

Oilfield 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)
Fax : (432) 742-5606 (Shared)

Schlumberger

May 26, 2019

RECEIVED

Oxy USA Incorporated
5 Greenway Plaza, Suite 110
Houston TX 77046

AUG 16 2019

DISTRICT 7 - ARTESIA O.C.D.

Re:

SEC6, T24S, R29E, EDDY NM
N 32° 15' 13.05478" W 104° 1' 29.43163"

CLIENT: Oxy USA Incorporated
WELL: Length CC 6-7 Federal Com 23H
FIELD: Pierce Crossing; Bone Spring

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-45551
JOB NO: 19MLH0187

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>
J. Estrada FS	Length CC 6-7 Federal Com 23H Original Hole	469.00 Ft to 18596.00 Ft	March 25, 2019 to May 26, 2019	SlimPulse

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

A. Salomon
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
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7220 W I-H 20
Midland, Texas 79706
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Schlumberger

Well Reference:

SEC6, T24S, R29E, EDDY NM
32° 15' 13.05478" W 104° 1' 29.43163"

I, J. Estrada certify that: I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 25, 2019 through May 26, 2019, conduct or supervise the taking of the SlimPulse surveys from a depth of 469.00 feet to a depth of 18596.00 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 Incorporated for the Length CC 6-7 Federal Com 23H Well (Original Hole) API No. 30-015-45551 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.

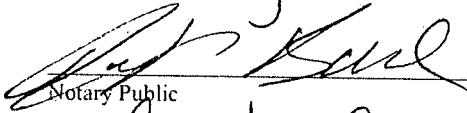
By
J. Estrada
FS



Subscribed and Sworn to before me this 31 day of May (month) 2019 (yr)

My Commission expires:

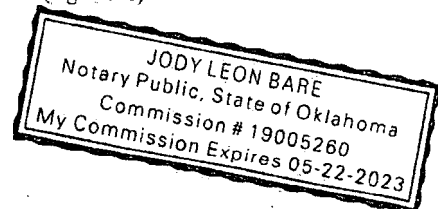
22 May 2023



Notary Public

Grady County Oklahoma
(County State)

(signature)



Oxy Length CC 6-7 Federal Com 23H Gyro+MWD 0-18640' Survey Geodetic Report (Def Survey)



Report Date: May 28, 2019 - 04:36 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Length CC 6-7 Federal Com 23H / Oxy Length CC 6-7 Federal Com 23H
 Well: Oxy Length CC 6-7 Federal Com 23H
 Borehole: Original Borehole
 UWM / API#: H&P636 / 30-015-45551
 Survey Name: Oxy Length CC 6-7 Federal Com 23H Gyro+MWD 0-18640'
 Survey Date: May 28, 2019
 Tort / AHD / DDI / ERD Ratio: 199.159' / 10822.265 ft / 6.684' / 1.303
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 15' 13.05478", W 104° 1' 29.43163"
 Location Grid N/E Y/X: N 456139.550 NUS, E 636702.120 NUS
 CRS Grid Convergence Angle: 0.1646°
 Grid Scale Factor: 0.99991951
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 180.555° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 2985.100 ft above MSL
 Seabed / Ground Elevation: 2958.600 ft above MSL
 Magnetic Declination: 7.027°
 Total Gravity Field Strength: 998.4714mg (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47920.200 nT
 Magnetic Dip Angle: 60.019°
 Declination Date: May 17, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1646°
 Total Corr Mag North->Grid: 6.8624°
 North: 6.8624°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP	0.00	0.00	180.55	0.00	0.00	0.00	0.00	N/A	456139.55	636702.12	N 32 15 13.05 W 104	1 29.43
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	456139.55	636702.12	N 32 15 13.05 W 104	1 29.43
	73.60	0.89	144.52	73.60	0.30	-0.30	0.21	1.89	456139.25	636702.33	N 32 15 13.05 W 104	1 29.43
	162.80	1.24	160.09	162.78	1.76	-1.77	0.94	0.51	456137.78	636703.06	N 32 15 13.04 W 104	1 29.42
	250.00	1.06	166.97	249.97	3.43	-3.44	1.45	0.26	456136.11	636703.57	N 32 15 13.02 W 104	1 29.41
	339.90	1.04	169.80	339.85	5.04	-5.06	1.78	0.06	456134.49	636703.90	N 32 15 13.00 W 104	1 29.41
	430.50	0.80	180.02	430.44	6.48	-6.50	1.92	0.32	456133.05	636704.04	N 32 15 12.99 W 104	1 29.41
	469.00	0.43	188.38	468.94	6.89	-6.91	1.90	0.99	456132.64	636704.02	N 32 15 12.98 W 104	1 29.41
	562.00	0.08	34.08	561.94	7.18	-7.20	1.89	0.54	456132.35	636704.01	N 32 15 12.98 W 104	1 29.41
	747.00	0.08	229.65	746.94	7.16	-7.18	1.86	0.09	456132.37	636703.98	N 32 15 12.98 W 104	1 29.41
	939.00	0.05	191.66	938.94	7.33	-7.35	1.74	0.03	456132.20	636703.82	N 32 15 12.98 W 104	1 29.41
	1033.00	0.08	214.80	1032.94	7.42	-7.44	1.70	0.04	456132.11	636703.71	N 32 15 12.98 W 104	1 29.41
	1127.00	0.09	277.81	1126.94	7.47	-7.48	1.59	0.09	456132.07	636703.62	N 32 15 12.98 W 104	1 29.41
	1221.00	0.05	194.90	1220.93	7.50	-7.51	1.50	0.10	456132.04	636703.54	N 32 15 12.98 W 104	1 29.42
	1315.00	0.12	230.33	1314.93	7.60	-7.62	1.42	0.09	456131.93	636703.26	N 32 15 12.98 W 104	1 29.42
	1503.00	0.16	331.16	1502.93	7.50	-7.51	1.14	0.12	456132.04	636703.21	N 32 15 12.98 W 104	1 29.42
	1697.00	0.08	162.72	1692.93	7.45	-7.46	1.09	0.24	456132.09	636703.12	N 32 15 12.98 W 104	1 29.42
	1792.00	0.13	265.53	1786.93	7.52	-7.53	1.00	0.18	456132.02	636703.07	N 32 15 12.98 W 104	1 29.42
	1887.00	0.08	133.27	1791.93	7.57	-7.58	0.95	0.20	456131.97	636703.03	N 32 15 12.98 W 104	1 29.42
	1981.00	0.13	267.87	1886.93	7.62	-7.63	0.89	0.20	456131.92	636702.93	N 32 15 12.98 W 104	1 29.42
	2076.00	0.12	312.54	1980.93	7.56	-7.57	0.71	0.10	456131.98	636702.83	N 32 15 12.98 W 104	1 29.42
	2264.00	0.07	262.65	2075.93	7.50	-7.51	0.58	0.10	456132.04	636702.70	N 32 15 12.98 W 104	1 29.43
	2358.00	0.13	194.36	2263.93	7.72	-7.73	0.41	0.07	456131.82	636702.53	N 32 15 12.98 W 104	1 29.43
	2453.00	0.07	84.01	2357.93	7.82	-7.83	0.44	0.18	456131.72	636702.56	N 32 15 12.98 W 104	1 29.43
	2548.00	0.09	286.22	2452.93	7.82	-7.83	0.42	0.17	456131.73	636702.54	N 32 15 12.98 W 104	1 29.43
	2643.00	0.08	51.53	2547.93	7.78	-7.79	0.40	0.17	456131.76	636702.52	N 32 15 12.98 W 104	1 29.43
	2738.00	0.09	145.62	2642.93	7.80	-7.81	0.50	0.13	456131.74	636702.62	N 32 15 12.98 W 104	1 29.43
	2833.00	0.02	246.75	2737.93	7.87	-7.88	0.52	0.10	456131.67	636702.64	N 32 15 12.98 W 104	1 29.43
	2932.00	0.07	280.44	2832.93	7.87	-7.87	0.45	0.06	456131.68	636702.57	N 32 15 12.98 W 104	1 29.43
	3027.00	0.15	318.73	2931.93	7.76	-7.77	0.30	0.11	456131.79	636702.42	N 32 15 12.98 W 104	1 29.43
	3122.00	0.07	267.66	3026.93	7.67	-7.67	0.16	0.13	456131.88	636702.28	N 32 15 12.98 W 104	1 29.43
	3216.00	0.09	337.09	3121.93	7.61	-7.61	0.08	0.10	456131.94	636702.20	N 32 15 12.98 W 104	1 29.43
	3408.00	0.08	120.47	3215.93	7.57	-7.57	0.11	0.17	456131.98	636702.23	N 32 15 12.98 W 104	1 29.43
	3502.00	0.08	301.68	3405.93	7.57	-7.57	0.11	0.08	456131.98	636702.23	N 32 15 12.98 W 104	1 29.43
	3596.00	0.09	68.51	3501.93	7.51	-7.51	0.11	0.15	456132.04	636702.23	N 32 15 12.98 W 104	1 29.43
	3691.00	0.09	154.95	3595.93	7.55	-7.55	0.20	0.12	456132.00	636702.32	N 32 15 12.98 W 104	1 29.43
	3785.00	0.08	354.30	3690.93	7.54	-7.55	0.23	0.19	456132.00	636702.35	N 32 15 12.98 W 104	1 29.43
	3879.00	0.05	54.78	3784.93	7.43	-7.44	0.28	0.09	456132.11	636702.39	N 32 15 12.98 W 104	1 29.43
	3974.00	0.12	242.48	3878.93	7.41	-7.42	0.29	0.14	456132.13	636702.41	N 32 15 12.98 W 104	1 29.43
	4163.00	0.13	87.79	3973.93	7.43	-7.43	0.35	0.18	456132.12	636702.47	N 32 15 12.98 W 104	1 29.43
	4257.00	0.05	66.05	4162.93	7.33	-7.34	0.75	0.03	456132.21	636702.87	N 32 15 12.98 W 104	1 29.42
	4352.00	0.08	177.96	4256.93	7.33	-7.34	0.85	0.17	456132.22	636702.97	N 32 15 12.98 W 104	1 29.42
	4448.00	0.09	114.14	4351.93	7.39	-7.40	0.91	0.08	456132.15	636703.03	N 32 15 12.98 W 104	1 29.42
	4542.00	0.05	240.95	4447.93	7.46	-7.47	0.90	0.16	456132.08	636703.02	N 32 15 12.98 W 104	1 29.42
	4731.00	0.07	359.11	4541.93	7.45	-7.46	0.84	0.13	456132.09	636702.96	N 32 15 12.98 W 104	1 29.42
	4825.00	0.07	170.03	4730.93	7.49	-7.49	0.86	0.06	456132.06	636702.98	N 32 15 12.98 W 104	1 29.42
	4920.00	0.12	294.76	4824.93	7.52	-7.53	0.82	0.13	456132.02	636702.94	N 32 15 12.98 W 104	1 29.42
	5109.00	0.08	173.96	4919.93	7.59	-7.60	0.77	0.18	456131.95	636702.89	N 32 15 12.98 W 104	1 29.42
	5298.00	0.08	207.37	5108.93	7.91	-7.91	0.73	0.04	456131.64	636702.85	N 32 15 12.98 W 104	1 29.42
	5394.00	0.05	45.04	5297.93	7.93	-7.94	0.77	0.08	456131.61	636702.89	N 32 15 12.98 W 104	1 29.42
	5488.00	0.07	46.51	5393.93	7.85	-7.86	0.84	0.03	456131.69	636702.96	N 32 15 12.98 W 104	1 29.42
	5582.00	0.08	293.78	5487.93	7.80	-7.81	0.82	0.11	456131.74	636702.94	N 32 15 12.98 W 104	1 29.42
	5677.00	0.05	189.09	5581.93	7.85	-7.85	0.76	0.13	456131.70	636702.88	N 32 15 12.98 W 104	1 29.42
	5865.00	0.05	85.30	5676.93	7.91	-7.92	0.79	0.11	456131.64	636702.91	N 32 15 12.98 W 104	1 29.42
	6054.00	0.08	95.09	5864.93	7.91	-7.92	0.95	0.00	456131.64	636703.07	N 32 15 12.98 W 104	1 29.42
	6243.00	0.34	116.04	6053.93	7.97	-7.98	1.15	0.02	456131.57	636703.27	N 32 15 12.98 W 104	1 29.42
	6339.00	0.22	162.02	6242.93	8.56	-8.57	1.45	0.15	456130.98	636703.57	N 32 15 12.97 W 104	1 29.42
	6433.00	0.88	213.66	6338.93	8.98	-9.00	1.43	0.28	456130.55	636703.55	N 32 15 12.97 W 104	1 29.42
			335.94	6432.93	8.48	-8.49	1.04	1.08	456131.06	636703.16	N 32 15 12.97 W 104	1 29.42
Bone Spring Intersection	6450.08	1.01	336.29	6450.00	8.22	-8.23	0.92	0.78	456131.32	636703.04	N 32 15 12.97 W 104	1 29.42
	6527.00	1.61	337.10	6526.90	6.61	-6.61	0.23	0.78	456132.94	636702.35	N 32 15 12.99 W 104	1 29.43
	6622.00	3.66	335.88	6621.80	2.63	-2.61	-1.53	2.16	456136.94	636700.59	N 32 15 13.03 W 104	1 29.45
	6716.00	5.74	335.64	6715.48	-4.36	-4.41	-4.70	2.21	456143.96	636697.43	N 32 15 13.10 W 104	1 29.49
	6810.00	7.55	335.31	6808.84	-14.21	-14.30	-9.21	1.93	456153.85	636692.91	N 32 15 13.20 W 104	1 29.54
	6905.00	9.16	333.82	6902.83	-26.61	-26.76	-15.16	1.71	456166.31	636686.96	N 32 15 13.32 W 104	1 29.61
	6999.00	9.44	330.55	6995.59	-39.97	-40.18	-22.25	0.64	456179.73	636679.87	N 32 15 13.45 W 104	1 29.69
	7094.00	10.03	329.98	7089.23	-53.84	-54.13	-30.22	0.63	456193.68	636671.90	N 32 15 13.59 W 104	1 29.78
	7188.00	10.57	332.40	7181.71	-68.49	-68.86	-38.31	0.74	456208.40	636663.82	N 32 15 13.74 W 104	1 29.88
	7283.00	12.10	335.50	7274.86	-85.19	-85.64	-46.47	1.73	456225.19	636655.65	N 32 15 13.90 W 104	1 29.97
	7377.00	13.71	330.12	7366.48	-103.72	-104.27	-56.11	2.14	456243.81	636646.01	N 32 15 14.09 W 104	1 30.08
	7471.00	15.14	327.98	7457.52	-123.67	-124.34	-68.17	1.62	456263.88	636633.96	N 32 15 14.29 W 104	1 30.22
	7565.00	14.70	327.75	7548.35	-144.04	-144.83	-81.04	0.47	456284.37	636621.08	N 32 15 14.49 W 104	1 30.37
	7681.00	11.42	319.28	7661.34	-165.05	-165.99	-96.39	3.27	456305.53	636605.74	N 32 15 14.70 W 104	1 30.55
	7753.00	10.79	278.05	7732.10	-171.29	-172.35	-107.73	10.83	456311.88	636594.40	N 32 15 14.76 W 104	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
100' FNL Crossing	7966.60	23.99	190.10	7936.73	-130.29	131.69	-143.70	13.54	456271.23	636558.43	N 32 15 14.36 W 104	1 31.10
	8036.00	33.09	185.16	7997.64	-97.42	98.86	-147.88	13.54	456238.40	636554.25	N 32 15 14.04 W 104	1 31.15
	8131.00	43.67	180.19	8072.02	-38.59	40.05	-150.33	11.59	456179.60	636551.80	N 32 15 13.46 W 104	1 31.18
	8226.00	46.31	184.35	8139.22	28.50	-27.02	-153.05	4.16	456112.53	636549.08	N 32 15 12.79 W 104	1 31.21
	8321.00	52.70	182.85	8200.88	100.61	-99.08	-157.54	6.83	456040.47	636544.60	N 32 15 12.08 W 104	1 31.27
	8415.00	67.23	183.36	8247.80	181.68	-180.12	-161.96	15.46	455959.44	636540.17	N 32 15 11.28 W 104	1 31.32
	8510.00	85.02	181.00	8270.50	273.50	-271.91	-165.38	18.88	455867.66	636536.75	N 32 15 10.37 W 104	1 31.37
	8563.00	85.71	180.35	8274.78	326.33	-324.73	-166.00	1.79	455814.84	636536.13	N 32 15 9.85 W 104	1 31.38
	8612.00	85.26	182.46	8278.64	375.17	-373.56	-167.20	4.39	455766.02	636534.93	N 32 15 9.36 W 104	1 31.39
	8770.00	86.99	180.10	8289.32	532.77	-531.15	-170.72	1.85	455608.45	636531.42	N 32 15 7.80 W 104	1 31.44
	8863.00	88.47	179.76	8293.00	625.69	-624.07	-170.60	1.63	455515.53	636531.53	N 32 15 6.88 W 104	1 31.44
	8957.00	89.50	179.35	8294.66	719.66	-718.05	-169.87	1.18	455421.56	636532.26	N 32 15 5.95 W 104	1 31.43
	9050.00	89.47	179.04	8295.50	812.63	-811.04	-168.57	0.33	455328.58	636533.57	N 32 15 5.03 W 104	1 31.42
	9144.00	88.47	176.62	8297.19	906.50	-904.95	-165.01	2.79	455234.68	636537.12	N 32 15 4.10 W 104	1 31.38
	9237.00	89.60	175.80	8298.76	999.22	-997.73	-158.86	1.50	455141.90	636543.27	N 32 15 3.19 W 104	1 31.31
	9330.00	90.40	176.27	8298.76	1091.93	-1090.50	-152.43	1.00	455049.14	636543.27	N 32 15 2.27 W 104	1 31.24
	9423.00	90.53	176.16	8298.00	1184.66	-1183.30	-146.29	0.18	454956.35	636555.84	N 32 15 1.35 W 104	1 31.17
	9517.00	90.60	176.63	8297.07	1278.41	-1277.11	-140.38	0.51	454862.55	636561.75	N 32 15 0.42 W 104	1 31.11
	9610.00	90.16	176.71	8296.46	1371.19	-1369.95	-134.98	0.48	454769.71	636567.15	N 32 14 59.50 W 104	1 31.05
	9703.00	89.74	176.33	8296.54	1463.96	-1462.78	-129.34	0.61	454676.89	636572.79	N 32 14 58.58 W 104	1 30.99
	9797.00	90.71	177.57	8296.17	1557.77	-1556.64	-124.33	1.67	454583.04	636577.80	N 32 14 57.66 W 104	1 30.93
	9890.00	90.46	178.24	8295.22	1650.67	-1649.57	-120.94	0.77	454490.11	636581.19	N 32 14 56.74 W 104	1 30.89
	9983.00	90.05	178.84	8294.81	1743.61	-1742.54	-118.57	0.78	454397.15	636583.56	N 32 14 55.82 W 104	1 30.87
	10077.00	89.67	179.71	8295.04	1837.58	-1836.53	-117.38	1.01	454303.17	636584.75	N 32 14 54.89 W 104	1 30.86
	10170.00	89.81	181.06	8295.46	1930.58	-1929.53	-118.00	1.46	454210.18	636584.13	N 32 14 53.97 W 104	1 30.87
	10263.00	91.60	182.21	8294.31	2023.55	-2022.48	-120.65	2.29	454117.24	636581.48	N 32 14 53.05 W 104	1 30.90
	10358.00	91.77	182.00	8291.38	2118.47	-2117.37	-124.14	0.42	454022.36	636577.99	N 32 14 52.11 W 104	1 30.95
	10454.00	91.94	181.51	8285.26	2307.33	-2306.18	-129.93	0.27	453833.56	636572.20	N 32 14 50.24 W 104	1 31.02
	10547.00	90.02	181.31	8282.31	2496.28	-2495.09	-134.58	0.93	453644.67	636567.55	N 32 14 48.37 W 104	1 31.08
	10631.00	89.40	181.48	8282.79	2591.27	-2590.06	-136.89	0.68	453549.70	636565.24	N 32 14 47.43 W 104	1 31.11
	10721.00	90.26	180.07	8283.35	2781.26	-2780.04	-139.46	0.87	453359.74	636562.67	N 32 14 45.55 W 104	1 31.15
	10811.00	91.15	180.06	8281.03	2970.23	-2969.02	-139.67	0.47	453170.78	636562.46	N 32 14 43.68 W 104	1 31.16
	10906.00	90.16	179.84	8278.87	3159.21	-3158.00	-139.51	0.54	452981.81	636562.62	N 32 14 41.81 W 104	1 31.16
	11001.00	89.95	179.14	8278.78	3254.19	-3253.00	-138.66	0.77	452886.82	636563.47	N 32 14 40.87 W 104	1 31.15
	11096.00	89.36	179.17	8279.91	3443.13	-3441.98	-135.88	0.31	452697.86	636566.26	N 32 14 39.00 W 104	1 31.13
	11191.00	89.40	179.29	8281.96	3632.07	-3630.95	-133.34	0.07	452508.90	636568.79	N 32 14 37.13 W 104	1 31.11
	11286.00	90.43	179.67	8283.95	3822.02	-3820.93	-131.61	0.20	452318.94	636570.52	N 32 14 35.25 W 104	1 31.09
	11381.00	90.43	180.57	8284.09	3916.02	-3914.93	-131.81	1.46	452224.95	636570.32	N 32 14 34.32 W 104	1 31.10
	11476.00	89.36	180.95	8284.32	4106.02	-4104.91	-134.33	0.56	452034.98	636567.80	N 32 14 32.44 W 104	1 31.13
	11571.00	89.81	180.36	8286.32	4295.00	-4293.88	-136.49	0.31	451846.02	636565.64	N 32 14 30.57 W 104	1 31.16
	11666.00	89.36	180.70	8287.00	4390.00	-4388.88	-136.76	0.63	451751.03	636565.37	N 32 14 29.63 W 104	1 31.17
	11761.00	89.64	180.60	8287.46	4485.00	-4483.88	-137.32	0.79	451656.04	636564.81	N 32 14 28.69 W 104	1 31.18
	11856.00	90.19	180.30	8288.06	4579.99	-4578.87	-138.40	0.11	451561.06	636563.74	N 32 14 27.75 W 104	1 31.20
	11951.00	90.12	180.08	8288.20	4673.99	-4672.86	-139.13	0.67	451467.07	636563.00	N 32 14 26.82 W 104	1 31.21
	12046.00	89.16	180.00	8287.94	4768.99	-4767.86	-139.45	0.24	451372.08	636562.68	N 32 14 25.88 W 104	1 31.21
	12141.00	90.50	180.56	8288.54	4863.98	-4862.86	-139.52	1.01	451277.09	636562.62	N 32 14 24.94 W 104	1 31.22
	12236.00	90.50	180.81	8287.99	4958.98	-4957.86	-139.98	1.53	451182.10	636562.15	N 32 14 24.00 W 104	1 31.23
	12331.00	90.40	181.57	8287.25	5147.97	-5146.82	-143.07	0.26	451087.12	636561.02	N 32 14 23.06 W 104	1 31.24
	12426.00	89.88	182.28	8287.02	5242.94	-5241.77	-146.26	0.82	450993.15	636559.06	N 32 14 22.13 W 104	1 31.27
	12521.00	89.78	183.02	8287.30	5337.87	-5336.66	-150.65	0.93	450898.22	636555.87	N 32 14 21.19 W 104	1 31.31
	12616.00	89.57	181.94	8287.84	5432.82	-5431.65	-154.76	0.79	450803.33	636551.48	N 32 14 20.25 W 104	1 31.36
	12711.00	89.36	180.57	8288.73	5527.80	-5526.54	-156.84	1.16	450708.43	636547.37	N 32 14 19.31 W 104	1 31.42
	12806.00	89.47	178.28	8289.69	5621.79	-5620.54	-156.72	1.46	450613.46	636545.29	N 32 14 18.37 W 104	1 31.44
	12901.00	89.26	178.43	8290.74	5716.74	-5715.51	-154.82	1.38	450519.48	636545.41	N 32 14 17.44 W 104	1 31.44
	13006.00	89.43	178.50	8291.83	5811.67	-5810.47	-152.28	0.92	450424.51	636547.31	N 32 14 16.50 W 104	1 31.43
	13101.00	89.16	178.20	8294.15	5906.52	-5905.38	-146.84	0.19	450329.56	636549.86	N 32 14 15.56 W 104	1 31.40
	13196.00	89.16	177.95	8295.54	6001.42	-6000.21	-143.64	0.21	450234.67	636555.30	N 32 14 13.69 W 104	1 31.34
	13291.00	89.33	178.55	8298.05	6096.31	-6095.15	-137.84	0.26	450140.67	636558.49	N 32 14 12.76 W 104	1 31.31
	13386.00	89.43	178.90	8300.09	6191.24	-6190.08	-133.64	0.33	449955.86	636564.29	N 32 14 10.88 W 104	1 31.25
	13481.00	90.02	178.90	8301.00	6286.15	-6284.91	-133.64	0.19	449866.93	636568.49	N 32 14 9.01 W 104	1 31.20
	13576.00	89.88	178.58	8301.17	6381.06	-6379.82	-130.01	0.31	449777.99	636572.12	N 32 14 7.14 W 104	1 31.17
	13671.00	89.81	178.35	8301.68	6475.97	-6474.73	-125.83	0.18	449688.05	636576.30	N 32 14 5.26 W 104	1 31.13
	13766.00	90.09	178.23	8301.84	6570.88	-6569.64	-120.77	0.13	449599.13	636581.36	N 32 14 3.39 W 104	1 31.07
	13861.00	90.02	178.56	8301.66	6665.79	-6664.55	-115.13	0.16	449510.23	636587.00	N 32 14 1.52 W 104	1 31.01
	13956.00	89.43	178.35	8302.57	6760.62	-6759.38	-109.83	0.18	449421.32	636592.29	N 32 13 59.65 W 104	1 30.96
	14051.00	90.12	178.36	8302.94	6855.45	-6854.21	-104.74	0.33	449332.41	636597.39	N 32 13 57.78 W 104	1 30.91
	14146.00	89.78	178.39	8303.02	6950.28	-6949.04	-102.01	0.73	449243.46	636600.12	N 32 13 56.84 W 104	1 30.88
	14241.00	89.88	178.25	8303.30	7045.11	-7043.87	-99.35	0.36	449154.51	636602.78	N 32 13 55.91 W 104	1 30.85
	14336.00	89.74	178.55	8303.62	7140.00	-7138.76	-96.56	0.18	449065.56	636605.57	N 32 13 54.97 W 104	1 30.82
	14431.00	90.02	179.24	8304.02	7234.89	-7233.65	-93.91	0.35	448976.61	636608.22	N 32 13 54.03 W 104	1 30.79
	14526.00	89.67	179.18	8304.53	7329.78	-7328.54	-90.24	0.39	448887.66	636611.88	N 32 13 52.15 W 104	1 30.76
	14621.00	89.64	179.55	8305.10	7424.67	-7423.43	-86.57	0.19	448798.71	636614.50	N 32 13 50.27 W 104	1 30.73
	14716.00	89.43	180.01	8306.64	7519.56	-7518.32	-82.90	0.39	448709.76	636615.56	N 32 13 49.33 W 104	1 30.72
	14811.00	89.88	184.65	8307.21	7614.45	-7613.21	-79.23	2.89	448620.81	636608.04	N 32 13 47.46 W 104	1 30.82
	14906.00	89.81	184.72	8307.38	7709.34	-7708.10	-75.56	0.61	448531.86	636600.04	N 32 13 46.53 W 104	1 30.91
	15001.00	89.85	184.07	8307.58	7804.23	-7802.99	-71.89	0.68	448442.91	636592.28	N 32 13 45.59 W 104	1 31.01
	15096.00	90.05	183.41									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only			Original Borehole / Oxy Length CC 6-7 Federal Com 23H Gyro+MWD 0-18640'	
		1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only			Original Borehole / Oxy Length CC 6-7 Federal Com 23H Gyro+MWD 0-18640'	
		1	26.500	430.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT			Original Borehole / Oxy Length CC 6-7 Federal Com 23H Gyro+MWD 0-18640'	
		1	430.500	18640.000	Act Stns	30.000	30.000	NAL_MWD_JFR1+MS			Original Borehole / Oxy Length CC 6-7 Federal Com 23H Gyro+MWD 0-18640'	

...Original Borehole\Oxy Length CC 6-7 Federal Com 23H Gyro+MWD 0-18640'