

Reservoir Development
Schlumberger Drilling and Measurements
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519



to 5-31-16

November 23, 2015

OXY USA INCORPORATED
5 GREENWAY PLAZA STE 110
HOUSTON, TX 77046-0521

Re:

Sec 28 T24S R29E NESE 1760FSL 240FEL
N 32.18580 W 103.98123

CLIENT: OXY USA INCORPORATED
WELL: Cedar Canyon 28 Federal 7H
FIELD: Pierce Crossing BS, E.
RIG: H&P 615
COUNTY: Eddy
API NO: 30-015-43238
JOB NO: 15MLD2440

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, a division of Schlumberger Technology Corporation.
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>
Kurt Valentine MWD	Cedar Canyon 28 Federal 7H Original Hole	8098.00 Ft to 13410.00 Ft	November 16, 2015 to November 21, 2015	SlimPulse

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

Alex Paharsingh
Field Service Manager

Reservoir Development
Schlumberger Drilling and Measurements
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519



Well Reference:

Sec 28 T24S R29E NESE 1760FSL 240FEL
N 32.18580 W 103.98123

I, Kurt Valentine certify that; I am employed by Schlumberger Drilling and Measurements; that I did on the day(s) of November 16, 2015 through November 21, 2015, conduct or supervise the taking of the SlimPulse surveys from a depth of 8098.00 feet to a depth of 13410.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Schlumberger Drilling and Measurements; that I am authorized and qualified to make this report; that this survey W71 request of OXY USA INCORPORATED for the Cedar Canyon 28 Federal 7H Well API No. 30-015-43238 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Schlumberger Drilling and Measurements.

By
Kurt Valentine
MWD

signed by

on behalf of Kurt
Valentine

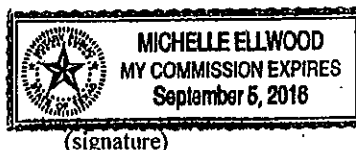
Subscribed and Sworn to before me this 18th day of December (month) 2015 (yr)

My Commission expires:

September 5, 2016

Michelle Ellwood
Notary Public

Midland, TX
(County State)



(signature)

SCHLUMBERGER

Survey Report

23-Nov-2015

Client.....: OXY USA INC

Field.....: Pierce Crossing BS, E.

Well.....: Cedar Canyon 28 Federal 7

API number.....: 30-015-43238

Engineer.....: K.Valentine

Spud date.....: 12-Sep-15

Last survey date.....: 21-Nov-15

Total accepted surveys.....: 55

MD of first survey.....: 8098.00 ft

MD of last survey.....: 13410.00 ft

County.....: Eddy

State.....: New Mexico

Rig.....: H&P 615

Latitude.....: 32° 11' 8.896" N

Longitude.....: 103° 58' 52.423" W

---- Survey calculation methods ----

Method for positions.....: Minimum curvature

Method for DLS.....: Lubinski

---- Depth reference ----

Permanent datum.....: MSL

Depth reference.....: Driller's Depth

GL above permanent.....: 2924.50

KB above permanent.....: 2951.00

OF above permanent.....: 2951.00

---- Vertical section origin ----

Latitude (+N/-).....: 0.00 ft

Departure (+E/-).....: 0.00 ft

---- Grid Coordinates ----

NAD27 Texas State Plane, Central Zone, US Feet

X.....: 608930.21 ft

Y.....: 431494.22 ft

Azimuth from Vsect Origin to target: 259.87 degrees

----- MWD Survey Reference Criteria -----

----Run1---- Calculation Date: 16-Nov-2015

Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn

Location B.....: 48338.1 nT Tolerance B.....: 300.00 nT

Magnetic Dip: 60.044 degrees Tolerance Dip: 0.45 degrees

----Run2---- Calculation Date: 18-Nov-2015

Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn

Location B.....: 48337.52 nT Tolerance B.....: 300.00 nT

Magnetic Dip: 60.044 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2015

----Run1----

Magnetic dec (+E/-).....: 7.2761 degrees

Grid Conv (+E/-).....: 0.1861 degrees

Total Azim Corr (+E/-).....: 7.09 degrees

----Run2----

Magnetic dec (+E/-).....: 7.2756 degrees

Grid Conv (+E/-).....: 0.1856 degrees

Total Azim Corr (+E/-).....: 7.09 degrees

----- Survey Correction Index Description -----

0 = Uncorrected 1 = Sag Corrected

2 = DMAG Corrected 3 = Sag + DMAG Corrected 7 = Proj. to bit

===== Survey List =====

Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
1	0.00	0.00	0.00	-999.25	0.00	0.00	0.00	0.00	0	90.00	0.00	TIP	0
2	435.00	1.72	256.89	435.00	434.93	6.52	-1.48	-6.36	6.53	256.89	0.40	Other	14
3	500.00	1.98	256.89	65.00	499.90	8.62	-1.96	-8.40	8.63	256.89	0.40	Other	14
4	537.00	1.78	245.68	37.00	536.88	9.81	-2.34	-9.55	9.83	256.24	1.13	Other	14
5	628.00	1.76	246.83	91.00	627.84	12.54	-3.47	-12.12	12.61	254.02	0.04	Other	14
6	718.00	1.15	224.79	90.00	717.81	14.63	-4.66	-14.03	14.78	251.64	0.91	Other	14
7	901.00	0.87	62.32	183.00	900.80	14.81	-5.31	-14.09	15.06	249.34	1.09	Other	14
8	995.00	0.89	49.45	94.00	994.79	13.50	-4.51	-12.90	13.67	250.75	0.21	Other	14
9	1090.00	0.79	22.23	95.00	1089.78	12.51	-3.42	-12.10	12.57	254.21	0.43	Other	14
10	1184.00	0.35	20.97	94.00	1183.77	12.01	-2.55	-11.75	12.02	257.74	0.47	Other	14

11	1278.00	0.53	18.17	94.00	1277.77	11.66	-1.87	-11.51	11.66	260.76	0.19	Other	14
12	1372.00	0.35	349.61	94.00	1371.77	11.46	-1.18	-11.43	11.49	264.12	0.30	Other	14
13	1466.00	0.31	324.68	94.00	1465.77	11.56	-0.69	-11.63	11.65	266.62	0.16	Other	14
14	1560.00	1.09	2.80	94.00	1559.76	11.47	0.41	-11.73	11.74	272.02	0.92	Other	14
15	1655.00	1.32	346.61	95.00	1654.74	11.33	2.38	-11.94	12.17	281.28	0.43	Other	14
16	1749.00	0.92	235.96	94.00	1748.73	12.08	3.01	-12.81	13.16	283.23	1.97	Other	14
17	1843.00	3.35	29.28	94.00	1842.68	11.03	4.99	-12.10	13.08	292.40	4.46	Other	14
18	1938.00	4.04	20.89	95.00	1937.49	7.54	10.53	-9.54	14.21	317.82	0.92	Other	14
19	2032.00	1.38	347.86	94.00	2031.38	5.88	14.73	-8.60	17.06	329.72	3.17	Other	14
20	2126.00	1.32	6.46	94.00	2125.35	5.61	16.92	-8.72	19.03	332.74	0.47	Other	14
21	2220.00	1.31	46.91	94.00	2219.33	4.40	18.73	-7.81	20.29	337.36	0.97	Other	14
22	2314.00	0.59	213.10	94.00	2313.32	3.83	19.06	-7.29	20.4	339.06	2.01	Other	14
23	2408.00	1.11	30.67	94.00	2407.32	3.56	19.43	-7.09	20.69	339.95	1.81	Other	14
24	2502.00	0.61	45.80	94.00	2501.31	2.55	20.57	-6.27	21.5	343.05	0.58	Other	14
25	2596.00	0.76	121.77	94.00	2595.30	1.67	20.59	-5.38	21.28	345.36	0.91	Other	14
26	2690.00	0.44	229.05	94.00	2689.30	1.52	20.02	-5.12	20.67	345.65	1.05	Other	14
27	2785.00	0.88	259.10	95.00	2784.29	2.56	19.64	-6.11	20.57	342.71	0.57	Other	14
28	2879.00	1.32	305.54	94.00	2878.28	4.04	20.14	-7.70	21.56	339.07	1.02	Other	14
29	2973.00	1.63	194.81	94.00	2972.26	5.36	19.47	-8.93	21.42	335.37	2.59	Other	14
30	3067.00	0.44	58.19	94.00	3066.25	5.59	18.37	-8.96	20.44	334.00	2.10	Other	14
31	3161.00	0.53	116.11	94.00	3160.24	4.90	18.37	-8.26	20.14	335.78	0.51	Other	14
32	3255.00	0.44	354.54	94.00	3254.24	4.52	18.54	-7.91	20.15	336.90	0.90	Other	14
33	3442.00	6.04	198.47	187.00	3440.92	9.18	9.91	-11.10	14.88	311.77	3.45	Other	14
34	3536.00	6.88	198.70	94.00	3534.32	14.26	-0.11	-14.47	14.47	269.56	0.89	Other	14
35	3630.00	8.26	191.30	94.00	3627.50	19.44	-12.07	-17.60	21.34	235.56	1.79	Other	14
36	3724.00	10.40	180.54	94.00	3720.26	23.48	-27.17	-19.00	33.16	214.96	2.93	Other	14
37	3818.00	11.96	158.83	94.00	3812.51	23.19	-44.75	-15.56	47.38	199.17	4.74	Other	14
38	3912.00	12.16	153.74	94.00	3904.44	18.57	-62.71	-7.66	63.18	186.97	1.15	Other	14
39	4006.00	11.45	150.20	94.00	3996.45	17.68	-79.69	1.35	79.7	179.03	1.08	Other	14
40	4100.00	9.61	151.45	94.00	4088.87	7.06	-94.68	9.74	95.18	174.13	1.97	Other	14
41	4194.00	13.16	162.98	94.00	4181.01	3.30	-111.81	16.63	113.04	171.54	4.47	Other	14
42	4288.00	13.07	162.10	94.00	4272.56	0.57	-132.15	23.03	134.15	170.12	0.23	Other	14
43	4382.00	14.02	157.55	94.00	4363.95	-3.29	-152.79	30.64	155.83	168.66	1.52	Other	14
44	4476.00	13.49	157.09	94.00	4455.25	-8.15	-173.42	39.26	177.8	167.24	0.58	Other	14
45	4570.00	12.43	156.04	94.00	4546.86	-12.99	-192.76	47.63	198.56	166.12	1.16	Other	14
46	4664.00	11.46	155.86	94.00	4638.82	-17.67	-210.53	55.56	217.74	165.22	1.03	Other	14
47	4758.00	11.81	157.62	94.00	4730.89	-21.97	-227.94	63.04	236.5	164.54	0.53	Other	14
48	4853.00	12.69	156.56	95.00	4823.73	-26.44	-246.51	70.90	256.5	163.95	0.96	Other	14
49	4892.00	11.70	157.77	39.00	4861.85	-28.25	-254.10	74.10	264.68	163.74	2.62	Other	14
50	4986.00	9.87	167.39	94.00	4954.19	-30.60	-270.78	79.46	282.2	163.65	2.72	Other	14
51	5080.00	9.01	169.15	94.00	5046.92	-31.04	-285.88	82.61	297.57	163.88	0.96	Other	14
52	5174.00	8.29	169.61	94.00	5139.85	-31.17	-299.77	85.21	311.55	164.13	0.77	Other	14
53	5265.00	8.02	168.91	91.00	5229.92	-31.30	-312.45	87.62	324.51	164.34	0.32	Other	14
54	5362.00	8.28	167.28	97.00	5325.95	-31.73	-325.91	90.46	338.23	164.49	0.36	Other	14
55	5456.00	8.25	167.27	94.00	5418.97	-32.34	-339.09	93.43	351.72	164.59	0.03	Other	14
56	5550.00	7.52	166.46	94.00	5512.08	-33.02	-351.65	96.36	364.61	164.68	0.79	Other	14
57	5644.00	7.23	165.38	94.00	5605.30	-33.84	-363.35	99.29	376.67	164.72	0.34	Other	14
58	5738.00	7.11	165.88	94.00	5698.57	-34.71	-374.71	102.20	388.4	164.74	0.14	Other	14
59	5832.00	9.11	163.84	94.00	5791.62	-35.90	-387.51	105.70	401.66	164.74	2.15	Other	14
60	5926.00	9.70	162.64	94.00	5884.36	-37.68	-402.21	110.13	417.02	164.69	0.66	Other	14
61	6020.00	9.51	161.89	94.00	5977.04	-39.75	-417.15	114.91	432.69	164.60	0.24	Other	14
62	6114.00	9.34	161.85	94.00	6069.77	-41.90	-431.78	119.70	448.06	164.51	0.18	Other	14
63	6209.00	9.14	160.95	95.00	6163.54	-44.14	-446.24	124.56	463.29	164.40	0.26	Other	14
64	6303.00	8.89	159.96	94.00	6256.38	-46.55	-460.12	129.49	477.99	164.28	0.31	Other	14
65	6397.00	8.83	159.00	94.00	6349.26	-49.16	-473.68	134.56	492.42	164.14	0.17	Other	14
66	6491.00	8.29	158.47	94.00	6442.21	-51.86	-486.72	139.63	506.35	163.99	0.58	Other	14
67	6585.00	8.31	171.54	94.00	6535.23	-53.00	-499.74	143.12	519.83	164.02	2.00	Other	14
68	6679.00	8.51	174.31	94.00	6628.22	-52.27	-513.38	144.81	533.41	164.25	0.48	Other	14
69	6774.00	7.80	169.20	95.00	6722.26	-51.80	-526.71	146.71	546.76	164.43	1.07	Other	14
70	6868.00	6.82	170.41	94.00	6815.50	-51.82	-538.48	148.84	558.67	164.55	1.06	Other	14
71	6962.00	5.31	174.62	94.00	6908.97	-51.41	-548.31	150.18	568.5	164.68	1.67	Other	14
72	7056.00	4.01	182.62	94.00	7002.66	-50.32	-555.92	150.43	575.92	164.86	1.54	Other	14
73	7151.00	2.97	181.27	95.00	7097.48	-49.10	-561.70	150.23	581.44	165.03	1.10	Other	14
74	7244.00	2.14	192.33	93.00	7190.39	-47.96	-565.81	149.80	585.3	165.17	1.03	Other	14
75	7338.00	2.60	200.67	94.00	7284.31	-46.20	-569.52	148.68	588.6	165.37	0.61	Other	14
76	7433.00	2.54	209.43	95.00	7379.21	-43.76	-573.37	146.88	591.88	165.63	0.42	Other	14
77	7527.00	2.38	200.04	188.00	7567.04	-39.14	-580.66	143.50	598.13	166.12	0.23	Other	14
78	7715.00	3.16	209.94	94.00	7660.93	-36.49	-584.74	141.53	601.63	166.39	0.97	Other	14
79	7809.00	3.42	227.91	94.00	7754.78	-32.45	-588.87	138.16	604.86	166.80	1.13	Other	14
80	7903.00	3.16	235.07	94.00	7848.62	-27.72	-592.23	133.96	607.19	167.25	0.52	Other	14
81	7964.00	3.16	240.92	61.00	7909.53	-24.60	-594.01	131.11	608.31	167.55	0.53	Other	14
82	8098.00	11.28	238.28	134.00	8042.36	-8.90	-602.71	116.71	613.9	169.04	6.06	SlimPulse	0
83	8191.00	19.88	250.01	93.00	8131.88	15.19	-612.91	94.07	620.09	171.27	9.81	SlimPulse	0
84	8285.00	23.94	245.34	94.00	8219.07	49.42	-626.34	61.70	629.37	174.37	4.70	SlimPulse	0
85	8378.00	32.29	225.09	93.00	8301.21	88.25	-651.86	26.81	652.41	177.64	13.53	SlimPulse	0
86	8472.00	40.66	228.91	94.00	8376.74	135.22	-689.78	-14.13	689.93	181.17	9.21	SlimPulse	0
87	8565.00	40.88	222.69	93.00	8447.21	185.46	-732.08	-57.61	734.34	184.50	4.38	SlimPulse	0
88	8659.00	49.68	235.22	94.00	8513.42	242.76	-775.30	-108.10	782.8	187.94	13.29	SlimPulse	0
89	8738.00	53.73	245.23	79.00	8562.44	301.06	-805.88	-161.85	821.98	191.36	11.18	SlimPulse	0
90	8832.00	53.93	253.64	94.00	8617.99	375.57	-832.49	-232.80	864.43	195.62	7.22	SlimPulse	0
91	8926.00	65.84	262.26	94.00	8665.14	456.59	-849.05	-312.13	904.61	200.18	14.93	SlimPulse	0
92	9019.00	78.67	271.17	93.00	8693.48	544.21	-853.86	-400.29	943.03	205.12	16.53	SlimPulse	0
93	9112.00	84.07	270.09	93.00	8707.42	634.51	-852.85	-492.19	984.69	209.99	5.92	SlimPulse	0

94	9206.00	88.66	270.14	94.00	8713.38	726.80	-852.66	-585.98	1034.6	214.50	4.88	SlimPulse	0
95	9298.00	90.48	270.12	92.00	8714.07	817.32	-852.45	-677.97	1089.18	218.50	1.98	SlimPulse	0
96	9392.00	92.00	269.52	94.00	8712.04	909.88	-852.75	-771.95	1150.25	222.15	1.73	SlimPulse	0
97	9486.00	88.80	269.78	94.00	8711.39	1002.50	-853.32	-865.93	1215.73	225.42	3.42	SlimPulse	0
98	9580.00	89.41	269.15	94.00	8712.86	1095.18	-854.20	-959.91	1284.95	228.33	0.94	SlimPulse	0
99	9673.00	90.86	268.89	93.00	8712.63	1186.99	-855.80	-1052.90	1356.83	230.90	1.58	SlimPulse	0
100	9767.00	92.10	269.03	94.00	8710.21	1279.78	-857.51	-1146.85	1431.99	233.21	1.33	SlimPulse	0
101	9861.00	92.20	268.02	94.00	8706.68	1372.64	-859.93	-1240.75	1509.62	235.28	1.08	SlimPulse	0
102	9955.00	89.79	267.96	94.00	8705.04	1465.68	-863.23	-1334.67	1589.5	237.11	2.56	SlimPulse	0
103	10048.00	89.48	267.28	93.00	8705.63	1557.83	-867.10	-1427.59	1670.29	238.73	0.80	SlimPulse	0
104	10141.00	96.07	267.57	93.00	8701.13	1649.86	-871.27	-1520.33	1752.29	240.18	7.09	SlimPulse	0
105	10234.00	92.48	269.54	93.00	8694.20	1741.52	-873.60	-1613.03	1834.4	241.56	4.40	SlimPulse	0
106	10421.00	91.31	269.67	187.00	8688.02	1925.73	-874.89	-1799.92	2001.28	244.08	0.63	SlimPulse	0
107	10514.00	92.00	271.59	93.00	8685.34	2017.05	-873.87	-1892.87	2084.85	245.22	2.70	SlimPulse	0
108	10607.00	92.96	273.16	93.00	8681.32	2107.75	-870.01	-1985.70	2167.93	246.34	1.97	SlimPulse	0
109	10700.00	93.89	273.07	93.00	8675.76	2198.12	-864.97	-2078.39	2251.2	247.40	1.01	SlimPulse	0
110	10793.00	92.62	273.05	93.00	8670.49	2288.52	-860.02	-2171.11	2335.24	248.39	1.37	SlimPulse	0
111	10887.00	89.35	275.83	94.00	8668.88	2379.46	-852.74	-2264.79	2420.01	249.37	4.57	SlimPulse	0
112	10980.00	92.58	273.21	93.00	8667.31	2469.40	-845.41	-2357.47	2504.47	250.27	4.48	SlimPulse	0
113	11074.00	91.72	271.11	94.00	8663.78	2561.18	-841.87	-2451.33	2591.86	251.05	2.42	SlimPulse	0
114	11169.00	91.65	269.60	95.00	8660.99	2654.55	-841.29	-2546.28	2681.66	251.72	1.59	SlimPulse	0
115	11262.00	92.24	268.09	93.00	8657.83	2746.36	-843.16	-2639.21	2770.62	252.28	1.73	SlimPulse	0
116	11356.00	92.41	267.67	94.00	8654.02	2839.36	-846.63	-2733.07	2861.19	252.79	0.48	SlimPulse	0
117	11450.00	90.17	271.41	94.00	8651.90	2931.98	-847.38	-2827.02	2951.28	253.31	4.63	SlimPulse	0
118	11543.00	91.10	273.60	93.00	8650.87	3022.71	-843.31	-2919.91	3039.26	253.89	2.56	SlimPulse	0
119	11636.00	91.10	276.38	93.00	8649.08	3112.47	-835.23	-3012.54	3126.18	254.50	2.98	SlimPulse	0
120	11730.00	90.69	274.15	94.00	8647.62	3203.08	-826.60	-3106.12	3214.23	255.10	2.41	SlimPulse	0
121	11823.00	90.34	273.90	93.00	8646.78	3293.25	-820.07	-3198.89	3302.33	255.62	0.46	SlimPulse	0
122	11917.00	92.69	268.26	94.00	8644.29	3385.38	-818.30	-3292.79	3392.95	256.04	6.49	SlimPulse	0
123	12011.00	92.51	267.53	94.00	8640.03	3478.37	-821.75	-3386.63	3484.9	256.36	0.80	SlimPulse	0
124	12105.00	93.51	266.58	94.00	8635.09	3571.50	-826.57	-3480.38	3577.18	256.64	1.46	SlimPulse	0
125	12199.00	89.76	266.27	94.00	8632.41	3664.83	-832.43	-3574.14	3669.8	256.89	4.01	SlimPulse	0
126	12292.00	94.89	268.46	93.00	8628.64	3756.92	-836.71	-3666.93	3761.17	257.15	6.00	SlimPulse	0
127	12386.00	92.79	265.85	94.00	8622.34	3849.94	-841.37	-3760.59	3853.56	257.39	3.56	SlimPulse	0
128	12574.00	87.69	268.30	188.00	8621.55	4036.38	-850.97	-3948.26	4038.93	257.84	3.01	SlimPulse	0
129	12668.00	91.27	268.95	94.00	8622.40	4129.27	-853.22	-4042.22	4131.28	258.08	3.87	SlimPulse	0
130	12762.00	91.38	266.78	94.00	8620.23	4222.32	-856.73	-4136.12	4223.92	258.30	2.30	SlimPulse	0
131	12855.00	91.38	264.86	93.00	8617.99	4314.79	-863.50	-4228.84	4316.1	258.46	2.06	SlimPulse	0
132	13041.00	87.97	266.28	186.00	8619.05	4499.84	-877.85	-4414.25	4500.69	258.75	1.98	SlimPulse	0
133	13134.00	93.62	266.64	93.00	8617.77	4592.18	-883.59	-4507.03	4592.83	258.91	6.08	SlimPulse	0
134	13228.00	93.30	269.12	94.00	8612.09	4685.08	-887.07	-4600.79	4685.52	259.09	2.66	SlimPulse	0
135	13322.00	95.13	271.68	94.00	8605.18	4777.24	-886.41	-4694.52	4777.47	259.31	3.34	SlimPulse	0
136	13410.00	94.41	269.68	88.00	8597.86	4863.37	-885.38	-4782.20	4863.47	259.51	2.41	SlimPulse	0
137	13460.00	94.41	269.68	50.00	8594.01	4912.50	-885.65	-4832.05	4912.55	259.61	0.00	Proj. to bit	7



H&P 615

[illegible]NS (ft) Scale $\approx 1:150$ (ft)

Tot Cost (M-2G 7,005")
 Mfg Dec 17, 2007
 Grid Comp #0.1487

TVD (ft) Scale = 1:150(ft)

7500
8000
8500

Contents

Survey Method: Inclusion/exclusion

Critical Points

Longitude(deg) Easting(11US):

S) Closure Azimutal

Tool Fabricating

EW (ft) Scale = 1:150(ft)

TV-D Target +/- 15 ft

Vertical Section (ft) Azim = 259.871° Scale = 1:150(ft) Origin = 0N/-S, 0E/-W

OXY USA INC.
Cedar Canyon 28 Federal #7H
API No. 30-015-43238

14-3/4" hole @ 435'
10-3/4" csg @ 435'
w/ 440sx-TOC-Surf-Circ.

NM OIL CONSERVATION
ARTESTA DISTRICT

MAY 03 2016

RECEIVED

9-7/8" hole @ 8020'
7-5/8" csg @ 8010'
w/ 2425sx-TOC-Surf-Circ.
DVT @ 3027'

6-3/4" hole @ 13460'
5-1/2" X 4-1/2" csg @ 13447'
w/ 610sx-TOC-4000' CBL

Perfs @ 9001-13285'

TD- 13460'M 8594'V