

Oilfield Services, Central U.S. Land

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

PATHFINDER
A Schlumberger Company

November 10, 2015

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 30 2015

RECEIVED

OXY USA INC.
5 Greenway Plaza, Suite 110
HOUSTON, TX 77046-0521

Re:

Sec 28, T24S, R29E Eddy NM
32.185611 N, 103.997009 W

CLIENT: OXY USA INC.
WELL: CEDAR CANYON 28 FEDERAL 6H
FIELD: PIERCE CROSSING; BONE SPRING, EAST
RIG: H&P 615
COUNTY: EDDY
API NO: 30-015-43234
JOB NO: 15MLD1908

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, 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>
Kane Junmanee FE	CEDAR CANYON 28 FEDERAL 6H Original Hole	498.00 Ft to 13204.00 Ft	October 7, 2015 to November 6, 2015	TelePacer & SlimPulse

A plat of the bottom hole location is oriented both to the surface location and to the lease lines (or until line in case of pooling), is attached to the survey report.

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

Alexander Paharsingh
Field Service Manager

CC: OXY USA INC.
Enclosures: [2]
County of EDDY
State of NEW MEXICO

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

I, Kane Junmanee certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 07, 2015 through November 06, 2015, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 498.00 feet to a depth of 13204.00 feet; 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 28 FEDERAL 6H Well (Original Hole) API No. 30-015-43234 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.



Kane Junmanee
FE

SCHLUMBERGER

Survey Report

7-Nov-2015

Client.....: OXY USA INC.
 Field.....: PIERCE CROSSING; BONE SPRING, EAST

Well.....: Cedar Canyon 28 Federal 6H
 API number.....: 30-015-43234
 Engineer.....: Kane Junmanee

Spud date.....: 7-Oct-15
 Last survey date.....: 6-Nov-15
 Total accepted surveys.....: 130
 MD of first survey.....: 498.00 ft
 MD of last survey.....: 13204.00 ft

County.....: Eddy
 State.....: New Mexico
 Rig.....: H&P 615

Latitude.....: 32° 11' 9.49" N
 Longitude.....: 103° 58' 52.42" 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.....: 2924.80
 KB above permanent.....: 2951.30
 DF above permanent.....: 2951.30

----- Vertical section origin -----

Latitude (+N/-S).....: 0.00 ft
 Departure (+E/-W).....: 0.00 ft

----- Grid Coordinates -----

NAD27 New Mexico State Plane, Eastern Zone, US Feet
 X.....: 431554.22 ft
 Y.....: 608930.24 ft

Azimuth from Vsect Origin to target: 268.26 degrees

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

-----Run1----- Calculation Date: 2-Nov-2015
 Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
 Location B.....: 48342.25 nT Tolerance B.....: 300.00 nT
 Magnetic Dip: 60.0447 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 4-Nov-2015
 Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
 Location B.....: 48341.66 nT Tolerance B.....: 300.00 nT
 Magnetic Dip: 60.0446 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2015

-----Run1-----

Magnetic dec (+E/-W).....: 7.2803 degrees
 Grid Conv (+E/-W).....: 0.1903 degrees
 Total Azim Corr (+E/-W).....: 7.09 degrees

-----Run2-----

Magnetic dec (+E/-W).....: 7.2797 degrees
 Grid Conv (+E/-W).....: 0.1897 degrees
 Total Azim Corr (+E/-W).....: 7.09 degrees

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

0 = Uncorrected 1 = Sag Corrected
 2 = DMAG Corrected 3 = Sag + DMAG Corrected

===== 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	26.50	0.00	0.00	26.50	26.50	0.00	0.00	0.00	0	90.00	0.00	GL	0
3	498.00	0.53	4.02	471.50	497.99	-0.22	2.18	0.15	2.18	4.02	0.11	TelePacer	0
4	589.00	0.09	94.80	91.00	588.99	-0.33	2.59	0.25	2.6	5.59	0.59	TelePacer	0
5	679.00	0.18	265.24	90.00	678.99	-0.26	2.57	0.18	2.58	4.07	0.30	TelePacer	0
6	771.00	0.09	317.61	92.00	770.99	-0.07	2.61	-0.01	2.61	359.79	0.16	TelePacer	0
7	862.00	0.18	118.12	91.00	861.99	-0.15	2.60	0.07	2.6	1.51	0.29	TelePacer	0
8	953.00	0.18	336.06	91.00	952.99	-0.22	2.66	0.14	2.67	2.93	0.37	TelePacer	0
9	1044.00	0.18	120.57	91.00	1043.99	-0.28	2.72	0.20	2.73	4.24	0.38	TelePacer	0
10	1233.00	0.18	205.45	189.00	1232.99	-0.40	2.30	0.33	2.32	8.15	0.13	TelePacer	0
11	1302.00	1.49	72.37	69.00	1301.98	-1.21	2.47	1.14	2.72	24.70	2.35	TelePacer	0
12	1327.00	2.20	72.26	25.00	1326.97	-1.99	2.72	1.90	3.32	35.01	2.84	TelePacer	0

13	1421.00	6.86	71.12	94.00	1420.65	-9.09	5.09	8.94	10.28	60.36	4.96	TelePacer	0
14	1515.00	10.11	72.34	94.00	1513.61	-22.39	9.41	22.12	24.03	66.96	3.46	TelePacer	0
15	1609.00	8.53	68.17	94.00	1606.37	-36.87	14.50	36.45	39.23	68.30	1.83	TelePacer	0
16	1704.00	8.53	61.36	95.00	1700.32	-49.77	20.50	49.17	53.28	67.37	1.06	TelePacer	0
17	1798.00	9.23	54.38	94.00	1793.19	-62.25	28.23	61.42	67.6	65.31	1.37	TelePacer	0
18	1892.00	8.79	46.11	94.00	1886.04	-73.83	37.60	72.73	81.87	62.66	1.45	TelePacer	0
19	1944.00	7.65	45.39	52.00	1937.50	-79.32	42.79	78.05	89.01	61.27	2.20	TelePacer	0
20	1986.00	6.86	45.41	42.00	1979.17	-83.20	46.51	81.83	94.12	60.39	1.88	TelePacer	0
21	2081.00	3.96	43.28	95.00	2073.73	-89.68	52.88	88.12	102.77	59.03	3.06	TelePacer	0
22	2175.00	1.23	62.41	94.00	2167.63	-92.89	55.72	91.24	106.91	58.59	3.01	TelePacer	0
23	2269.00	1.67	85.86	94.00	2261.60	-95.17	56.28	93.50	109.13	58.95	0.78	TelePacer	0
24	2363.00	2.46	87.34	94.00	2355.54	-98.55	56.47	96.88	112.14	59.76	0.84	TelePacer	0
25	2457.00	3.96	80.93	94.00	2449.39	-103.79	57.08	102.10	116.97	60.79	1.64	TelePacer	0
26	2551.00	1.32	87.45	94.00	2543.28	-108.09	57.64	106.39	121	61.55	2.82	TelePacer	0
27	2645.00	0.35	114.36	94.00	2637.27	-109.43	57.57	107.73	122.15	61.88	1.09	TelePacer	0
28	2739.00	0.44	144.61	94.00	2731.27	-109.89	57.16	108.20	122.37	62.16	0.24	TelePacer	0
29	2833.00	0.35	311.35	94.00	2825.27	-109.88	57.05	108.20	122.32	62.20	0.83	TelePacer	0
30	2927.00	0.62	49.45	94.00	2919.26	-110.07	57.57	108.37	122.71	62.02	0.80	TelePacer	0
31	3115.00	0.18	67.43	188.00	3107.26	-111.13	58.35	109.41	124	61.93	0.24	TelePacer	0
32	3209.00	0.09	97.00	94.00	3201.26	-111.35	58.39	109.62	124.21	61.96	0.12	TelePacer	0
33	3303.00	0.18	192.55	94.00	3295.26	-111.38	58.24	109.67	124.17	62.03	0.22	TelePacer	0
34	3491.00	0.26	248.48	188.00	3483.26	-110.91	57.80	109.20	123.56	62.11	0.12	TelePacer	0
35	3585.00	0.18	3.58	94.00	3577.26	-110.72	57.87	109.02	123.42	62.04	0.40	TelePacer	0
36	3679.00	0.26	50.40	94.00	3671.26	-110.90	58.15	109.19	123.71	61.96	0.20	TelePacer	0
37	3772.00	0.18	275.49	93.00	3764.26	-110.92	58.30	109.21	123.79	61.91	0.44	TelePacer	0
38	4055.00	0.18	147.40	283.00	4047.25	-110.71	57.97	109.00	123.46	62.00	0.11	TelePacer	0
39	4149.00	0.18	167.65	94.00	4141.25	-110.81	57.70	109.11	123.43	62.13	0.07	TelePacer	0
40	4243.00	0.18	242.54	94.00	4235.25	-110.71	57.48	109.01	123.24	62.20	0.23	TelePacer	0
41	4337.00	0.18	143.05	94.00	4329.25	-110.66	57.30	108.97	123.12	62.26	0.29	TelePacer	0
42	4525.00	0.18	198.99	188.00	4517.25	-110.73	56.78	109.05	122.95	62.49	0.09	TelePacer	0
43	4619.00	0.18	286.63	94.00	4611.25	-110.53	56.69	108.86	122.74	62.49	0.27	TelePacer	0
44	4713.00	0.18	138.53	94.00	4705.25	-110.49	56.62	108.82	122.67	62.51	0.37	TelePacer	0
45	4807.00	0.18	232.89	94.00	4799.25	-110.46	56.42	108.80	122.56	62.59	0.28	TelePacer	0
46	4901.00	0.26	14.34	94.00	4893.25	-110.40	56.54	108.74	122.55	62.53	0.44	TelePacer	0
47	4996.00	0.09	75.64	95.00	4988.25	-110.53	56.76	108.86	122.77	62.46	0.24	TelePacer	0
48	5090.00	0.18	178.30	94.00	5082.25	-110.61	56.63	108.94	122.78	62.53	0.23	TelePacer	0
49	5184.00	0.18	39.70	94.00	5176.25	-110.70	56.60	109.04	122.85	62.57	0.36	TelePacer	0
50	5372.00	0.09	112.31	188.00	5364.25	-111.03	56.77	109.36	123.22	62.57	0.09	TelePacer	0
51	5466.00	0.18	78.21	94.00	5458.25	-111.25	56.77	109.57	123.41	62.61	0.12	TelePacer	0
52	5560.00	0.18	133.15	94.00	5552.25	-111.50	56.70	109.83	123.6	62.69	0.18	TelePacer	0
53	5654.00	0.18	274.62	94.00	5646.25	-111.45	56.61	109.79	123.52	62.72	0.36	TelePacer	0
54	5748.00	0.18	204.67	94.00	5740.25	-111.24	56.49	109.58	123.28	62.73	0.22	TelePacer	0
55	5842.00	0.97	239.92	94.00	5834.24	-110.48	55.96	108.83	122.37	62.79	0.88	TelePacer	0
56	5936.00	3.96	236.23	94.00	5928.15	-107.02	53.75	105.44	118.35	62.99	3.18	TelePacer	0
57	6030.00	5.63	245.51	94.00	6021.82	-100.02	50.04	98.55	110.52	63.08	1.95	TelePacer	0
58	6124.00	7.65	237.48	94.00	6115.18	-90.39	44.76	89.07	99.69	63.32	2.36	TelePacer	0
59	6218.00	7.83	233.41	94.00	6208.33	-79.76	37.58	78.66	87.17	64.46	0.61	TelePacer	0
60	6312.00	7.21	231.61	94.00	6301.52	-69.77	30.10	68.89	75.18	66.40	0.71	TelePacer	0
61	6406.00	6.07	226.74	94.00	6394.89	-61.32	23.03	60.65	64.87	69.20	1.35	TelePacer	0
62	6500.00	4.57	223.74	94.00	6488.48	-54.93	16.92	54.44	57.01	72.73	1.62	TelePacer	0
63	6594.00	4.66	224.83	94.00	6582.17	-49.48	11.51	49.16	50.49	76.82	0.13	TelePacer	0
64	6689.00	3.25	223.45	95.00	6676.95	-44.77	6.82	44.58	45.1	81.31	1.49	TelePacer	0
65	6782.00	0.70	205.43	93.00	6769.88	-42.64	4.39	42.53	42.75	84.11	2.79	TelePacer	0
66	6877.00	0.00	0.00	95.00	6864.88	-42.38	3.86	42.28	42.45	84.78	0.74	TelePacer	0
67	6971.00	1.14	281.71	94.00	6958.87	-41.47	4.05	41.36	41.56	84.40	1.21	TelePacer	0
68	7014.00	2.11	276.66	43.00	7001.86	-40.27	4.23	40.16	40.38	83.98	2.28	TelePacer	0
69	7065.00	2.29	284.42	51.00	7052.82	-38.36	4.59	38.24	38.51	83.15	0.68	TelePacer	0
70	7159.00	2.81	272.83	94.00	7146.73	-34.26	5.18	34.12	34.51	81.37	0.78	TelePacer	0
71	7253.00	3.69	236.84	94.00	7240.58	-29.38	3.64	29.28	29.51	82.92	2.31	TelePacer	0
72	7348.00	3.61	230.95	95.00	7335.39	-24.39	0.08	24.40	24.4	89.81	0.40	TelePacer	0
73	7442.00	2.73	219.20	94.00	7429.25	-20.57	-3.52	20.69	20.99	99.66	1.16	TelePacer	0
74	7536.00	3.96	251.58	94.00	7523.09	-16.00	-6.28	16.19	17.37	111.20	2.35	TelePacer	0
75	7631.00	3.09	256.89	95.00	7617.91	-10.34	-7.90	10.59	13.21	126.72	0.98	TelePacer	0
76	7725.00	0.18	86.72	94.00	7711.87	-8.01	-8.46	8.27	11.83	135.68	3.48	TelePacer	0
77	7819.00	0.26	312.32	94.00	7805.87	-8.00	-8.31	8.26	11.72	135.19	0.43	TelePacer	0
78	7924.00	0.62	256.67	105.00	7910.87	-7.27	-8.28	7.53	11.19	137.73	0.49	TelePacer	0
79	8096.00	9.21	289.30	172.00	8082.08	6.51	-3.94	-6.40	7.51	238.36	5.05	SlimPulse	2
80	8189.00	17.99	263.68	93.00	8172.46	27.83	-3.06	-27.75	27.92	263.71	11.23	SlimPulse	2
81	8283.00	21.65	241.83	94.00	8261.00	57.88	-12.86	-57.52	58.94	257.40	8.72	SlimPulse	2
82	8376.00	24.50	239.58	93.00	8346.55	90.17	-30.73	-89.28	94.42	251.01	3.21	SlimPulse	2
83	8470.00	35.15	245.03	94.00	8428.00	132.26	-52.08	-130.74	140.73	248.28	11.68	SlimPulse	2
84	8563.00	44.92	247.75	93.00	8499.12	187.75	-75.88	-185.54	200.45	247.76	10.67	SlimPulse	2
85	8657.00	54.12	253.10	94.00	8560.10	255.77	-99.57	-252.86	271.76	248.51	10.70	SlimPulse	2
86	8751.00	62.92	252.30	94.00	8609.14	332.91	-123.41	-329.32	351.68	249.46	9.39	SlimPulse	2
87	8844.00	71.72	261.35	93.00	8645.03	416.86	-142.71	-412.72	436.7	250.93	13.03	SlimPulse	2
88	8938.00	74.95	272.72	94.00	8672.07	506.71	-147.29	-502.47	523.62	253.66	12.08	SlimPulse	2
89	9032.00	81.06	278.52	94.00	8691.61	597.81	-138.24	-593.89	609.77	256.90	8.87	SlimPulse	2
90	9125.00	91.76	280.21	93.00	8697.42	688.75	-123.15	-685.33	696.31	259.81	11.65	SlimPulse	2
91	9219.00	91.07	276.42	94.00	8695.10	781.26	-109.56	-778.30	785.97	261.99	4.10	SlimPulse	2
92	9312.00	91.10	274.19	93.00	8693.34	873.54	-100.97	-870.88	876.71	263.39	2.40	SlimPulse	2
93	9498.00	91.41	270.90	186.00	8689.27	1058.95	-92.71	-1056.62	1060.68	264.99	1.78	SlimPulse	2
94	9591.00	90.93	271.69	93.00	8687.37	1151.80	-90.61	-1149.58	1153.14	265.49	0.99	SlimPulse	2
95	9684.00	91.00	271.10	93.00	8685.80	1244.65	-88.35	-1242.54	1245.67	265.93	0.64	SlimPulse	2
96	9777.00	91.14	272.67	93.00	8684.06	1337.44	-85.29	-1335.47	1338.19	266.35	1.69	SlimPulse	2
97	9871.00	91.24	270.66	94.00	8682.11	1431.25	-82.56	-1429.40	1431.78	266.69	2.14	SlimPulse	2

98	9965.00	91.17	270.11	94.00	8680.13	1525.16	-81.93	-1523.38	1525.58	266.92	0.59	SlimPulse	2
99	10058.00	90.93	268.77	93.00	8678.43	1618.13	-82.83	-1616.36	1618.48	267.07	1.46	SlimPulse	2
100	10152.00	92.00	265.57	94.00	8676.03	1712.07	-87.47	-1710.20	1712.43	267.07	3.59	SlimPulse	2
101	10246.00	90.66	267.93	94.00	8673.84	1806.00	-92.80	-1804.01	1806.4	267.06	2.89	SlimPulse	2
102	10340.00	90.86	268.38	94.00	8672.60	1899.99	-95.83	-1897.96	1900.37	267.11	0.52	SlimPulse	2
103	10434.00	91.35	266.87	94.00	8670.78	1993.96	-99.72	-1991.85	1994.35	267.13	1.69	SlimPulse	2
104	10527.00	90.90	267.59	93.00	8668.96	2086.93	-104.21	-2084.73	2087.33	267.14	0.91	SlimPulse	2
105	10620.00	90.11	261.68	93.00	8668.14	2179.70	-112.90	-2177.27	2180.2	267.03	6.41	SlimPulse	2
106	10713.00	90.76	268.32	93.00	8667.43	2272.49	-121.01	-2269.87	2273.09	266.95	7.17	SlimPulse	2
107	10798.00	90.68	266.22	85.00	8666.36	2357.47	-125.05	-2354.76	2358.08	266.96	2.47	SlimPulse	2
108	10892.00	89.31	268.21	94.00	8666.37	2451.45	-129.62	-2448.64	2452.07	266.97	2.57	SlimPulse	2
109	10985.00	91.61	269.36	93.00	8665.62	2544.43	-131.59	-2541.61	2545.01	267.04	2.76	SlimPulse	2
110	11079.00	90.96	265.71	94.00	8663.52	2638.38	-135.63	-2635.48	2638.97	267.05	3.94	SlimPulse	2
111	11173.00	92.37	266.61	94.00	8660.78	2732.28	-141.93	-2729.23	2732.91	267.02	1.78	SlimPulse	2
112	11267.00	89.31	269.56	94.00	8659.41	2826.24	-145.07	-2823.14	2826.87	267.06	4.52	SlimPulse	2
113	11361.00	89.72	269.82	94.00	8660.20	2920.21	-145.57	-2917.14	2920.77	267.14	0.52	SlimPulse	2
114	11454.00	91.27	270.64	93.00	8659.40	3013.15	-145.20	-3010.13	3013.63	267.24	1.89	SlimPulse	2
115	11640.00	91.75	271.77	186.00	8654.50	3198.84	-141.29	-3196.02	3199.14	267.47	0.66	SlimPulse	2
116	11734.00	93.54	272.52	94.00	8650.16	3292.52	-137.78	-3289.85	3292.73	267.60	2.06	SlimPulse	2
117	11829.00	90.65	272.41	95.00	8646.69	3387.19	-133.69	-3384.69	3387.33	267.74	3.04	SlimPulse	2
118	11922.00	90.23	271.71	93.00	8645.97	3479.98	-130.35	-3477.63	3480.07	267.85	0.88	SlimPulse	2
119	12015.00	91.33	272.37	93.00	8644.71	3572.77	-127.04	-3570.56	3572.82	267.96	1.38	SlimPulse	2
120	12110.00	92.33	272.69	95.00	8641.67	3667.45	-122.85	-3665.41	3667.47	268.08	1.11	SlimPulse	2
121	12203.00	93.64	273.33	93.00	8636.83	3760.01	-117.97	-3758.16	3760.01	268.20	1.57	SlimPulse	2
122	12297.00	92.30	271.62	94.00	8631.96	3853.62	-113.92	-3851.94	3853.62	268.31	2.31	SlimPulse	2
123	12391.00	91.44	270.69	94.00	8628.89	3947.45	-112.03	-3945.87	3947.46	268.37	1.35	SlimPulse	2
124	12485.00	89.44	267.72	94.00	8628.17	4041.42	-113.33	-4039.84	4041.43	268.39	3.81	SlimPulse	2
125	12579.00	89.03	267.71	94.00	8629.43	4135.40	-117.08	-4133.76	4135.41	268.38	0.44	SlimPulse	2
126	12673.00	89.96	267.90	94.00	8630.25	4229.40	-120.68	-4227.68	4229.4	268.36	1.01	SlimPulse	2
127	12766.00	91.13	268.94	93.00	8629.37	4322.39	-123.24	-4320.64	4322.4	268.37	1.68	SlimPulse	2
128	12859.00	91.47	268.98	93.00	8627.26	4415.36	-124.93	-4413.60	4415.37	268.38	0.37	SlimPulse	2
129	12952.00	92.57	269.77	93.00	8623.98	4508.28	-125.95	-4506.53	4508.29	268.40	1.46	SlimPulse	2
130	13046.00	92.95	269.56	94.00	8619.45	4602.14	-126.49	-4600.42	4602.16	268.42	0.46	SlimPulse	2
131	13139.00	94.22	269.43	93.00	8613.64	4694.94	-127.31	-4693.24	4694.96	268.45	1.37	SlimPulse	2
132	13204.00	94.53	269.75	65.00	8608.68	4759.73	-127.78	-4758.05	4759.76	268.46	0.68	SlimPulse	2
133	13257.00	94.53	269.75	53.00	8604.50	4812.55	-128.01	-4810.88	4812.58	268.48	0.00	PROJ	0



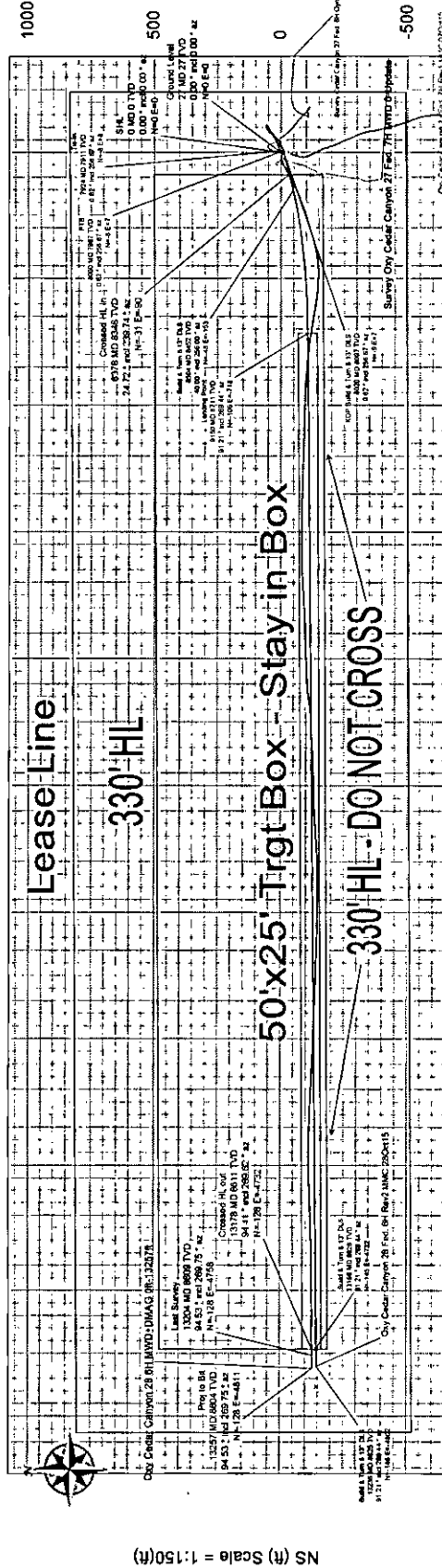
Final PVA - Rev2

OXY

Schlumberger

Borehole:		Well:		Field:		Structure:	
Original Borehole		Cedar Canyon 28 Fed. 6H		NM Eddy County (NAD 27)		H&P 615	
County & Bounding Parameters	Date	28-Oct-2015	28-Oct-2015	61187	0.00000000	0.00000000	0.00000000
Mag Dec: 7.28°	FS: 4228.00m	FS: 4228.00m	FS: 4228.00m	Grid Contour: 500m	Grid Contour: 500m	Grid Contour: 500m	Grid Contour: 500m
Comments		Comments					

1. This survey was conducted in accordance with the standards of the National Society of Professional Surveyors (NSPS) and the International Geomatics Association (IGA).
2. The survey was conducted using a Leica Total Station and a Leica Auto Level.
3. The survey was conducted on a clear day with good visibility.
4. The survey was conducted using a Leica Total Station and a Leica Auto Level.
5. The survey was conducted using a Leica Total Station and a Leica Auto Level.
6. The survey was conducted using a Leica Total Station and a Leica Auto Level.
7. The survey was conducted using a Leica Total Station and a Leica Auto Level.
8. The survey was conducted using a Leica Total Station and a Leica Auto Level.
9. The survey was conducted using a Leica Total Station and a Leica Auto Level.
10. The survey was conducted using a Leica Total Station and a Leica Auto Level.



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

Critical Points									
Comments	Survey	Station	Inclination	Altitude	NS (ft)	EW (ft)	Length	Area	Volume
1. This point is located at the top of the well.	1	1	0.00	100.00	0.00	0.00	0.00	0.00	0.00
2. This point is located at the bottom of the well.	2	2	0.00	100.00	0.00	0.00	0.00	0.00	0.00
3. This point is located at the top of the well.	3	3	0.00	100.00	0.00	0.00	0.00	0.00	0.00
4. This point is located at the bottom of the well.	4	4	0.00	100.00	0.00	0.00	0.00	0.00	0.00
5. This point is located at the top of the well.	5	5	0.00	100.00	0.00	0.00	0.00	0.00	0.00
6. This point is located at the bottom of the well.	6	6	0.00	100.00	0.00	0.00	0.00	0.00	0.00
7. This point is located at the top of the well.	7	7	0.00	100.00	0.00	0.00	0.00	0.00	0.00
8. This point is located at the bottom of the well.	8	8	0.00	100.00	0.00	0.00	0.00	0.00	0.00
9. This point is located at the top of the well.	9	9	0.00	100.00	0.00	0.00	0.00	0.00	0.00
10. This point is located at the bottom of the well.	10	10	0.00	100.00	0.00	0.00	0.00	0.00	0.00

7500

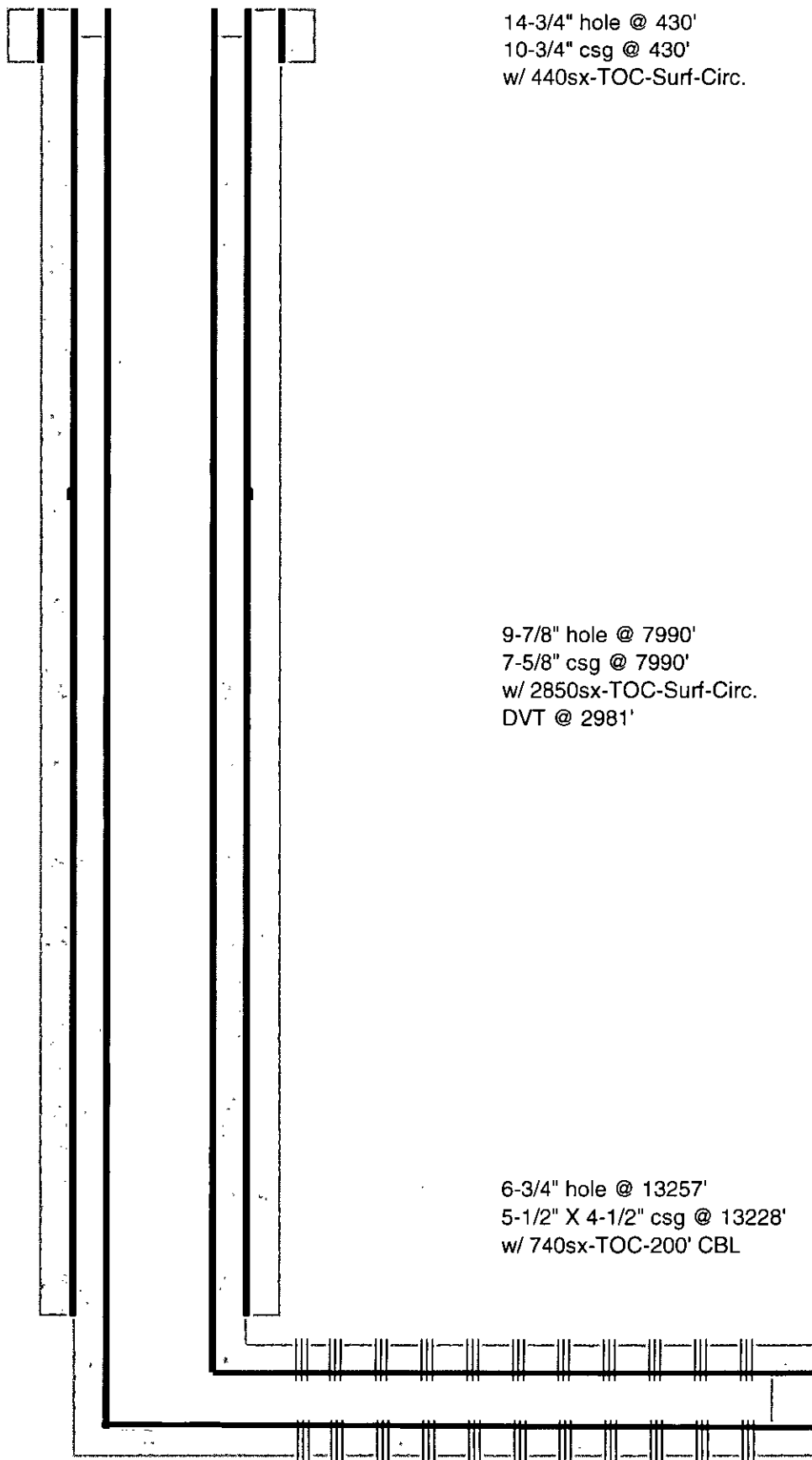
8000

8500

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

Vertical Section (ft) Azim = 268.263° Scale = 1:150(ft) Origin = 0N/-S.0E/-W

OXY USA INC.
Cedar Canyon 28 Federal #6H
API No. 30-015-43234



Perfs @ 8898-13127'

TD- 13257'M 8614'V