

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

May 31, 2016

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

Re:

Sec 28, T23S, R29E, Eddy NM
N 32.26885 W 103.99166

CLIENT: OXY USA INC.
WELL: Cypress 33 Federal Com 9H
FIELD: Cedar Canyon Bone Spring

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-43751
JOB NO: 16MLD0503

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>
Leslie Bullard FS	Cypress 33 Federal Com 9H Original Hole	403.00 Ft to 14976.00 Ft	May 16, 2016 to May 24, 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

Offshore 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:
Sec 28, T23S, R29E, Eddy NM
N 32.26885 W 103.99166

I, Leslie Bullard certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 16, 2016 through May 24, 2016, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 403.00 feet to a depth of 14976.00 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 Cypress 33 Federal Com 9H Well (Original Hole) API No. 30-015-43751 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
Leslie Bullard
FS

Leslie Bullard

Subscribed and Sworn to before me this 31st day of May (month) 2016 (yr)

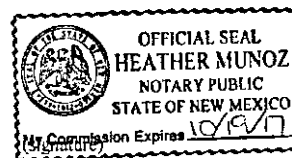
My Commission expires:

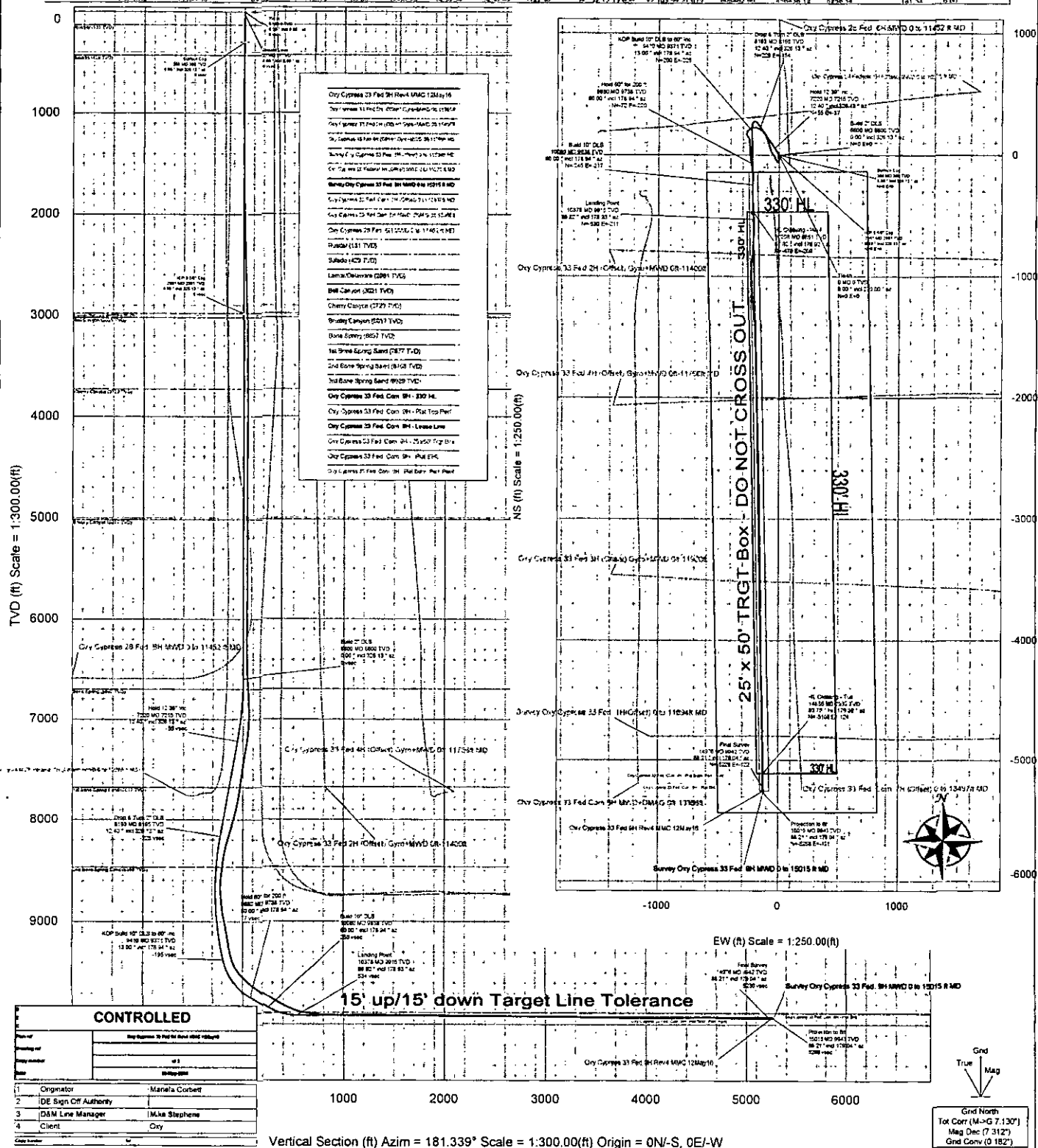
10/19/17

Heather Munoz

Notary Public

Eddy, NM
(County State)



[illegible]

OXY USA INC. Cypress 33 Fed Com 9H MWD 0 to 15015 ft MD Survey Geodetic Report (Def Survey)



Report Date: May 25, 2016 - 09:20 AM
Client: OXY USA INC
Field: Eddy
Structure / Slot: Oxy Cypress 33 Federal Com 9H / Oxy Cypress 33 Fed Com 9H
Well: Cypress 33 Federal Com 9H
Borehole: Original Borehole
API#: 30-015-43751
Survey Name: OXY USA INC Cypress 33 Fed Com 9H MWD 0 to 15015 ft MD
Survey Date: May 16, 2016 to May 24, 2016
Tort / AHD / ODI / ERD Ratio: 230 314 " / 8000 302 ft / 5 320 / 0 603
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 7.8741", W 103° 59' 29.99235"
Location Grid N/E Y/X: N 481694 600 ftUS, E 805605 570 ftUS
CRS Grid Convergence Angle: 0.1824 °
Grid Scale Factor: 0.99992186
Version / Patch: 2.9.365.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 181.339 ° (Grid North)
Vertical Section Origin: 0 000 ft, 0 000 ft
TVD Reference Datum: RKS
TVD Reference Elevation: 3045 100 ft above MSL
Seabed / Ground Elevation: 3019 600 ft above MSL
Magnetic Declination: 7 309 °
Total Gravity Field Strength: 998 4672mgn (9 80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48249 709 nT
Magnetic Dip Angle: 60 128 °
Declination Date: May 13, 2016
Magnetic Declination Model: HDGM 2015
North Reference: Grid North
Grid Convergence Used: 0 1824 °
Total Corr Mag North→Grid North: 7.1269 °
Local Coord Reference To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-in	0.00	0.00	0.00	0.00	-3048.10	0.00	0.00	0.00	N/A	481694.60	805605.57	N 32° 16' 7.87"	W 103° 59' 29.99"
Ground Level	26.50	0.00	0.00	26.50	-3019.60	0.00	0.00	0.00	0.00	481694.60	805605.57	N 32° 16' 7.87"	W 103° 59' 29.99"
	403.00	0.35	6.72	403.00	-2643.10	-1.14	1.14	0.13	0.09	481695.74	805605.70	N 32° 16' 7.88"	W 103° 59' 29.99"
	497.00	0.22	334.90	497.00	-2549.10	-1.59	1.59	0.09	0.21	481696.19	805605.88	N 32° 16' 7.89"	W 103° 59' 29.99"
	589.00	0.35	339.52	589.00	-2458.10	-2.01	2.01	-0.08	0.14	481696.91	805605.49	N 32° 16' 7.89"	W 103° 59' 29.99"
	679.00	0.35	290.09	679.00	-2367.11	-2.35	2.37	-0.44	0.32	481696.96	805605.13	N 32° 16' 7.88"	W 103° 59' 30.00"
	771.00	0.46	279.02	770.99	-2275.11	-2.49	2.52	-1.07	0.15	481697.12	805604.50	N 32° 16' 7.80"	W 103° 59' 30.00"
	862.00	0.73	264.71	861.99	-2184.11	-2.48	2.52	-2.00	0.34	481697.12	805603.57	N 32° 16' 7.90"	W 103° 59' 30.02"
	953.00	1.08	262.62	952.98	-2093.12	-2.28	2.36	-3.43	0.39	481696.96	805602.14	N 32° 16' 7.89"	W 103° 59' 30.03"
	1045.00	1.49	260.63	1044.95	-2001.15	-1.93	2.05	-5.47	0.45	481696.65	805600.10	N 32° 16' 7.88"	W 103° 59' 30.06"
	1139.00	1.05	254.77	1138.93	-1907.17	-1.45	1.93	-7.51	0.49	481696.23	805598.06	N 32° 16' 7.89"	W 103° 59' 30.08"
	1234.00	1.03	102.61	1233.92	-1812.18	-1.04	1.21	-7.52	2.13	481695.81	805598.05	N 32° 16' 7.88"	W 103° 59' 30.08"
	1328.00	0.79	117.74	1327.91	-1718.18	-0.58	0.73	-6.12	0.36	481695.33	805599.45	N 32° 16' 7.88"	W 103° 59' 30.06"
	1423.00	0.79	121.51	1422.90	-1623.20	0.04	0.06	-4.98	0.05	481694.86	805600.59	N 32° 16' 7.87"	W 103° 59' 30.05"
	1518.00	0.57	143.03	1517.90	-1528.20	0.74	-0.64	-4.14	0.35	481693.96	805601.43	N 32° 16' 7.87"	W 103° 59' 30.04"
	1613.00	0.77	160.63	1612.89	-1433.21	1.70	-1.62	-3.64	0.30	481692.98	805601.93	N 32° 16' 7.86"	W 103° 59' 30.03"
	1708.00	0.73	182.98	1707.88	-1338.22	2.91	-2.83	-3.46	0.31	481691.77	805602.11	N 32° 16' 7.84"	W 103° 59' 30.03"
	1802.00	0.88	194.64	1801.87	-1244.23	4.21	-4.12	-3.67	0.24	481690.48	805601.90	N 32° 16' 7.83"	W 103° 59' 30.04"
	1897.00	1.10	207.82	1896.86	-1149.24	5.73	-5.63	-4.28	0.33	481688.97	805601.29	N 32° 16' 7.82"	W 103° 59' 30.04"
	1992.00	1.27	216.03	1991.84	-1054.26	7.42	-7.29	-5.33	0.25	481687.31	805600.24	N 32° 16' 7.80"	W 103° 59' 30.05"
	2087.00	1.58	208.84	2086.81	-959.29	9.44	-9.29	-6.58	0.38	481685.31	805598.99	N 32° 16' 7.78"	W 103° 59' 30.07"
	2182.00	1.82	193.94	2181.77	-864.33	12.08	-11.90	-7.58	0.53	481682.70	805597.99	N 32° 16' 7.75"	W 103° 59' 30.08"
	2277.00	2.26	192.33	2276.71	-769.39	15.39	-15.20	-8.34	0.47	481679.40	805597.23	N 32° 16' 7.72"	W 103° 59' 30.09"
	2371.00	2.44	194.31	2370.63	-675.47	19.16	-18.95	-9.23	0.21	481675.66	805596.34	N 32° 16' 7.68"	W 103° 59' 30.10"
	2468.00	1.10	167.40	2465.58	-580.52	22.01	-21.80	-9.53	1.62	481672.81	805595.04	N 32° 16' 7.66"	W 103° 59' 30.10"
	2561.00	1.45	133.92	2560.58	-485.54	23.71	-23.52	-8.47	0.85	481671.10	805593.10	N 32° 16' 7.64"	W 103° 59' 30.09"
	2656.00	2.22	137.21	2655.51	-390.59	25.85	-25.70	-8.35	0.82	481668.90	805592.22	N 32° 16' 7.62"	W 103° 59' 30.07"
	2750.00	2.70	147.44	2749.42	-296.58	28.39	-28.91	-3.82	0.89	481665.70	805591.65	N 32° 16' 7.59"	W 103° 59' 30.04"
	2902.00	2.40	135.03	2901.27	-144.83	34.16	-34.17	0.25	0.41	481660.43	805600.82	N 32° 16' 7.53"	W 103° 59' 29.99"
	3034.00	1.08	141.54	3033.21	-12.89	37.02	-37.10	2.98	1.01	481657.50	805600.55	N 32° 16' 7.50"	W 103° 59' 29.96"
	3128.00	0.24	314.26	3127.20	81.10	37.57	-37.66	3.39	1.40	481656.94	805600.24	N 32° 16' 7.50"	W 103° 59' 29.95"
	3223.00	0.22	20.83	3222.20	178.10	37.26	-37.35	3.31	0.27	481657.25	805600.88	N 32° 16' 7.50"	W 103° 59' 29.96"
	3318.00	0.24	51.00	3317.20	271.10	36.96	-37.06	3.53	0.13	481657.55	805600.10	N 32° 16' 7.50"	W 103° 59' 29.95"
	3413.00	0.20	209.27	3412.20	366.10	36.98	-37.08	3.91	0.45	481657.53	805600.18	N 32° 16' 7.50"	W 103° 59' 29.95"
	3507.00	0.25	258.19	3506.20	460.10	37.18	-37.27	3.29	0.23	481657.34	805600.86	N 32° 16' 7.50"	W 103° 59' 29.98"
	3602.00	0.26	221.89	3601.20	555.10	37.36	-37.44	2.95	0.18	481657.16	805600.52	N 32° 16' 7.50"	W 103° 59' 29.96"
	3697.00	0.24	134.67	3696.20	650.10	37.62	-37.70	2.68	0.32	481656.90	805600.55	N 32° 16' 7.50"	W 103° 59' 29.96"
	3886.00	0.31	138.78	3885.20	839.10	38.18	-38.26	2.83	0.23	481656.98	805600.24	N 32° 16' 7.49"	W 103° 59' 29.96"
	3981.00	0.22	171.96	3980.20	934.10	38.51	-38.58	2.64	0.31	481656.02	805600.21	N 32° 16' 7.49"	W 103° 59' 29.96"
	4170.00	0.20	51.23	4169.20	1123.10	38.66	-38.74	2.95	0.19	481655.87	805600.82	N 32° 16' 7.49"	W 103° 59' 29.96"
	4360.00	0.18	305.79	4359.20	1313.10	38.27	-38.35	2.97	0.16	481656.25	805600.54	N 32° 16' 7.49"	W 103° 59' 29.96"
	4549.00	0.20	303.89	4548.20	1502.10	37.93	-38.00	2.45	0.01	481656.61	805600.02	N 32° 16' 7.50"	W 103° 59' 29.97"
	4844.00	0.26	202.04	4843.20	1597.10	38.04	-38.10	2.23	0.38	481656.50	805600.80	N 32° 16' 7.49"	W 103° 59' 29.97"
	4736.00	0.25	78.85	4736.20	1692.10	38.20	-38.26	2.36	0.48	481656.34	805600.83	N 32° 16' 7.49"	W 103° 59' 29.97"
	4833.00	0.22	235.18	4832.20	1786.10	38.26	-38.32	2.43	0.50	481656.28	805600.00	N 32° 16' 7.49"	W 103° 59' 29.97"
	4928.00	0.18	174.11	4927.19	1881.09	38.51	-38.58	2.29	0.22	481656.03	805600.86	N 32° 16' 7.49"	W 103° 59' 29.97"
	5023.00	0.24	136.82	5022.19	1980.09	38.80	-38.87	2.44	0.15	481655.73	805600.01	N 32° 16' 7.49"	W 103° 59' 29.97"
	5122.00	0.22	215.03	5121.19	2165.09	38.39	-38.45	2.51	0.17	481655.15	805600.98	N 32° 16' 7.48"	W 103° 59' 29.96"
	5207.00	0.16	262.21	5206.10	2350.09	38.56	-38.62	2.25	0.15	481654.87	805600.82	N 32° 16' 7.48"	W 103° 59' 29.96"
	5401.00	0.24	263.59	5400.19	2354.09	39.81	-39.67	1.91	0.06	481654.94	805600.48	N 32° 16' 7.48"	W 103° 59' 29.97"
	5496.00	0.15	321.35	5495.19	2449.09	39.54	-39.59	1.84	0.21	481655.01	805600.21	N 32° 16' 7.48"	W 103° 59' 29.97"
	5591.00	0.20	357.38	5590.19	2544.09	39.28	-39.33	1.55	0.12	481655.27	805600.12	N 32° 16' 7.48"	W 103° 59' 29.98"
	5686.00	0.18	34.50	5685.19	2639.09	38.69	-39.04	1.63	0.13	481655.56	805600.20	N 32° 16' 7.49"	W 103° 59' 29.97"
	5780.00	0.20	20.05	5779.19	2733.09	38.71	-38.76	1.77	0.06	481655.84	805600.34	N 32° 16' 7.49"	W 103° 59' 29.97"
	5875.00	0.24	325.21	5874.19	2828.09	38.39	-38.45	1.71	0.22	481655.15	805600.28	N 32° 16' 7.49"	W 103° 59' 29.97"
	5970.00	0.29	339.45	5969.19	2923.09	38.01	-38.06	1.51	0.09	481655.55	805600.08	N 32° 16' 7.49"	W 103° 59' 29.98"
	6160.00	0.24	198.38	6159.19	3113.09	37.95	-37.98	1.22	0.26	481656.62	805600.79	N 32° 16' 7.50"	W 103° 59' 29.98"
	6349.00	0.20	42.62	6348.19	3302.09	38.08	-38.12	1.32	0.23	481656.49	805600.59	N 32° 16' 7.49"	W 103° 59' 29.99"
	6538.00	0.15	193.19	6538.15	3491.09	40.92	-40.96	0.82	1.10	481653.66	805600.39	N 32° 16' 7.47"	W 103° 59' 29.99"
	6634.00	0.36	185.60	6633.04	3586.94	45.42	-45.43	0.17	1.77	481649.17	805600.74	N 32° 16' 7.42"	W 103° 59' 29.99"
	6686.00	0.47	189.94	6684.63	3638.83	48.85	-48.86	-0.31	1.13	481645.75	805600.26	N 32° 16' 7.39"	W 103° 59' 30.00"
	6729.00	3.80	189.85	6727.83	3681.73	51.70	-51.69	-0.80	1.09	481642.91	805600.77	N 32° 16' 7.36"	W 103° 59' 30.00"
	6785.00	3.30	193.31	6783.73	3737.63	55.01	-54.99	-1.46	0.66	481639.61	805600.11	N 32° 16' 7.33"	W 103° 59' 30.01"
	6918.00	2.18	247.76	6916.60	3870.50	59.77	-59.68	-4.69	2.03	481634.93	805600.89	N 32° 16' 7.28"	W 103° 59' 30.05"
	7013.00	3.76	304.63	7011.48	3965.38	59.77	-59.68	-8.91	3.33	481636.03	805600.66	N 32° 16' 7.29"	W 103° 59' 30.10"
	7108.00	3.29	317.84	7106.12	4060.02	53.29	-52.95	-14.94	2.87	481641.65	805600.63	N 32° 16' 7.35"	W 103° 59' 30.17"
	7202.00	8.88	324.71	7199.29	4153.19	43.75	-43.23	-22.58	2.94	481651.37	805600.00	N 32° 16' 7.44"	W 103° 59' 30.26"
	7297.00	11.73	333.00	7292.75	4246.65</								

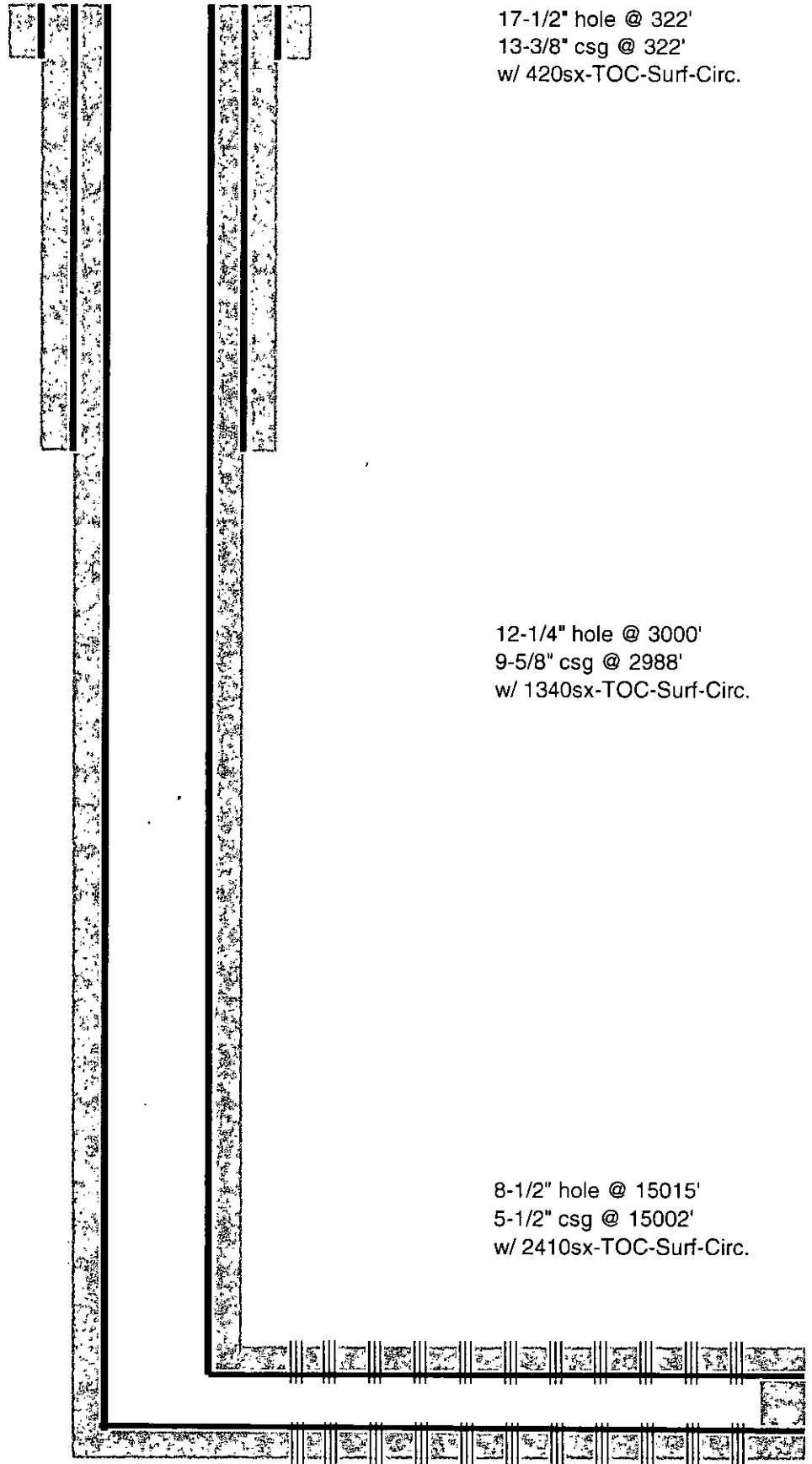
Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	TVDSS (ft)	VSEC (s)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	9339.00	12.88	150.35	6281.44	6235.34	-132.30	138.20	-250.85	2.00	481832.79	605354.74	N 32 16 9.25	W 103 59 32.91
	9434.00	18.39	177.62	9373.01	9328.91	-108.22	113.97	-244.87	9.52	481808.58	605360.62	N 32 16 9.01	W 103 59 32.84
	9529.00	32.68	174.26	8458.51	8412.41	-87.60	73.27	-241.77	15.11	481767.88	605363.82	N 32 16 8.60	W 103 59 32.81
	9623.00	44.23	177.19	9532.01	9485.91	-49.51	15.07	-237.61	12.44	481709.67	605367.98	N 32 16 8.03	W 103 59 32.76
	9718.00	50.38	169.63	9596.44	9550.34	-59.52	-54.17	-229.57	8.56	481640.44	605376.02	N 32 16 7.34	W 103 59 32.67
	9813.00	55.34	173.04	9653.79	9607.69	-134.10	-129.03	-218.43	5.84	481565.58	605387.18	N 32 16 6.60	W 103 59 32.54
	9908.00	57.58	181.04	9706.53	9650.23	-212.96	-208.00	-214.42	7.40	481486.81	605391.17	N 32 16 5.82	W 103 59 32.50
	10002.00	60.43	182.05	9754.74	9708.64	-293.53	-288.54	-218.50	3.17	481406.08	605398.98	N 32 16 5.02	W 103 59 32.53
	10097.00	60.26	175.67	9801.77	9755.67	-375.96	-371.03	-215.18	5.56	481323.60	605390.41	N 32 16 4.21	W 103 59 32.51
	10192.00	68.45	176.63	9844.36	9798.26	-480.50	-455.72	-209.72	6.55	481238.91	605395.87	N 32 16 3.37	W 103 59 32.45
	10287.00	74.58	178.28	9876.02	9829.92	-549.78	-545.12	-205.78	8.71	481149.53	605399.81	N 32 16 2.48	W 103 59 32.41
	10382.00	82.11	181.87	9895.20	9849.10	-642.71	-638.07	-205.94	8.75	481056.58	605399.65	N 32 16 1.59	W 103 59 32.41
	10478.00	85.59	183.53	9905.27	9859.17	-736.13	-731.41	-210.34	4.10	480963.25	605395.24	N 32 16 0.64	W 103 59 32.47
	10570.00	88.90	184.31	9909.79	9863.69	-829.91	-825.07	-216.76	3.62	480869.50	605388.83	N 32 15 59.71	W 103 59 32.55
	10665.00	90.21	182.04	9910.53	9864.43	-924.85	-919.91	-222.02	2.76	480774.76	605383.57	N 32 15 58.78	W 103 59 32.61
	10759.00	90.21	178.99	9910.19	9864.09	-1018.83	-1013.90	-222.87	3.24	480680.78	605382.72	N 32 15 57.85	W 103 59 32.63
	10854.00	90.45	177.07	9909.64	9863.54	-1113.86	-1108.83	-219.80	2.04	480585.85	605385.99	N 32 15 56.91	W 103 59 32.59
	10949.00	89.83	176.07	9909.41	9863.31	-1208.33	-1203.86	-213.92	1.24	480491.03	605391.67	N 32 15 55.97	W 103 59 32.53
	11044.00	90.14	175.25	9909.43	9863.33	-1302.94	-1298.45	-207.56	0.98	480396.25	605398.03	N 32 15 55.03	W 103 59 32.46
	11139.00	89.69	177.48	9909.57	9863.47	-1397.65	-1393.30	-202.34	1.36	480301.41	605403.24	N 32 15 54.09	W 103 59 32.40
	11238.00	89.59	178.09	9910.76	9864.66	-1586.28	-1582.16	-195.01	0.34	480112.57	605410.58	N 32 15 52.22	W 103 59 32.32
	11318.00	89.48	178.28	9912.30	9866.20	-1775.99	-1772.05	-188.99	0.12	459922.69	605416.60	N 32 15 50.34	W 103 59 32.28
	11407.00	89.45	178.22	9914.07	9867.97	-1964.70	-1960.96	-183.22	0.04	459733.80	605422.37	N 32 15 48.47	W 103 59 32.20
	11497.00	89.48	178.57	9915.84	9869.74	-2154.45	-2150.88	-177.90	0.18	459543.90	605427.69	N 32 15 46.59	W 103 59 32.14
	11591.00	89.66	178.35	9916.55	9870.45	-2248.32	-2244.84	-175.37	0.30	459449.94	605430.21	N 32 15 45.66	W 103 59 32.12
	12181.00	89.62	178.33	9917.74	9871.84	-2438.06	-2434.76	-169.87	0.02	459260.04	605435.72	N 32 15 43.78	W 103 59 32.08
	12370.00	89.31	178.37	9919.50	9873.40	-2628.79	-2623.87	-164.42	0.17	459071.14	605441.16	N 32 15 41.91	W 103 59 32.00
	12560.00	89.48	178.59	9921.51	9875.41	-2818.55	-2813.59	-159.38	0.15	458881.23	605446.20	N 32 15 40.03	W 103 59 31.95
	12655.00	89.21	179.20	9922.90	9876.50	-2908.57	-2903.57	-157.55	0.70	458788.27	605448.03	N 32 15 39.10	W 103 59 31.93
	12750.00	88.14	179.42	9924.79	9878.99	-3008.37	-3003.53	-156.41	1.15	458691.31	605449.17	N 32 15 38.18	W 103 59 31.93
	12844.00	89.66	178.65	9926.60	9880.50	-3108.27	-3097.50	-154.83	1.81	458597.35	605450.76	N 32 15 37.23	W 103 59 31.91
	13034.00	89.45	179.08	9928.07	9881.97	-3209.09	-3204.45	-151.08	0.25	458407.41	605454.52	N 32 15 35.35	W 103 59 31.87
	13128.00	89.04	178.37	9929.31	9883.21	-3383.98	-3381.42	-148.97	0.87	458313.45	605456.81	N 32 15 34.42	W 103 59 31.85
	13223.00	89.07	179.33	9930.88	9884.78	-3478.99	-3476.39	-147.06	1.01	458218.49	605458.52	N 32 15 33.48	W 103 59 31.83
	13318.00	89.45	179.78	9932.11	9886.01	-3573.82	-3571.38	-146.33	0.62	458123.51	605459.25	N 32 15 32.54	W 103 59 31.83
	13413.00	89.52	179.73	9932.96	9886.86	-3668.37	-3666.37	-145.92	0.09	458028.52	605459.96	N 32 15 31.60	W 103 59 31.81
	13602.00	89.48	179.20	9934.61	9888.51	-3857.67	-3855.36	-144.15	0.28	457839.55	605461.43	N 32 15 29.73	W 103 59 31.81
	13697.00	88.97	179.08	9935.89	9889.79	-3952.59	-3950.34	-142.73	0.55	457744.58	605462.85	N 32 15 28.79	W 103 59 31.80
	13792.00	89.52	179.45	9937.15	9891.05	-4047.52	-4045.32	-141.51	0.70	457649.60	605464.07	N 32 15 27.85	W 103 59 31.79
	13886.00	90.34	179.83	9937.28	9891.16	-4141.48	-4139.32	-140.92	0.98	457555.61	605464.66	N 32 15 26.92	W 103 59 31.79
	14078.00	91.41	179.47	9934.36	9888.26	-4331.31	-4329.27	-138.02	0.93	457465.68	605467.56	N 32 15 25.04	W 103 59 31.78
	14265.00	91.27	178.61	9929.94	9883.84	-4520.03	-4518.15	-133.12	0.12	457376.81	605472.46	N 32 15 23.17	W 103 59 31.71
	14360.00	88.73	178.85	9929.94	9883.84	-4614.92	-4613.12	-131.03	2.69	457281.85	605474.55	N 32 15 22.23	W 103 59 31.69
	14454.00	88.69	179.03	9932.06	9885.96	-4708.82	-4707.08	-129.30	0.19	456987.90	605476.28	N 32 15 21.30	W 103 59 31.67
	14549.00	88.52	178.68	9934.37	9888.27	-4803.71	-4802.04	-127.65	0.19	456892.95	605477.93	N 32 15 20.36	W 103 59 31.66
	14644.00	88.49	179.10	9936.85	9890.75	-4898.60	-4896.99	-126.06	0.13	456798.00	605479.52	N 32 15 19.42	W 103 59 31.64
	14834.00	90.10	179.53	9939.18	9893.08	-5086.46	-5086.96	-123.79	0.88	456608.05	605481.79	N 32 15 17.54	W 103 59 31.62
	14928.00	88.52	178.89	9940.32	9894.22	-5182.39	-5180.94	-122.49	1.81	456514.08	605483.08	N 32 15 16.61	W 103 59 31.61
Final Survey	14978.00	88.21	179.04	9941.69	9895.59	-5230.33	-5228.91	-121.82	0.72	456466.11	605483.90	N 32 15 16.13	W 103 59 31.60
Projection to Bit	15015.00	88.21	179.04	9942.90	9896.80	-5269.27	-5267.89	-120.97	0.00	456427.14	605484.61	N 32 15 15.75	W 103 59 31.60

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 -- 3-D 95 000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	25.500	Act Stns	30.000	30.000	NAL_MWD_HDGM-Depth Only	Oxy Cypress 33 Fed. Com. 9H - Original Borehole / Survey Oxy
	1	25.500	403.000	1/68 425	30.000	30.000	NAL_MWD_HDGM	Oxy Cypress 33 Fed. Com. 9H - Original Borehole / Survey Oxy
	1	403.000	15015.000	Act Stns	30.000	30.000	NAL_MWD_HDGM	Oxy Cypress 33 Fed. Com. 9H - Original Borehole / Survey Oxy

OXY USA INC.
Cypress 33 Federal Com #9H
API No. 30-015-43751



Perfs @ 10343-14797'

TD- 15015'M 9943'V