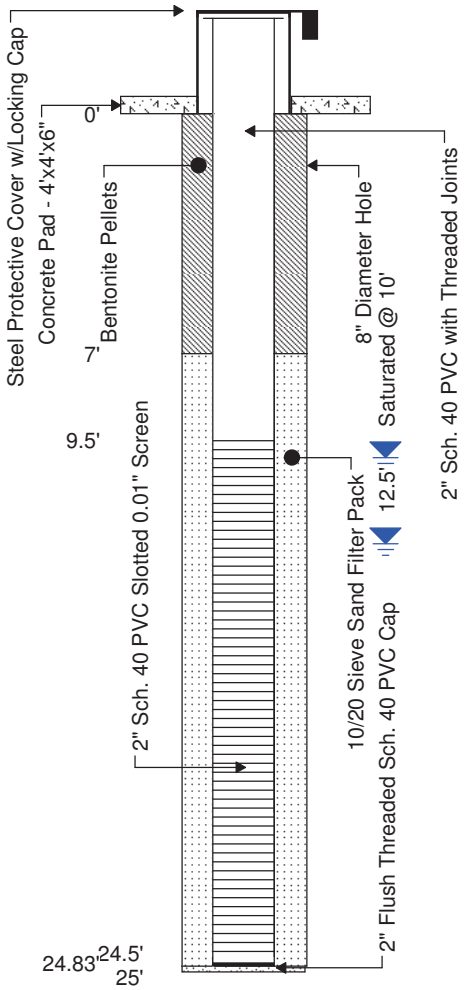
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon

Total Depth: 25' bgl
Ground Water: Saturated @ 10' bgl
Elev., TOC (ft. msl): 6911.11
Elev., PAD (ft. msl): 6908.44
Elev., GL (ft. msl): 6907.16
Site Coordinates:
N 1633443.56 **E** 2544840.32

Comments: N 35°29.275' W 108°25.928', Air Temp: 58°F

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
-3					Ground Surface
-1					
1	16.3			95	**Clayey Silt (ML)** Low plasticity, firm, dry, brown, no odor
3	10.0				
5	8.7				
7	10.1			100	**Clayey Silt/Silty Clay (ML/CL)** Low plasticity, firm, dry, brown, no odor
9	9.1	10'			
11	13.6	12.5'			**Silty Clay (CL)** Similar to above, damp, no odor
13	9.3			90	**Sandy Clay/Clayey Sand (SC/CL)** Low plasticity, very fine grain, brown, moist, saturated at 10-11', bgl and 12.5-13.5' bgl, no odor
15	10.9				
17	10.6			80	**Silty Clay/Clay (CH)** Moderate to high plasticity, firm to stiff, damp, brown, no odor
19	14.1				
21	12.6			80	**Clay (CH)** Similar to above
23	10.4				**Sandy Clay (SC)** Moderate plasticity, firm, moist in sand seams, brown, no odor
25					**Silty Clay (CL)** Low plastiicty, stiff gray to greenish gray, gravelly at base, damp, no odor
27					Total Depth = 25' BGL

Completion Results



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512/347-8243

WELL INSTALLATION

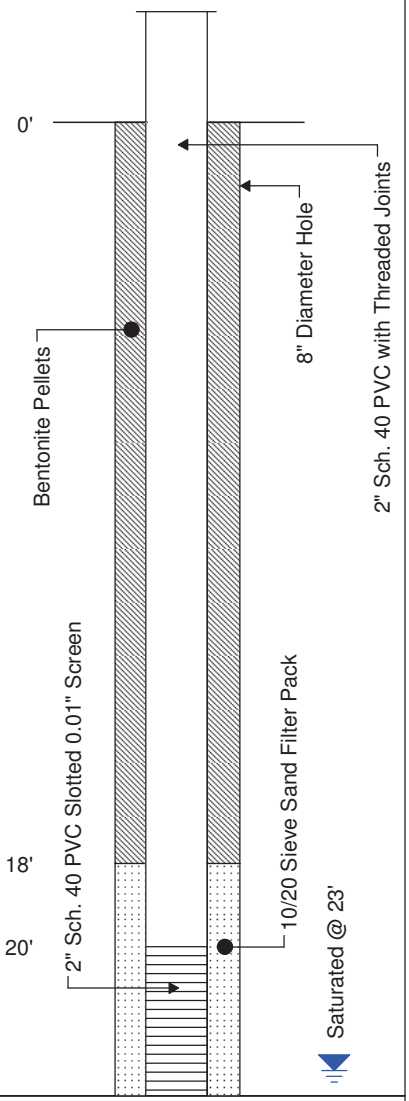
Well No.: MKTF-33
Start Date: 4/3/2014 08:40
Finish Date: 4/3/2014 12:00

Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon
Comments: N 35°29.246' W 108°25.830', Air Temp: 30°F

Total Depth: 35' bgl
Ground Water: Saturated @ 23' bgl
Elev., TOC (ft. msl): 6939.75
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): 6936.59
Site Coordinates:
N 1633261.99 **E** 2545318.27

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
0					Ground Surface
1	0.9				**Silty Clay (CL)** Low plasticity, firm, damp, brown, no odor
3	1.1			95	**Clayey Silt (ML)** Low plasticity, dense, dry, light brown, no odor, calcareous
5	2.1				
7	2.2			95	**Clayey Silt (ML)** Similar to above
9	2.8				
11	3.8			60	**Clayey Sand (SC)** Fine grain, loose to compact, dry, brown, no odor
13	3.7				
15	4.5				**Clay (CH)** High plasticity, very stiff, dry, brown, no odor
17	2.9			50	**Sand/Clayey Sand (SP/SC)** Fine grain, loose to compact, dry, brown, no odor
19					
21	2.5			90	**Sandy Clay/Clay (CL/CH)** High to moderate plasticity, stiff, damp, brown, no odor, sand seam at 21' bgl, saturated sand lense at 23' bgl
23	2.9	▼ 23'			

Completion Results



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WELL INSTALLATION

Well No.: MKTF-33
Start Date: 4/3/2014 08:40
Finish Date: 4/3/2014 12:00

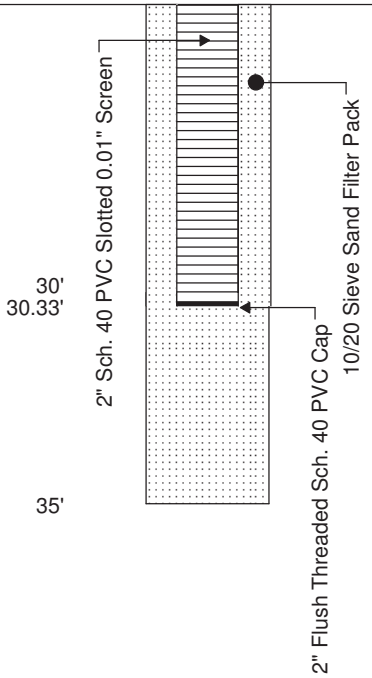
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon

Total Depth: 35' bgl
Ground Water: Saturated @ 23' bgl
Elev., TOC (ft. msl): 6939.75
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): 6936.59
Site Coordinates:
N 1633261.99 **E** 2545318.27

Comments: N 35°29.246' W 108°25.830', Air Temp: 30°F

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
25	3.4				
27	1.6			90	**Clayey Sand/Sandy Clay (SC/CL)** Moderate plasticity, firm, moist to saturated throughout interval, brown, interbedded sand/clay, no odor
29	2.5				
31				95	**Clay (CH)** High plasticity, very stiff, brown, damp, no odor
33					
35					Total Depth = 35' BGL
37					
39					
41					
43					
45					
47					
49					

Completion Results



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512/347-8243

WELL INSTALLATION

Well No.: MKTF-34
Start Date: 3/31/2014 11:00
Finish Date: 3/31/2014 13:45

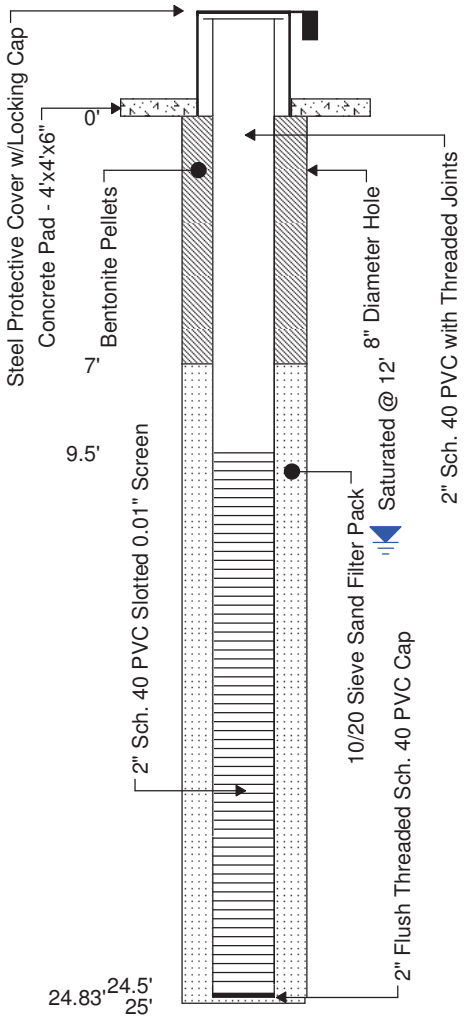
Client: Western Refining Southwest, Inc.
Site: Gallup Refinery - Seep West of Tank 102
Job No.: UEC01867
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow Stem Augers
Sampling Method: 5-Foot Split Spoon

Total Depth: 25' bgl
Ground Water: Saturated @ 12' bgl
Elev., TOC (ft. msl): 6945.35
Elev., PAD (ft. msl): 6942.42
Elev., GL (ft. msl): 6943.52
Site Coordinates:
N 1633118.42 **E** 2545681.30

Comments: N 35°29.224' W 108°25.757', Air Temp: 49-51°F

Depth (ft.)	PID (ppm)	Saturation	USCS Class	Recovery (%)	Sample Description
0					Ground Surface
1	13.6			95	**Silty Clay/Clayey Silt (CL/SM)** Low plasticity, soft, damp, brown, no odor, calcareous
3	7.8				
5	15.6				
7	12.1			60	**Clay (CH)** High plasticity, stiff, damp, brown, no odor
9	10.7				
11	12.3				
13	11.9	12'		60	**Sandy Clay (CL)** Moderate plasticity, firm, moist, brown, no odor
15	9.0				**Clayey Sand (SC)** Similar to above, saturated, no odor
17	8.1			90	**Sandy Clay (CL)** Moderate plasticity, firm, moist, brown, no odor
19	16.3				**Silty Sandy Clay (CL)** Low to moderate plasticity, firm, damp, no odor
21	13.4				
23	13.6			95	**Silty Clay (CL)** Similar to above, damp, no odor
25	15.8				
27	11.5				
	11.7				**Gravelly Clay (CL)** Low plasticity, firm, crumbly, damp, no odor, greenish gray
					Total Depth = 25' BGL

Completion Results



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DiSorbo
Environmental Consulting Firm

Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 18'
Ground Water	: 10'
Start Date	: 11/19/2014
Finish Date	: 11/19/2014

MKTF-35

(Sheet 1 of 1)

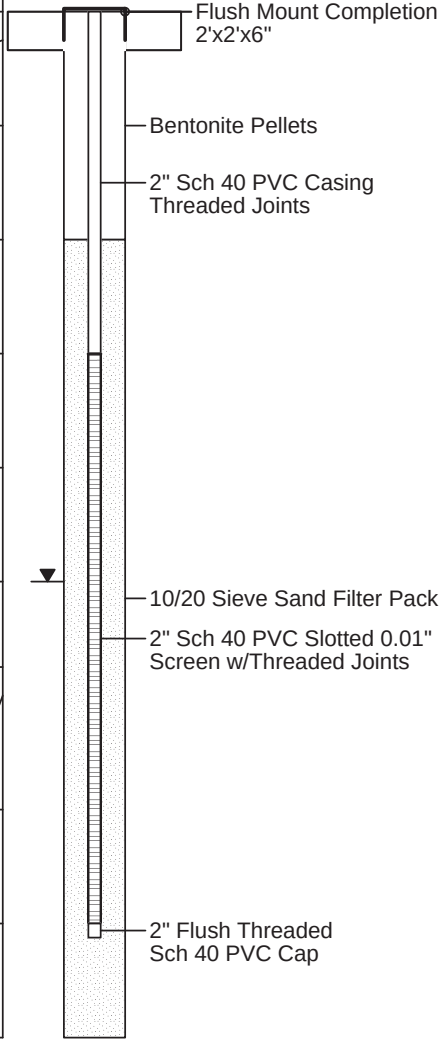
Elev., TOC (ft.msl)	: 6951.65
Elev., PAD (ft. msl)	: 6951.90
Elev., GL (ft. msl)	: 6951.25
Site Coordinates	:
N	: 1633204.45
E	: 2546011.60

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0					100		ASPHALT/BASE,
1	4.5			CL	100		SILTY CLAY, low, very stiff, damp, brown,
2							
3	46.6			CL	20		SILTY CLAY, SIMILAR TO ABOVE (STA), odor, gravel present,
4							
5	95			CL/SP	90		SILTY CLAY/SAND/GRAVEL, low, damp, reddish brown, odor, very coarse grain sand, 1/4" to 1" gravel, odor,
6							
7	64			CL	80		SILTY CLAY, low, firm, damp, reddish brown, odor, occasional gravel,
8							
9	78			CL/SP	90		SILTY CLAY/SAND/GRAVEL, SIMILAR TO 4-6', damp to moist, odor,
10		▼					
11	1790			CL/SP	90		SILTY CLAY/SAND/GRAVEL, SIMILAR TO ABOVE (STA), saturated, hydrocarbon (hc) odor,
12				CL	90		SILTY CLAY, low, stiff, damp, reddish brown, light grey clay @ base, hc odor,
13	2400			CL/SC	90		SILTY CLAY/SANDY CLAY, low, firm to stiff, damp, grey, hc odor, sand/silt varies across interval,
14							
15	745			CL	50		SANDY GRAVELLY CLAY, STA, damp, grey, brown @ base, hc odor,
16							
17	37			CL	90		CLAY, mod, very stiff, damp, brown and grey, faint odor.
18							
19							

Saturation
▼ Saturation

Completion Results

MKTF-35



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1010 Travis Street
Houston, Texas 77002
713-955-1230

DiSorbo Consulting, LLC

8501 N. MoPac Expy, Suite 300
Austin, Texas 78759
512-693-4190

DiSorbo
Environmental Consulting Firm

Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 16'
Ground Water	: 10'
Start Date	: 11/19/2014
Finish Date	: 11/19/2014

MKTF-36

(Sheet 1 of 1)

Elev., TOC (ft.msl)	: 6950.12
Elev., PAD (ft. msl)	: 6950.67
Elev., GL (ft. msl)	: 6949.87
Site Coordinates	:
N	: 1633349.47
E	: 2545982.58

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0					100		ASPHALT/BASE,
1	812			CL	90		SANDY CLAY, low, stiff, dry, tan, no odor, gravel throughout,
2							
3	276			CL	60		SILTY CLAY, low, very stiff, dry, brown, hydrocarbon (hc) odor,
4							
5	1700			CL	60		SILTY CLAY, SIMILAR TO ABOVE (STA), trace sand/gravel, hc odor,
6							
7	2411			CL/SP	90		SILTY CLAY/SAND/GRAVEL, low, firm, damp, tan, very coarse sand, 1/4" to 1" gravel, hc odor, moist to very moist in seams,
8							
9	2278			CL/SP	90		SILTY CLAY/SAND/GRAVEL, STA, moist, fluid in top of sampling spoon, strong hc odor, trace phase separated hydrocarbon (psh),
10		▼					
11	1879			CL/SP	90		SILTY CLAY/SAND/GRAVEL, STA, saturated, psh,
12				CL/SP	90		SILTY CLAY/SAND/GRAVEL, STA, saturated, psh,
13	405			CL	90		SILTY CLAY, low, stiff, damp, brown, hc odor,
14							SILTY CLAY, STA, damp, hc odor.
15	450			CL	90		
16							

Saturation
▼ Saturation

Completion Results

MKTF-36

- Flush Mount Completion 2'x2'x6"
- Bentonite Pellets
- 2" Sch 40 PVC Casing Threaded Joints
- 10/20 Sieve Sand Filter Pack
- 2" Sch 40 PVC Slotted 0.01" Screen w/Threaded Joints
- 2" Flush Threaded Sch 40 PVC Cap

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Houston, Texas 77002
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Austin, Texas 78759
512-693-4190

DiSorbo
Environmental Consulting Firm

Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 24'
Ground Water	: 8'
Start Date	: 11/18/2014
Finish Date	: 11/18/2014

MKTF-37

(Sheet 1 of 1)

Elev., TOC (ft.msl)	: 6958.87
Elev., PAD (ft. msl)	: 6959.07
Elev., GL (ft. msl)	: 6958.62
Site Coordinates	:
N	: 1633291.89
E	: 2546216.67

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0–1	69				40		ASPHALT/GRAVEL BASE, CLAY, very stiff, brown, damp, faint odor,
2–3	367			CL	50		SILTY CLAY, low, very stiff, brown, damp, odor, gravel present,
4–5	355			CL/SP	60		SILTY CLAY/SAND/GRAVELLY, low to firm, damp, brown with sand/gravel, odor,
6–7	1790			CL/SP	80		SILTY CLAY/SAND/GRAVELLY, SIMILAR TO ABOVE (STA), odor,
8		▼		CL	90		SILTY CLAY, low, soft, moist to very moist, brown, strong odor,
9	2140			SW/GW	90		SANDY GRAVEL/GRAVELLY SAND, coarse to very coarse grain, compact, very moist, odor, tan,
10–11	404			CL/SP	90		SILTY CLAY/SAND/GRAVEL, low to firm, damp, brown with coarse sand & gravel, odor,
12–13	454			CL	20		SANDY CLAY, low, soft, damp, odor, light grey, gravel @ base,
14–15	660			CL	50		SANDY CLAY, low, very stiff, damp, odor, light grey,
16–17	340			CL	30		SANDY CLAY, STA,
18–19	344			CL	30		SANDY CLAY, STA,
20				CL	60		SANDY CLAY, STA,
21–22	421			SH	60		SHALE, CLAYEY, light purple, damp, very stiff, odor,
23–24	375			SH	30		SHALE, STA,

Saturation
▼ Saturation

Completion Results

MKTF-37

- Flush Mount Completion 2'x2'x6"
- Bentonite Pellets
- 2" Sch 40 PVC Casing Threaded Joints
- 10/20 Sieve Sand Filter Pack
- 2" Sch 40 PVC Slotted 0.01" Screen w/Threaded Joints
- 2" Flush Threaded Sch 40 PVC Cap

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Austin, Texas 78759
512-693-4190

DiSorbo
Environmental Consulting Firm

Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 20.25'
Ground Water	: 8'
Start Date	: 11/20/2014
Finish Date	: 11/20/2014

MKTF-38

(Sheet 1 of 1)

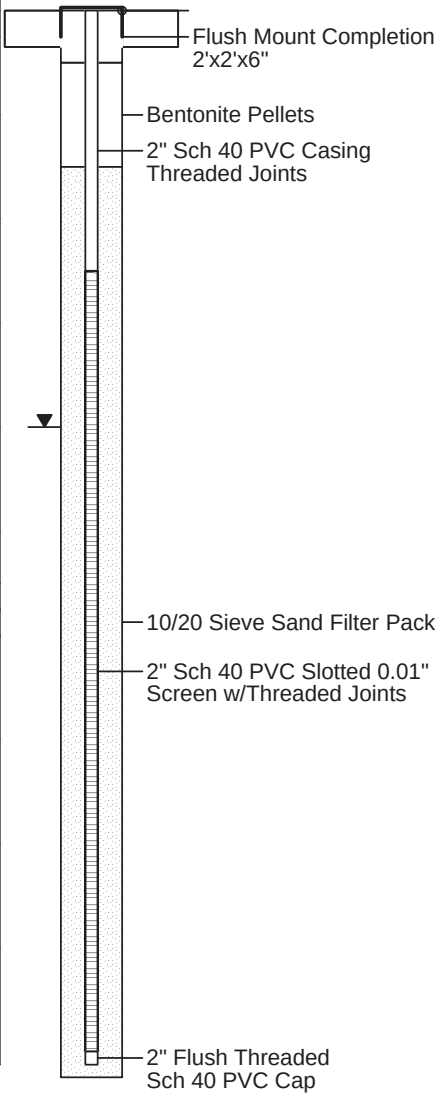
Elev., TOC (ft.msl)	: 6954.89
Elev., PAD (ft. msl)	: 6955.17
Elev., GL (ft. msl)	: 6954.54
Site Coordinates	:
N	: 1633451.01
E	: 2546222.09

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0					100		ASPHALT/BASE,
1	217			CL/SP	90		SILTY CLAY/SAND/GRAVEL, low, firm, damp, brown, coarse grain sand, 1/4" to 1" gravel, odor,
2							
3	70			CL/SP	90		SILTY CLAY/SAND/GRAVEL, SIMILAR TO ABOVE (STA), odor,
4							
5	42			CL/SP	90		SILTY CLAY/SAND/GRAVEL, STA, odor,
6							
7	20			CL/SP	90		SILTY CLAY/SAND/GRAVEL, STA, odor,
8		▼					
9	9			CL/SP	90		SILTY CLAY/SAND/GRAVEL, STA, decrease in clay content, very moist to saturated, odor,
10				GW	90		SANDY GRAVEL, compact, brown, saturated, faint odor, very coarse grain sand, 1/4" to 1.5" gravel,
11	7			CL	90		
12				GW	90		SANDY CLAY, low, firm to soft, moist, brown,
13	8			GW	10		SANDY GRAVEL, STA (10-11), saturated,
14							SANDY GRAVEL, STA, saturated,
15	6			GW	10		SANDY GRAVEL, STA, saturated,
16							
17	4			CL	50		SANDY CLAY, low, firm, damp to moist, greyish brown, faint odor,
18							
19	5			CL	60		SANDY CLAY, STA,
20							
21							

Saturation
▼ Saturation

Completion Results

MKTF-38



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Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 16'
Ground Water	: 12'
Start Date	: 11/14/2014
Finish Date	: 11/14/2014

MKTF-39

(Sheet 1 of 1)

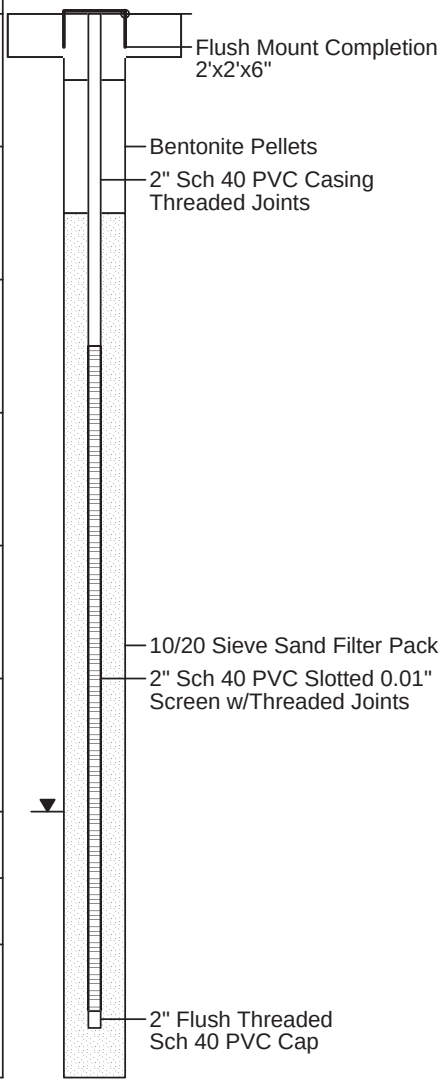
Elev., TOC (ft.msl)	: 6953.75
Elev., PAD (ft. msl)	: 6953.97
Elev., GL (ft. msl)	: 6953.12
Site Coordinates	:
N	: 1633729.23
E	: 2546265.99

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0							GRAVEL/CLAYEY SILT, FILL, brown, damp, faint odor,
1	2.1			ML	100		
2							GRAVEL/SILTY CLAY, FILL, mod, stiff, damp, brown, no odor,
3	29.4			CL	100		
4							SANDY SILTY CLAY, FILL, low, soft, damp, brown, pea sized gravel, no odor, damp,
5	6.5			CL	90		
6							SILTY GRAVELLY SAND, FILL, loose, medium sand to 1.5" gravel, brown, no odor, damp,
7	4.5			SW	90		
8							SANDY CLAY/CLAYEY SAND, coarse, compact, damp to moist, brown, hydrocarbon (hc) odor, gravelly,
9	400			CL/SC	90		
10							SANDY CLAY/CLAYEY SAND, SIMILAR TO ABOVE (STA), moist/oily, hc odor, gravelly,
11	569			CL	90		
12		▼					SANDY GRAVEL, loose, brown, saturated, hc odor, very coarse sand to 3/4" gravel,
13	-			GP	90		SILTY CLAY, low, very stiff, dry to damp, grey, faint odor @ base,
14	51			CL	90		SILTY CLAY, STA.
15	18			CL	90		
16							

Saturation
▼ Saturation

Completion Results

MKTF-39



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Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 22'
Ground Water	: 10'
Start Date	: 11/13/2014
Finish Date	: 11/13/2014

MKTF-40

(Sheet 1 of 1)

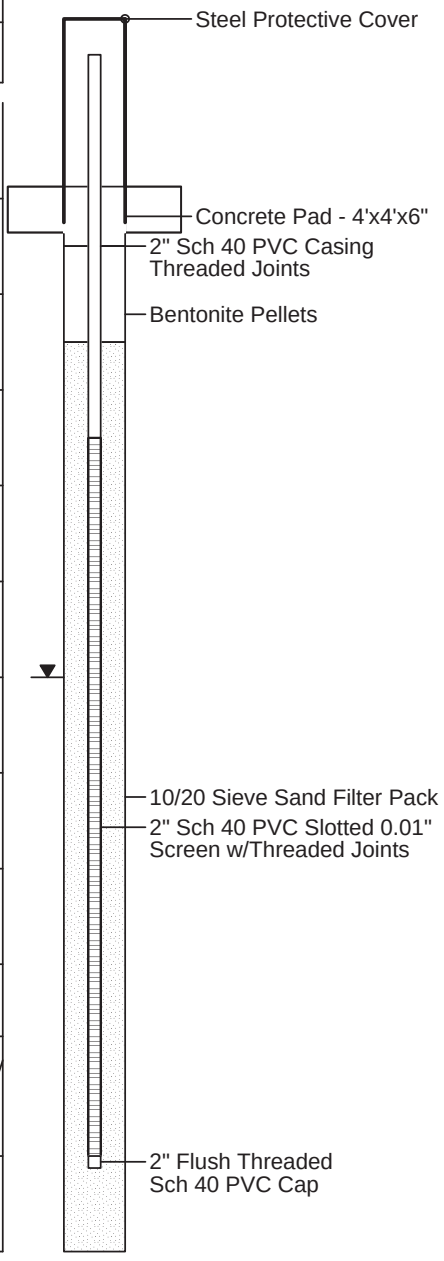
Elev., TOC (ft.msl)	: 6894.33
Elev., PAD (ft. msl)	: 6891.35
Elev., GL (ft. msl)	: 6890.48
Site Coordinates	:
N	: 1634085.50
E	: 2544637.81

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0							CLAY, mod, stiff, damp, brown, no odor, gravel,
1	0.8			CL	100		
2							CLAY, SIMILAR TO ABOVE (STA), gravel,
3	0.1			CL	90		
4							CLAY, STA,
5	0.7			CL	80		
6							SANDY CLAY, low, firm to soft, damp, brown, no odor, moist 7-8' ,
7	1.8			CL	90		
8							SANDY CLAY, STA, damp to moist,
9	2.0			CL	70		
10		▼					SANDY CLAY/CLAYEY SAND, STA, moist to saturated in clayey sand seams, no odor,
11	0.6			CL/SC	90		
12							SANDY SILTY CLAY, low, stiff, damp, brown, no odor, moist to saturated in sand seams,
13	1.5			CL	20		
14							SANDY CLAY/CLAYEY SAND, low, firm to soft,moist to saturated in clayey sand seams,
15	2.2			CL/SC	80		
16							SANDY CLAY/CLAYEY SAND, STA, moist to saturated,
17	2.2			CL/SC	80		
18				CL	90		SILTY CLAY, low, very stiff, damp, reddish brown and grey, no odor,
19	2.5			CL	80		SILTY CLAY, STA,
20							SILTY CLAY, STA,
21	2.6			CL	50		

Saturation
▼ Saturation

Completion Results

MKTF-40



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Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 37.25'
Ground Water	: 34'
Start Date	: 11/13/2014
Finish Date	: 11/14/2014

MKTF-41

(Sheet 1 of 2)

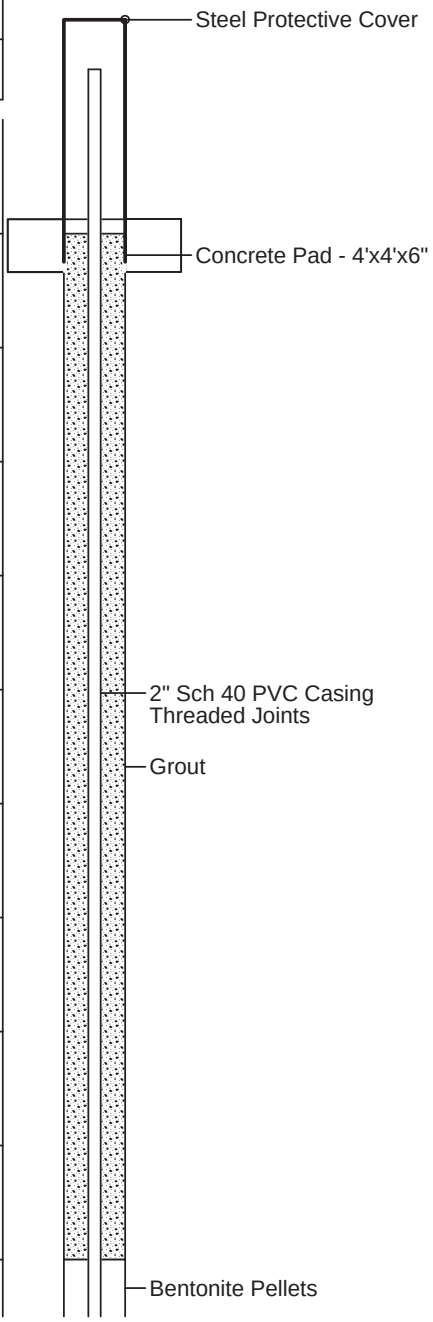
Elev., TOC (ft.msl)	: 6893.64
Elev., PAD (ft. msl)	: 6891.11
Elev., GL (ft. msl)	: 6889.80
Site Coordinates	:
N	: 1633499.80
E	: 2544567.57

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0							SANDY SILTY CLAY, low, stiff, dry, brown, no odor, fine grained sand, occasional gravel,
1	2.6			CL	80		
2							SANDY SILTY CLAY, SIMILAR TO ABOVE (STA), no odor,
3	2.3			CL	70		
4							SANDY SILTY CLAY, STA, no odor,
5	1.2			CL	40		
6							SILTY CLAY/CLAYEY SILT, low, firm, dry, brown, no odor,
7	2.4			CL/ML	50		
8							SANDY CLAY, low, very stiff, dry, brown, no odor,
9	3.9			CL	60		
10							SANDY CLAY, STA, damp,
11	4.8			CL	30		
12							SANDY CLAY, STA,
13	3.5			CL	40		
14							SANDY CLAY, STA,
15	1.2			CL	10		
16							SILTY CLAY, low, very stiff, dry/damp, light reddish brown with grey @ base, no odor,
17	3.9			CL	50		
18							SILTY CLAY, STA, reddish brown and light grey,
19	4.0			CL			

Saturation
▼ Saturation

Completion Results

MKTF-41



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Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 37.25'
Ground Water	: 34'
Start Date	: 11/13/2014
Finish Date	: 11/14/2014

MKTF-41

(Sheet 2 of 2)

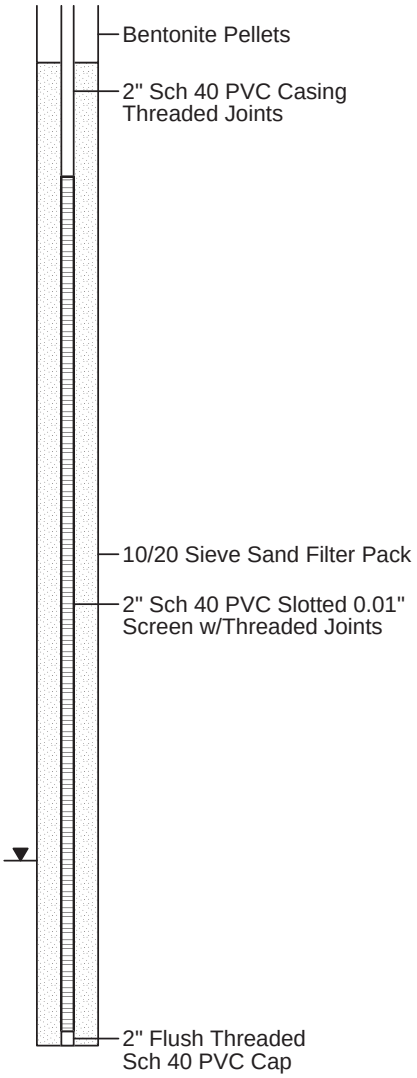
Elev., TOC (ft.msl)	: 6893.64
Elev., PAD (ft. msl)	: 6891.11
Elev., GL (ft. msl)	: 6889.80
Site Coordinates	:
N	: 1633499.80
E	: 2544567.57

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
19	4.0			CL	80		
20							SILTY CLAY, STA, light reddish brown,
21	3.9			CL	50		
22							SILTY CLAY, STA, light reddish brown and trace grey,
23	3.6			CL	40		
24							SILTY CLAY, STA, light reddish brown,
25	3.3			CL	50		
26							SILTY CLAY, STA,
27	2.1			CL	10		
28							SILTY CLAY, STA,
29	2.8			CL	20		
30							SILTY CLAY, STA, moist @ top of sample,
31	2.6			CL	40		
32							SILTY CLAY, STA, calcareous,
33	3.1			CL	50		
34		▼					SILTY CLAY, STA, gravelly, moist to saturated, no odor, shale @ base,
35	2.9			CL	50		
36							SHALE, dark grey, dense to very dense,
37	-			SH	10		
38							
39							
40							

Saturation
▼ Saturation

Completion Results

MKTF-41



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Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 30.25'
Ground Water	:
Start Date	: 11/12/2014
Finish Date	: 11/12/2014

MKTF-42

(Sheet 1 of 1)

Elev., TOC (ft.msl)	: 6892.95
Elev., PAD (ft. msl)	: 6890.42
Elev., GL (ft. msl)	: 6888.75
Site Coordinates	:
N	: 1633078.09
E	: 2544678.55

Water Level

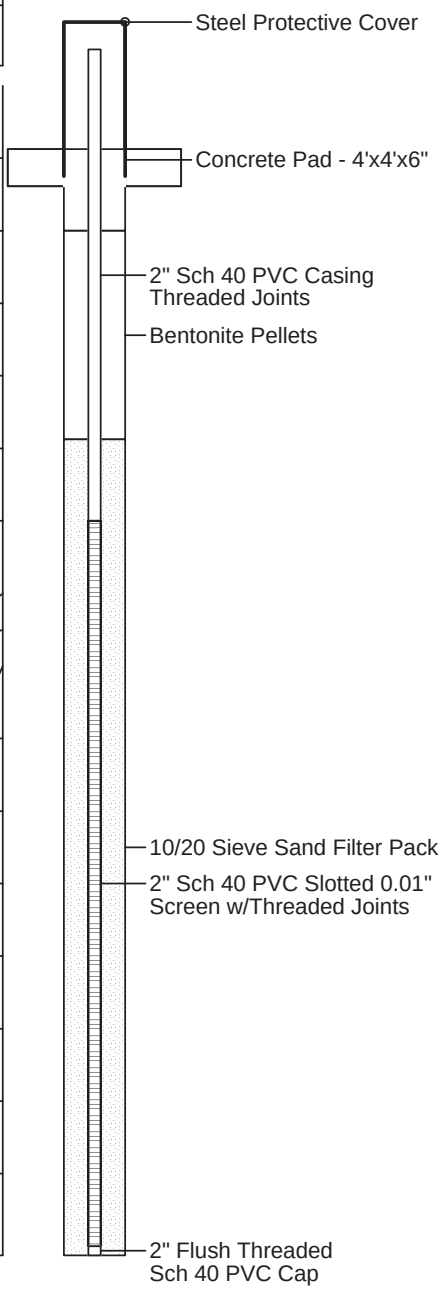
Depth to water - 18.79 ftbtoc 11-18-14

(not known to be static)

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
0–1	1.7			CL	100		SILTY CLAY, low, firm, dry, light brown, no odor,
2–3	2.8			CL	90		SILTY CLAY, low, very stiff, dry, light brown, calcareous, no odor, crumbly,
4–5	3.8			CL	60		SILTY CLAY, SIMILAR TO ABOVE (STA),
6–7	2.4			CL	60		SILTY CLAY, STA,
8–9	4.1			CL	30		SILTY CLAY, STA,
10–11	2.8			CL	50		SANDY CLAY, low, stiff, dry, light reddish brown with medium grained sand and interbedded sandstone less than 1/2" thick,
12				CL	80		SANDY CLAY, STA,
13	3.9			CL	80		SILTY CLAY, low, very stiff, damp/dry, light reddish brown, no odor, calcareous,
14–15	2.5			CL	60		SILTY CLAY, STA, increase in moisture,
16–17	2.3			CL	50		SILTY CLAY, STA, trace sand, standstone seam @ 17.5', very dense,
18–19	2.4			CL	80		SILTY CLAY, STA, odor, extremely calcareous (50%),
20–21	1.5			CL	80		SILTY CLAY, STA, calcareous,
22–23	2.5			CL	10		SILTY CLAY, low, stiff, damp, reddish brown, no odor,
24–25	1.4			CL	60		SILTY CLAY, STA,
26–27	1.5			CL	60		SILTY CLAY, STA, trace grey,
28–29	1.2			CL	50		SILTY CLAY, STA, grey and reddish brown.

Completion Results

MKTF-42



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Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 28'
Ground Water	:
Start Date	: 11/11/2014
Finish Date	: 11/11/2014

MKTF-43

(Sheet 1 of 1)

Elev., TOC (ft.msl)	: 6876.90
Elev., PAD (ft. msl)	: 6874.12
Elev., GL (ft. msl)	: 6873.22
Site Coordinates	:
N	: 1633490.97
E	: 2544190.23

Water Level

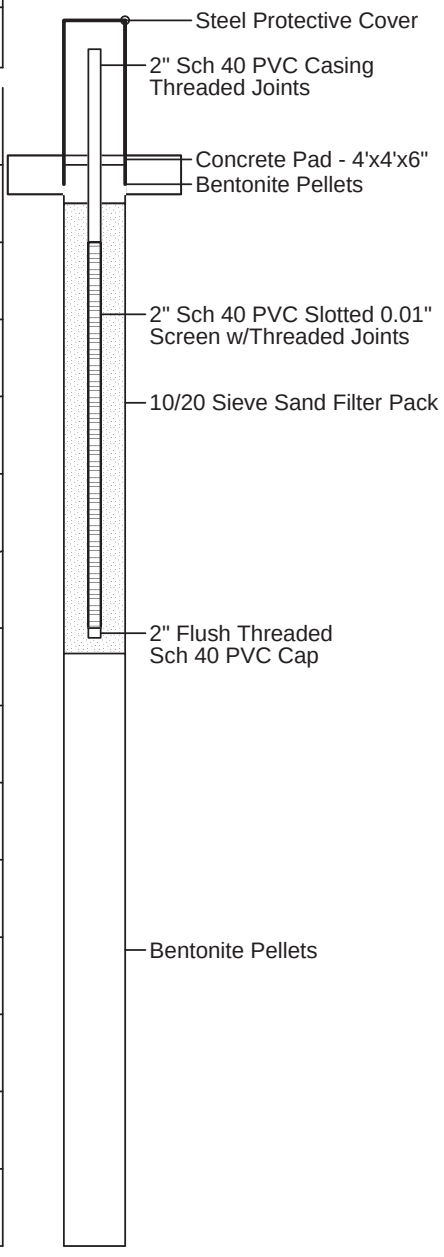
Depth to water - 6.95 ftbtoc 11-18-14

(not known to be static)

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	Sample	DESCRIPTION
1	3.6			CH	100		CLAY, high, stiff, damp, brown, no odor,
3	4.6			CH	50		CLAY, SIMILAR TO ABOVE (STA), moist in seams,
5	4.2			CH	90		CLAY, STA, moist in seams,
7	4.6			CH	90		CLAY, STA, reddish brown,
9	4.0			CL	90		SILTY CLAY, low, soft, damp, reddish brown, crumbly, no odor, trace grey clay @ 9.5',
11	3.3			CL	80		SILTY CLAY, STA, stiff,
13	3.8			CL	60		SILTY CLAY, STA, very stiff,
15	3.8			CL	80		SILTY CLAY, STA, very stiff, calcareous,
17	2.9			CL	80		SILTY CLAY, STA,
19	3.1			CL	50		SILTY CLAY, STA,
21	3.1			CL	60		SILTY CLAY, STA,
23	3.2			CL	10		SILTY CLAY, STA,
25	3.3			CL	30		SILTY CLAY, STA, sandstone seam 24.50',
27	3.2			CL	30		SILTY CLAY, STA.

Completion Results

MKTF-43



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Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 50'
Ground Water	:
Start Date	: 11/11/2014
Finish Date	: 11/12/2014

MKTF-44

(Sheet 1 of 2)

Elev., TOC (ft.msl)	: 6869.95
Elev., PAD (ft. msl)	: 6867.41
Elev., GL (ft. msl)	: 6866.06
Site Coordinates	:
N	: 1633681.48
E	: 2542981.45

Water Level

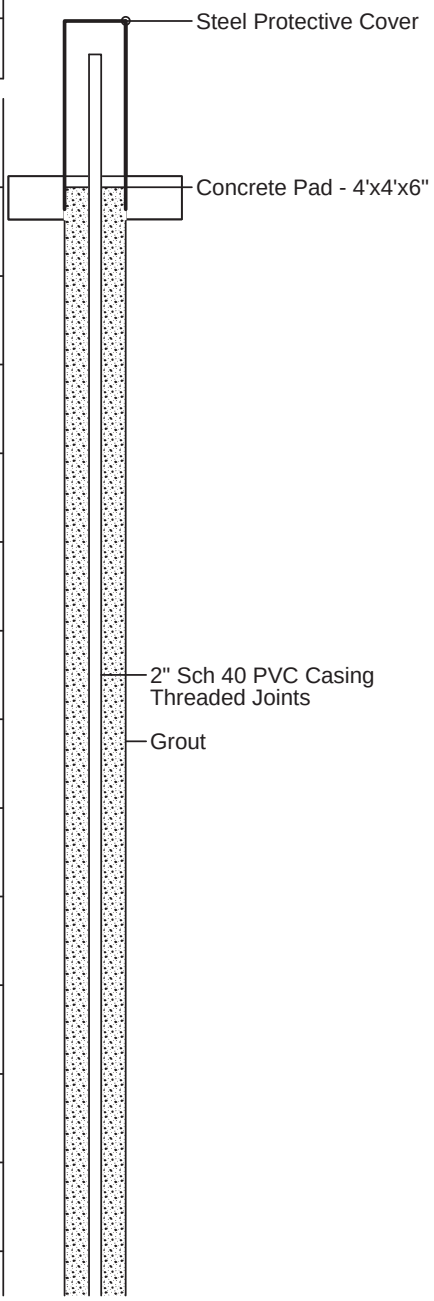
Depth to water - 48.80 ftbtoc 11-17-14

(not known to be static)

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	DESCRIPTION
0						
1	6.3			CH	100	CLAY, high, very stiff, damp, brown, no odor,
3	8.3			CH	80	CLAY, SIMILAR TO ABOVE (STA),
5	8.2			CH	70	CLAY, STA,
7	8.6			CH	90	CLAY, STA,
9	8.2			CH	80	CLAY, STA,
11	7.9			CH	90	CLAY, STA, trace silt,
13	7.8			CH	90	CLAY, high, very stiff, damp, brown, no odor,
15	6.5			CH	10	CLAY, STA,
17	7.1			CH	80	CLAY, STA,
19	7.6			CL	70	SANDY SILTY CLAY, low, stiff, damp, light brown, no odor, gravel @ base, soft/crumbly 19-19.5' with lesser amount of clay,
21	5.5			CL	80	SILTY CLAY, STA with sand seams/sandstone fro 20.5-22, dry, crumbly,
23	6.4			CL	80	SANDY SILTY CLAY, low, stiff, dry to damp, light brown, no odor,
24	4.8			CL		GRAVELLY CLAY, STA, with gravel,

Completion Results

MKTF-44



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Western Refining SW, Inc.
Gallup Refinery - Hydrocarbon Seep
Job No. WEST14003

Geologist	: Tracy Payne
Driller	: C. Ortiz
Drilling Rig	: CME 75
Drilling Method	: Hollow Stem Auger 7.5"
Sampling Method	: Split Spoon 2" Dia, 2' Long
Comments	:
Total Depth	: 50'
Ground Water	:
Start Date	: 11/11/2014
Finish Date	: 11/12/2014

MKTF-44

(Sheet 2 of 2)

Elev., TOC (ft.msl)	: 6869.95
Elev., PAD (ft. msl)	: 6867.41
Elev., GL (ft. msl)	: 6866.06
Site Coordinates	:
N	: 1633681.48
E	: 2542981.45

Water Level

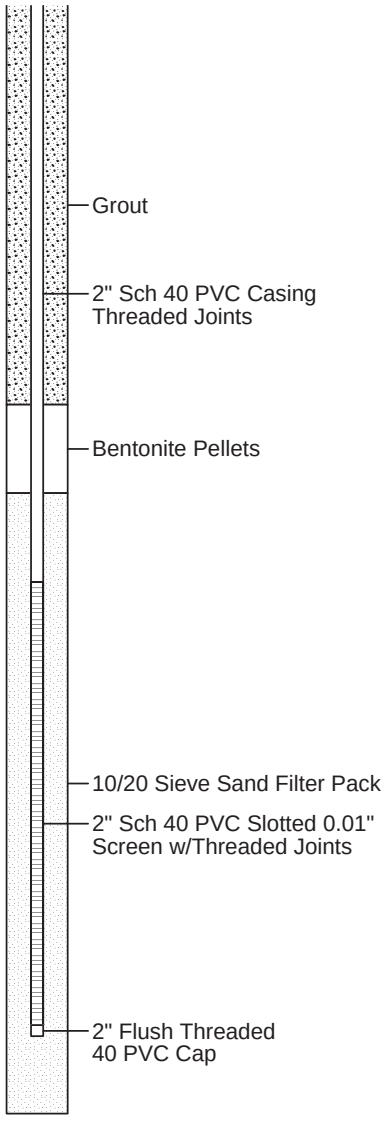
Depth to water - 48.80 ftbtoc 11-17-14

(not known to be static)

Depth (ft.)	PID (ppm)	Saturation	Lithology	USCS	Recovery (%)	DESCRIPTION
25	4.8			CL	70	
26						GRAVELLY CLAY, STA, very stiff,
27	3.8			CL	50	
28						SILTY CLAY, low, very stiff, damp/dry, reddish brown, no odor, calcareous,
29	4.8			CL	50	
30						SILTY CLAY, low, firm/crumbly, damp to dry, reddish brown, no odor, calcareous,
31	4.6			CL	90	
32						SILTY CLAY, STA, stiff to very stiff,
33	4.3			CL	80	
34						SILTY CLAY, STA,
35	3.6			CL	80	
36						SILTY CLAY, STA,
37	1.9			CL	10	
38						SILTY CLAY, STA,
39	4.4			CL	20	
40						SILTY CLAY, STA,
41	3.8			CL	80	
42						SILTY CLAY, low, very stiff, crumbly, damp to dry, reddish brown, no odor,
43	3.8			CL	20	
44						SILTY CLAY, STA,
45	3.9			CL	60	
46						SILTY CLAY, STA,
47	3.8			CL	40	
48						SILTY CLAY, STA,
49	3.7			CL	20	
50						
51						
52						

Completion Results

MKTF-44



1010 Travis Street
Houston, Texas 77002
713-955-1230

DiSorbo Consulting, LLC

8501 N. MoPac Expy, Suite 300
Austin, Texas 78759
512-693-4190

Appendix B

Photos of Sewer Line Excavation

Photos of Sewer Pipeline Repair near Bundle Cleaning Pad

Photo of replaced sewer line near south end of excavation looking to the west.

View from south end of excavation looking to the north.

Photo of south end of excavation looking to the east. South wall is concrete sewer junction box.

View of excavation looking to north with Bundle Cleaning Pad in background.

View of north end of excavation with new sewer line terminating into concrete sewer junction box on west side of Bundle Cleaning Pad.

Appendix C
Well Survey Data

DePauli Engineering
& Surveying, LLC.
Civil Engineers and Land Surveyors

Phone: 505-863-5440 • Fax: 505-863-1919 • www.depauliengineering.com
307 South 4th Street • Gallup, NM 87301
PO BOX 876 • Gallup, NM 87305

February 11, 2014

Mr. Ed Riege, Environmental Manager
Western Refining-Gallup Refinery
Route 3 Box 7
Gallup, NM 87301

Re: Western Refining Monitoring Wells

Dear Mr. Riege:

DePauli Engineering & Surveying, LLC completed the field survey of the 18 monitoring wells at Western Refining-Gallup Refinery on January 21, 2014. The wells were surveyed for the following parameter: ground level elevation, ground level elevation inside steel sleeve, center top steel lid elevation, well casing rim elevation and corresponding measuring point description associated with each elevation. Survey conducted enlisted NM Surveyor in Training and a Technician (under my direct supervision), from DePauli Engineering Surveying, LLC and one Gallup Refinery representative to assist with the location of the wells.

The instruments used to complete the survey consisted of a Leica VIVA GS10 GPS (global positing system) and System 1200 GPS. The method used to survey the wells was Real-time Kinematic GPS Surveying (RTK). RTK surveying requires that two or more receivers are operated simultaneously. The aspect of the procedure involves a radio transmitting a signal from the base station. The base station's coordinates are utilized to make the appropriate corrections to the error involved with the GPS signals. The rover receives the corrections thence giving the rover observation corrected valves. The horizontal and vertical positions are determined by differential GPS involving the base line surveyed from local base station to survey position. The base line measurements are surveyed for one minute (60 observations). This is verified by surveying known local control points and bench marks.

The horizontal and vertical positions of the top of the PVC casing (unless otherwise noted) and the vertical positions for the lid, ground elevation inside the steel casing, and the surrounding ground elevation is shown on the attached sheet labeled "Western Refining Monitoring Wells January 21, 2014." The horizontal position is NAD 83 datum and the vertical positions are NGVD 1929. Elevations were taken using the concrete pad surrounding each well and locations

noted on the report. Ground elevation was taken using the concrete pad surrounding each well and locations shown on the report.

The requested field survey was complete on January 21, 2014 in accordance with sections 500.1 through 500.12 of the Regulations and Rules of the Board of Registration for Professional Engineers and Surveyors Minimum Standards for Surveying in New Mexico; which horizontal positions were measured to the nearest 0.1-ft and vertical elevations were measured to an accuracy of 0.01-ft.

If you have any questions concerning this survey please do not hesitate to contact our office.

Sincerely,

Marc DePauli

Marc DePauli, PE/PS

Western Refining Monitoring Wells January 21, 2014

Well #	Northing	Easting	Elevation	Description
MKTF-10	1,633,807.47	2,545,853.54	6937.16	North edge PVC casing
			6937.51	Center steel lid
			6936.63	North side ground elev. inside steel sleeve
			6937.51	Average corner elevation of concrete collar
MKTF-15	1,633,845.57	2,545,934.58	6943.48	North edge PVC casing
			6943.73	Center steel lid
			6943.19	North side ground elev. inside steel sleeve
			6943.74	**Average elevation of concrete collar
			** Concrete collar is in general circular shape	
MKTF-16	1,633,718.14	2,546,068.55	6950.58	North edge PVC casing
			6950.97	Center steel lid
			6950.58	North side ground elev. inside steel sleeve
			6951.00	Average corner elevation of concrete collar
MKTF-11	1,633,806.93	2,545,754.77	6931.34	South edge PVC casing
			6931.61	Center steel lid
			6930.86	North side ground elev. inside steel sleeve
			6931.61	Average corner elevation of concrete collar
MKTF-03	1,633,746.53	2,545,756.87	6931.31	North edge PVC casing
			6931.69	Center steel lid
			6930.85	North side ground elev. inside steel sleeve
			6931.73	Average corner elevation of concrete collar
MKTF-04	1,633,649.46	2,545,752.83	6933.57	North edge PVC casing
			6933.91	Center steel lid
			6933.24	North side ground elev. inside steel sleeve
			6933.90	Average corner elevation of concrete collar
MKTF-05	1,633,472.30	2,545,769.95	6942.22	North edge PVC casing
			6942.80	Center steel lid
			6941.95	South side ground elev. inside steel sleeve
			6939.49	Average corner elevation of concrete collar
MKTF-09	1,633,681.33	2,545,895.93	6946.50	North edge PVC casing
			6947.21	Center steel lid
			6945.90	South side ground elev. inside steel sleeve
			6943.57	Average corner elevation of concrete collar

Well #	Northing	Easting	Elevation	Description
MKTF-08	1,633,598.94	2,545,885.02	6947.09	North edge PVC casing
			6947.48	Center steel lid
			6942.67	South side ground elev. inside steel sleeve
			6944.02	Average corner elevation of concrete collar
MKTF-07	1,633,555.11	2,545,885.42	6947.18	North edge PVC casing
			6947.84	Center steel lid
			6947.06	South side ground elev. inside steel sleeve
			6944.40	Average corner elevation of concrete collar
MKTF-06	1,633,556.28	2,545,811.85	6946.81	North edge PVC casing
			6947.29	Center steel lid
			6946.63	South side ground elev. inside steel sleeve
			6944.24	Average corner elevation of concrete collar
MKTF-18	1,633,497.53	2,546,006.29	6950.65	**North edge PVC casing
			6950.96	Center steel lid
			6950.17	North side ground elev. inside steel sleeve
			6950.97	Average corner elevation of concrete collar
				** Mark was existing on PVC casing
MKTF-12	1,633,542.07	2,545,688.29	6942.11	North edge PVC casing
			6942.84	Center steel lid
			6941.88	South side ground elev. inside steel sleeve
			6939.70	Average corner elevation of concrete collar
MKTF-13	1,633,625.25	2,545,697.39	6935.18	**North edge PVC casing
			6936.89	Center steel lid
			6934.83	South side ground elev. inside steel sleeve
			6933.67	Average corner elevation of concrete collar
				** PVC casing not typical
MKTF-14	1,633,719.43	2,545,625.96	6928.02	North edge PVC casing
			6928.75	Center steel lid
			6927.80	South side ground elev. inside steel sleeve
			6925.65	Average corner elevation of concrete collar
MKTF-01	1,633,864.41	2,545,561.73	6920.67	**North edge PVC casing
			6921.68	Center steel lid
			6920.67	South side ground elev. inside steel sleeve
			6918.28	**Average corner elevation of concrete collar
				** Inside ground elev. is flush with PVC casing

Well #	Northing	Easting	Elevation	Description
MKTF-02	1,633,946.93	2,545,530.46	6917.45	** North edge PVC casing
			6918.31	Center steel lid
			6917.18	South side ground elev. inside steel sleeve
			6915.00	Average corner elevation of concrete collar
				** PVC casing not typical
MKTF-17	1,633,268.93	2,545,850.73	6945.76	North edge PVC casing
			6946.00	Center steel lid
			6945.64	North side ground elev. inside steel sleeve
			6945.79	** Average corner elevation of concrete collar
			**	Concrete collar is in general circular shape

Marc DePauli

Marc DePauli PS13606

2-11-2014

Date

DePauli Engineering
& Surveying, LLC.
Civil Engineers and Land Surveyors

Phone: 505-863-5440 • Fax: 505-863-1919 • www.depauliengineering.com
307 South 4th Street • Gallup, NM 87301
PO BOX 876 • Gallup, NM 87305

May 12, 2014

Mr. Ed Riege, Environmental Manager
Western Refining-Gallup Refinery
Route 3 Box 7
Gallup, NM 87301

Re: Western Refining Monitoring Wells

Dear Mr. Riege:

DePauli Engineering & Surveying, LLC completed the field survey of the 16 monitoring wells at Western Refining-Gallup Refinery on April 30, 2014. The wells were surveyed for the following parameter: ground level elevation, ground level elevation inside steel sleeve, center top steel lid elevation, well casing rim elevation and corresponding measuring point description associated with each elevation. The survey was conducted by an enlisted NM Surveyor in Training and a Technician (under my direct supervision), from DePauli Engineering & Surveying, LLC and one Gallup Refinery representative to assist with the location of the wells.

The instruments used to complete the survey consisted of a Leica VIVA GS10 GPS (global positing system) and System 1200 GPS. The method used to survey the wells was Real-time Kinematic GPS Surveying (RTK). RTK surveying requires that two or more receivers are operated simultaneously. The aspect of the procedure involves a radio transmitting a signal from the base station. The base station's coordinates are utilized to make the appropriate corrections to the error involved with the GPS signals. The rover receives the corrections thence giving the rover observation corrected valves. The horizontal and vertical positions are determined by differential GPS involving the base line surveyed from local base station to survey position. The base line measurements are surveyed for one minute (60 observations). This is verified by surveying known local control points and bench marks.

The horizontal positions of the top of the PVC casing or top of the lid (unless otherwise noted) and the vertical positions for the PVC casing, lid, ground elevation inside the steel casing, and the surrounding ground elevation is shown on the attached sheet labeled "Coordinate and Elevation Summary, Western Refining Monitoring Wells" The horizontal position is NAD 83

datum and the vertical positions are NGVD 1929. Elevations were taken using the concrete pad surrounding each well and locations noted on the report. Ground elevation was taken using the concrete pad surrounding each well and locations shown on the report.

The requested field survey was completed on April 30, 2014 in accordance with sections 500.1 through 500.12 of the Regulations and Rules of the Board of Registration for Professional Engineers and Surveyors Minimum Standards for Surveying in New Mexico; which horizontal positions were measured to the nearest 0.1-ft and vertical elevations were measured to an accuracy of 0.01-ft.

If you have any questions concerning this survey please do not hesitate to contact our office.

Sincerely,

Marc DePauli

Marc DePauli, PE/PS

DePauli Engineering & Surveying, LLC.
307 S. 4th Street
Gallup, NM 87301

April 30, 2014

Coordinate and Elevation Summary, Western Refining Monitoring Wells

Well #	Northing	Easting	Elevation	Description
MKTF-21	1633570.30	2546110.00	6952.57	North edge PVC casing.
			6952.77	Center Steel Lid
			6952.00	North side ground elevation inside steel sleeve
			6952.68	Average elevation of concrete collar.
MKTF-20	1633698.28	2546111.23	6951.78	North edge PVC casing.
			6952.05	Center Steel Lid
			6951.17	North side ground elevation inside steel sleeve
			6951.89	Average elevation of concrete collar.
MKTF-24	1633853.19	2545468.48	6928.72	North edge PVC casing.
			6929.21	Center Steel Lid
			6924.62	North side ground elevation inside steel sleeve
			6926.07	Average elevation of concrete collar.
MKTF-23			6929.98	North edge PVC casing.
	1633750.93	2545503.70	6930.55	Center Steel Lid
			6925.79	North side ground elevation inside steel sleeve
			6927.23	Average elevation of concrete collar.
MKTF-22			6942.31	**North edge PVC casing.
	1633501.64	2545478.20	6942.94	Center Steel Lid
			6938.57	North side ground elevation inside steel sleeve
			6939.76	Average elevation of concrete collar.
				** PVC casing not typical.
MKTF-31			6906.87	North edge PVC casing.
	1633898.83	2544938.99	6907.58	Center Steel Lid
			6903.11	North side ground elevation inside steel sleeve
			6904.26	Average elevation of concrete collar.
MKTF-25			6916.19	North edge PVC casing.
	1634015.86	2545275.68	6916.66	Center Steel Lid
			6911.79	North side ground elevation inside steel sleeve
			6913.35	Average elevation of concrete collar.
MKTF-30			6900.80	North edge PVC casing.
	1634225.67	2544937.91	6901.34	Center Steel Lid
			6896.68	North side ground elevation inside steel sleeve
			6898.10	Average elevation of concrete collar.

Coordinate and Elevation Summary, Western Refining Monitoring Wells

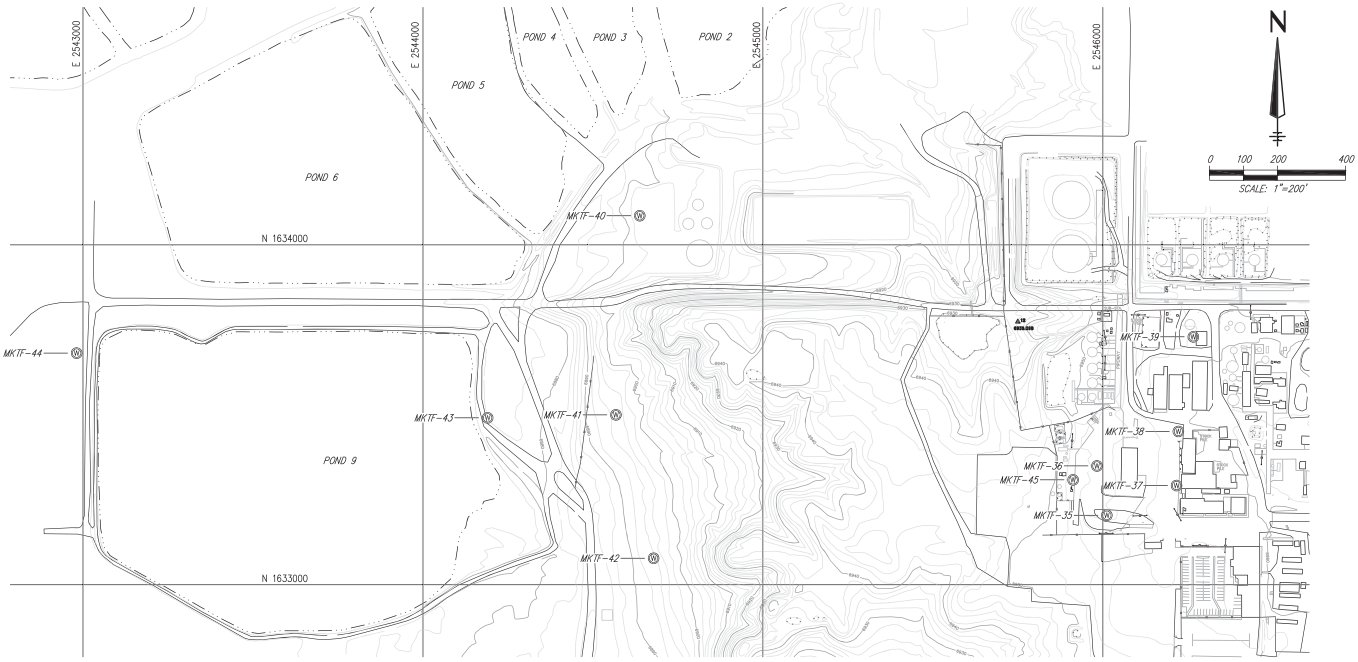
Well #	Northing	Easting	Elevation	Description
MKTF-29			6901.62	North edge PVC casing.
	1634249.76	2545258.34	6901.98	Center Steel Lid
			6897.67	North side ground elevation inside steel sleeve
			6898.83	Average elevation of concrete collar.
MKTF-28			6921.52	North edge PVC casing.
	1634263.44	2545650.04	6922.11	Center Steel Lid
			6917.51	North side ground elevation inside steel sleeve
			6918.67	Average elevation of concrete collar.
MKTF-27			6917.90	North edge PVC casing. (ex. mark)
	1634115.56	2545620.98	6918.49	Center Steel Lid
			6914.18	North side ground elevation inside steel sleeve
			6915.36	Average elevation of concrete collar.
MKTF-26			6915.31	North edge PVC casing.
	1634033.63	2545492.39	6915.86	Center Steel Lid
			6911.35	North side ground elevation inside steel sleeve
			6912.55	Average elevation of concrete collar.
MKTF-19	1633381.19	2545842.82	6944.67	North edge PVC casing.
			6945.00	Center Steel Lid
			6944.34	North side ground elevation inside steel sleeve
			6944.89	Average elevation of concrete collar.
MKTF-34			6945.35	North edge PVC casing.
	1633118.42	2545681.30	6945.71	Center Steel Lid
			6943.52	North side ground elevation inside steel sleeve
			6942.42	Average elevation of concrete collar.
MKTF-32			6911.11	North edge PVC casing.
	1633443.56	2544840.32	6911.68	Center Steel Lid
			6907.16	North side ground elevation inside steel sleeve
			6908.44	Average elevation of concrete collar.
MKTF-33	1633261.99	2545318.27	6939.75	North edge PVC casing.
			N/A	Center Steel Lid
			N/A	North side ground elevation inside steel sleeve
			6936.59	Elevation of surrounding ground.

Monitoring well has no concrete collar and steel casing.

Marc DePauli PS13606

5-12-2014

Date



MKTF-35
N: 1633204.45
E: 2546011.60 CENTER OF METAL LID
Z: 6951.90 TOP CENTER OF METAL LID
Z: 6951.65 N. TOP OF PVC PIPE
Z: 6951.25 N. TOP OF INSIDE GROUND LINE
Z: 6951.90 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-36
N: 1633349.47
E: 2545982.58 CENTER OF METAL LID
Z: 6950.67 TOP CENTER OF METAL LID
Z: 6950.12 N. TOP OF PVC PIPE
Z: 6949.87 N. TOP OF INSIDE GROUND LINE
Z: 6950.67 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-37
N: 1633291.89
E: 2546216.67 CENTER OF METAL LID
Z: 6959.07 TOP CENTER OF METAL LID
Z: 6958.87 N. TOP OF PVC PIPE
Z: 6958.62 N. TOP OF INSIDE GROUND LINE
Z: 6959.07 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-38
N: 1633451.01
E: 2546222.09 CENTER OF METAL LID
Z: 6955.17 TOP CENTER OF METAL LID
Z: 6954.89 N. TOP OF PVC PIPE
Z: 6954.54 N. TOP OF INSIDE GROUND LINE
Z: 6955.17 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-39
N: 1633729.23
E: 2546265.99 CENTER OF METAL LID
Z: 6953.97 TOP CENTER OF METAL LID
Z: 6953.75 N. TOP OF PVC PIPE
Z: 6953.12 N. TOP OF INSIDE GROUND LINE
Z: 6953.97 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-40
N: 1634085.50
E: 2544637.81 CENTER OF METAL LID
Z: 6894.73 TOP CENTER OF METAL LID
Z: 6894.33 N. TOP OF PVC PIPE
Z: 6890.48 N. TOP OF INSIDE GROUND LINE
Z: 6891.35 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-41
N: 1633499.80
E: 2544567.57 CENTER OF METAL LID
Z: 6894.13 TOP CENTER OF METAL LID
Z: 6893.64 N. TOP OF PVC PIPE
Z: 6889.80 N. TOP OF INSIDE GROUND LINE
Z: 6891.11 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-42
N: 1633078.09
E: 2544678.55 CENTER OF METAL LID
Z: 6893.27 TOP CENTER OF METAL LID
Z: 6892.95 N. TOP OF PVC PIPE
Z: 6888.75 N. TOP OF INSIDE GROUND LINE
Z: 6890.42 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-43
N: 1633490.97
E: 2544190.23 CENTER OF METAL LID
Z: 6877.40 TOP CENTER OF METAL LID
Z: 6876.90 N. TOP OF PVC PIPE
Z: 6873.22 N. TOP OF INSIDE GROUND LINE
Z: 6874.12 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-44
N: 1633681.48
E: 2542981.45 CENTER OF METAL LID
Z: 6870.32 TOP CENTER OF METAL LID
Z: 6869.95 N. TOP OF PVC PIPE
Z: 6866.06 N. TOP OF INSIDE GROUND LINE
Z: 6867.41 N. TOP OF OUTSIDE CONCRETE PAD

MKTF-45
N: 1633308.57
E: 2545912.37 CENTER OF METAL LID
Z: 6951.33 TOP CENTER OF METAL LID
Z: 6949.59 N. TOP OF PVC PIPE
Z: 6948.27 N. TOP OF INSIDE GROUND LINE
Z: 6948.63 N. TOP OF OUTSIDE CONCRETE PAD

SYMBOLS LEGEND
Ⓜ MONITORING WELL

NOTES
1 FIELD SURVEY PERFORMED DECEMBER 16, 2014, 10:30 a.m. to 4:30 p.m. & JANUARY 12, 2015, 10:30 – a.m. to 11:00 a.m.

2 FIELD MEASUREMENTS PERFORMED UTILIZING THALES 'Z-MAX' BASE AND ROVER G.P.S. SYSTEM WHICH CAN NOT BE CALIBRATED. INSIDE AND OUTSIDE APPURTENANT MEASUREMENTS PERFORMED WITH STEEL TAPE.

3 STATE PLANE COORDINATES BASED ON THE BRASS CAP I-040-105 USING DIFFERENTIAL G.P.S. DERIVED MEASUREMENTS.

4 THE COORDINATES SHOWN ARE N.M. STATE PLANE WEST ZONE GRID COORDINATES, ELEVATIONS ARE NGVD29 (ADD 3.37 TO REACH NAVD88 DATUM AND AN ADDITIONAL 1.14 TO REACH EXISTING WESTERN REFINING TOPOGRAPHIC SURVEY DATUM. WHICH IS SHOWN HEREON).

CLYDE J. KING 13979 NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR

SURVEYOR'S CERTIFICATE
I, Clyde J. King, a New Mexico Professional Surveyor do hereby certify that this plot was prepared from a field survey performed by me or under my direct supervision, that I am responsible for this survey, that this survey is true and correct to the best of my knowledge and belief, that this plot and the field survey upon which it is based meet the Minimum Standards for Surveying in New Mexico and that this survey is not a land division or subdivision as defined by the New Mexico Subdivision Act.

Clyde J. King PS13979 — 1-16-15 Date

MONITORING WELL SURVEY in Section 33, T15N, R15W, N.M.P.M., Western Refining, Jamestown, McKinley County, New Mexico, U.S.A.

H.E.I. HAMMON ENTERPRISES, INC. PROFESSIONAL LAND SURVEYING SERVICES
P. O. Box 770 ■ Ramah, NM 87321 ■ Tel: (505) 870-6901 ■ HEISurveys Yahoo.com

14126 NW DATA.DWG DRAWN BY: AW CHECKED BY: CK DATE: 1-16-15 REV. DATE: xxx

Appendix D

Analytical Reports