

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0220
District II
811 S. First St., Artesia, NM 88203
Phone: (575) 748-1283 Fax: (575) 948-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6178
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

BOBBS OCD
RECEIVED
JAN 17 2018

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-44063	Pool Code 51687	Pool Name Red Tank ; Bone Spring , East
Property Code 319659	Property Name RED TANK "30-31" STATE COM	Well Number 34H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3659.9'

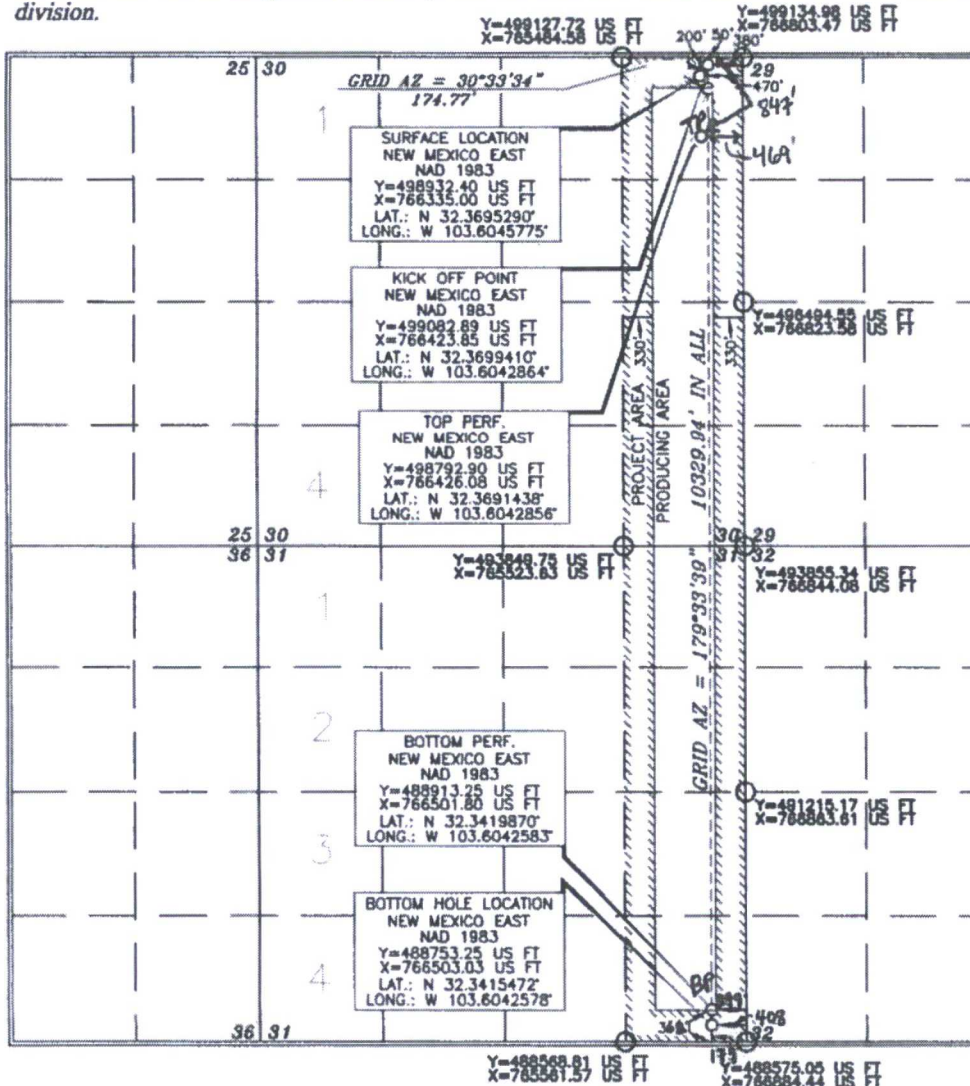
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	22 SOUTH	33 EAST, N.M.P.M.		200'	NORTH	470'	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	22 SOUTH	33 EAST, N.M.P.M.		199' 179'	SOUTH	399' 408'	EAST	LEA
Dedicated Acres 320	Joint or Infill Y	Consolidation Code	Order No. BP- 362 FSL 399 FEL TP- 847 FNL 409 FEL						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

[Signature] 1/16/18
Date
Jana Mendiola
Printed Name
janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

[Signature]
Date of Survey
Signature and Seal of Professional Surveyor

[Signature] 8/25/2017
Certificate Number 15079

WO# 170808WL-b-XY (KA)

Oxy Red Tank 30-31 State 34H

Oxy Red Tank 30-31 State 34H
RECEIVED
 (MSL)
 REV3 PM 16Nov17

2000
1500
1000
500
0
-500
-1000
-1500

Compass Rose

Tie In Point
11140 MD 11108 TYD
13.08 ° incl 158.08 ° az
N=108 E=4

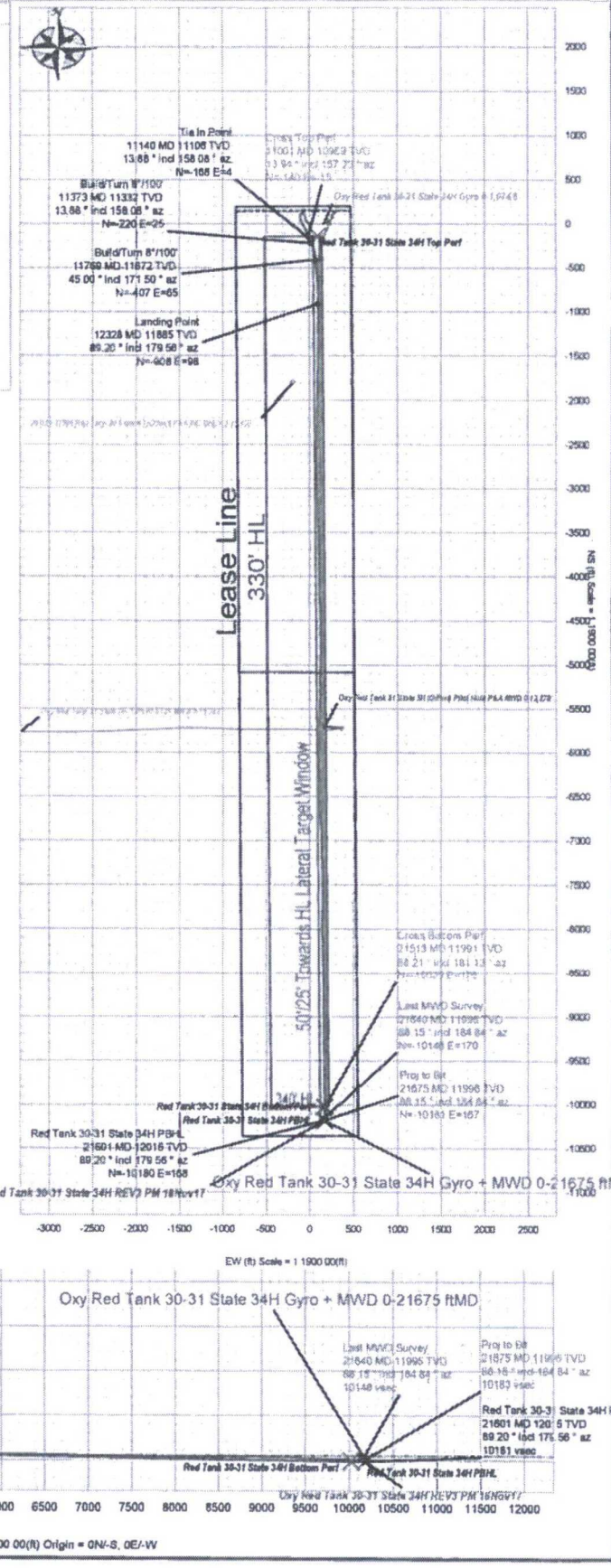
Build/Turn 8°/100°
11373 MD 11332 TYD
13.98 ° incl 158.08 ° az
N=226 E=25

Build/Turn 8°/100°
13769 MD 11872 TYD
45.00 ° incl 171.50 ° az
N=407 E=65

Landing Point
12328 MD 11885 TYD
89.20 ° incl 179.56 ° az
N=608 E=98

Dry Feed Tank 36-37 Scale 24x Gyro @ 1,9748

End Tank 36-37 Scale 24x Top Part



Oxy Red Tank 30-31 State 34H Gyro + MWD 0-21675 ftMD Survey Geodetic Report

(Def Survey)



Report Date: November 30, 2017 - 09:20 AM
 Client: OXY
 Field: NM Lea County (NAD 83)
 Structure / Slot: Oxy Red Tank 30-31 State 34H / Oxy Red Tank 30-31 State 34H
 Well: Oxy Red Tank 30-31 State 34H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Red Tank 30-31 State 34H Gyro + MWD 0-21675 ftMD
 Survey Date: November 30, 2017
 Tort / AHD / DDI / ERD Ratio: 272.798' / 10558.181 ft / 6.716 / 0.880
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 22' 10.30437" W 103° 36' 16.47895"
 Location Grid N/E Y/X: N 498932.400 ftUS, E 766335.000 ftUS
 CRS Grid Convergence Angle: 0.3902°
 Grid Scale Factor: 0.99996707
 Version / Patch: 2 10 565 0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.000° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3686.400 ft above MSL
 Seabed / Ground Elevation: 3659.900 ft above MSL
 Magnetic Declination: 6.861°
 Total Gravity Field Strength: 998.4524mg (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48196.993 nT
 Magnetic Dip Angle: 60.191°
 Declination Date: November 30, 2017
 Magnetic Declination Model: HDGM 2017
 North Reference: Grid North
 Grid Convergence Used: 0.3902°
 Total Corr Mag North->Grid North: 6.4707°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	498932.40	766335.00	N 32 22 10.30	W 103 36 16.48
	77.66	0.27	86.79	77.66	0.01	0.01	0.18	0.35	498932.41	766335.18	N 32 22 10.30	W 103 36 16.48
	172.27	0.30	61.33	172.27	0.14	0.14	0.62	0.14	498932.54	766335.62	N 32 22 10.31	W 103 36 16.47
	267.12	0.32	67.49	267.12	0.36	0.36	1.09	0.04	498932.76	766336.09	N 32 22 10.31	W 103 36 16.47
	361.78	0.34	101.67	361.78	0.41	0.41	1.60	0.21	498932.81	766336.60	N 32 22 10.31	W 103 36 16.46
	456.49	0.35	108.93	456.48	0.28	0.26	2.15	0.05	498932.66	766337.15	N 32 22 10.31	W 103 36 16.45
	552.48	0.31	134.88	552.47	-0.02	-0.02	2.62	0.16	498932.38	766337.82	N 32 22 10.30	W 103 36 16.45
	644.95	0.33	145.89	644.94	-0.42	-0.42	2.94	0.07	498931.98	766337.94	N 32 22 10.30	W 103 36 16.44
	737.42	0.31	152.84	737.41	-0.86	-0.86	3.21	0.05	498931.54	766338.21	N 32 22 10.30	W 103 36 16.44
	829.88	0.32	168.67	829.87	-1.34	-1.34	3.37	0.09	498931.06	766338.37	N 32 22 10.29	W 103 36 16.44
	922.30	0.39	183.95	922.29	-1.90	-1.90	3.40	0.13	498930.50	766338.40	N 32 22 10.29	W 103 36 16.44
	1014.80	0.65	155.22	1014.78	-2.69	-2.69	3.80	0.39	498929.71	766338.60	N 32 22 10.28	W 103 36 16.44
	1107.27	0.55	158.67	1107.25	-3.58	-3.58	3.98	0.11	498928.82	766338.98	N 32 22 10.27	W 103 36 16.43
	1199.78	0.38	180.70	1199.75	-4.29	-4.29	4.24	0.18	498928.11	766339.24	N 32 22 10.26	W 103 36 16.43
	1292.30	0.33	161.24	1292.27	-4.83	-4.83	4.43	0.05	498927.57	766339.43	N 32 22 10.26	W 103 36 16.43
	1384.69	0.33	166.24	1384.66	-5.34	-5.34	4.58	0.03	498927.06	766339.58	N 32 22 10.25	W 103 36 16.43
	1479.04	0.33	156.65	1479.01	-5.85	-5.85	4.75	0.06	498926.55	766339.75	N 32 22 10.25	W 103 36 16.42
	1667.77	0.32	171.44	1667.74	-6.87	-6.87	5.04	0.04	498925.53	766340.04	N 32 22 10.24	W 103 36 16.42
	1762.41	0.33	177.78	1762.38	-7.41	-7.41	5.09	0.04	498924.99	766340.09	N 32 22 10.23	W 103 36 16.42
	1856.99	0.34	172.48	1856.95	-7.96	-7.96	5.14	0.03	498924.44	766340.14	N 32 22 10.23	W 103 36 16.42
	1951.44	0.32	359.94	1951.40	-7.97	-7.97	5.18	0.70	498924.43	766340.18	N 32 22 10.23	W 103 36 16.42
	2045.89	0.32	349.71	2045.85	-7.45	-7.45	5.13	0.06	498924.95	766340.13	N 32 22 10.23	W 103 36 16.42
	2140.29	0.33	18.39	2140.25	-6.93	-6.93	5.17	0.17	498925.47	766340.17	N 32 22 10.24	W 103 36 16.42
	2234.66	0.32	348.04	2234.62	-6.41	-6.41	5.20	0.18	498925.99	766340.20	N 32 22 10.24	W 103 36 16.42
	2329.09	0.33	359.00	2329.05	-5.88	-5.88	5.14	0.07	498926.52	766340.14	N 32 22 10.25	W 103 36 16.42
	2423.57	0.33	355.25	2423.53	-5.34	-5.34	5.11	0.02	498927.06	766340.11	N 32 22 10.25	W 103 36 16.42
	2518.04	0.32	353.83	2517.99	-4.81	-4.81	5.06	0.01	498927.59	766340.06	N 32 22 10.26	W 103 36 16.42
	2706.93	0.31	351.38	2706.88	-3.78	-3.78	4.93	0.01	498928.62	766339.83	N 32 22 10.27	W 103 36 16.42
	2801.44	0.32	348.38	2801.39	-3.27	-3.27	4.84	0.02	498929.13	766339.64	N 32 22 10.27	W 103 36 16.42
	2895.83	0.32	168.80	2895.78	-3.27	-3.27	4.84	0.68	498929.13	766339.84	N 32 22 10.27	W 103 36 16.42
	2990.28	0.34	188.38	2990.23	-3.80	-3.80	4.85	0.12	498928.60	766339.85	N 32 22 10.27	W 103 36 16.42
	3084.70	0.35	232.69	3084.65	-4.26	-4.26	4.58	0.28	498928.14	766339.58	N 32 22 10.26	W 103 36 16.43
	3273.55	0.34	143.56	3273.49	-5.06	-5.06	4.45	0.26	498927.34	766339.45	N 32 22 10.25	W 103 36 16.43
	3367.96	0.29	158.02	3367.90	-5.50	-5.50	4.71	0.09	498926.90	766339.71	N 32 22 10.25	W 103 36 16.42
	3462.33	0.33	159.22	3462.27	-5.97	-5.97	4.91	0.05	498926.43	766339.91	N 32 22 10.24	W 103 36 16.42
	3556.86	0.35	126.54	3556.80	-6.40	-6.40	5.24	0.20	498926.00	766340.24	N 32 22 10.24	W 103 36 16.42
	3746.01	0.36	136.93	3745.95	-7.18	-7.18	6.11	0.03	498925.22	766341.11	N 32 22 10.23	W 103 36 16.41
	3840.59	0.34	144.16	3840.52	-7.62	-7.62	6.47	0.05	498924.78	766341.47	N 32 22 10.23	W 103 36 16.40
	4029.50	0.28	272.57	4029.43	-8.05	-8.05	6.34	0.30	498924.35	766341.34	N 32 22 10.22	W 103 36 16.41
	4123.90	0.29	273.72	4123.83	-8.03	-8.03	5.67	0.01	498924.37	766340.87	N 32 22 10.22	W 103 36 16.41
	4218.31	0.28	279.97	4218.24	-7.97	-7.97	5.41	0.03	498924.43	766340.41	N 32 22 10.23	W 103 36 16.42
	4312.87	0.30	272.08	4312.80	-7.92	-7.92	4.93	0.05	498924.48	766339.93	N 32 22 10.23	W 103 36 16.42
	4407.32	0.34	261.37	4407.25	-7.96	-7.96	4.41	0.08	498924.44	766339.41	N 32 22 10.23	W 103 36 16.43
	4501.78	0.34	278.27	4501.71	-7.96	-7.96	3.85	0.11	498924.44	766338.85	N 32 22 10.23	W 103 36 16.43
	4690.75	0.33	285.20	4690.67	-7.74	-7.74	2.77	0.02	498924.66	766337.77	N 32 22 10.23	W 103 36 16.45
	4784.96	0.32	79.64	4784.88	-7.62	-7.62	2.77	0.67	498924.78	766337.77	N 32 22 10.23	W 103 36 16.45
	4973.95	0.31	224.76	4973.87	-7.89	-7.89	2.93	0.32	498924.51	766337.83	N 32 22 10.23	W 103 36 16.45
	5162.82	0.33	82.13	5162.74	-7.99	-7.99	3.05	0.33	498924.41	766338.05	N 32 22 10.23	W 103 36 16.44
	5257.03	0.32	47.12	5256.95	-7.69	-7.69	3.48	0.09	498924.71	766338.48	N 32 22 10.23	W 103 36 16.44
	5351.39	0.33	74.49	5351.31	-7.44	-7.44	3.94	0.16	498924.96	766338.94	N 32 22 10.23	W 103 36 16.43
	5540.34	0.31	84.84	5540.25	-7.24	-7.24	4.97	0.03	498925.16	766339.97	N 32 22 10.23	W 103 36 16.42
	5729.26	0.30	236.45	5729.17	-7.47	-7.47	5.07	0.31	498924.93	766340.07	N 32 22 10.23	W 103 36 16.42
	5823.44	0.33	226.21	5823.35	-7.80	-7.80	4.67	0.07	498924.60	766339.67	N 32 22 10.23	W 103 36 16.43
	6012.35	0.31	241.97	6012.28	-8.41	-8.41	3.82	0.05	498923.99	766338.82	N 32 22 10.22	W 103 36 16.44
	6106.69	0.33	234.89	6106.60	-8.89	-8.89	3.37	0.05	498923.71	766338.37	N 32 22 10.22	W 103 36 16.44
	6200.97	0.32	347.60	6200.88	-8.59	-8.59	3.10	0.57	498923.81	766338.10	N 32 22 10.22	W 103 36 16.44
	6295.46	0.32	246.64	6295.37	-8.43	-8.43	2.80	0.52	498923.97	766337.80	N 32 22 10.22	W 103 36 16.45
	6484.49	0.32	232.41	6484.39	-8.97	-8.97	1.89	0.04	498923.43	766336.69	N 32 22 10.22	W 103 36 16.46
	6579.02	0.33	228.63	6578.92	-9.31	-9.31	1.48	0.03	498923.09	766336.48	N 32 22 10.21	W 103 36 16.46
	6673.58	0.22	11.42	6673.48	-9.31	-9.31	1.31	0.55	498923.09	766336.31	N 32 22 10.21	W 103 36 16.46
	6862.43	0.89	356.97	6862.32	-7.48	-7.48	1.31	0.36	498924.91	766336.31	N 32 22 10.23	W 103 36 16.46
	6956.86	1.43	303.45	6956.73	-6.11	-6.11	0.28	1.22	498926.29	766336.28	N 32 22 10.24	W 103 36 16.48
	7051.30	1.97	319.77	7051.13	-4.22	-4.22	-1.75	0.78	498928.18	766333.25	N 32 22 10.28	W 103 36 16.50
	7145.79	2.41	320.26	7145.55	-1.45	-1.45	-4.07	0.47	498930.95	766330.93	N 32 22 10.29	W 103 36 16.53
	7240.26	2.56	317.78	7239.93	1.64	1.64	-6.75	0.20	498934.04	766328.25	N 32 22 10.32	W 103 36 16.56
	7334.70	2.78	317.13	7334.27	4.88	4.88	-9.73	0.24	498937.28	766325.27	N 32 22 10.35	W 103 36 16.59
	7429.00	3.46	318.20	7428.43	8.68	8.68	-13.18	0.72	498941.08	766321.82	N 32 22 10.39	W 103 36 16.63
	7523.55	3.73	318.88	7522.80	13.12	13.12	-17.11	0.29	498945.52	766317.89	N 32 22 10.44	W 103 36 16.68
	7617.95	3.91	319.52	7616.99	17.88	17.88	-21.21	0.20	498950.28	766313.79	N 32 22 10.48	W 103 36 16.72
	7712.45	4.44	320.83	7711.23	23.17	23.17	-25.62	0.57	498955.57	766309.38	N 32 22 10.54	W 103 36 16.78
	7806.96	5.05	324.19	7805.42	29.38	29.38	-30.36	0.71	498961.78	766304.64	N 32 22 10.60	W 103 36 16.83
	7901.62	5.87	329.87	7899.65	36.94	36.94	-35.23	1.04	498969.34	766299.77	N 32 22 10.87	W 103 36 16.89

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7995.97	7.55	339.14	7993.35	46.91	46.91	-39.86	2.11	498979.31	766295.14	N 32 22 10.77	W 103 36 16.84
	8090.51	9.21	347.27	8086.88	60.09	60.09	-43.74	2.15	498992.49	766291.26	N 32 22 10.90	W 103 36 16.98
	8184.94	9.31	347.03	8180.08	74.91	74.91	-47.12	0.11	499007.31	766287.88	N 32 22 11.05	W 103 36 17.02
	8279.52	7.71	342.02	8273.82	88.40	88.40	-50.79	1.86	499020.80	766284.21	N 32 22 11.18	W 103 36 17.06
	8374.01	6.38	335.52	8367.40	99.21	99.21	-54.92	1.84	499031.60	766280.08	N 32 22 11.29	W 103 36 17.11
	8468.58	5.43	327.38	8461.47	107.76	107.76	-59.51	1.34	499040.15	766275.49	N 32 22 11.37	W 103 36 17.16
	8562.89	4.41	317.64	8555.43	114.20	114.20	-64.36	1.39	499046.59	766270.64	N 32 22 11.44	W 103 36 17.22
	8657.23	3.70	301.86	8649.53	118.48	118.48	-69.39	1.40	499050.88	766265.61	N 32 22 11.48	W 103 36 17.28
	8751.58	3.39	293.74	8743.70	121.21	121.21	-74.53	0.62	499053.61	766260.47	N 32 22 11.51	W 103 36 17.34
	8845.80	2.58	286.89	8837.80	122.95	122.95	-79.11	0.94	499055.35	766255.89	N 32 22 11.53	W 103 36 17.39
	8940.25	2.19	278.79	8932.16	123.84	123.84	-82.93	0.54	499056.24	766252.07	N 32 22 11.54	W 103 36 17.44
	9034.78	1.91	264.19	9026.63	123.96	123.96	-86.28	0.82	499056.36	766248.72	N 32 22 11.54	W 103 36 17.48
	9129.14	2.47	227.99	9120.93	122.44	122.44	-89.36	1.55	499054.84	766245.65	N 32 22 11.52	W 103 36 17.51
	9223.57	4.09	216.84	9215.20	118.38	118.38	-92.89	1.84	499050.78	766242.12	N 32 22 11.48	W 103 36 17.55
	9318.12	5.34	209.21	9309.43	111.84	111.84	-97.06	1.48	499044.24	766237.95	N 32 22 11.42	W 103 36 17.60
	9412.62	6.16	200.98	9403.46	103.27	103.27	-101.02	1.23	499035.67	766233.99	N 32 22 11.33	W 103 36 17.65
	9507.24	6.67	193.42	9497.49	93.19	93.19	-104.11	1.04	499025.58	766229.38	N 32 22 11.23	W 103 36 17.69
	9601.76	7.33	182.29	9591.31	81.82	81.82	-105.63	1.59	499014.22	766220.99	N 32 22 11.12	W 103 36 17.70
	9696.29	7.38	171.56	9685.06	69.79	69.79	-104.98	1.45	499002.19	766220.03	N 32 22 11.00	W 103 36 17.70
	9790.82	7.56	162.92	9778.79	57.84	57.84	-102.26	1.20	498990.24	766222.75	N 32 22 10.88	W 103 36 17.67
	9885.40	7.59	160.05	9872.55	46.02	46.02	-98.30	0.40	498978.42	766236.70	N 32 22 10.77	W 103 36 17.62
	9979.78	8.08	161.32	9966.05	33.88	33.88	-94.05	0.55	498966.28	766240.95	N 32 22 10.85	W 103 36 17.57
	10074.09	8.65	159.67	10058.35	20.95	20.95	-89.46	0.66	498953.35	766245.54	N 32 22 10.52	W 103 36 17.52
	10168.56	9.42	153.45	10152.65	7.37	7.37	-83.54	1.32	498939.77	766251.47	N 32 22 10.38	W 103 36 17.45
	10262.85	9.67	146.81	10245.84	-6.16	-6.16	-75.75	1.20	498926.24	766259.25	N 32 22 10.25	W 103 36 17.36
	10357.22	10.17	144.71	10338.60	-19.59	-19.59	-66.60	0.85	498912.81	766266.40	N 32 22 10.12	W 103 36 17.26
	10451.78	8.97	149.53	10431.84	-32.76	-32.76	-58.04	1.52	498899.84	766276.98	N 32 22 9.98	W 103 36 17.16
	10546.13	10.65	153.96	10524.81	-46.93	-46.93	-50.48	1.95	498885.47	766284.52	N 32 22 9.84	W 103 36 17.07
	10640.57	12.38	157.47	10617.35	-64.13	-64.13	-42.77	1.98	498868.28	766292.23	N 32 22 9.67	W 103 36 16.98
	10735.09	12.96	161.07	10709.57	-83.51	-83.51	-35.45	1.04	498848.89	766299.55	N 32 22 9.48	W 103 36 16.90
	10829.45	12.77	161.14	10801.56	-103.39	-103.39	-28.65	0.20	498829.01	766306.35	N 32 22 9.28	W 103 36 16.82
	10923.59	13.23	160.14	10893.29	-123.37	-123.37	-21.62	0.54	498809.04	766313.38	N 32 22 9.09	W 103 36 16.74
	11112.45	15.02	153.53	11076.44	-165.61	-165.61	-3.37	1.27	498768.80	766331.63	N 32 22 8.87	W 103 36 16.53
	11206.78	14.37	147.98	11167.89	-186.47	-186.47	8.28	1.84	498745.93	766343.28	N 32 22 8.46	W 103 36 16.40
	11301.13	12.72	147.21	11259.41	-205.13	-205.13	20.12	1.78	498727.27	766355.12	N 32 22 8.27	W 103 36 16.28
	11395.57	15.29	158.42	11351.05	-225.46	-225.46	30.33	3.95	498706.95	766365.33	N 32 22 8.07	W 103 36 16.14
	11489.94	22.30	163.06	11440.34	-254.20	-254.20	40.14	7.59	498678.21	766375.14	N 32 22 7.79	W 103 36 16.03
	11584.09	24.30	162.92	11526.81	-289.81	-289.81	51.03	2.13	498642.60	766386.03	N 32 22 7.43	W 103 36 15.91
	11678.40	26.07	169.31	11612.17	-328.73	-328.73	60.58	3.44	498603.68	766395.58	N 32 22 7.05	W 103 36 15.80
	11772.70	34.40	167.38	11693.57	-375.17	-375.17	70.26	8.89	498557.24	766405.26	N 32 22 6.59	W 103 36 15.69
	11867.12	43.07	170.28	11767.16	-433.09	-433.09	81.55	9.38	498499.33	766416.55	N 32 22 6.01	W 103 36 15.56
	11961.39	46.68	173.41	11833.96	-498.91	-498.91	90.93	4.49	498433.51	766425.92	N 32 22 5.36	W 103 36 15.46
	12055.94	62.52	173.78	11888.55	-575.26	-575.26	99.47	16.76	498357.16	766434.47	N 32 22 4.61	W 103 36 15.36
	12150.31	78.39	175.10	11920.03	-663.49	-663.49	108.01	18.87	498268.93	766443.01	N 32 22 3.73	W 103 36 15.27
	12230.00	89.83	179.78	11928.19	-742.53	-742.53	111.51	15.49	498189.90	766446.51	N 32 22 2.95	W 103 36 15.24
	12277.00	90.50	180.16	11928.06	-789.53	-789.53	111.54	1.84	498142.90	766446.53	N 32 22 2.48	W 103 36 15.24
	12368.00	90.62	181.14	11927.17	-880.52	-880.52	110.50	1.08	498051.91	766445.00	N 32 22 1.58	W 103 36 15.26
	12557.00	90.34	181.56	11925.59	-1069.46	-1069.46	106.05	0.27	497982.98	766441.05	N 32 21 59.72	W 103 36 15.33
	12651.00	90.22	181.99	11925.13	-1163.41	-1163.41	103.14	0.47	497769.03	766438.14	N 32 21 58.79	W 103 36 15.37
	12840.00	89.94	180.66	11924.85	-1352.36	-1352.36	98.77	0.72	497580.09	766433.77	N 32 21 56.92	W 103 36 15.43
	12935.00	90.56	181.42	11924.45	-1447.34	-1447.34	97.05	1.03	497485.11	766432.04	N 32 21 55.98	W 103 36 15.46
	13028.00	90.45	181.07	11923.62	-1541.31	-1541.31	95.00	0.39	497391.14	766430.00	N 32 21 55.05	W 103 36 15.49
	13123.00	89.83	181.19	11923.39	-1635.29	-1635.29	93.15	0.67	497297.16	766428.15	N 32 21 54.12	W 103 36 15.52
	13218.00	89.72	180.98	11923.76	-1730.28	-1730.28	91.35	0.25	497202.19	766426.35	N 32 21 53.18	W 103 36 15.55
	13312.00	89.78	180.61	11924.17	-1824.27	-1824.27	90.05	0.40	497108.20	766425.04	N 32 21 52.25	W 103 36 15.57
	13407.00	89.83	180.73	11924.50	-1919.26	-1919.26	88.94	0.14	497013.21	766423.93	N 32 21 51.31	W 103 36 15.59
	13501.00	89.78	180.21	11924.82	-2013.25	-2013.25	88.17	0.58	496919.22	766423.16	N 32 21 50.38	W 103 36 15.61
	13596.00	89.50	181.16	11925.41	-2108.24	-2108.24	87.03	1.04	496824.23	766422.03	N 32 21 49.44	W 103 36 15.63
	13690.00	89.55	180.45	11926.19	-2202.23	-2202.23	85.71	0.76	496730.25	766420.71	N 32 21 48.51	W 103 36 15.65
	13785.00	89.78	181.32	11926.75	-2297.22	-2297.22	84.24	0.95	496635.26	766419.24	N 32 21 47.57	W 103 36 15.68
	13879.00	90.11	181.70	11926.84	-2391.18	-2391.18	81.76	0.54	496541.30	766416.76	N 32 21 46.84	W 103 36 15.72
	13974.00	90.22	182.13	11926.56	-2486.13	-2486.13	78.59	0.47	496446.36	766413.59	N 32 21 45.70	W 103 36 15.76
	14068.00	90.17	179.69	11926.24	-2580.11	-2580.11	77.10	2.80	496352.38	766412.09	N 32 21 44.77	W 103 36 15.78
	14162.00	90.22	179.68	11925.92	-2674.11	-2674.11	77.61	0.05	496258.38	766412.61	N 32 21 43.84	W 103 36 15.79
	14257.00	90.22	179.89	11925.56	-2769.11	-2769.11	77.97	0.22	496163.39	766412.97	N 32 21 42.90	W 103 36 15.79
	14351.00	90.17	179.55	11925.24	-2863.11	-2863.11	78.43	0.37	496069.39	766413.43	N 32 21 41.97	W 103 36 15.79
	14446.00	90.06	179.00	11925.05	-2958.10	-2958.10	79.63	0.59	495974.41	766414.63	N 32 21 41.03	W 103 36 15.79
	14540.00	90.17	177.41	11924.86	-3052.05	-3052.05	82.58	1.70	495880.46	766417.57	N 32 21 40.10	W 103 36 15.76
	14635.00	90.00	176.55	11924.72	-3146.92	-3146.92	87.58	0.92	495785.50	766422.58	N 32 21 39.16	W 103 36 15.71
	14729.00	89.83	177.51	11924.66	-3240.79	-3240.79	92.45	1.04	495691.73	766427.45	N 32 21 38.23	W 103 36 15.66
	14823.00	90.39	176.95	11924.68	-3334.68	-3334.68	96.99	0.84	495597.84	766431.99	N 32 21 37.30	W 103 36 15.61
	14918.00	89.72	177.88	11924.59	-3428.58	-3428.58	101.28	1.21	495502.94	766436.28	N 32 21 36.36	W 103 36 15.57
	15013.00	90.73	179.24	11924.21	-3524.54	-3524.54	103.67	1.78	495407.98	766438.66	N 32 21 35.42	W 103 36 15.55
	15107.00	90.84	178.73	11922.93	-3618.52	-3618.52	105.33	0.55	495314.01	766440.33	N 32 21 34.49	W 103 36 15.54
	15202.00	90.62	178.40	11921.72	-3713.48	-3713.48	107.71	0.42	495219.05	766442.71	N 32 21 33.55	W 103 36 15.52
	15296.00	90.50	179.02	11920.80	-3807.45	-3807.45	109.83	0.67	495125.08	766444.82	N 32 21 32.62	W 103 36 15.50
	15390.00	90.67										

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	17846.00	89 10	178.24	11939.09	-6356.50	-6356.50	117.75	1.26	492576.12	766452.74	N 32 21 7.40	W 103 36 15.61
	17941.00	88 54	179.25	11941.05	-6451.45	-6451.45	119.83	1.22	492481.17	766454.82	N 32 21 6.46	W 103 36 15.59
	18035.00	88 99	180.12	11943.07	-6545.43	-6545.43	120.35	1.04	492387.20	766455.34	N 32 21 5.53	W 103 36 15.60
	18129.00	89 89	179.04	11943.99	-6639.42	-6639.42	121.03	1.50	492293.21	766456.03	N 32 21 4.60	W 103 36 15.60
	18318.00	87.76	174.84	11947.87	-6828.06	-6828.06	131.12	2.49	492104.58	766466.11	N 32 21 2.73	W 103 36 15.49
	18412.00	88.60	178.40	11950.86	-6921.83	-6921.83	136.65	3.89	492010.81	766471.65	N 32 21 1.81	W 103 36 15.44
	18507.00	87.98	179.50	11953.69	-7016.77	-7016.77	138.39	1.33	491915.88	766473.39	N 32 21 0.87	W 103 36 15.42
	18601.00	89 89	179.16	11955.44	-7110.74	-7110.74	139.49	2.06	491821.91	766474.49	N 32 20 59.94	W 103 36 15.42
	18695.00	88 93	177.77	11956.41	-7204.70	-7204.70	142.01	1.80	491727.95	766477.01	N 32 20 59.01	W 103 36 15.40
	18790.00	89 33	177.80	11957.85	-7299.62	-7299.62	145.68	0.42	491633.04	766480.68	N 32 20 58.07	W 103 36 15.36
	18884.00	89 05	178.58	11959.18	-7393.56	-7393.56	148.65	0.88	491539.10	766483.65	N 32 20 57.14	W 103 36 15.33
	18978.00	89 22	180.39	11960.60	-7487.54	-7487.54	149.50	1.93	491445.12	766484.49	N 32 20 56.21	W 103 36 15.33
	19073.00	88 93	180.15	11962.13	-7582.53	-7582.53	149.05	0.40	491350.14	766484.04	N 32 20 55.27	W 103 36 15.34
	19167.00	89 22	181.35	11963.65	-7676.51	-7676.51	147.82	1.31	491256.16	766482.81	N 32 20 54.34	W 103 36 15.37
	19261.00	89 27	180.82	11964.89	-7770.48	-7770.48	146.04	0.57	491162.19	766481.03	N 32 20 53.41	W 103 36 15.39
	19356.00	88 32	182.21	11966.89	-7865.42	-7865.42	143.53	1.77	491067.25	766478.52	N 32 20 52.47	W 103 36 15.43
	19450.00	91 68	180.04	11968.89	-7959.39	-7959.39	141.68	4.25	490973.29	766476.68	N 32 20 51.54	W 103 36 15.46
	19545.00	90 79	177.57	11964.84	-8054.34	-8054.34	143.66	2.76	490878.35	766478.66	N 32 20 50.60	W 103 36 15.44
	19639.00	90 22	178.52	11965.07	-8148.28	-8148.28	148.87	2.22	490784.41	766481.86	N 32 20 49.67	W 103 36 15.41
	19734.00	90 00	178.97	11965.95	-8243.25	-8243.25	148.95	1.22	490689.44	766483.94	N 32 20 48.73	W 103 36 15.40
	19829.00	91 57	177.56	11964.65	-8338.19	-8338.19	151.83	2.22	490594.50	766486.82	N 32 20 47.79	W 103 36 15.37
	19922.00	87 98	175.54	11965.02	-8431.00	-8431.00	157.42	4.43	490501.69	766492.41	N 32 20 46.87	W 103 36 15.31
	20017.00	90 50	178.33	11966.28	-8525.84	-8525.84	162.50	3.96	490406.86	766497.49	N 32 20 45.93	W 103 36 15.26
	20111.00	89 16	181.66	11966.56	-8619.82	-8619.82	162.51	3.82	490312.88	766497.50	N 32 20 45.00	W 103 36 15.27
	20205.00	90 56	179.08	11966.79	-8713.81	-8713.81	161.90	3.12	490218.89	766496.99	N 32 20 44.07	W 103 36 15.28
	20300.00	91 01	178.28	11965.49	-8808.78	-8808.78	164.09	0.97	490123.93	766499.08	N 32 20 43.13	W 103 36 15.27
	20394.00	90 50	176.70	11964.25	-8902.67	-8902.67	168.20	1.77	490030.04	766503.20	N 32 20 42.20	W 103 36 15.22
	20488.00	89 27	174.23	11964.44	-8996.37	-8996.37	175.64	2.94	489936.34	766510.63	N 32 20 41.28	W 103 36 15.15
	20583.00	89 83	174.06	11965.18	-9090.87	-9090.87	185.33	0.82	489841.85	766520.32	N 32 20 40.34	W 103 36 15.04
	20707.00	87 92	176.62	11967.62	-9214.42	-9214.42	195.40	2.58	489718.20	766530.39	N 32 20 39.12	W 103 36 14.93
	20770.00	87 93	180.28	11969.90	-9277.35	-9277.35	197.10	5.81	489655.38	766532.09	N 32 20 38.49	W 103 36 14.92
	20867.00	88.15	181.61	11973.22	-9374.27	-9374.27	195.25	1.69	489558.46	766530.24	N 32 20 37.54	W 103 36 14.95
	20961.00	88.26	181.58	11976.16	-9468.18	-9468.18	192.39	0.37	489464.55	766527.38	N 32 20 36.61	W 103 36 14.99
	21056.00	88.26	182.01	11979.04	-9563.09	-9563.09	189.41	0.45	489369.65	766524.41	N 32 20 35.67	W 103 36 15.03
	21150.00	88.54	182.52	11981.67	-9656.98	-9656.98	185.70	0.62	489275.76	766520.69	N 32 20 34.74	W 103 36 15.08
	21244.00	88.60	180.57	11984.02	-9750.91	-9750.91	183.17	2.07	489181.83	766518.16	N 32 20 33.81	W 103 36 15.12
	21339.00	88.48	182.77	11986.43	-9845.83	-9845.83	180.40	2.32	489088.91	766515.39	N 32 20 32.87	W 103 36 15.16
	21433.00	88.88	180.95	11988.59	-9939.75	-9939.75	177.35	1.88	488992.99	766512.34	N 32 20 31.94	W 103 36 15.20
	21528.00	88.09	181.16	11991.10	-10034.70	-10034.70	175.60	0.86	488898.05	766510.59	N 32 20 31.00	W 103 36 15.23
Last MWD Survey	21640.00	88.15	184.84	11994.77	-10146.47	-10146.47	169.74	3.28	488786.28	766504.74	N 32 20 29.90	W 103 36 15.31
Proj to Bit	21675.00	88.15	184.84	11995.90	-10181.33	-10181.33	166.79	0.00	488751.43	766501.78	N 32 20 29.55	W 103 36 15.34

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2 7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0 000	26 500	1/98.425	30 000	30 000	SLB_NSG+MSHOT-Depth Only	Original Borehole / Oxy Red Tank 30-31 State 34H Gyro + MWD 0-21675 ftMD
	1	26 500	26 500	Act Sins	30 000	30 000	SLB_NSG+MSHOT-Depth Only	Original Borehole / Oxy Red Tank 30-31 State 34H Gyro + MWD 0-21675 ftMD
	1	26 500	12150.310	Act Sins	30 000	30 000	SLB_NSG+MSHOT	Original Borehole / Oxy Red Tank 30-31 State 34H Gyro + MWD 0-21675 ftMD
	1	12150.310	21675.000	Act Sins	30 000	30 000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Red Tank 30-31 State 34H Gyro + MWD 0-