

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 NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 29 2016

May 31, 2016

RECEIVED

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

Rc:

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

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

Sec 28, T2S, R29E, Eddy NM
N 32.26885 W 103.99166

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	Cypress 33 Federal Corn 9H	403.00 Ft to	May 16, 2016 to	TelePacer
FS	Original Hole	14976.00 Ft	May 24, 2016	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-10
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

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 & StimPulse 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 911 Well (Original Hole) API No. 30-015-13751 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
TS

Leslie Bullard

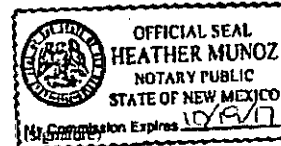
Subscribed and Sworn to before me this 31st day of May (month) 2016 (yr)

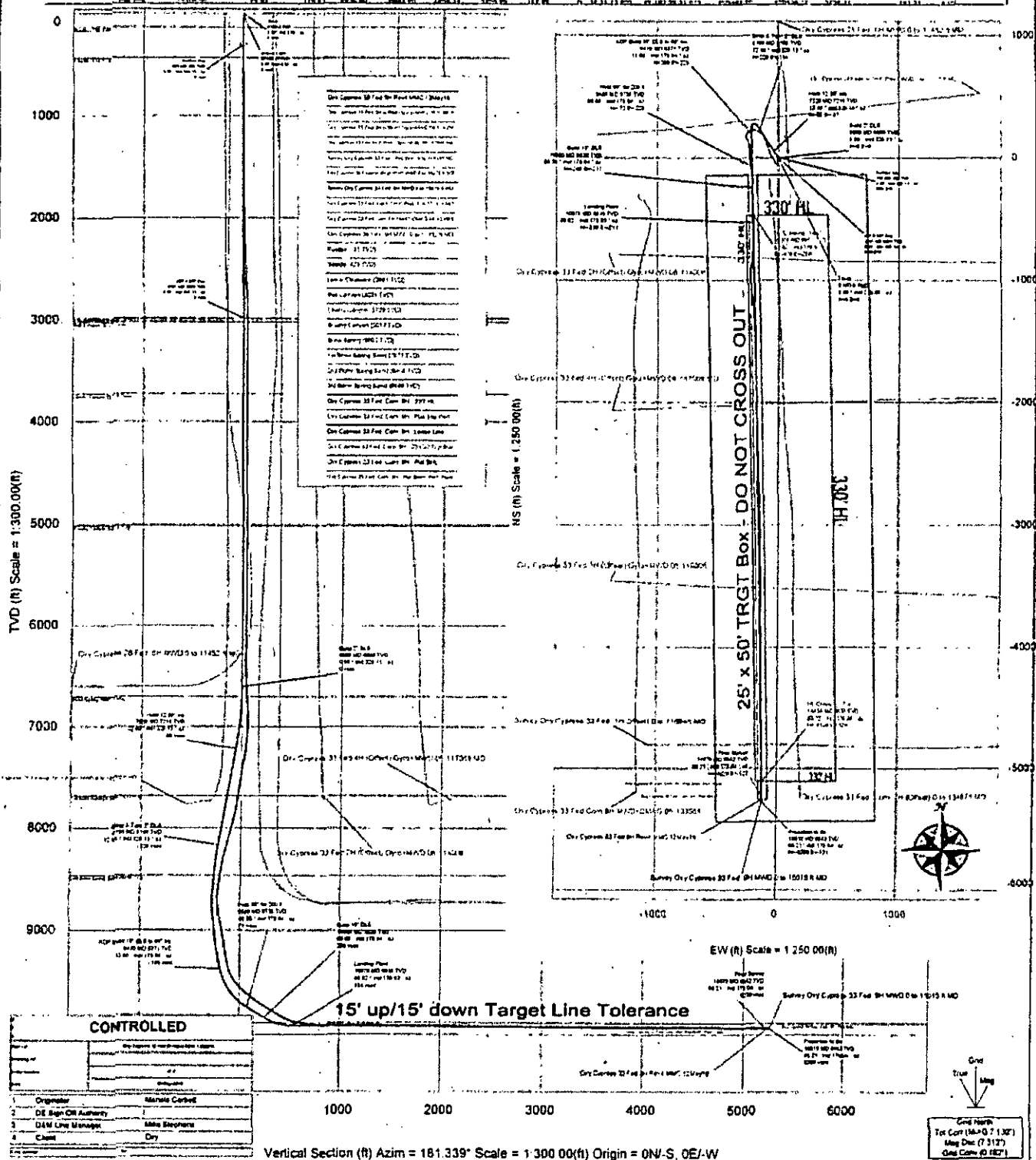
My Commission expires:

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
APIS: 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
Tert / AHD / DDH / ERD Ratio: 230 314' / 8000 302 ft / 8 320' / 0 803
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 31° 16' 7.87141", W 103° 58' 29.98235"
Location Grid N/E Y/X: N 481894 600 RUS E 805605 570 RUS
CRS Grid Convergence Angle: 0.1824°
Grid Scale Factor: 0.99992185
Version / Patch: 2.9 365.0

Survey / DLS Computation:
Vertical Section Azimuth: 181.320° (Grid North)
Vertical Section Origin: 0 000 ft, 0 000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3048.100 ft above MSL
Seabed / Ground Elevation: 3019.000 ft above MSL
Magnetic Declination: 7.300°
Total Gravity Field Strength: 996.4672 mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48249.709 nT
Magnetic Dip Angle: 80.129°
Declination Date: May 13, 2016
Magnetic Declination Model: MOGAM 2015
North Reference: Grid North
Grid Convergence Used: 0.1824°
Total Com Mag North to Grid North: 7.1268°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSECC (ft)	NS (ft)	EW (ft)	DLS (ft/100m)	Northings (ft)	Eastings (ft)	Latitude (°)	Longitude (°)
True-In	0.00	0.00	0.00	0.00	-3048.10	0.00	0.00	0.00	0.00	481894.60	805605.57	N 31.16	W 103.58
Ground Level	26.50	0.00	0.00	26.50	-3018.60	0.00	0.00	0.00	0.00	481894.60	805605.57	N 32.16	W 103.58
	403.00	0.35	8.72	403.00	-2843.10	-1.14	1.14	0.13	0.09	481895.74	805605.70	N 32.16	W 103.58
	497.00	0.22	334.90	497.00	-2549.10	-1.59	1.59	0.09	0.21	481898.10	805605.98	N 32.16	W 103.58
	586.00	0.35	329.52	586.00	-2458.10	-2.81	2.81	-0.06	0.14	481908.61	805605.49	N 32.16	W 103.58
	678.00	0.35	290.09	678.00	-2367.11	-2.35	2.37	-0.44	0.32	481908.98	805605.13	N 32.16	W 103.58
	771.00	0.46	279.02	770.99	-2275.11	-2.49	2.52	-1.07	0.15	481907.12	805604.50	N 32.16	W 103.58
	862.00	0.73	264.71	861.99	-2184.11	-2.48	2.52	-2.00	0.34	481907.12	805603.57	N 32.16	W 103.58
	953.00	1.04	262.82	952.99	-2093.12	-2.28	2.36	-3.43	0.39	481906.90	805602.14	N 32.16	W 103.58
	1045.00	1.49	260.63	1044.93	-2001.16	-1.93	2.05	-5.47	0.45	481906.65	805600.10	N 32.16	W 103.58
	1139.00	1.05	254.77	1138.93	-1907.17	-1.45	1.63	-7.51	0.49	481906.23	805598.05	N 32.16	W 103.58
	1234.00	1.03	162.81	1233.82	-1812.18	-1.04	1.21	-7.52	2.13	481905.61	805596.05	N 32.16	W 103.58
	1328.00	1.17	117.74	1327.91	-1716.19	-0.54	0.73	-6.12	0.38	481905.33	805594.45	N 32.16	W 103.58
	1423.00	0.78	121.51	1422.90	-1623.20	0.04	0.08	-4.88	0.05	481904.68	805592.50	N 32.16	W 103.58
	1518.00	0.57	143.03	1517.90	-1528.20	0.74	-0.84	-4.14	0.35	481903.90	805590.43	N 32.16	W 103.58
	1613.00	0.77	160.63	1612.89	-1433.21	1.70	-1.02	-3.64	0.30	481902.98	805588.13	N 32.16	W 103.58
	1708.00	0.73	182.98	1707.88	-1338.22	2.91	-3.63	-3.48	0.31	481891.77	805582.11	N 32.16	W 103.58
	1802.00	0.88	184.84	1801.87	-1244.23	4.21	-4.12	-3.67	0.24	481890.48	805580.10	N 32.16	W 103.58
	1897.00	1.10	207.82	1896.86	-1149.24	5.73	-5.63	-4.28	0.23	481888.97	805578.29	N 32.16	W 103.58
	1992.00	1.27	216.03	1991.84	-1054.26	7.42	-7.29	-5.20	0.25	481887.31	805576.24	N 32.16	W 103.58
	2087.00	1.56	208.84	2086.81	-959.29	9.44	-9.29	-6.58	0.39	481885.31	805574.99	N 32.16	W 103.58
	2182.00	1.82	183.84	2181.77	-864.33	12.08	-11.90	-7.56	0.53	481882.70	805573.99	N 32.16	W 103.58
	2277.00	2.26	162.33	2276.71	-769.30	15.19	-15.20	-8.34	0.47	481879.40	805572.21	N 32.16	W 103.58
	2371.00	2.44	194.31	2370.63	-673.47	19.10	-18.95	-9.23	0.21	481875.69	805569.34	N 32.16	W 103.58
	2466.00	1.10	187.40	2465.58	-580.52	22.01	-21.80	-9.53	1.62	481872.81	805566.04	N 32.16	W 103.58
	2561.00	1.45	173.92	2560.58	-485.54	23.71	-23.32	-9.47	0.85	481871.06	805562.10	N 32.16	W 103.58
	2656.00	2.22	137.21	2655.51	-390.58	25.83	-25.70	-9.35	0.82	481868.80	805558.22	N 32.16	W 103.58
	2750.00	2.70	147.44	2749.42	-296.68	28.99	-28.91	-9.22	0.69	481865.70	805554.85	N 32.16	W 103.58
	2847.00	2.40	135.03	2846.17	-144.83	34.10	-34.17	-9.25	0.41	481860.43	805550.42	N 32.16	W 103.58
	3034.00	1.88	141.64	3033.21	-17.88	37.02	-37.10	-2.96	1.01	481857.50	805546.55	N 32.16	W 103.58
	3128.00	0.24	314.26	3127.70	8.11	37.52	-37.68	-2.64	1.45	481858.94	805548.96	N 32.16	W 103.58
	3223.00	0.22	20.63	3222.20	176.10	37.26	-37.35	-3.31	0.27	481857.25	805546.88	N 32.16	W 103.58
	3318.00	0.24	51.00	3317.20	271.10	36.96	-37.08	-3.53	0.13	481857.55	805548.10	N 32.16	W 103.58
	3413.00	0.20	209.27	3412.20	368.10	36.88	-37.04	-3.81	0.45	481857.53	805546.18	N 32.16	W 103.58
	3507.00	0.28	258.18	3506.20	460.10	37.18	-37.27	-3.29	0.23	481857.34	805548.86	N 32.16	W 103.58
	3602.00	0.20	221.48	3601.20	555.10	37.36	-37.44	-2.95	0.18	481857.18	805546.52	N 32.16	W 103.58
	3697.00	0.34	134.87	3696.20	650.10	37.62	-37.70	-2.86	0.32	481858.00	805548.55	N 32.16	W 103.58
	3886.00	0.31	230.78	3885.20	839.10	38.18	-38.26	-2.63	0.23	481858.34	805546.43	N 32.16	W 103.58
	3981.00	0.22	171.06	3980.20	934.10	38.51	-38.58	-2.44	0.31	481858.02	805548.21	N 32.16	W 103.58
	4176.00	0.20	51.23	4175.20	1023.10	38.66	-38.74	-2.95	0.19	481855.97	805546.52	N 32.16	W 103.58
	4362.00	0.18	395.78	4361.20	1113.10	38.27	-38.35	-2.67	0.18	481856.25	805548.54	N 32.16	W 103.58
	4548.00	0.20	303.69	4547.20	1202.10	37.93	-38.00	-2.45	0.01	481856.01	805546.02	N 32.16	W 103.58
	4644.00	0.26	202.04	4643.20	1297.10	38.04	-38.10	-2.23	0.38	481856.50	805547.80	N 32.16	W 103.58
	4739.00	0.28	78.85	4738.20	1392.10	38.20	-38.26	-2.36	0.48	481856.34	805547.83	N 32.16	W 103.58
	4833.00	0.22	235.16	4832.20	1487.10	38.26	-38.32	-2.43	0.50	481856.28	805548.00	N 32.16	W 103.58
	4928.00	0.18	174.11	4927.19	1581.09	38.51	-38.59	-2.29	0.22	481855.03	805547.86	N 32.16	W 103.58
	5023.00	0.22	120.82	5022.18	1676.00	38.67	-38.67	-2.44	0.15	481855.73	805548.01	N 32.16	W 103.58
	5118.00	0.22	215.03	5117.18	1769.09	39.39	-39.45	-2.51	0.15	481855.15	805546.08	N 32.16	W 103.58
	5213.00	0.18	262.21	5212.18	1862.09	39.58	-39.62	-2.25	0.17	481854.98	805547.82	N 32.16	W 103.58
	5307.00	0.24	263.59	5306.19	1954.09	39.61	-39.67	-1.91	0.09	481854.94	805547.84	N 32.16	W 103.58
	5402.00	0.15	321.35	5401.19	2044.09	39.54	-39.59	-1.84	0.21	481855.01	805547.21	N 32.16	W 103.58
	5497.00	0.20	357.38	5496.19	2134.02	39.28	-39.33	-1.55	0.12	481855.27	805547.12	N 32.16	W 103.58
	5592.00	0.18	34.50	5591.18	2223.09	38.99	-39.04	-1.63	0.12	481855.50	805547.20	N 32.16	W 103.58
	5687.00	0.20	20.05	5686.18	2312.09	38.71	-38.76	-1.77	0.06	481855.84	805547.34	N 32.16	W 103.58
	5782.00	0.24	322.21	5781.18	2401.09	38.39	-38.45	-1.85	0.22	481856.18	805547.28	N 32.16	W 103.58
	5877.00	0.29	339.45	5876.19	2490.09	38.01	-38.06	-1.51	0.05	481856.55	805547.09	N 32.16	W 103.58
	5972.00	0.24	198.38	5971.18	2579.09	37.95	-37.98	-1.22	0.28	481856.82	805547.10	N 32.16	W 103.58
	6067.00	0.20	42.82	6066.18	2668.09	38.08	-38.12	-1.32	0.23	481856.49	805546.80	N 32.16	W 103.58
	6162.00	0.19	183.19	6161.18	2757.09	40.83	-40.95	-0.82	1.10	481853.05	805546.30	N 32.16	W 103.58
	6257.00	0.30	185.00	6256.18	2846.09	43.47	-43.43	-0.17	1.77	481849.17	805547.34	N 32.16	W 103.58
	6352.00	0.47	189.94	6351.18	2935.09	48.85	-48.80	-0.31	1.13	481843.75	805548.26	N 32.16	W 103.58
	6447.00	0.30	189.05	6446.18	3024.09	51.70	-51.69	-0.80	1.06	481842.81	805548.17	N 32.16	W 103.58
	6542.00	0.30	185.31	6541.18	3113.09	55.01	-54.99	-1.46	0.90	481839.61	805548.11	N 32.16	W 103.58
	6637.00	0.18	247.70	6636.18	3202.09	58.77	-58.68	-0.89	2.03	481834.03	805548.05	N 32.16	W 103.58
	6732.00	0.30	304.93	6731.18	3291.09	58.77	-58.68	-0.91	3.33	481836.03	805548.08	N 32.16	W 103.58
	6827.00	0.29	317.84	6826.12	3380.07	53.29	-53.25	-1.94	2.87	481841.05	805548.03	N 32.16	W 103.58
	6922.00	0.88	324.71	6921.09	3469.19	43.75	-43.23	-22.58	2.84	481851.37	805548.00	N 32.16	W 103.58
	7017.00	11.73	333.00	7016.25	3558.05	29.36	-28.84	-31.20	3.37	481865.67	805574.37	N 32.16	W 103.58
	7112.00	11.85	333.17	7111.28	3647.08	12.40	-11.47	-39.91	0.08	481883.13	805585.08	N 32.16	W 103.58
	7207.00	6.78	342.22	7206.18	3736.18	-2.25	-2.43	-48.44	2.73	481888.03	805586.45	N 32.16	W 103.58
	7302.00	8.05	325.23	7301.18	3825.27	-14.32	-16.06	-47.85	0.82	481877.68	805587.62	N 32.16	W 103.58
	7397.00	8.26	333.99	7396.18	3914.36	-26.83	-28.36	-45.16	1.60	481872.95	805584.40	N 32.16	W 103.58
	7492.00	10.77	342.22	7491.48	4003.45	-41.28	-42.95	-70.90	3.00	481873.54	805583.68	N 32.16	W 103.58
	7587.00	12.68	342.17	7586.52	4092.54	-56.31	-61.12	-78.73	2.01	481875.71	805582.84	N 32.16	

Comments	MD (ft)	Incl (°)	Azim Grad (°)	TVD (ft)	TVDSS (ft)	VSEC (s)	NS (ft)	EW (ft)	DLS (1/1000)	Northing (ft)	Easting (ft)	Latitude (N 32° 15')	Longitude (W 103° 59')
	6135.00	17.82	150.33	8781.44	8733.34	-132.30	138.20	-250.43	2.60	481833.78	605384.74	N 32° 15' 0.25"	W 103° 59' 32.81"
	9434.00	18.39	177.82	9373.01	9329.91	-108.22	113.87	-244.97	0.52	481808.58	605380.82	N 32° 15' 0.01"	W 103° 59' 32.84"
	9529.00	23.68	174.28	9458.51	9412.41	-87.80	73.27	-241.77	15.11	481787.88	605383.82	N 32° 15' 0.00"	W 103° 59' 32.61"
	9623.00	44.23	177.19	9532.01	9485.91	-8.51	18.07	-237.61	12.44	481709.87	605387.86	N 32° 15' 0.03"	W 103° 59' 32.78"
	9718.00	50.38	189.83	9598.44	9550.34	-29.52	-54.17	-229.57	8.56	481640.44	605376.02	N 32° 15' 7.34"	W 103° 59' 32.87"
	9813.00	55.34	173.04	9653.78	9607.68	-134.10	-129.03	-218.43	5.84	481585.38	605381.18	N 32° 15' 0.80"	W 103° 59' 32.54"
	9908.00	57.58	181.04	9708.33	9660.23	-212.06	-204.00	-214.42	7.40	481488.01	605381.17	N 32° 15' 5.82"	W 103° 59' 32.50"
	10002.00	80.43	182.05	9754.74	9708.64	-291.83	-288.54	-218.60	3.17	481408.08	605388.96	N 32° 15' 5.02"	W 103° 59' 32.53"
	10087.00	60.28	175.87	9801.77	9755.67	-375.06	-371.03	-215.18	5.58	481323.80	605390.41	N 32° 15' 4.21"	W 103° 59' 32.51"
	10182.00	66.43	178.63	9844.36	9798.26	-460.50	-455.72	-208.72	0.55	481238.91	605393.87	N 32° 15' 3.37"	W 103° 59' 32.45"
	10287.00	74.58	176.28	9878.02	9829.92	-548.78	-545.12	-205.78	0.71	481148.83	605399.01	N 32° 15' 2.48"	W 103° 59' 32.41"
	10382.00	82.11	181.87	9905.20	9846.10	-642.71	-638.07	-203.94	0.75	481058.58	605399.03	N 32° 15' 1.56"	W 103° 59' 32.41"
	10478.00	85.89	183.83	9905.27	9849.17	-730.13	-723.41	-210.34	4.10	480963.25	605395.24	N 32° 15' 0.84"	W 103° 59' 32.47"
	10570.00	88.80	184.31	9908.78	9863.86	-825.81	-825.07	-210.78	3.02	480860.80	605384.83	N 32° 15' 59.71"	W 103° 59' 32.55"
	10663.00	90.21	182.04	9910.53	9854.43	-924.85	-918.91	-222.02	2.78	480774.78	605383.57	N 32° 15' 58.78"	W 103° 59' 32.81"
	10759.00	80.21	178.99	9910.18	9854.09	-1018.83	-1013.00	-222.87	3.24	480680.78	605382.72	N 32° 15' 57.85"	W 103° 59' 32.83"
	10854.00	80.48	177.07	9908.84	9863.54	-1113.88	-1108.83	-219.80	2.04	480585.85	605383.89	N 32° 15' 56.81"	W 103° 59' 32.59"
	10949.00	89.83	178.07	9906.41	9863.31	-1208.33	-1203.66	-213.82	1.24	480491.83	605391.87	N 32° 15' 56.87"	W 103° 59' 32.83"
	11044.00	80.14	178.25	9906.43	9863.33	-1302.64	-1298.45	-207.58	0.38	480398.25	605386.03	N 32° 15' 55.83"	W 103° 59' 32.48"
	11138.00	80.89	177.46	9908.57	9863.47	-1397.65	-1393.30	-202.34	1.38	480301.41	605403.24	N 32° 15' 54.89"	W 103° 59' 32.48"
	11232.00	80.50	178.09	9910.78	9864.68	-1586.28	-1582.18	-195.01	0.74	480112.57	605410.58	N 32° 15' 52.22"	W 103° 59' 32.37"
	11318.00	80.48	178.28	9912.30	9866.20	-1775.99	-1772.05	-188.98	0.12	480022.69	605418.80	N 32° 15' 50.34"	W 103° 59' 32.28"
	11407.00	89.45	178.22	9914.07	9867.97	-1864.70	-1860.95	-183.22	0.94	480033.80	605422.37	N 32° 15' 48.47"	W 103° 59' 32.28"
	11497.00	89.48	178.87	9916.84	9869.74	-2154.45	-2150.88	-177.80	0.18	480042.80	605427.69	N 32° 15' 46.59"	W 103° 59' 32.14"
	11589.00	89.66	178.35	9918.55	9870.45	-2248.32	-2244.84	-175.37	0.30	480049.04	605430.21	N 32° 15' 45.88"	W 103° 59' 32.12"
	12181.00	88.82	178.33	9917.74	9871.64	-2434.08	-2434.78	-168.87	0.02	480020.04	605435.72	N 32° 15' 43.78"	W 103° 59' 32.08"
	12370.00	88.31	178.37	9918.50	9873.40	-2626.70	-2623.67	-164.42	0.17	480071.14	605441.10	N 32° 15' 41.81"	W 103° 59' 32.02"
	12560.00	88.48	178.59	9921.51	9875.41	-2818.55	-2815.58	-159.38	0.15	480081.23	605446.20	N 32° 15' 40.03"	W 103° 59' 31.95"
	12655.00	88.23	178.20	9922.80	9876.50	-2911.45	-2908.57	-157.55	0.70	480087.27	605448.03	N 32° 15' 38.10"	W 103° 59' 31.93"
	12750.00	88.14	178.42	9924.78	9878.49	-3003.37	-3003.53	-156.41	1.15	480091.31	605449.17	N 32° 15' 36.18"	W 103° 59' 31.93"
	12844.00	89.68	178.65	9926.60	9880.30	-3100.27	-3097.50	-154.83	1.81	480087.35	605450.78	N 32° 15' 37.23"	W 103° 59' 31.91"
	13034.00	89.45	178.08	9928.07	9881.97	-3290.08	-3287.45	-151.08	0.23	480087.41	605454.52	N 32° 15' 35.35"	W 103° 59' 31.87"
	13128.00	89.64	178.37	9929.31	9883.21	-3383.98	-3381.42	-148.97	0.87	480083.45	605458.81	N 32° 15' 34.42"	W 103° 59' 31.85"
	13223.00	89.07	178.33	9930.88	9884.78	-3478.88	-3476.39	-147.06	1.01	480081.48	605458.52	N 32° 15' 33.48"	W 103° 59' 31.83"
	13318.00	89.48	178.78	9932.11	9886.01	-3573.82	-3571.38	-146.33	0.82	480073.51	605458.25	N 32° 15' 32.54"	W 103° 59' 31.83"
	13412.00	89.52	178.73	9933.96	9888.86	-3668.78	-3666.37	-145.82	0.89	480078.52	605458.00	N 32° 15' 31.60"	W 103° 59' 31.83"
	13507.00	89.48	178.20	9934.81	9884.51	-3757.87	-3755.38	-144.18	0.28	480078.55	605461.43	N 32° 15' 29.73"	W 103° 59' 31.81"
	13607.00	89.87	178.08	9935.89	9889.78	-3852.59	-3850.34	-142.73	0.55	480074.58	605462.85	N 32° 15' 28.78"	W 103° 59' 31.80"
	13702.00	89.52	178.45	9937.15	9891.05	-3947.52	-3945.32	-141.51	0.70	480068.80	605464.07	N 32° 15' 27.85"	W 103° 59' 31.78"
	13800.00	89.34	178.83	9937.28	9891.16	-4141.48	-4139.32	-140.92	0.89	480055.81	605464.68	N 32° 15' 26.92"	W 103° 59' 31.77"
	14078.00	91.41	178.42	9934.38	9888.28	-4331.31	-4329.27	-138.02	0.93	480035.88	605467.58	N 32° 15' 25.04"	W 103° 59' 31.76"
	14265.00	91.27	178.61	9928.94	9883.84	-4520.03	-4518.15	-135.12	0.12	480018.81	605472.46	N 32° 15' 23.17"	W 103° 59' 31.71"
	14360.00	88.73	178.86	9929.94	9883.84	-4614.92	-4613.12	-131.03	2.89	480081.85	605474.55	N 32° 15' 22.23"	W 103° 59' 31.89"
	14454.00	88.60	178.03	9932.06	9885.06	-4707.08	-4707.08	-129.30	0.18	480087.00	605478.28	N 32° 15' 21.30"	W 103° 59' 31.67"
	14549.00	88.52	178.84	9934.37	9888.27	-4803.71	-4802.04	-127.85	0.16	480082.85	605477.93	N 32° 15' 20.36"	W 103° 59' 31.84"
	14644.00	88.48	178.10	9936.85	9890.75	-4898.60	-4898.09	-126.08	0.13	480078.00	605479.52	N 32° 15' 19.42"	W 103° 59' 31.86"
	14834.00	90.10	178.53	9939.18	9893.08	-5088.48	-5086.98	-123.79	0.88	480068.05	605481.78	N 32° 15' 17.54"	W 103° 59' 31.82"
	14928.00	88.52	178.89	9940.37	9894.22	-5182.30	-5180.84	-122.49	1.81	480054.08	605483.05	N 32° 15' 16.61"	W 103° 59' 31.81"
	14978.00	88.21	178.04	9941.89	9895.50	-5278.91	-5276.91	-121.82	0.72	480048.11	605483.86	N 32° 15' 16.13"	W 103° 59' 31.80"
Final Survey													
Projection to Dc	15015.00	89.21	178.04	9942.90	8996.80	-5269.27	-5267.89	-120.87	0.08	480427.14	605484.61	N 32° 15' 15.75"	W 103° 59' 31.80"

Survey Type: Del Survey

Survey Error Model: ISCW3A Rev D --- 3.0 95.000% Confidence 2.7955 sigma

Survey Program

Description	Part	MD From (ft)	MD To (ft)	EOI Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	20.500	Act Size	30.000	30.000	NAL_MWD_HDGM-Depth Only	Oxy Cypress 33 Fed. Com. 9H - Original Borehole / Survey Oxy
	1	20.500	403.000	1/64 425	30.000	30.000	NAL_MWD_HDGM	Oxy Cypress 33 Fed. Com. 9H - Original Borehole / Survey Oxy
	1	403.000	15015.000	Act Size	30.000	30.000	NAL_MWD_HDGM	Oxy Cypress 33 Fed. Com. 9H - Original Borehole / Survey Oxy