

Reservoir Development

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



30-015-43282

December 22, 2015

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

Re:

1305 FNL 155 FEL NENE(A) Sec 22 T24S R29E
N 32.20649 W 103.96389

CLIENT: OXY USA INCORPORATED
WELL: Cedar Canyon 23 Federal 5H
FIELD: Pierce Crossing Bone Spring, E.
RIG: H&P 615
COUNTY: Eddy
API NO: 30-015-43282
JOB NO: 16MLD0310

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 23 Federal 5H Original Hole	407.00 Ft to 16346.00 Ft	November 28, 2015 to November 21, 2015	SlimPulse & HDS- 1R

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

Nathan Oakley
Field Service Manager

Reservoir Development

Schlumberger Drilling and Measurements
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
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Well Reference:

1305 FNL 155 FEL NENE(A) Sec 22 T24S R29E
N 32.20649 W 103.96389

I, Kurt Valentine certify that; I am employed by Schlumberger Drilling and Measurements; that I did on the day(s) of November 28, 2015 through November 21, 2015, conduct or supervise the taking of the SlimPulse & HDS-1R surveys from a depth of 407.00 feet to a depth of 16346.00 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 23 Federal 5H Well (Original Hole) API No. 30-015-43282 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.

Kurt Valentine

By
Kurt Valentine
MWD

Subscribed and Sworn to before me this 22nd day of December (month) 2015 (yr)

My Commission expires:

05/26/2016

Karen D. Summers
Notary Public

(signature)

Harris County, Texas
(County State)



SCHLUMBERGER
Survey Report

21-Dec-2015

Client.....: OXY USA WTP
Field.....: Pierce Crossing Bone Spri

Well.....: Cedar Canyon 23 Fed 5H
API number.....: 30-015-43282
Engineer.....: K. Valentine

Spud date.....: 26-Nov-15
Last survey date.....: 20-Dec-15
Total accepted surveys.: 157
MD of first survey.....: 407.00 ft
MD of last survey.....: 16346.00 ft

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

Latitude.....: 32° 12' 23.364" N
Longitude.....: 103° 57' 50.021" 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.....: 2942.40
KB above permanent.....: 2968.90
DF above permanent.....: 2968.90

----- Vertical section origin -----
Latitude (+N/-).....: 0.00 ft
Departure (+E/-).....: 0.00 ft

----- Grid Coordinates -----
NAD27 Texas State Plane, Central Zone, US Feet
X.....: 614266.95 ft
Y.....: 439037.02 ft

Azimuth from Vsect Origin to target: 84.14 degrees

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

-----Run1----- Calculation Date: 10-Dec-2015
Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48336.74 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.0684 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 13-Dec-2015
Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48335.86 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.0683 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 15-Dec-2015
Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48335.28 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.0682 degrees Tolerance Dip: 0.45 degrees

-----Run4----- Calculation Date: 17-Dec-2015
Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48334.69 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.0682 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2015

-----Run1-----
Magnetic dec (+E/-).....: 7.262 degrees
Grid Conv (+E/-).....: 0.192 degrees
Total Azim Corr (+E/-).....: 7.07 degrees

-----Run2-----
Magnetic dec (+E/-).....: 7.2611 degrees
Grid Conv (+E/-).....: 0.2011 degrees
Total Azim Corr (+E/-).....: 7.06 degrees

-----Run3-----
Magnetic dec (+E/-).....: 7.2605 degrees
Grid Conv (+E/-).....: 0.2005 degrees
Total Azim Corr (+E/-).....: 7.06 degrees

-----Run4-----
Magnetic dec (+E/-).....: 7.2599 degrees
Grid Conv (+E/-).....: 0.1999 degrees
- Total Azim Corr (+E/-).....: 7.06 degrees

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

0 = Uncorrected 1 = Sag Corrected

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

===== Survey List =====													
Seq	MO (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	407.00	0.26	167.58	407.00	407.00	0.11	-0.90	0.20	0.92	167.58	0.06	Other	13
3	499.00	0.53	100.53	92.00	499.00	0.54	-1.18	0.66	1.36	150.78	0.53	Other	0
4	674.00	0.09	329.27	175.00	673.99	1.26	-1.21	1.39	1.84	131.17	0.34	Other	0
5	747.00	0.09	204.42	73.00	746.99	1.20	-1.22	1.33	1.81	132.35	0.22	Other	0
6	837.00	0.00	4.42	90.00	836.99	1.17	-1.28	1.31	1.83	134.45	0.10	Other	0
7	1019.00	0.00	19.53	182.00	1018.99	1.17	-1.28	1.31	1.83	134.45	0.00	Other	0
8	1117.00	0.09	188.36	98.00	1116.99	1.15	-1.36	1.29	1.87	136.36	0.09	Other	0
9	1211.00	0.09	242.60	94.00	1210.99	1.06	-1.46	1.22	1.9	140.24	0.09	Other	0
10	1305.00	0.09	254.96	94.00	1304.99	0.92	-1.52	1.08	1.86	144.53	0.02	Other	0
11	1399.00	0.09	194.47	94.00	1398.99	0.82	-1.61	0.99	1.89	148.34	0.10	Other	0
12	1493.00	0.26	278.46	94.00	1492.99	0.59	-1.65	0.76	1.82	155.19	0.28	Other	0
13	1587.00	0.09	299.62	94.00	1586.99	0.32	-1.58	0.49	1.65	162.88	0.19	Other	0
14	1681.00	0.18	223.18	94.00	1680.99	0.15	-1.65	0.32	1.68	168.99	0.19	Other	0
15	1775.00	0.35	238.62	94.00	1774.99	-0.22	-1.91	-0.02	1.91	180.75	0.19	Other	0
16	1869.00	0.35	261.10	94.00	1868.99	-0.77	-2.10	-0.55	2.17	194.75	0.15	Other	0
17	1969.00	0.44	271.22	100.00	1968.99	-1.45	-2.14	-1.24	2.47	210.06	0.11	Other	0
18	2056.00	0.44	278.57	87.00	2055.99	-2.11	-2.08	-1.90	2.82	222.41	0.06	Other	0
19	2151.00	0.53	282.45	95.00	2150.98	-2.88	-1.94	-2.69	3.32	234.30	0.10	Other	0
20	2245.00	0.18	282.77	94.00	2244.98	-3.43	-1.81	-3.26	3.73	240.99	0.37	Other	0
21	2339.00	0.18	184.85	94.00	2338.98	-3.60	-1.92	-3.42	3.92	240.64	0.29	Other	0
22	2433.00	0.00	184.85	94.00	2432.98	-3.62	-2.07	-3.43	4.01	238.89	0.19	Other	0
23	2527.00	0.09	177.80	94.00	2526.98	-3.63	-2.14	-3.43	4.04	237.97	0.10	Other	0
24	2621.00	0.09	245.09	94.00	2620.98	-3.70	-2.25	-3.49	4.15	237.22	0.11	Other	0
25	2715.00	0.35	25.25	94.00	2714.98	-3.62	-2.02	-3.44	3.99	239.55	0.45	Other	0
26	2809.00	3.17	29.28	94.00	2808.93	-1.98	0.51	-2.04	2.1	283.93	3.00	Other	0
27	2903.00	6.24	31.78	94.00	2902.60	2.64	7.12	1.92	7.37	15.09	3.27	Other	0
28	2997.00	6.68	30.43	94.00	2996.00	8.99	16.17	7.38	17.78	24.52	0.50	Other	0
29	3091.00	8.88	24.74	94.00	3089.13	15.92	27.48	13.19	30.48	25.63	2.48	Other	0
30	3185.00	12.40	24.93	94.00	3181.50	24.78	43.23	20.48	47.83	25.35	3.74	Other	0
31	3278.00	15.39	24.06	93.00	3271.77	36.05	63.55	29.72	70.16	25.06	3.22	Other	0
32	3372.00	15.83	23.19	94.00	3362.30	48.50	86.73	39.85	95.45	24.68	0.53	Other	0
33	3467.00	15.74	22.82	95.00	3453.72	60.98	110.52	49.95	121.28	24.32	0.14	Other	0
34	3561.00	15.74	20.42	94.00	3544.19	72.74	134.22	59.35	146.75	23.85	0.69	Other	0
35	3655.00	15.92	16.39	94.00	3634.63	83.27	158.53	67.43	172.28	23.04	1.18	Other	0
36	3749.00	16.62	14.48	94.00	3724.87	92.82	183.92	74.43	198.41	22.03	0.94	Other	0
37	3843.00	16.36	13.91	94.00	3815.00	101.97	209.79	80.98	224.87	21.11	0.33	Other	0
38	3937.00	15.30	13.86	94.00	3905.44	110.64	234.68	87.13	250.33	20.37	1.13	Other	0
39	4031.00	16.97	9.40	94.00	3995.73	118.43	260.25	92.34	276.15	19.54	2.21	Other	0
40	4125.00	17.15	8.53	94.00	4085.60	125.49	287.49	96.64	303.3	18.58	0.33	Other	0
41	4313.00	18.11	6.09	188.00	4264.77	138.43	343.96	103.85	359.3	16.80	0.64	Other	0
42	4502.00	16.80	1.86	189.00	4445.07	148.18	400.47	107.85	414.74	15.07	0.96	Other	0
43	4596.00	14.42	359.58	94.00	4535.60	151.11	425.76	108.21	439.3	14.26	2.61	Other	0
44	4690.00	13.01	357.52	94.00	4626.91	152.85	448.04	107.67	460.79	13.51	1.59	Other	0
45	4784.00	12.05	355.97	94.00	4718.67	153.78	468.39	106.52	480.35	12.81	1.08	Other	0
46	4878.00	12.57	358.81	94.00	4810.51	154.93	488.41	105.62	499.7	12.20	0.85	Other	0
47	4973.00	13.45	2.52	95.00	4903.08	157.38	509.78	105.89	520.66	11.73	1.28	Other	0
48	5129.00	13.81	5.24	156.00	5054.68	163.61	546.45	108.38	557.09	11.22	0.47	Other	0
49	5255.00	12.49	10.07	126.00	5177.38	170.25	574.84	112.14	585.68	11.04	1.36	Other	0
50	5443.00	14.33	23.54	188.00	5360.29	187.25	616.20	124.99	628.75	11.47	1.92	Other	0
51	5537.00	14.60	29.49	94.00	5451.32	199.82	637.18	135.47	651.42	12.00	1.61	Other	0
52	5631.00	12.49	31.27	94.00	5542.70	212.81	656.18	146.58	672.36	12.59	2.29	Other	0
53	5738.00	11.96	33.42	107.00	5647.27	226.81	675.33	158.69	693.72	13.22	0.65	Other	0
54	5835.00	11.34	35.93	97.00	5742.27	239.53	691.44	169.82	711.99	13.80	0.83	Other	0
55	5913.00	9.85	37.26	78.00	5818.94	249.20	702.96	178.36	725.23	14.24	1.94	Other	0
56	6101.00	9.23	42.78	188.00	6004.34	271.51	726.82	198.34	753.4	15.26	0.59	Other	0
57	6289.00	8.18	45.58	188.00	6190.18	293.29	747.25	218.13	778.44	16.27	0.60	Other	0
58	6383.00	6.16	44.19	94.00	6283.44	302.38	755.55	226.43	788.75	16.68	2.16	Other	0
59	6514.00	5.45	48.08	131.00	6413.77	312.80	764.74	235.95	800.32	17.15	0.62	Other	0
60	6665.00	4.04	48.73	151.00	6564.24	322.93	773.04	245.29	811.03	17.60	0.93	Other	0
61	6759.00	3.25	50.55	94.00	6658.05	327.85	776.92	249.84	816.1	17.83	0.85	Other	0
62	6853.00	2.02	51.54	94.00	6751.95	331.47	779.65	253.19	819.73	17.99	1.31	Other	0
63	6947.00	1.49	47.92	94.00	6845.91	333.85	781.49	255.39	822.17	18.10	0.58	Other	0
64	7041.00	0.79	37.04	94.00	6939.89	335.28	782.83	256.69	823.84	18.15	0.78	Other	0
65	7135.00	0.79	12.55	94.00	7033.88	335.92	783.98	257.22	825.1	18.16	0.36	Other	0
66	7230.00	0.97	7.45	95.00	7128.87	336.31	785.42	257.47	826.54	18.15	0.21	Other	0
67	7418.00	0.62	201.93	188.00	7316.86	336.21	786.05	257.30	827.09	18.12	0.84	Other	0
68	7511.00	1.58	190.51	93.00	7409.84	335.61	784.32	256.87	825.32	18.13	1.05	Other	0
69	7570.00	2.29	180.47	59.00	7468.81	335.25	782.35	256.72	823.39	18.17	1.33	Other	0
70	7712.00	0.87	149.78	142.00	7610.75	335.38	778.58	257.23	819.97	18.28	1.13	SlimPulse	0
71	7900.00	1.07	76.29	188.00	7798.73	337.70	777.77	259.65	819.96	18.46	0.62	SlimPulse	0
72	7993.00	2.05	264.12	93.00	7891.72	336.90	777.80	258.84	819.74	18.41	3.34	SlimPulse	0
73	8180.00	1.10	217.97	187.00	8078.65	332.31	776.04	254.41	816.68	18.15	0.81	SlimPulse	0
74	8283.00	8.15	228.53	103.00	8181.25	325.68	770.42	248.32	809.45	17.87	6.87	SlimPulse	0
75	8366.00	6.29	172.64	83.00	8263.68	321.01	762.00	244.49	800.27	17.79	8.37	SlimPulse	0
76	8459.00	9.47	77.94	93.00	8356.10	328.78	758.54	252.65	799.51	18.42	12.66	SlimPulse	0
77	8553.00	9.67	69.38	94.00	8448.79	344.10	762.94	267.61	808.51	19.33	1.53	SlimPulse	0

78	8549.00	22.67	97.32	95.00	8540.91	370.06	763.42	293.65	817.95	21.04	15.42	SlimPulse	0
79	8740.00	29.28	69.67	91.00	8622.97	408.86	768.95	332.09	837.59	23.36	14.98	SlimPulse	0
80	8833.00	42.93	73.24	93.00	8697.94	462.25	786.07	384.00	874.85	26.04	14.85	SlimPulse	0
81	8927.00	57.69	74.55	94.00	8757.81	533.24	806.00	453.32	924.73	29.35	15.73	SlimPulse	0
82	9025.00	66.99	75.22	98.00	8803.25	618.82	828.59	537.03	987.4	32.95	9.52	SlimPulse	0
83	9117.00	71.95	89.87	92.00	8835.66	704.63	839.54	622.16	1044.95	36.54	15.85	SlimPulse	0
84	9211.00	87.25	94.41	94.00	8852.59	795.88	836.01	714.25	1099.58	40.51	16.95	SlimPulse	0
85	9306.00	89.00	94.78	95.00	8855.69	889.24	828.40	808.89	1157.82	44.32	1.89	SlimPulse	0
86	9400.00	89.31	94.36	94.00	8857.08	981.68	820.91	902.58	1220.06	47.71	0.56	SlimPulse	0
87	9493.00	89.21	94.33	93.00	8858.28	1073.20	813.87	995.31	1285.7	50.73	0.11	SlimPulse	0
88	9587.00	89.11	94.04	94.00	8859.66	1165.75	807.01	1089.05	1355.46	53.46	0.33	SlimPulse	0
89	9680.00	89.42	94.53	93.00	8860.86	1257.29	800.06	1181.78	1427.13	55.90	0.62	SlimPulse	0
90	9774.00	89.17	93.44	94.00	8862.02	1349.90	793.53	1275.54	1502.23	58.11	1.18	SlimPulse	0
91	9868.00	89.35	92.81	94.00	8863.23	1442.74	788.41	1369.40	1580.14	60.07	0.70	SlimPulse	0
92	9961.00	89.52	91.50	93.00	8864.15	1534.82	784.91	1462.32	1659.66	61.77	1.42	SlimPulse	0
93	10054.00	88.97	89.77	93.00	8865.38	1627.21	783.88	1555.31	1741.68	63.25	1.95	SlimPulse	0
94	10147.00	89.38	90.55	93.00	8866.72	1719.69	783.62	1648.29	1825.08	64.57	0.94	SlimPulse	0
95	10241.00	89.28	90.28	94.00	8867.82	1813.12	782.93	1742.29	1910.12	65.80	0.30	SlimPulse	0
96	10334.00	88.97	90.14	93.00	8869.24	1905.58	782.59	1835.27	1995.16	66.91	0.37	SlimPulse	0
97	10426.00	88.56	89.73	92.00	8871.23	1997.09	782.69	1927.25	2080.12	67.90	0.63	SlimPulse	0
98	10520.00	89.24	90.67	94.00	8873.04	2090.55	782.37	2021.23	2167.37	68.84	1.24	SlimPulse	0
99	10614.00	88.45	90.96	94.00	8874.93	2183.89	781.03	2115.20	2254.79	69.73	0.90	SlimPulse	0
100	10707.00	88.42	90.75	93.00	8877.47	2276.22	779.64	2208.16	2341.75	70.55	0.23	SlimPulse	0
101	10801.00	88.83	91.21	94.00	8879.73	2369.52	778.03	2302.12	2430.04	71.33	0.66	SlimPulse	0
102	10895.00	88.38	90.92	94.00	8882.01	2462.81	776.29	2396.07	2518.69	72.05	0.57	SlimPulse	0
103	10988.00	88.45	90.35	93.00	8884.58	2555.18	775.26	2489.03	2606.97	72.70	0.62	SlimPulse	0
104	11082.00	87.14	90.18	94.00	8888.19	2648.57	774.83	2582.96	2696.67	73.30	1.40	SlimPulse	0
105	11176.00	89.38	91.15	94.00	8891.04	2741.91	773.74	2676.90	2786.48	73.88	2.59	SlimPulse	0
106	11269.00	89.11	91.05	93.00	8892.27	2834.22	771.96	2769.88	2875.44	74.43	0.31	SlimPulse	0
107	11362.00	89.00	91.21	93.00	8893.80	2926.51	770.13	2862.85	2964.62	74.94	0.20	SlimPulse	0
108	11456.00	88.69	90.50	94.00	8895.69	3019.85	768.73	2956.82	3055.11	75.43	0.82	SlimPulse	0
109	11549.00	88.56	90.19	93.00	8897.93	3112.28	768.17	3049.79	3145.04	75.86	0.36	SlimPulse	0
110	11642.00	88.00	89.17	93.00	8900.72	3204.80	768.69	3142.74	3235.38	76.26	1.25	SlimPulse	0
111	11736.00	88.93	89.28	94.00	8903.23	3298.40	769.96	3236.70	3327.02	76.62	1.00	SlimPulse	0
112	11829.00	89.07	89.37	93.00	8904.85	3391.00	771.05	3329.68	3417.79	76.96	0.18	SlimPulse	0
113	11923.00	88.52	88.76	94.00	8906.82	3484.63	772.58	3423.64	3509.73	77.28	0.88	SlimPulse	0
114	12017.00	88.52	88.49	94.00	8909.25	3578.31	774.84	3517.59	3601.91	77.58	0.28	SlimPulse	0
115	12110.00	88.62	88.31	93.00	8911.56	3671.03	777.44	3610.52	3693.27	77.85	0.22	SlimPulse	0
116	12202.00	88.35	88.10	92.00	8914.00	3762.76	780.32	3702.44	3783.78	78.10	0.38	SlimPulse	0
117	12296.00	88.59	88.26	94.00	8916.51	3856.50	783.30	3796.36	3876.33	78.34	0.31	SlimPulse	0
118	12390.00	88.73	88.67	94.00	8918.71	3950.20	785.82	3890.30	3968.87	78.58	0.46	SlimPulse	0
119	12577.00	89.28	90.51	187.00	8921.96	4136.32	787.15	4077.26	4152.55	79.07	1.03	SlimPulse	0
120	12764.00	89.72	91.32	187.00	8923.59	4322.01	784.17	4264.23	4335.73	79.58	0.50	SlimPulse	0
121	12873.00	88.18	90.94	109.00	8925.59	4430.18	782.02	4373.19	4442.56	79.86	1.46	SlimPulse	0
122	13043.00	87.80	90.59	170.00	8931.56	4598.94	779.75	4543.06	4609.5	80.26	0.30	SlimPulse	0
123	13136.00	88.42	90.74	93.00	8934.62	4691.28	778.67	4636.01	4700.95	80.47	0.69	SlimPulse	0
124	13227.00	88.66	91.12	91.00	8936.95	4781.61	777.20	4726.97	4790.43	80.66	0.49	SlimPulse	0
125	13321.00	88.59	92.06	94.00	8939.20	4874.79	774.59	4820.90	4882.73	80.87	1.00	SlimPulse	0
126	13414.00	88.31	91.61	93.00	8941.71	4966.92	771.62	4913.82	4974.03	81.08	0.56	SlimPulse	0
127	13507.00	88.07	90.54	93.00	8944.64	5059.19	769.88	5006.76	5065.6	81.26	1.18	SlimPulse	0
128	13601.00	88.42	90.53	94.00	8947.52	5152.57	769.01	5100.71	5158.35	81.43	0.37	SlimPulse	0
129	13694.00	87.94	90.79	93.00	8950.48	5244.92	767.94	5193.65	5250.12	81.59	0.59	SlimPulse	0
130	13787.00	88.21	89.84	93.00	8953.60	5337.33	767.43	5286.60	5342.01	81.74	1.06	SlimPulse	0
131	13881.00	87.52	90.37	94.00	8957.10	5430.75	767.27	5380.53	5434.96	81.88	0.92	SlimPulse	0
132	13974.00	88.35	90.30	93.00	8960.45	5523.15	766.73	5473.47	5526.91	82.03	0.89	SlimPulse	0
133	14068.00	88.45	90.70	94.00	8963.07	5616.53	765.91	5567.43	5619.87	82.17	0.44	SlimPulse	0
134	14161.00	87.90	89.71	93.00	8966.03	5708.97	765.58	5660.38	5711.92	82.30	1.22	SlimPulse	0
135	14258.00	87.97	88.77	97.00	8969.52	5805.52	766.87	5757.31	5808.16	82.41	0.97	SlimPulse	0
136	14352.00	87.87	88.71	94.00	8972.94	5899.15	768.94	5851.22	5901.53	82.51	0.12	SlimPulse	0
137	14445.00	87.83	86.78	93.00	8976.43	5991.90	772.59	5944.08	5994.08	82.59	2.08	SlimPulse	0
138	14539.00	88.42	84.86	94.00	8979.50	6085.80	779.44	6037.78	6087.88	82.64	2.14	SlimPulse	0
139	14634.00	88.49	84.35	95.00	8982.07	6180.77	788.36	6132.32	6182.79	82.67	0.54	SlimPulse	0
140	14728.00	89.42	87.18	94.00	8983.79	6274.70	795.30	6226.04	6276.63	82.72	3.16	SlimPulse	0
141	14822.00	88.62	85.99	94.00	8985.39	6368.60	800.90	6319.86	6370.4	82.78	1.52	SlimPulse	0
142	14915.00	88.83	85.84	93.00	8987.46	6461.53	807.52	6412.60	6463.24	82.82	0.28	SlimPulse	0
143	15009.00	89.35	87.64	94.00	8988.96	6555.42	812.87	6506.43	6557.01	82.88	1.99	SlimPulse	0
144	15102.00	89.04	90.71	93.00	8990.27	6648.04	814.21	6599.40	6649.44	82.97	3.33	SlimPulse	0
145	15196.00	89.38	91.14	94.00	8991.57	6741.37	812.69	6693.38	6742.53	83.08	0.58	SlimPulse	0
146	15290.00	88.97	91.41	94.00	8992.92	6834.64	810.60	6787.34	6835.58	83.19	0.52	SlimPulse	0
147	15384.00	88.93	89.96	94.00	8994.64	6928.00	809.48	6881.32	6928.77	83.29	1.54	SlimPulse	0
148	15478.00	88.56	90.28	94.00	8996.70	7021.47	809.28	6975.29	7022.08	83.38	0.53	SlimPulse	0
149	15570.00	88.90	89.07	92.00	8998.74	7113.02	809.80	7067.27	7113.51	83.46	1.37	SlimPulse	0
150	15663.00	89.07	88.04	93.00	9000.39	7205.72	812.14	7160.22	7206.13	83.53	1.12	SlimPulse	0
151	15755.00	89.04	88.15	92.00	9001.91	7297.49	815.20	7252.16	7297.83	83.59	0.12	SlimPulse	0
152	15848.00	88.76	87.69	93.00	9003.69	7390.27	818.58	7345.08	7390.55	83.64	0.58	SlimPulse	0
153	15940.00	88.83	87.74	92.00	9005.63	7482.07	822.25	7436.99	7482.3	83.69	0.10	SlimPulse	0
154	16033.00	89.24	86.15	93.00	9007.19	7574.95	827.20	7529.84	7575.14	83.73	1.77	SlimPulse	0
155	16125.00	89.90	84.76	92.00	9007.88	7666.92	834.50	7621.54	7667.09	83.75	1.67	SlimPulse	0
156	16219.00	88.21	87.50	94.00	9009.43	7760.84	840.84	7715.30	7760.99	83.78	3.43	SlimPulse	0
157	16311.00	88.90	88.61	92.00	9011.75	7852.59	843.96	7807.22	7852.7	83.83	1.42	SlimPulse	0
158	16346.00	88.35	88.15	35.00	9012.59	7887.48	844.95	7842.20	7887.58	83.85	2.06	SlimPulse	0
159	16385.00	88.35	88.15	39.00	9013.71	7926.37	846.21	7881.16	7926.46	83.87	0.01	Proj. to Bit	7

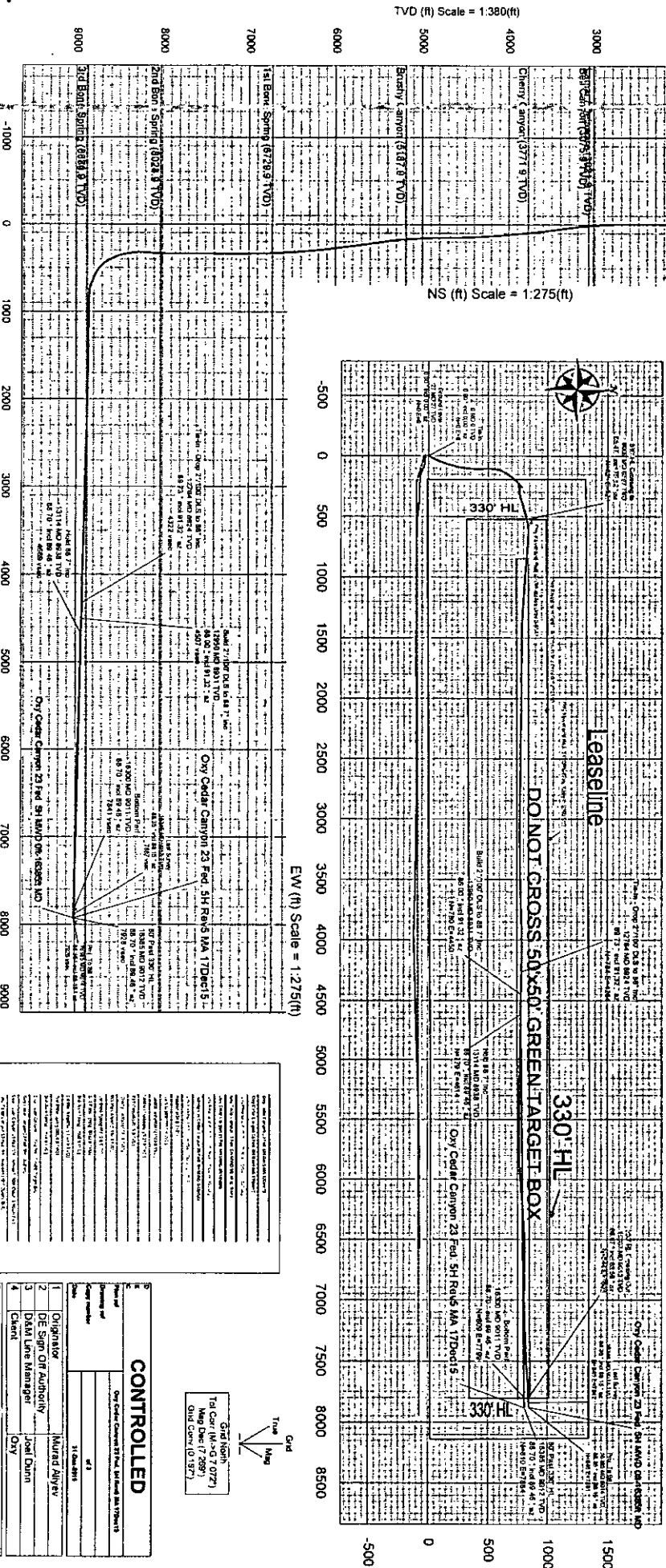


Schlumberger

H&P 615

Activity & Geographic Features	NOOT New Service State Park, Eastern Zone, US Forest	Surface Location	
Dip:	66.638°	Date:	04-Dec-2015
Model:	Model (2015)	Lat:	N 32 D 22.34
Gravities:	7.283°	Long:	W 102 F 02.02
		Easting:	616246.581015
		Grid Contour:	1.1848°
		Grid Fact:	0.889352466
		Plat:	
Microtopography			
		YO Ref:	AKG20461n above MSL
		YO Ref:	23 Fd In
		YO Ref:	YO Ref Canyon 23 Fd 64 Road MA 170dc1c

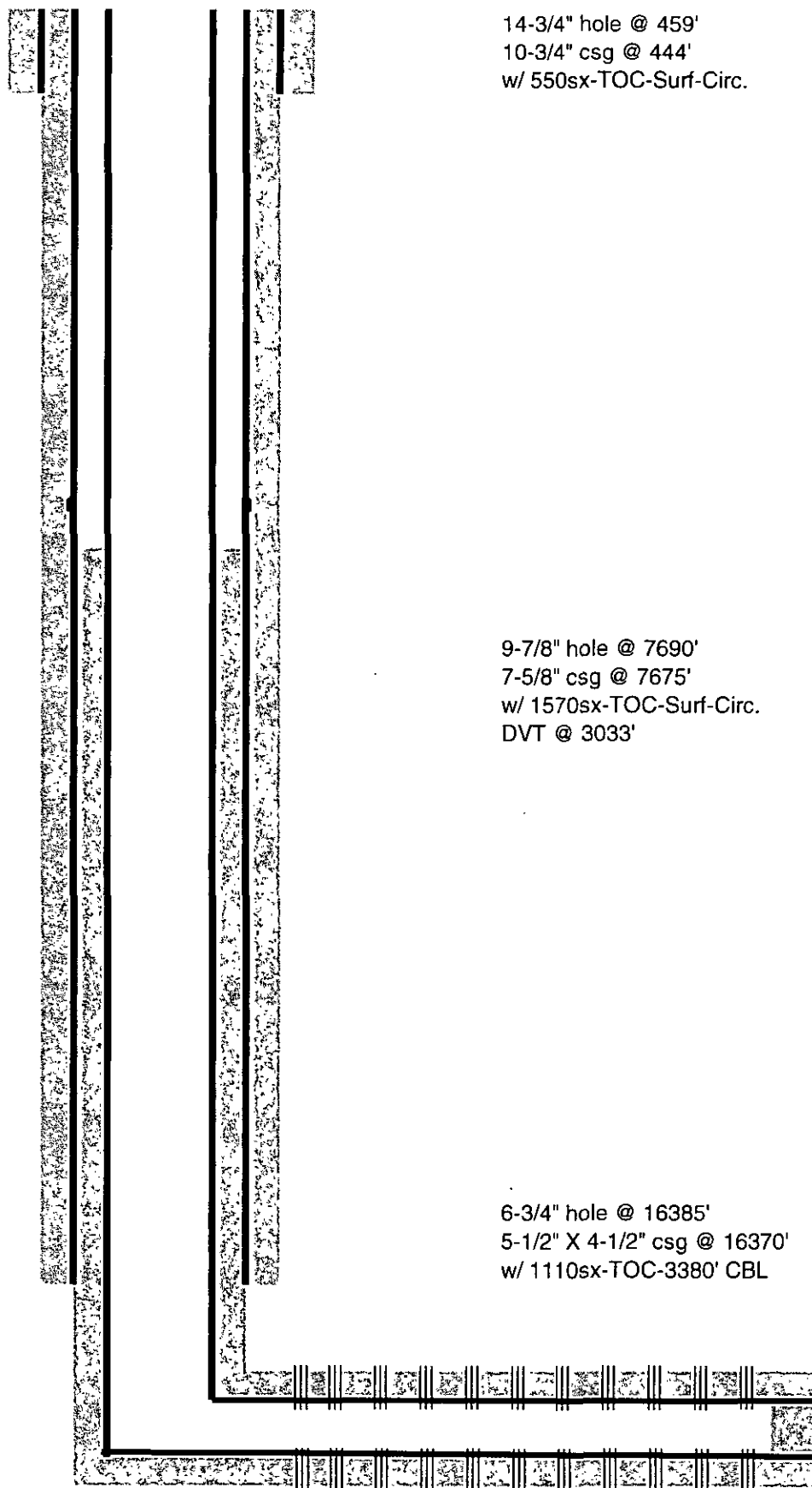
Comments	Critical Points													
	Survey MDTN	Inclination(deg)	Azimuth(deg)	TUD(ft)	Sub-Sea TUD	VS(ft)	HS(ft)	EY(ft)	Latitude(deg)	Longitude(deg)	Easting(ftUS)	Northing(ftUS)	DLS71004	Tool Face(deg)
Itch -Dip 27100 DLS to 86" Inc	12764.00	89.72	91.32	8922.61	5954.71	4322.02	784.20	4264.22	N 32 12 30.97 W	103 57 0.361	618330.84	439921.16	0.50	-180.00
Build 27100 DLS to 86.7" Inc	12950.23	86.00	91.32	8930.56	5961.66	4506.63	779.92	4450.24	N 32 12 30.928 W	103 56 58.196	618716.84	439916.87	2.80	-34.59
Hold 88.7" Inc	13114.04	88.70	89.46	8938.13	5969.23	4669.26	778.80	4513.84	N 32 12 30.911 W	103 56 55.292	618880.43	439915.76	2.80	0.00
Bottom Perf	16300.34	88.70	89.46	9010.50	6041.60	7841.01	808.81	7799.19	N 32 12 31.094 W	103 56 19.219	622065.53	439845.77	0.00	0.00
80' Past 330' HL	16385.34	88.70	89.46	9012.43	6043.53	7925.62	809.61	7884.16	N 32 12 31.098 W	103 56 18.220	622150.50	439846.57	0.00	



CONTROLLED

6	Name		Mr. John A. Smith
5	Address		123 Main St., Apt. 4B, New York, NY 10001
4	City/State/Zip		New York, NY 10001
3	Phone		(212) 555-1234
2	Occupation		Software Engineer
1	Date		10/26/2023

OXY USA INC.
Cedar Canyon 23 Federal #5H
API No. 30-015-43282



Perfs @ 9166-16263'

TD- 16385'M 9014'V