

Oilfield Services, Central U.S. Field
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

November 3, 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 33H
FIELD: Pierce Crossing, Bone Spring East

RIG: H&P 617
COUNTY: Eddy
API NO: 30-015-43844
JOB NO: 16MLD2099

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 33H Original Hole	513.00 Ft to 14657.00 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

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)
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Schlumberger

Well Reference:

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

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 513.00 feet to a depth of 14657.00 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 33H Well (Original Hole) API No. 30-015-43844 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 8 day of November (month) 2016 (yr)

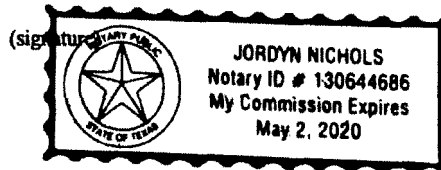
My Commission expires:

5/2/20

Jordyn Nichols

Notary Public
Harris, Texas

(County State)

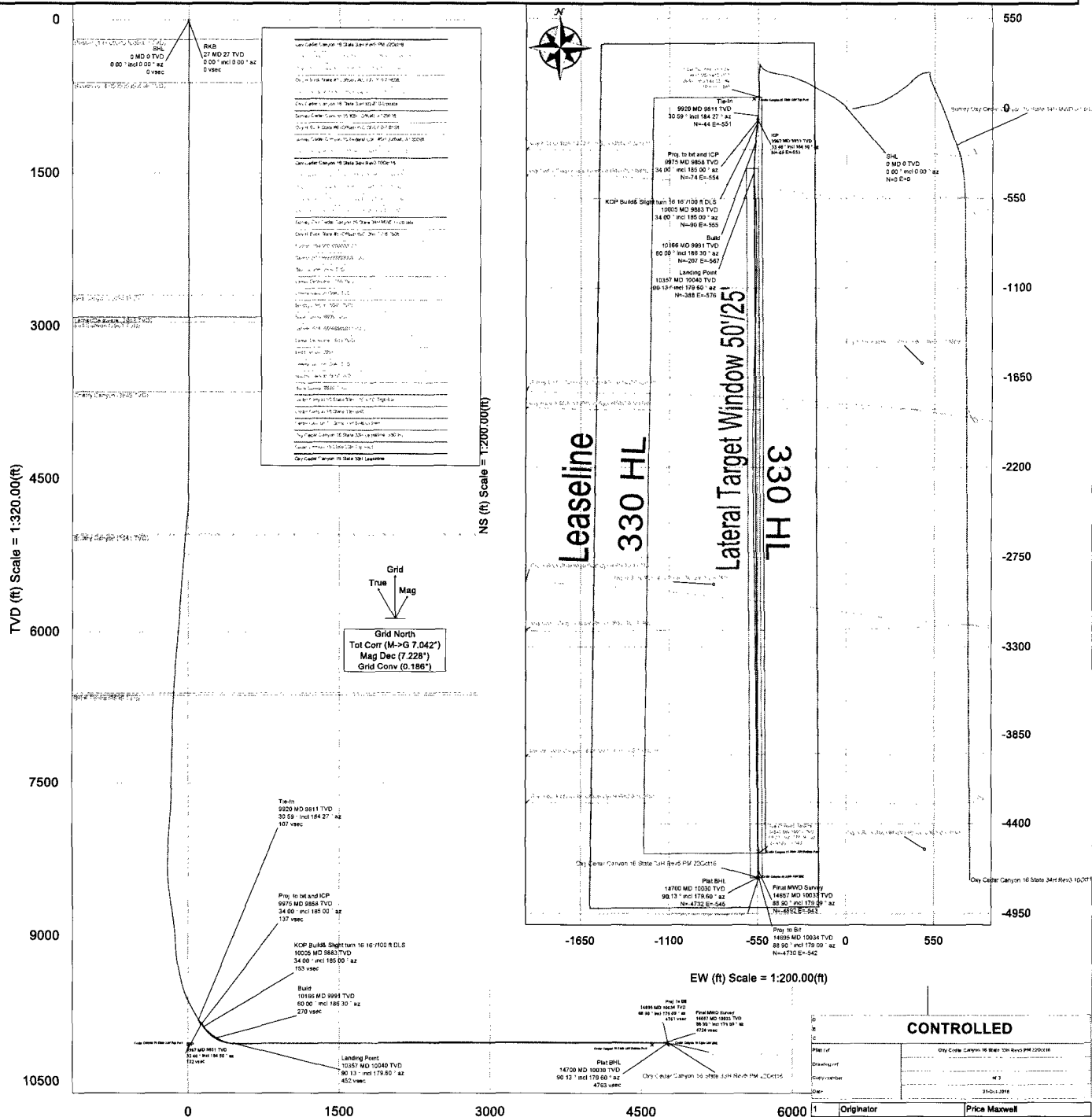


Schlumberger Final PvA - Rev5 oxy H&P 617 RKB = 26.5 ft

Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Cedar Canyon 16 State 33H	NM Eddy County (NAD 27)	Oxy Cedar Canyon 16 State 33H

Gravity & Magnetic Parameters	Surface Location	Mechanical
Model: HOGM 2016	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Oxy Cedar Canyon
Dip: 60.07°	Lat: N 32 13 25.14	Oxy Cedar Canyon
Date: 21-Oct-2016	North: 445258.881US	Oxy Cedar Canyon
MagDec: 7.228°	Lon: W 103 59 2.64	Oxy Cedar Canyon
Gravity FS: 998.471mg (9.80665 Based)	East: 688007.881US	Oxy Cedar Canyon
	Scale Fact: 0.9992245	Oxy Cedar Canyon
		Oxy Cedar Canyon

Comments	Survey MD(ft)	Inclination(deg)	Azimuth(deg)	TVD(ft)	Sub-Sea TVD	VS(ft)	NS(ft)	EW(ft)	Latitude(deg)	Longitude(deg)	Easting(ftUS)	Northing(ftUS)	Closure(ft)	Closure Azimuth(deg)	DLSq:10 (ft)	Tool Face(deg)
Tie-In	9920.00	30.59	184.27	9811.14	6857.34	107.24	-44.43	-551.31	N 32 13 24 720 N 103 59 9.054	607456.62	445214.26	553.10	265.39	1.15	6.30	
ICP	9966.57	33.48	184.90	9850.62	6896.82	131.93	-69.05	-553.29	N 32 13 24 477 N 103 59 9.078	607454.64	445189.64	557.58	262.89	6.24	6.83	
Proj. to bit and ICP	9975.00	34.00	185.00	9857.63	6903.83	136.51	-73.71	-553.69	N 32 13 24 431 N 103 59 9.083	607454.23	445184.98	558.58	262.42	6.24	0.00	
KOP Build & Slight turn 16.16°/100 ft DLS	10005.00	34.00	185.00	9882.50	6928.70	153.38	-90.42	-555.15	N 32 13 24 265 N 103 59 9.101	607452.77	445158.26	562.47	260.75	0.00	2.57	
	10165.99	60.00	185.30	9991.36	7037.56	270.09	-206.56	-566.93	N 32 13 23 117 N 103 59 9.242	607441.00	445052.14	603.39	249.96	16.16	-13.17	
Build	10356.59	90.13	179.60	10039.97	7086.17	451.61	-388.28	-575.53	N 32 13 21 319 N 103 59 9.349	607432.40	444870.43	694.26	235.99	16.16	0.00	
Landing Point	10356.59	90.13	179.60	10039.97	7086.17	451.61	-388.28	-575.53	N 32 13 21 319 N 103 59 9.349	607432.40	444870.43	694.26	235.99	16.16	0.00	
Plat BHL	14700.20	90.13	179.60	10030.00	7076.20	4763.08	-4731.78	-545.22	N 32 12 38 337 N 103 59 9.160	607462.70	440527.28	4763.08	186.57	0.00		



Oxy Cedar Canyon 16 State 33H MWD 0-14695 ftMD Survey Geodetic



Report

(Def Survey)

Report Date: October 31, 2016 - 02:44 PM
Client: OXY
Field: NM Eddy County (NAD 27)
Structure / Slot: Oxy Cedar Canyon 16 State 33H / Oxy Cedar Canyon 16 State 33H
Well: Oxy Cedar Canyon 16 State 33H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Oxy Cedar Canyon 16 State 33H MWD 0-14695 ftMD
Survey Date: September 29, 2016
Tort / AHD / DDI / ERD Ratio: 203.082 ° / 5631.498 ft / 6.224 / 0.561
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 25.14231", W 103° 59' 2.63528"
Location Grid N/E Y/X: N 445258.680 ftUS, E 608007.880 ftUS
CRS Grid Convergence Angle: 0.1862 °
Grid Scale Factor: 0.99992245
Version / Patch: 2.10.254.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 186.573 ° (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: 7.234 °
Total Gravity Field Strength: 998.4710mgN (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48204.286 nT
Magnetic Dip Angle: 60.080 °
Declination Date: September 29, 2016
Magnetic Declination Model: HDGM 2016
North Reference: Grid North
Grid Convergence Used: 0.1862 °
Total Corr Mag North->Grid North: 7.0480 °
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	445258.68	608007.88	N 32 13 25.14	W 103 59 2.64
RKB	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445258.68	608007.88	N 32 13 25.14	W 103 59 2.64
	513.00	0.18	154.19	513.00	0.65	-0.69	0.33	0.04	445257.99	608008.21	N 32 13 25.14	W 103 59 2.63
	604.00	0.04	3.32	604.00	0.73	-0.78	0.40	0.24	445257.90	608008.28	N 32 13 25.13	W 103 59 2.63
	694.00	0.02	237.40	694.00	0.71	-0.76	0.39	0.06	445257.92	608008.27	N 32 13 25.13	W 103 59 2.63
	784.00	0.04	169.99	784.00	0.75	-0.80	0.38	0.04	445257.88	608008.26	N 32 13 25.13	W 103 59 2.63
	875.00	0.09	55.93	875.00	0.74	-0.79	0.44	0.12	445257.89	608008.32	N 32 13 25.13	W 103 59 2.63
	965.00	0.04	70.08	965.00	0.68	-0.74	0.53	0.06	445257.94	608008.41	N 32 13 25.13	W 103 59 2.63
	1150.00	0.04	317.49	1150.00	0.61	-0.67	0.55	0.04	445258.01	608008.43	N 32 13 25.14	W 103 59 2.63
	1244.00	0.04	103.16	1244.00	0.59	-0.66	0.56	0.08	445258.02	608008.44	N 32 13 25.14	W 103 59 2.63
	1339.00	0.07	283.66	1339.00	0.58	-0.65	0.53	0.12	445258.03	608008.41	N 32 13 25.14	W 103 59 2.63
	1433.00	0.04	288.89	1433.00	0.57	-0.63	0.45	0.03	445258.05	608008.33	N 32 13 25.14	W 103 59 2.63
	1528.00	0.04	181.68	1528.00	0.60	-0.65	0.41	0.07	445258.03	608008.29	N 32 13 25.14	W 103 59 2.63
	1717.00	0.04	350.72	1717.00	0.60	-0.65	0.40	0.04	445258.03	608008.28	N 32 13 25.14	W 103 59 2.63
	1811.00	0.04	96.60	1811.00	0.57	-0.62	0.43	0.07	445258.06	608008.31	N 32 13 25.14	W 103 59 2.63
	1905.00	0.04	256.87	1905.00	0.58	-0.63	0.43	0.08	445258.05	608008.31	N 32 13 25.14	W 103 59 2.63
	2000.00	0.04	256.87	2000.00	0.60	-0.65	0.36	0.00	445258.03	608008.24	N 32 13 25.14	W 103 59 2.63
	2095.00	0.04	169.95	2095.00	0.64	-0.69	0.34	0.06	445257.99	608008.22	N 32 13 25.14	W 103 59 2.63
	2188.00	0.20	115.62	2188.00	0.73	-0.79	0.49	0.19	445257.89	608008.37	N 32 13 25.13	W 103 59 2.63
	2283.00	0.31	126.00	2283.00	0.91	-1.01	0.85	0.13	445257.67	608008.73	N 32 13 25.13	W 103 59 2.63
	2377.00	0.02	126.00	2377.00	1.04	-1.17	1.07	0.31	445257.51	608008.95	N 32 13 25.13	W 103 59 2.62
	2471.00	0.02	126.00	2471.00	1.06	-1.19	1.09	0.00	445257.49	608008.97	N 32 13 25.13	W 103 59 2.62
	2565.00	0.07	107.58	2565.00	1.08	-1.22	1.16	0.05	445257.46	608009.04	N 32 13 25.13	W 103 59 2.62
	2660.00	0.11	151.58	2660.00	1.16	-1.31	1.26	0.08	445257.37	608009.14	N 32 13 25.13	W 103 59 2.62
	2754.00	0.02	151.58	2754.00	1.25	-1.41	1.31	0.10	445257.27	608009.19	N 32 13 25.13	W 103 59 2.62
	2848.00	0.07	127.89	2848.00	1.29	-1.46	1.36	0.06	445257.22	608009.24	N 32 13 25.13	W 103 59 2.62
	3037.00	0.02	127.89	3037.00	1.37	-1.55	1.48	0.03	445257.13	608009.36	N 32 13 25.13	W 103 59 2.62
	3132.00	0.04	263.67	3132.00	1.39	-1.56	1.46	0.06	445257.12	608009.34	N 32 13 25.13	W 103 59 2.62
	3226.00	0.07	14.93	3226.00	1.34	-1.51	1.44	0.10	445257.17	608009.32	N 32 13 25.13	W 103 59 2.62
	3415.00	0.04	83.68	3415.00	1.21	-1.39	1.54	0.04	445257.29	608009.42	N 32 13 25.13	W 103 59 2.62
	3510.00	0.04	40.09	3510.00	1.17	-1.36	1.59	0.03	445257.32	608009.47	N 32 13 25.13	W 103 59 2.62
	3604.00	0.04	12.01	3604.00	1.11	-1.31	1.62	0.02	445257.37	608009.50	N 32 13 25.13	W 103 59 2.62
	3792.00	0.02	12.01	3792.00	1.01	-1.21	1.64	0.01	445257.47	608009.52	N 32 13 25.13	W 103 59 2.62
	3982.00	0.03	12.50	3982.00	0.93	-1.13	1.66	0.01	445257.55	608009.54	N 32 13 25.13	W 103 59 2.62
	4170.00	0.04	16.43	4170.00	0.82	-1.02	1.69	0.01	445257.66	608009.57	N 32 13 25.13	W 103 59 2.62
	4265.00	0.04	354.96	4265.00	0.75	-0.95	1.69	0.02	445257.73	608009.57	N 32 13 25.13	W 103 59 2.62
	4454.00	0.04	251.72	4454.00	0.72	-0.91	1.63	0.03	445257.77	608009.51	N 32 13 25.13	W 103 59 2.62
	4548.00	0.04	150.68	4548.00	0.76	-0.95	1.61	0.07	445257.73	608009.49	N 32 13 25.13	W 103 59 2.62
	4642.00	0.94	326.37	4641.99	0.19	-0.33	1.20	1.04	445258.35	608009.08	N 32 13 25.14	W 103 59 2.62
	4737.00	3.67	322.67	4736.91	-2.59	2.73	-1.08	2.88	445261.41	608006.80	N 32 13 25.17	W 103 59 2.65
	4831.00	6.44	320.90	4830.53	-8.40	9.18	-6.27	2.95	445267.86	608001.61	N 32 13 25.23	W 103 59 2.71
	4926.00	8.10	317.63	4924.77	-16.48	18.23	-14.18	1.78	445276.91	607993.70	N 32 13 25.32	W 103 59 2.80
	5020.00	8.82	312.28	5017.74	-25.04	27.97	-23.98	1.13	445286.65	607983.90	N 32 13 25.42	W 103 59 2.91
	5115.00	9.53	308.36	5111.53	-33.43	37.75	-35.53	1.00	445296.43	607972.35	N 32 13 25.52	W 103 59 3.05
	5209.00	10.44	305.29	5204.10	-41.62	47.50	-48.59	1.12	445306.17	607959.30	N 32 13 25.61	W 103 59 3.20
	5304.00	10.44	304.68	5297.53	-49.82	57.37	-62.69	0.12	445316.04	607945.19	N 32 13 25.71	W 103 59 3.36
	5398.00	10.47	300.80	5389.97	-57.33	66.59	-77.03	0.75	445325.26	607930.86	N 32 13 25.80	W 103 59 3.53
	5493.00	9.95	297.18	5483.47	-63.76	74.76	-91.75	0.87	445333.43	607916.14	N 32 13 25.89	W 103 59 3.70
	5587.00	10.76	296.19	5575.94	-69.57	82.34	-106.84	0.88	445341.01	607901.04	N 32 13 25.96	W 103 59 3.88
	5682.00	12.20	296.67	5669.03	-75.99	90.76	-123.77	1.52	445349.43	607884.12	N 32 13 26.04	W 103 59 4.07
	5776.00	13.07	297.27	5760.76	-83.16	100.69	-142.10	0.94	445358.76	607865.80	N 32 13 26.14	W 103 59 4.29
	5871.00	11.80	295.43	5853.53	-90.10	109.18	-160.42	1.40	445367.85	607847.48	N 32 13 26.23	W 103 59 4.50
	5965.00	11.97	298.23	5945.51	-96.80	117.92	-177.69	0.64	445376.59	607830.21	N 32 13 26.31	W 103 59 4.70
	6060.00	11.81	298.73	6038.47	-104.11	127.25	-194.89	0.20	445385.92	607813.00	N 32 13 26.41	W 103 59 4.90
	6154.00	11.46	298.62	6130.54	-111.24	136.35	-211.52	0.37	445395.02	607796.37	N 32 13 26.50	W 103 59 5.09
	6249.00	12.27	298.84	6223.51	-118.61	145.74	-228.65	0.85	445404.41	607779.25	N 32 13 26.59	W 103 59 5.29
	6343.00	11.75	296.58	6315.45	-125.67	154.84	-245.96	0.75	445413.51	607761.94	N 32 13 26.68	W 103 59 5.49
	6437.00	11.84	294.75	6407.47	-131.95	163.16	-263.28	0.41	445421.83	607744.62	N 32 13 26.77	W 103 59 5.69
	6532.00	11.81	292.42	6500.45	-137.64	170.95	-281.11	0.50	445429.61	607728.79	N 32 13 26.84	W 103 59 5.90
	6626.00	11.79	291.79	6592.47	-142.79	178.18	-298.92	0.14	445436.85	607708.98	N 32 13 26.92	W 103 59 6.11
	6720.00	11.73	289.05	6684.50	-147.38	184.86	-316.87	0.60	445443.53	607691.03	N 32 13 26.98	W 103 59 6.32
	6815.00	11.15	286.26	6777.61	-151.01	190.59	-334.82	0.84	445449.25	607673.09	N 32 13 27.04	W 103 59 6.53
	6909.00	10.23	283.98	6869.98	-153.61	195.15	-351.64	1.08	445453.81	607656.26	N 32 13 27.08	W 103 59 6.72
	7004.00	10.39	282.24	6963.44	-155.55	199.00	-368.20	0.37	445457.67	607639.71	N 32 13 27.12	W 103 59 6.91
	7099.00	10.72	280.91	7056.84	-157.06	202.49	-385.25	0.43	445461.16	607622.66	N 32 13 27.16	W 103 59 7.11
	7193.00	11.21	285.68	7149.12	-159.17	206.62	-402.63	1.10	445465.28	607605.28	N 32 13 27.20	W 103 59 7.31
	7287.00	12.02	280.23	7241.20	-161.24	210.82	-421.06	1.45	445469.49	607586.85	N 32 13 27.24	W 103 59 7.53
	7383.00	11.67	279.73	7335.15	-162.41	214.24	-440.47	0.38	445472.90	607567.45	N 32 13 27.28	W 103 59 7.75
	7476.00	10.84	281.71	7426.36	-163.71	217.61	-458.30	0.98	445476.27	607549.61	N 32 13 27.31	W 103 59 7.96
	7571.00	10.06	286.45	7519.79	-165.94	221.77	-475.01	1.22	445480.43	607532.91	N 32 13 27.35	W 103 59 8.16
	7665.00	9.27	291.83	7612.46	-169.34	226.91	-489.91	1.28	445485.57	607518.01	N 32 13 27.40	W 103 59 8.33

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 ° ' ")
	7759.00	8.47	292.32	7705.33	-173.21	232.35	-503.34	0.85	445491.01	607504.58	N 32 13 27.46	W 103 59 8.49
	7854.00	8.16	304.81	7799.34	-178.30	238.86	-515.35	1.93	445497.52	607492.57	N 32 13 27.52	W 103 59 8.63
	7948.00	7.95	316.60	7892.42	-185.64	247.39	-525.30	1.77	445506.05	607482.62	N 32 13 27.61	W 103 59 8.74
	8043.00	5.97	321.00	7986.72	-193.32	256.01	-532.92	2.16	445514.66	607475.00	N 32 13 27.69	W 103 59 8.83
	8137.00	4.40	329.26	8080.33	-199.61	262.90	-537.84	1.85	445521.56	607470.08	N 32 13 27.76	W 103 59 8.89
	8232.00	3.10	339.87	8175.13	-204.80	268.45	-540.59	1.55	445527.11	607467.34	N 32 13 27.82	W 103 59 8.92
	8326.00	1.27	21.40	8269.06	-208.08	271.80	-541.08	2.46	445530.46	607466.84	N 32 13 27.85	W 103 59 8.92
	8421.00	1.82	166.61	8364.04	-207.68	271.32	-540.35	3.11	445529.98	607467.57	N 32 13 27.84	W 103 59 8.91
	8515.00	5.49	179.22	8457.84	-201.82	265.37	-539.94	3.97	445524.03	607467.98	N 32 13 27.79	W 103 59 8.91
	8610.00	7.89	183.85	8552.18	-190.79	254.32	-540.32	2.59	445512.98	607467.61	N 32 13 27.68	W 103 59 8.92
	8705.00	8.46	184.26	8646.22	-177.30	240.84	-541.27	0.60	445499.50	607466.65	N 32 13 27.54	W 103 59 8.93
	8799.00	8.59	187.01	8739.19	-163.37	226.98	-542.64	0.46	445485.64	607465.28	N 32 13 27.41	W 103 59 8.94
	8893.00	8.57	185.31	8832.13	-149.35	213.04	-544.15	0.27	445471.70	607463.77	N 32 13 27.27	W 103 59 8.96
	8988.00	7.03	180.62	8926.25	-136.49	200.17	-544.87	1.75	445458.84	607463.06	N 32 13 27.14	W 103 59 8.97
	9082.00	4.24	182.02	9019.78	-127.30	180.95	-545.05	2.97	445449.61	607462.87	N 32 13 27.05	W 103 59 8.97
	9197.00	3.63	191.23	9134.51	-119.43	193.13	-545.91	0.76	445441.79	607462.01	N 32 13 26.97	W 103 59 8.98
	9291.00	7.69	182.09	9228.04	-110.20	173.92	-546.72	4.41	445432.59	607461.20	N 32 13 26.88	W 103 59 8.99
	9386.00	10.99	179.47	9321.77	-94.87	158.51	-546.87	3.50	445417.18	607461.05	N 32 13 26.73	W 103 59 9.00
	9480.00	13.84	176.48	9413.56	-74.90	138.32	-546.10	3.11	445396.99	607461.83	N 32 13 26.53	W 103 59 8.99
	9575.00	17.58	176.94	9504.99	-49.56	112.65	-544.63	3.94	445371.32	607463.29	N 32 13 26.27	W 103 59 8.97
	9669.00	25.23	181.76	9592.45	-15.55	78.39	-544.49	8.34	445337.07	607463.43	N 32 13 25.94	W 103 59 8.97
	9763.00	30.52	183.10	9675.52	28.27	34.50	-546.40	5.67	445293.18	607461.53	N 32 13 25.50	W 103 59 8.99
	9858.00	29.97	183.56	9757.58	76.04	-13.27	-549.17	0.63	445245.42	607458.75	N 32 13 25.03	W 103 59 9.03
	9920.00	30.59	184.27	9811.13	107.27	-44.45	-551.31	1.15	445214.23	607456.61	N 32 13 24.72	W 103 59 9.05
	10006.00	38.00	186.45	9882.13	155.68	-92.65	-555.92	8.73	445166.04	607452.00	N 32 13 24.24	W 103 59 9.11
	10035.00	44.61	186.02	9903.90	174.81	-111.67	-557.99	22.81	445147.02	607449.93	N 32 13 24.06	W 103 59 9.13
	10130.00	55.08	185.68	9965.08	247.31	-183.80	-565.37	11.02	445074.89	607442.56	N 32 13 23.34	W 103 59 9.22
	10223.00	66.46	183.46	10010.42	328.27	-264.57	-571.73	12.41	444994.13	607436.19	N 32 13 22.54	W 103 59 9.30
	10317.00	80.91	181.82	10036.76	418.03	-354.45	-575.83	15.46	444904.26	607432.09	N 32 13 21.65	W 103 59 9.35
	10410.00	90.38	175.90	10043.82	509.77	-447.01	-573.96	12.00	444811.70	607433.97	N 32 13 20.74	W 103 59 9.33
	10476.00	91.58	176.15	10042.69	574.65	-512.84	-569.38	1.86	444745.88	607438.54	N 32 13 20.09	W 103 59 9.28
	10570.00	91.24	178.22	10040.38	667.36	-606.70	-564.77	2.23	444652.03	607443.16	N 32 13 19.16	W 103 59 9.23
	10664.00	90.07	178.30	10039.30	760.36	-700.64	-561.92	1.25	444558.09	607446.01	N 32 13 18.23	W 103 59 9.20
	10758.00	90.14	180.16	10039.13	853.59	-794.63	-560.65	1.98	444464.11	607447.27	N 32 13 17.30	W 103 59 9.19
	10851.00	89.76	180.01	10039.21	945.99	-887.63	-560.79	0.44	444371.12	607447.13	N 32 13 16.38	W 103 59 9.20
	10945.00	90.07	179.76	10039.35	1039.35	-981.63	-560.60	0.42	444277.13	607447.32	N 32 13 15.45	W 103 59 9.20
	11039.00	89.07	181.29	10040.06	1132.82	-1075.62	-561.46	1.94	444183.15	607446.46	N 32 13 14.52	W 103 59 9.21
	11133.00	90.86	180.99	10040.11	1226.39	-1169.60	-563.33	1.93	444089.18	607444.59	N 32 13 13.59	W 103 59 9.24
	11228.00	89.69	182.63	10039.66	1321.06	-1264.54	-566.33	2.12	443994.24	607441.59	N 32 13 12.65	W 103 59 9.28
	11321.00	89.28	180.81	10040.49	1413.72	-1357.49	-569.12	2.01	443901.29	607438.80	N 32 13 11.73	W 103 59 9.31
	11415.00	90.83	181.48	10040.40	1507.29	-1451.47	-571.00	1.80	443807.32	607436.92	N 32 13 10.80	W 103 59 9.34
	11508.00	90.72	181.27	10039.14	1599.90	-1544.44	-573.23	0.25	443714.37	607434.69	N 32 13 9.88	W 103 59 9.37
	11602.00	90.45	181.74	10038.19	1693.53	-1638.40	-575.70	0.58	443620.41	607432.22	N 32 13 8.95	W 103 59 9.40
	11696.00	90.86	182.27	10037.11	1787.22	-1732.33	-578.99	0.71	443526.48	607428.93	N 32 13 8.02	W 103 59 9.44
	11791.00	89.00	180.54	10037.23	1881.83	-1827.30	-581.32	2.67	443431.53	607426.61	N 32 13 7.08	W 103 59 9.47
	11884.00	93.30	181.59	10035.36	1974.36	-1920.24	-583.05	4.76	443338.59	607424.88	N 32 13 6.16	W 103 59 9.49
	11978.00	92.72	178.40	10030.42	2067.60	-2014.10	-583.04	3.44	443244.74	607424.89	N 32 13 5.23	W 103 59 9.50
	12073.00	91.79	178.52	10026.69	2161.57	-2108.99	-580.49	0.99	443149.86	607427.44	N 32 13 4.29	W 103 59 9.47
	12156.00	89.79	179.70	10025.54	2243.86	-2191.97	-579.20	2.80	443066.89	607428.73	N 32 13 3.47	W 103 59 9.46
	12261.00	89.83	179.71	10025.89	2348.10	-2296.96	-578.66	0.04	442961.90	607429.27	N 32 13 2.43	W 103 59 9.46
	12355.00	89.90	180.18	10026.11	2441.47	-2390.96	-578.57	0.51	442867.91	607429.36	N 32 13 1.50	W 103 59 9.46
	12449.00	89.52	178.93	10026.59	2534.77	-2484.96	-577.84	1.39	442773.92	607430.09	N 32 13 0.57	W 103 59 9.45
	12542.00	89.69	179.25	10027.23	2626.97	-2577.94	-576.36	0.39	442680.94	607431.56	N 32 12 59.65	W 103 59 9.44
	12636.00	90.14	178.57	10027.37	2720.13	-2671.93	-574.57	0.87	442586.97	607433.35	N 32 12 58.72	W 103 59 9.42
	12730.00	89.83	178.95	10027.39	2813.26	-2765.90	-572.54	0.52	442493.00	607435.39	N 32 12 57.79	W 103 59 9.40
	12825.00	89.72	178.87	10027.76	2907.41	-2860.88	-570.73	0.14	442398.02	607437.19	N 32 12 56.85	W 103 59 9.39
	12919.00	90.14	178.79	10027.88	3000.55	-2954.86	-568.81	0.45	442304.05	607439.11	N 32 12 55.92	W 103 59 9.37
	13013.00	90.45	179.98	10027.40	3093.81	-3048.86	-567.80	1.31	442210.07	607440.12	N 32 12 54.99	W 103 59 9.36
	13107.00	90.14	179.26	10026.91	3187.12	-3142.85	-567.18	0.83	442116.08	607440.74	N 32 12 54.06	W 103 59 9.36
	13200.00	90.00	178.99	10026.80	3279.33	-3235.84	-565.76	0.33	442023.10	607442.16	N 32 12 53.14	W 103 59 9.34
	13292.00	90.28	179.33	10026.57	3370.56	-3327.83	-564.41	0.48	441931.11	607443.51	N 32 12 52.23	W 103 59 9.33
	13384.00	90.34	179.99	10026.08	3461.89	-3419.83	-563.87	0.72	441839.12	607444.06	N 32 12 51.32	W 103 59 9.33
	13476.00	89.31	178.74	10026.36	3553.16	-3511.82	-562.85	1.76	441747.14	607445.08	N 32 12 50.41	W 103 59 9.32
	13570.00	89.35	179.10	10027.46	3646.32	-3605.80	-561.07	0.39	441653.17	607446.85	N 32 12 49.48	W 103 59 9.30
	13663.00	89.38	179.19	10028.49	3738.53	-3698.78	-559.69	0.10	441560.20	607448.24	N 32 12 48.56	W 103 59 9.29
	13757.00	90.65	179.75	10028.46	3831.81	-3792.77	-558.82	1.48	441466.21	607449.11	N 32 12 47.63	W 103 59 9.28
	13851.00	90.65	179.31	10027.40	3925.09	-3886.76	-558.05	0.47	441372.23	607449.88	N 32 12 46.70	W 103 59 9.28
	13945.00	91.41	179.44	10025.71	4018.34	-3980.74	-557.02	0.82	441278.25	607450.90	N 32 12 45.77	W 103 59 9.27
	14040.00	90.89	178.91	10023.80	4112.53	-4075.71	-555.65	0.78	441183.29	607452.27	N 32 12 44.83	W 103 59 9.26
	14133.00	88.83	179.04	10024.03	4204.71	-4168.69	-553.99	2.22	441090.32	607453.93	N 32 12 43.91	W 103 59 9.24
	14227.00	88.49	178.75	10026.22	4297.84	-4262.65	-552.18	0.48	440996.37	607455.75	N 32 12 42.98	W 103 59 9.22
	14322.00	89.28	178.63	10028.07	4391.92	-4357.60	-550.01	0.84	440901.42	607457.92	N 32 12 42.04	W 103 59 9.20
	14415.00	89.00	179.65	10029.47	4484.13	-4450.58	-548.61	1.14	440808.45	607459.31	N 32 12 41.12	W 103 59 9.19
	14509.00	89.21	177.78	10030.94	4577.23	-4544.54	-546.50	2.00	440714.50	607461.42	N 32 12 40.19	W 103 59 9.17
	14604.00	89.48	178.94	10032.02	4671.25	-4639.50	-543.78	1.25	440619.55	607464.14	N 32 12 39.25	W 103 59 9.14
Final MWD	14657.00	88.90	179.09	10032.77	4723.78	-4692.48	-542.87	1.13	440566.57	607465.05	N 32 12 3	

OXY-USA Inc.
Cedar Canyon 16 State 33H
API No. 30-015-43844

14-3/4" hole @ 460'
10-3/4" csg @ 447'
w/ 252sx-TOC-Surf Circ.

9-7/8" hole @ 9975'
7-5/8" csg @ 9962'
w/ 2514sx-TOC-45' TS

6-3/4" hole @ 14695'
4-1/2" liner @ 9841-14678'
w/ 542sx-TOC- 9841' Circ.

Perfs @ 10100-14518' TD- 14695'M 10034'V