

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

15- 43843

November 21, 2016

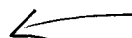
OXY USA INC.
5 Greenway Plaza, Suite 110
Houston, TX 77046-052

Re:

16, T24S, R29E, Eddy NM
N 32.22365 W 103.98407

CLIENT: OXY USA INC.
WELL: Cedar Canyon 16 State 34H
FIELD: Wolfcamp

RIG: H&P 617
COUNTY: Eddy
API NO: 30-015-43843
JOB NO: 16MLD2103



Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Tamer Ahmed FE	Cedar Canyon 16 State 34H Original Hole	515.00 Ft to 14505.00 Ft	October 16, 2016 to October 31, 2016	TelePacer SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Lindsey Keith
Field Service Manager

Schlumberger

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Well Reference:

16, T24S, R29E, Eddy NM
N 32.22365 W 103.98394

I, Tamer Ahmed certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 16, 2016 through October 31, 2016, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 515.00 feet to a depth of 14505.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA INC. for the Cedar Canyon 16 State 34H Well (Original Hole) API No. 30-015-43843 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Tamer Ahmed
FE

Tamer Ahmed

Subscribed and Sworn to before me this 26th day of November (month) 2016 (yr)

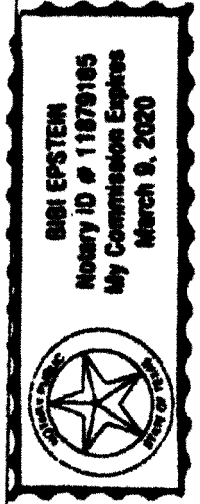
My Commission expires:

03-09-2020

Notary Public

(signature)

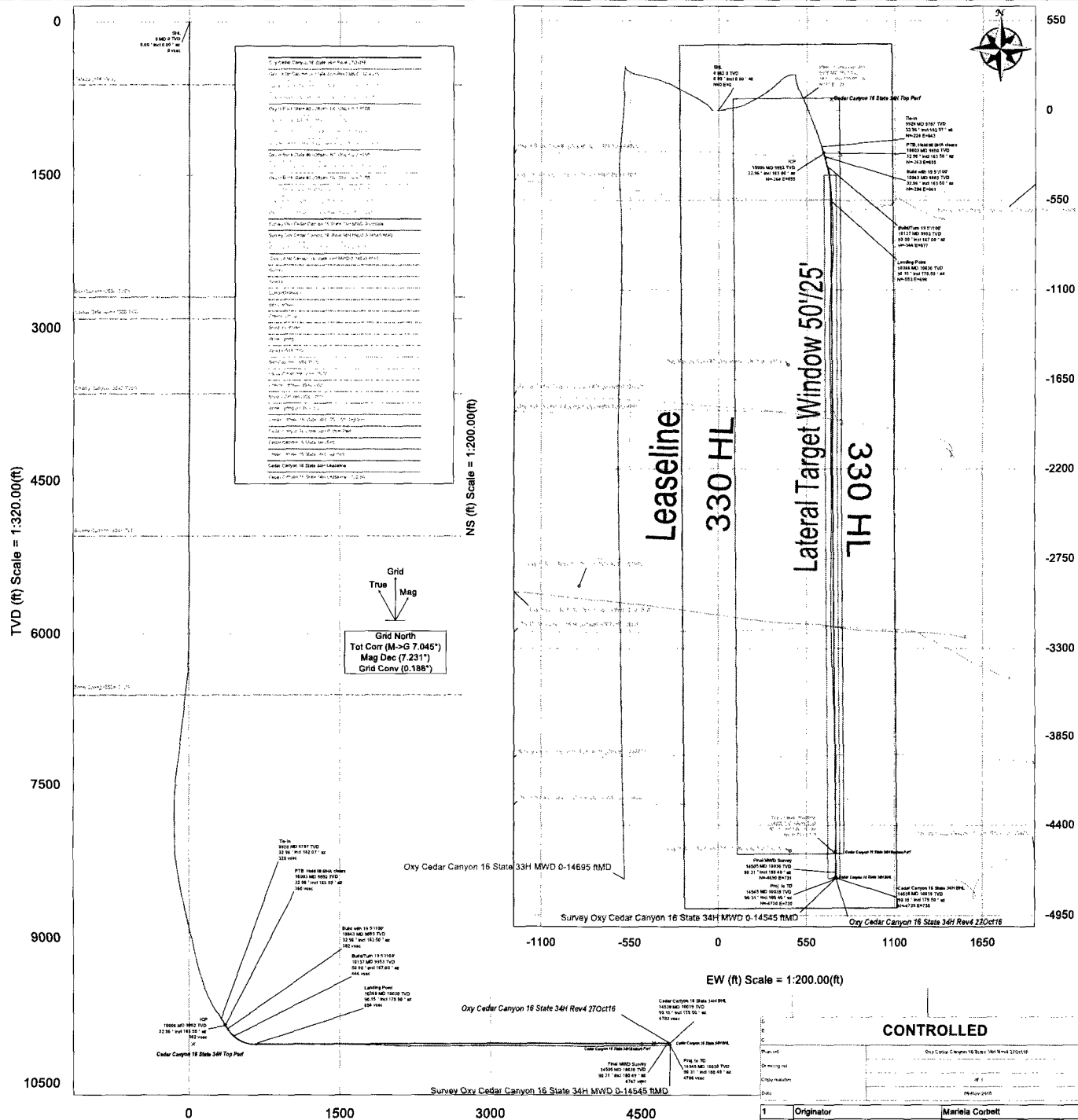
Montgomery / Texas
(County State)



Borehole: Original Borehole		Well: Oxy Cedar Canyon 16 State 34H		Field: NM Eddy County (NAD 27)		Structure: Oxy Cedar Canyon 16 State 34H	
Gravity & Magnetic Parameters				Surface Location		Miscellaneous	
Model: HDGM 2016 Dip: 60.07° Date: 10-Oct-2016 MagDec: 7.231° FS: 48261.027m Gravity FS: 996.471mm (8.0665 Gauss)				NAD27 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 13 25.14 Northing: 445258.927US Grid Conv: 0.1863" Lon: W 103 50 2.17 Easting: 608047.881US Scale Fact: 0.99992246		Slot: Oxy Cedar Canyon 16 State 34H TYP Ref: RKB=26.5(2953.8ft above MSL) Plan: Oxy Cedar Canyon 16 State 34H Rev4 27Oct16	

Critical Points

Comments	Survey MD (ft)	Inclination (d=g)	Azimuth (deg)	TVD (ft)	Sub-Sea TVD	VS (ft)	NS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Easting (ftUS)	Northing (ftUS)	DI S ("/100ft)	Tool Face (deg)
Tie-In	9928.00	32.96	162.07	9786.61	6832.81	319.91	-223.75	642.99	N 32 13 22.909	W 103 58 54.694	608690.82	445035.19	0.60	90.00
PTB. Hold till BHA clears	10003.00	32.96	163.50	9849.54	6895.74	360.27	-262.72	655.07	N 32 13 22.522	W 103 58 54.554	608702.89	444996.22	1.04	0.00
ICP	10005.59	32.96	163.50	9851.71	6897.91	361.67	-264.07	655.47	N 32 13 22.509	W 103 58 54.550	608703.29	444994.87	0.00	0.00
Build with 18.25"/100'	10043.00	32.96	163.50	9883.10	6929.30	381.84	-283.59	661.25	N 32 13 22.316	W 103 58 54.483	608709.07	444975.35	0.00	9.10
Build/Turn 18.25"/100'	10137.20	50.00	167.00	9953.42	6999.62	443.69	-343.77	676.76	N 32 13 21.720	W 103 58 54.305	608724.58	444915.18	18.25	18.97
Landing Point	10365.91	90.15	179.50	10030.05	7076.25	653.57	-552.80	698.43	N 32 13 19.651	W 103 58 54.061	608746.25	444706.16	18.25	0.00
Cedar Canyon 16 State 34H BHL	14538.23	90.15	179.50	10019.00	7065.20	4781.75	-4724.95	734.85	N 32 12 38.364	W 103 58 53.796	608782.67	440534.35	0.00	



Vertical Section (ft) Azim = 171.16° Scale = 1:320.00(ft) Origin = 0N/-S, 0E/-W

Copy number

Survey Oxy Cedar Canyon 16 State 34H MWD 0-14545 ftMD Survey

Geodetic Report

(Def Survey)

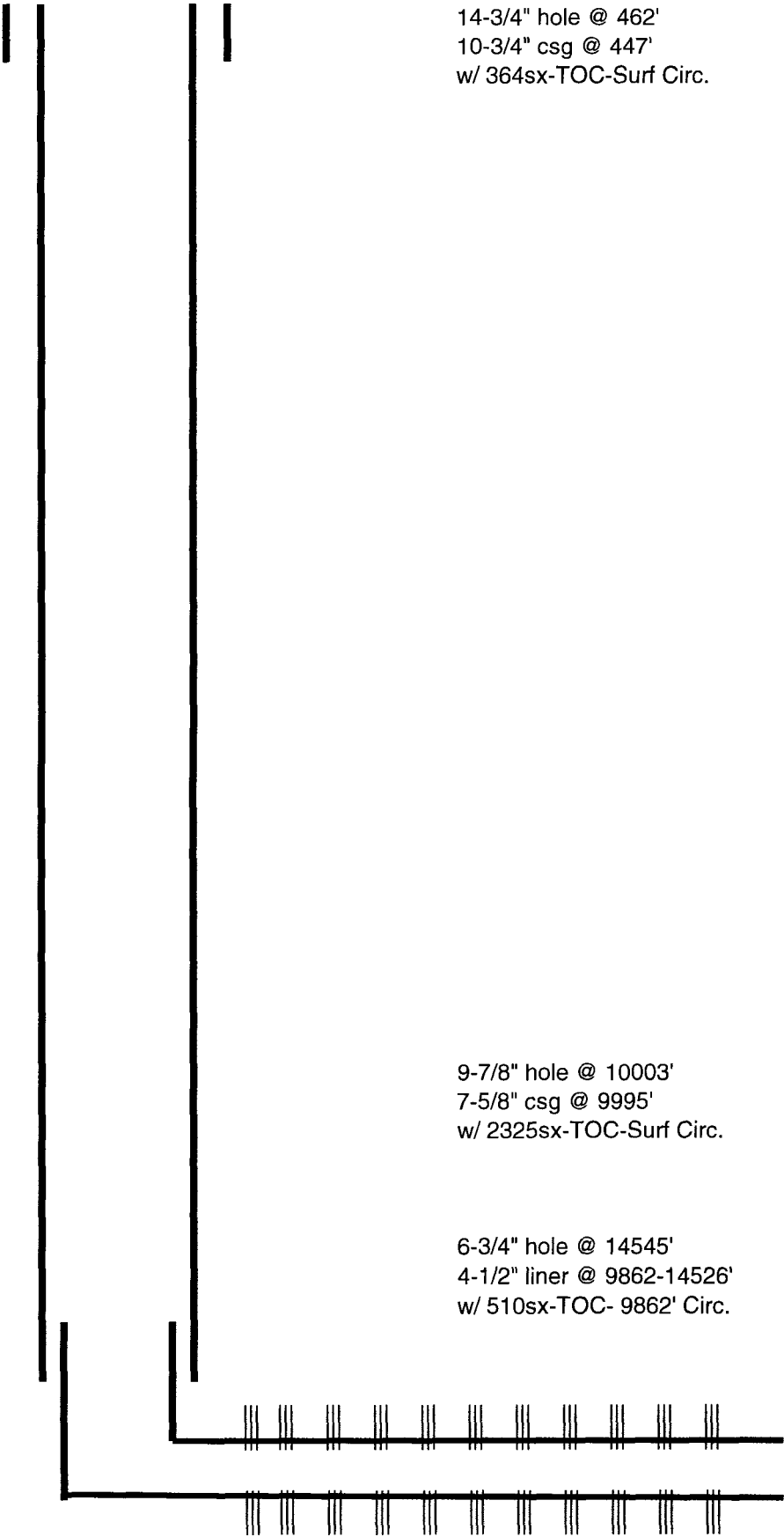


Report Date: November 09, 2016 - 10:04 AM
Client: OXY
Field: NM Eddy County (NAD 27)
Structure / Slot: Oxy Cedar Canyon 16 State 34H / Oxy Cedar Canyon 16 State 34H
Well: Oxy Cedar Canyon 16 State 34H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Survey Oxy Cedar Canyon 16 State 34H MWD 0-14545 ftMD
Survey Date: October 02, 2016
Tort / AHD / DDI / ERD Ratio: 208.161 ° / 5541.159 ft / 6.223 / 0.551
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 25.14340", W 103° 59' 2.16962"
Location Grid NE Y/X: N 445258.920 ftUS, E 608047.880 ftUS
CRS Grid Convergence Angle: 0.1863 °
Grid Scale Factor: 0.99992246
Version / Patch: 2.10.254.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 171.160 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 2953.800 ft above MSL
Seabed / Ground Elevation: 2927.300 ft above MSL
Magnetic Declination: 7.233 °
Total Gravity Field Strength: 998.4710mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48203.406 nT
Magnetic Dip Angle: 60.080 °
Declination Date: October 02, 2016
Magnetic Declination Model: HDGM 2016
North Reference: Grid North
Grid Convergence Used: 0.1863 °
Total Corr Mag North->Grid North: 7.0470 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim 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	445258.92	608047.88	N 32 13 25.14	W 103 59 2.17
RKB	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445258.92	608047.88	N 32 13 25.14	W 103 59 2.17
	515.00	0.13	294.46	515.00	-0.30	0.23	-0.50	0.03	445259.15	608047.38	N 32 13 25.15	W 103 59 2.18
	606.00	0.09	297.08	606.00	-0.40	0.30	-0.66	0.04	445259.22	608047.22	N 32 13 25.15	W 103 59 2.18
	784.00	0.11	353.15	784.00	-0.66	0.54	-0.81	0.05	445259.46	608047.07	N 32 13 25.15	W 103 59 2.18
	877.00	0.13	332.86	877.00	-0.85	0.72	-0.87	0.05	445259.64	608047.01	N 32 13 25.15	W 103 59 2.18
	966.00	0.11	39.66	966.00	-1.00	0.88	-0.86	0.15	445259.80	608047.02	N 32 13 25.15	W 103 59 2.18
	1054.00	0.09	229.30	1054.00	-1.02	0.90	-0.86	0.23	445259.82	608047.02	N 32 13 25.15	W 103 59 2.18
	1151.00	0.13	32.64	1151.00	-1.06	0.94	-0.85	0.22	445259.86	608047.03	N 32 13 25.15	W 103 59 2.18
	1246.00	0.11	84.64	1246.00	-1.13	1.04	-0.71	0.11	445259.96	608047.17	N 32 13 25.15	W 103 59 2.18
	1340.00	0.09	276.20	1340.00	-1.15	1.05	-0.69	0.21	445259.97	608047.19	N 32 13 25.15	W 103 59 2.18
	1435.00	0.09	126.30	1435.00	-1.11	1.02	-0.70	0.18	445259.94	608047.18	N 32 13 25.15	W 103 59 2.18
	1529.00	0.11	161.39	1529.00	-0.97	0.89	-0.61	0.07	445259.81	608047.27	N 32 13 25.15	W 103 59 2.18
	1624.00	0.13	301.41	1624.00	-0.95	0.86	-0.68	0.24	445259.78	608047.20	N 32 13 25.15	W 103 59 2.18
	1718.00	0.15	183.39	1718.00	-0.90	0.79	-0.78	0.26	445259.71	608047.10	N 32 13 25.15	W 103 59 2.18
	1813.00	0.11	334.03	1813.00	-0.87	0.75	-0.82	0.26	445259.67	608047.06	N 32 13 25.15	W 103 59 2.18
	1907.00	0.11	39.17	1907.00	-1.01	0.90	-0.81	0.13	445259.82	608047.07	N 32 13 25.15	W 103 59 2.18
	2096.00	0.09	90.78	2096.00	-1.11	1.04	-0.54	0.05	445259.96	608047.34	N 32 13 25.15	W 103 59 2.18
	2190.00	0.11	102.57	2190.00	-1.07	1.02	-0.38	0.03	445259.94	608047.50	N 32 13 25.15	W 103 59 2.17
	2284.00	0.15	257.95	2284.00	-1.03	0.97	-0.41	0.27	445259.89	608047.27	N 32 13 25.15	W 103 59 2.17
	2378.00	0.11	125.63	2378.00	-0.96	0.90	-0.46	0.25	445259.82	608047.42	N 32 13 25.15	W 103 59 2.17
	2472.00	0.15	206.41	2472.00	-0.79	0.73	-0.44	0.18	445259.65	608047.44	N 32 13 25.15	W 103 59 2.17
	2567.00	0.73	196.75	2566.99	-0.14	0.04	-0.67	0.61	445259.96	608047.21	N 32 13 25.14	W 103 59 2.18
	2661.00	1.10	181.24	2660.98	1.28	-1.43	-0.86	0.47	445257.49	608047.02	N 32 13 25.13	W 103 59 2.18
	2850.00	0.15	284.48	2849.97	2.97	-3.19	-1.14	0.61	445255.73	608046.74	N 32 13 25.11	W 103 59 2.18
	2944.00	0.07	182.73	2943.97	2.98	-3.21	-1.26	0.19	445255.71	608046.62	N 32 13 25.11	W 103 59 2.18
	3039.00	0.11	143.31	3038.97	3.12	-3.34	-1.21	0.08	445255.58	608046.67	N 32 13 25.11	W 103 59 2.18
	3133.00	0.13	356.46	3132.97	3.09	-3.31	-1.16	0.24	445255.61	608046.72	N 32 13 25.11	W 103 59 2.18
	3476.00	0.11	317.40	3475.97	2.43	-2.68	-1.41	0.02	445256.24	608046.47	N 32 13 25.12	W 103 59 2.19
	3511.00	0.11	61.93	3510.97	2.39	-2.64	-1.40	0.50	445256.28	608046.48	N 32 13 25.12	W 103 59 2.19
	3606.00	0.11	68.38	3605.97	2.34	-2.56	-1.24	0.01	445256.36	608046.64	N 32 13 25.12	W 103 59 2.18
	3700.00	0.13	279.24	3699.97	2.29	-2.51	-1.26	0.25	445256.41	608046.62	N 32 13 25.12	W 103 59 2.18
	3794.00	0.15	301.83	3793.97	2.17	-2.43	-1.47	0.06	445256.49	608046.41	N 32 13 25.12	W 103 59 2.19
	3889.00	0.13	20.61	3888.97	2.00	-2.26	-1.54	0.19	445256.66	608046.34	N 32 13 25.12	W 103 59 2.19
	3983.00	0.11	252.96	3982.97	1.92	-2.19	-1.59	0.23	445256.73	608046.29	N 32 13 25.12	W 103 59 2.19
	4077.00	0.13	34.36	4076.97	1.85	-2.13	-1.61	0.24	445256.79	608046.27	N 32 13 25.12	W 103 59 2.19
	4172.00	0.11	22.06	4171.97	1.70	-1.95	-1.52	0.03	445256.97	608046.36	N 32 13 25.12	W 103 59 2.19
	4266.00	0.09	125.00	4265.97	1.67	-1.91	-1.42	0.17	445257.01	608046.46	N 32 13 25.12	W 103 59 2.19
	4455.00	0.11	236.90	4454.97	1.85	-2.10	-1.45	0.09	445256.82	608046.43	N 32 13 25.12	W 103 59 2.19
	4549.00	0.11	18.92	4548.97	1.81	-2.06	-1.50	0.22	445256.86	608046.38	N 32 13 25.12	W 103 59 2.19
	4738.00	0.13	324.59	4737.97	1.45	-1.71	-1.57	0.06	445257.21	608046.31	N 32 13 25.13	W 103 59 2.19
	4832.00	0.11	336.19	4831.97	1.27	-1.55	-1.66	0.03	445257.37	608046.22	N 32 13 25.13	W 103 59 2.19
	4927.00	0.11	317.65	4926.97	1.11	-1.39	-1.76	0.04	445257.53	608046.12	N 32 13 25.13	W 103 59 2.19
	5021.00	0.29	99.82	5020.97	1.11	-1.37	-1.59	0.41	445257.55	608046.29	N 32 13 25.13	W 103 59 2.19
	5116.00	0.44	92.99	5115.96	1.26	-1.43	-0.99	0.16	445257.49	608046.89	N 32 13 25.13	W 103 59 2.18
	5210.00	0.66	97.03	5209.96	1.48	-1.51	-0.09	0.24	445257.41	608047.79	N 32 13 25.13	W 103 59 2.17
	5305.00	2.18	89.73	5304.93	1.90	-1.57	2.26	1.61	445257.35	608050.14	N 32 13 25.13	W 103 59 2.14
	5400.00	3.49	80.03	5399.81	2.11	-1.06	6.92	1.46	445257.86	608054.79	N 32 13 25.13	W 103 59 2.09
	5494.00	4.29	75.37	5493.59	1.70	0.32	13.14	0.91	445259.24	608061.01	N 32 13 25.15	W 103 59 2.02
	5589.00	6.31	76.28	5588.18	0.90	2.46	21.65	2.13	445261.38	608069.52	N 32 13 25.17	W 103 59 1.92
	5683.00	7.54	75.31	5681.50	-0.17	5.25	32.63	1.31	445264.17	608080.51	N 32 13 25.19	W 103 59 1.79
	5777.00	9.41	76.76	5774.46	-1.39	8.57	46.08	2.00	445267.49	608093.95	N 32 13 25.23	W 103 59 1.63
	5872.00	11.12	79.05	5867.94	-2.32	12.09	62.63	1.85	445271.01	608110.51	N 32 13 25.26	W 103 59 1.44
	5967.00	11.58	80.16	5961.08	-2.82	15.46	81.02	0.54	445274.38	608128.89	N 32 13 25.29	W 103 59 1.23
	6061.00	12.39	80.84	6053.03	-3.04	18.68	100.27	0.87	445277.60	608148.15	N 32 13 25.32	W 103 59 1.00
	6150.00	12.70	78.08	6139.91	-3.82	22.22	119.27	0.76	445281.14	608167.14	N 32 13 25.36	W 103 59 0.78
	6245.00	13.65	75.03	6232.41	-5.38	27.27	140.32	1.24	445286.19	608188.19	N 32 13 25.41	W 103 59 0.54
	6339.00	14.24	68.29	6323.64	-9.14	34.41	161.78	1.84	445293.33	608209.64	N 32 13 25.48	W 103 59 0.29
	6433.00	15.60	63.05	6414.48	-15.65	44.42	183.79	2.04	445303.33	608231.65	N 32 13 25.58	W 103 59 0.03
	6528.00	17.16	60.30	6505.62	-24.61	57.15	207.35	1.83	445316.07	608255.21	N 32 13 25.70	W 103 58 59.75
	6622.00	16.00	61.04	6595.71	-34.00	70.30	230.73	1.25	445329.21	608278.59	N 32 13 25.83	W 103 58 59.48
	6716.00	15.21	59.89	6686.24	-42.93	82.75	252.73	0.90	445341.67	608300.59	N 32 13 25.95	W 103 58 59.22
	6811.00	16.04	57.01	6777.73	-52.82	96.15	274.52	1.20	445355.07	608322.38	N 32 13 26.09	W 103 58 58.97
	6906.00	15.58	56.20	6869.14	-63.58	110.40	296.13	0.54	445369.31	608343.99	N 32 13 26.23	W 103 58 58.72
	7006.00	14.81	56.36	6965.64	-74.60	124.95	317.93	0.77	445383.86	608365.79	N 32 13 26.37	W 103 58 58.46
	7101.00	12.11	50.67	7058.03	-84.76	137.99	335.75	3.16	445396.90	608383.61	N 32 13 26.50	W 103 58 58.26
	7195.00	11.54	46.93	7150.04	-95.05	150.66	350.25	1.02	445409.57	608398.10	N 32 13 26.62	W 103 58 58.09
	7289.00	14.39	46.87	7241.63	-106.92	165.07	365.65	3.03	445423.98	608413.50	N 32 13 26.77	W 103 58 57.91
	7384.00	15.98	50.44	7333.31	-120.25	181.47	384.34	1.94	445440.38	608432.19	N 32 13 26.93	W 103 58 57.69
	7478.00	12.57	54.58	7424.40	-131.44	195.65	402.66	3.78	445454.55	608450.51	N 32 13 27.07	W 103 58 57.48
	7573.00	10.77	59.66	7517.43	-139.32	206.12	418.75	2.18	445465.03	608466.59	N 32 13 27.17	W 103 58 57.29

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7667.00	9.56	70.47	7609.97	-143.99	213.17	433.69	2.40	445472.07	608481.53	N 32 13 27.24	W 103 58 57.11
	7762.00	10.13	80.87	7703.57	-145.49	217.13	449.37	1.96	445476.03	608497.21	N 32 13 27.28	W 103 58 56.93
	7856.00	7.36	82.65	7796.47	-145.38	219.21	463.51	2.96	445478.12	608511.35	N 32 13 27.30	W 103 58 56.77
	7951.00	4.33	88.47	7890.97	-144.76	220.09	473.13	3.25	445478.99	608520.97	N 32 13 27.31	W 103 58 56.65
	8045.00	1.93	119.27	7984.83	-143.34	219.41	478.06	3.03	445478.31	608525.90	N 32 13 27.30	W 103 58 56.60
	8140.00	1.03	164.46	8079.80	-141.50	217.80	479.68	1.48	445476.71	608527.52	N 32 13 27.28	W 103 58 56.58
	8234.00	3.71	185.97	8173.71	-137.72	213.96	479.59	2.95	445472.87	608527.43	N 32 13 27.25	W 103 58 56.58
	8329.00	6.86	177.58	8268.29	-129.11	205.24	479.51	3.41	445464.14	608527.35	N 32 13 27.16	W 103 58 56.58
	8423.00	8.35	167.44	8361.47	-116.72	192.96	481.23	2.13	445451.87	608529.08	N 32 13 27.04	W 103 58 56.56
	8518.00	10.88	168.66	8455.13	-100.87	177.44	484.50	2.67	445436.34	608532.34	N 32 13 26.88	W 103 58 56.52
	8612.00	12.00	161.82	8547.26	-82.37	159.46	489.29	1.87	445418.36	608537.13	N 32 13 26.71	W 103 58 56.47
	8706.00	11.49	157.36	8639.30	-63.63	141.53	495.94	1.11	445400.44	608543.78	N 32 13 26.53	W 103 58 56.39
	8801.00	13.67	156.04	8732.01	-43.60	122.54	504.15	2.31	445381.45	608551.99	N 32 13 26.34	W 103 58 56.30
	8896.00	15.16	153.95	8824.02	-20.90	101.12	514.16	1.66	445360.03	608562.00	N 32 13 26.13	W 103 58 56.18
	8990.00	14.79	156.39	8914.83	2.44	79.08	524.36	0.78	445337.99	608572.20	N 32 13 25.91	W 103 58 56.06
	9084.00	14.09	154.15	9005.86	24.99	57.79	534.16	0.95	445316.70	608582.00	N 32 13 25.70	W 103 58 55.95
	9173.00	11.67	154.12	9092.61	43.95	39.94	542.81	2.72	445298.86	608590.65	N 32 13 25.52	W 103 58 55.85
	9267.00	14.66	157.18	9184.13	64.59	20.42	551.58	3.27	445279.33	608599.41	N 32 13 25.33	W 103 58 55.75
	9362.00	16.81	157.17	9275.58	89.59	-3.33	561.57	2.26	445255.59	608609.41	N 32 13 25.09	W 103 58 55.63
	9456.00	16.04	157.11	9365.73	115.38	-27.82	571.90	0.82	445231.10	608619.73	N 32 13 24.85	W 103 58 55.51
	9551.00	19.76	160.12	9456.12	143.88	-55.02	582.46	4.03	445203.90	608630.30	N 32 13 24.58	W 103 58 55.39
	9645.00	25.27	159.07	9542.92	179.12	-88.73	595.05	5.88	445170.20	608642.88	N 32 13 24.25	W 103 58 55.25
	9739.00	29.10	159.39	9626.52	221.13	-128.88	610.26	4.08	445130.05	608658.10	N 32 13 23.85	W 103 58 55.07
	9834.00	33.16	161.10	9707.82	269.35	-175.10	626.82	4.37	445083.83	608674.65	N 32 13 23.39	W 103 58 54.88
	9928.00	32.96	162.07	9786.60	319.91	-225.76	643.02	0.60	445035.18	608690.90	N 32 13 22.91	W 103 58 54.69
	10032.00	33.78	161.74	9873.46	376.37	-278.13	660.79	0.81	444980.81	608708.61	N 32 13 22.37	W 103 58 54.49
	10082.00	41.91	163.04	9912.91	406.67	-307.35	670.03	16.34	444951.59	608717.86	N 32 13 22.08	W 103 58 54.38
	10129.00	48.68	165.55	9945.96	439.82	-339.50	679.02	14.89	444919.45	608726.85	N 32 13 21.76	W 103 58 54.28
	10222.00	63.29	173.29	9997.89	516.58	-415.06	692.68	17.14	444843.90	608740.50	N 32 13 21.01	W 103 58 54.12
	10318.00	79.55	175.46	10028.38	607.11	-505.31	701.49	17.07	444753.65	608749.31	N 32 13 20.12	W 103 58 54.02
	10408.00	91.03	177.31	10035.76	696.28	-594.68	707.12	12.92	444664.29	608754.94	N 32 13 19.24	W 103 58 53.96
	10474.00	91.45	178.34	10034.33	761.82	-660.61	709.62	1.69	444598.36	608757.45	N 32 13 18.58	W 103 58 53.93
	10569.00	90.14	179.67	10033.01	855.92	-755.59	711.27	1.96	444503.39	608759.10	N 32 13 17.64	W 103 58 53.92
	10662.00	90.24	179.63	10032.71	947.90	-848.58	711.84	0.12	444410.40	608759.67	N 32 13 16.72	W 103 58 53.92
	10755.00	90.21	182.60	10032.34	1039.49	-941.56	710.03	3.19	444317.44	608757.86	N 32 13 15.80	W 103 58 53.94
	10850.00	90.48	185.06	10031.77	1132.16	-1036.33	703.69	2.60	444222.67	608751.51	N 32 13 14.87	W 103 58 54.02
	10944.00	90.28	183.54	10031.15	1223.70	-1130.06	696.64	1.63	444128.95	608744.46	N 32 13 13.94	W 103 58 54.10
	11037.00	89.83	181.36	10031.06	1314.89	-1222.97	692.66	2.39	444036.04	608740.49	N 32 13 13.02	W 103 58 54.15
	11132.00	89.55	179.91	10031.57	1408.59	-1317.96	691.61	1.55	443941.06	608739.44	N 32 13 12.08	W 103 58 54.17
	11226.00	89.76	179.47	10032.14	1501.55	-1411.96	692.12	0.52	443847.07	608739.95	N 32 13 11.15	W 103 58 54.17
	11320.00	89.45	178.73	10032.78	1594.65	-1505.95	693.60	0.85	443753.09	608741.42	N 32 13 10.22	W 103 58 54.15
	11413.00	89.11	179.11	10033.95	1686.79	-1598.92	695.35	0.55	443660.13	608743.17	N 32 13 9.30	W 103 58 54.14
	11507.00	88.24	178.63	10036.13	1779.91	-1692.88	697.20	1.06	443566.18	608745.03	N 32 13 8.37	W 103 58 54.12
	11601.00	87.56	179.31	10039.57	1872.98	-1786.80	698.89	1.02	443472.26	608746.72	N 32 13 7.44	W 103 58 54.10
	11695.00	89.21	178.83	10042.22	1966.04	-1880.74	700.42	1.83	443378.32	608748.24	N 32 13 6.51	W 103 58 54.09
	11789.00	88.73	179.43	10043.91	2059.12	-1974.72	701.84	0.82	443284.36	608749.67	N 32 13 5.58	W 103 58 54.08
	11883.00	88.18	179.56	10046.44	2152.09	-2068.68	702.67	0.60	443190.40	608750.50	N 32 13 4.65	W 103 58 54.07
	11977.00	90.14	179.33	10047.82	2245.10	-2162.66	703.58	2.10	443096.43	608751.41	N 32 13 3.72	W 103 58 54.06
	12071.00	90.07	179.62	10047.65	2338.11	-2256.66	704.44	0.32	443002.44	608752.27	N 32 13 2.79	W 103 58 54.06
	12166.00	91.03	179.89	10046.74	2432.03	-2351.65	704.85	1.05	442907.46	608752.67	N 32 13 1.85	W 103 58 54.05
	12260.00	89.86	179.90	10046.01	2524.94	-2445.65	705.02	1.24	442813.47	608752.85	N 32 13 0.92	W 103 58 54.06
	12354.00	90.86	180.16	10045.42	2617.81	-2539.64	704.97	1.10	442719.48	608752.80	N 32 12 59.99	W 103 58 54.06
	12447.00	91.03	180.32	10043.88	2709.63	-2632.63	704.58	0.25	442626.50	608752.41	N 32 12 59.07	W 103 58 54.07
	12541.00	90.69	180.84	10042.47	2802.36	-2726.61	703.63	0.66	442532.52	608751.46	N 32 12 58.14	W 103 58 54.08
	12635.00	90.24	180.51	10041.71	2895.06	-2820.60	702.52	0.59	442438.54	608750.35	N 32 12 57.21	W 103 58 54.10
	12729.00	90.17	180.37	10041.37	2987.83	-2914.60	701.80	0.17	442344.55	608749.63	N 32 12 56.28	W 103 58 54.11
	12823.00	89.97	179.84	10041.26	3080.68	-3008.60	701.63	0.60	442250.56	608749.45	N 32 12 55.35	W 103 58 54.12
	12917.00	89.90	179.25	10041.37	3173.68	-3102.60	702.38	0.63	442156.57	608750.20	N 32 12 54.42	W 103 58 54.11
	13011.00	89.38	179.16	10041.96	3266.75	-3196.58	703.68	0.56	442062.59	608751.51	N 32 12 53.49	W 103 58 54.10
	13105.00	89.00	178.33	10043.28	3359.92	-3290.55	705.74	0.97	441968.63	608753.56	N 32 12 52.56	W 103 58 54.08
	13198.00	89.86	177.45	10044.21	3452.27	-3383.48	709.16	1.32	441875.71	608756.99	N 32 12 51.64	W 103 58 54.04
	13290.00	89.90	177.46	10044.40	3543.72	-3475.39	713.25	0.04	441783.81	608761.07	N 32 12 50.73	W 103 58 54.00
	13383.00	90.89	177.56	10043.76	3636.14	-3568.30	717.29	1.07	441690.90	608765.11	N 32 12 49.81	W 103 58 53.96
	13474.00	89.28	177.82	10043.63	3726.55	-3659.22	720.96	1.79	441599.99	608768.78	N 32 12 48.91	W 103 58 53.92
	13568.00	89.21	177.63	10044.87	3819.93	-3753.14	724.69	0.22	441506.08	608772.51	N 32 12 47.98	W 103 58 53.88
	13662.00	90.41	177.82	10045.18	3913.31	-3847.06	728.42	1.29	441412.16	608776.24	N 32 12 47.05	W 103 58 53.84
	13756.00	90.96	178.43	10044.05	4006.61	-3941.01	731.49	0.87	441318.23	608779.32	N 32 12 46.12	W 103 58 53.80
	13850.00	90.93	180.50	10042.50	4099.60	-4034.98	732.37	2.20	441224.26	608780.19	N 32 12 45.19	W 103 58 53.80
	13943.00	90.24	180.37	10041.55	4191.38	-4127.98	731.67	0.75	441131.27	608779.49	N 32 12 44.27	W 103 58 53.81
	14038.00	90.41	180.35	10041.01	4285.16	-4222.97	731.07	0.18	441036.28	608778.89	N 32 12 43.33	W 103 58 53.82
	14132.00	90.14	180.00	10040.56	4377.99	-4316.97	730.78	0.47	440942.29	608778.60	N 32 12 42.40	W 103 58 53.83
	14226.00	90.03	179.28	10040.42	4470.97	-4410.97	731.37	0.77	440848.30	608779.19	N 32 12 41.47	W 103 58 53.82
	14320.00	90.48	179.95	10040.01	4563.94	-4504.96	732.00	0.86	440754.31	608779.83	N 32 12 40.54	W 103 58 53.82
	14414.00	90.89	180.53	10038.88	4656.76	-4598.96	731.61	0.76	440660.33	608779.43	N 32 12 39.61	W 103 58 53.83
Final MWD Survey	14505.00	90.31	180.49	10037.93	4746.54	-4689.95	730.80	0.64	440569.35	608778.62	N 32 12 38.71	W 103 58 53.84
Proj. to TD	14545.00	90.31	180.49	10037.71	4							

OXY USA Inc.
Cedar Canyon 16 State 34H
API No. 30-015-43843



14-3/4" hole @ 462'
10-3/4" csg @ 447'
w/ 364sx-TOC-Surf Circ.

9-7/8" hole @ 10003'
7-5/8" csg @ 9995'
w/ 2325sx-TOC-Surf Circ.

6-3/4" hole @ 14545'
4-1/2" liner @ 9862-14526'
w/ 510sx-TOC- 9862' Circ.

Perfs @ 10125-14360' TD- 14545'M 10038'V