

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 9, 2019

OXY USA INC.

15, 24S, 29E, Eddy NM
32.21832 103.96466

Re:

CLIENT: OXY USA INC.
WELL: Refried Beans CC 15-16 State Com 12H
FIELD: Pierce Crossing; Bone Spring East

RIG: H&P 617
COUNTY: Eddy
API NO: 30-015-45215
JOB NO: 19MLH0067

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>
Chris Heimann FE	Refried Beans CC 15- 16 State Com 12H Original Hole	523.00 Ft to 16447.00 Ft	April 6, 2019 to May 6, 2019	SlimPulse Third Party Corrected

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

Andrew Salomon
Field Service Manager

Schlumberger-Private

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)
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Schlumberger

Well Reference:

15, 24S, 29E, Eddy NM
32.21832 103.96466

I, Chris Heimann certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of April 06, 2019 through May 06, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 523.00 feet to a depth of 16447.00 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 Refried Beans CC 15-16 State Com 12H Well (Original Hole) API No. 30-015-45215 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
Chris Heimann
FE

Chris Heimann

Subscribed and Sworn to before me this 9th day of May (month) 2019 (yr)

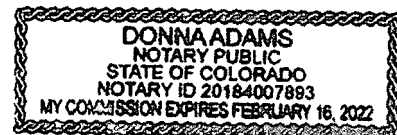
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



Schlumberger

OXY

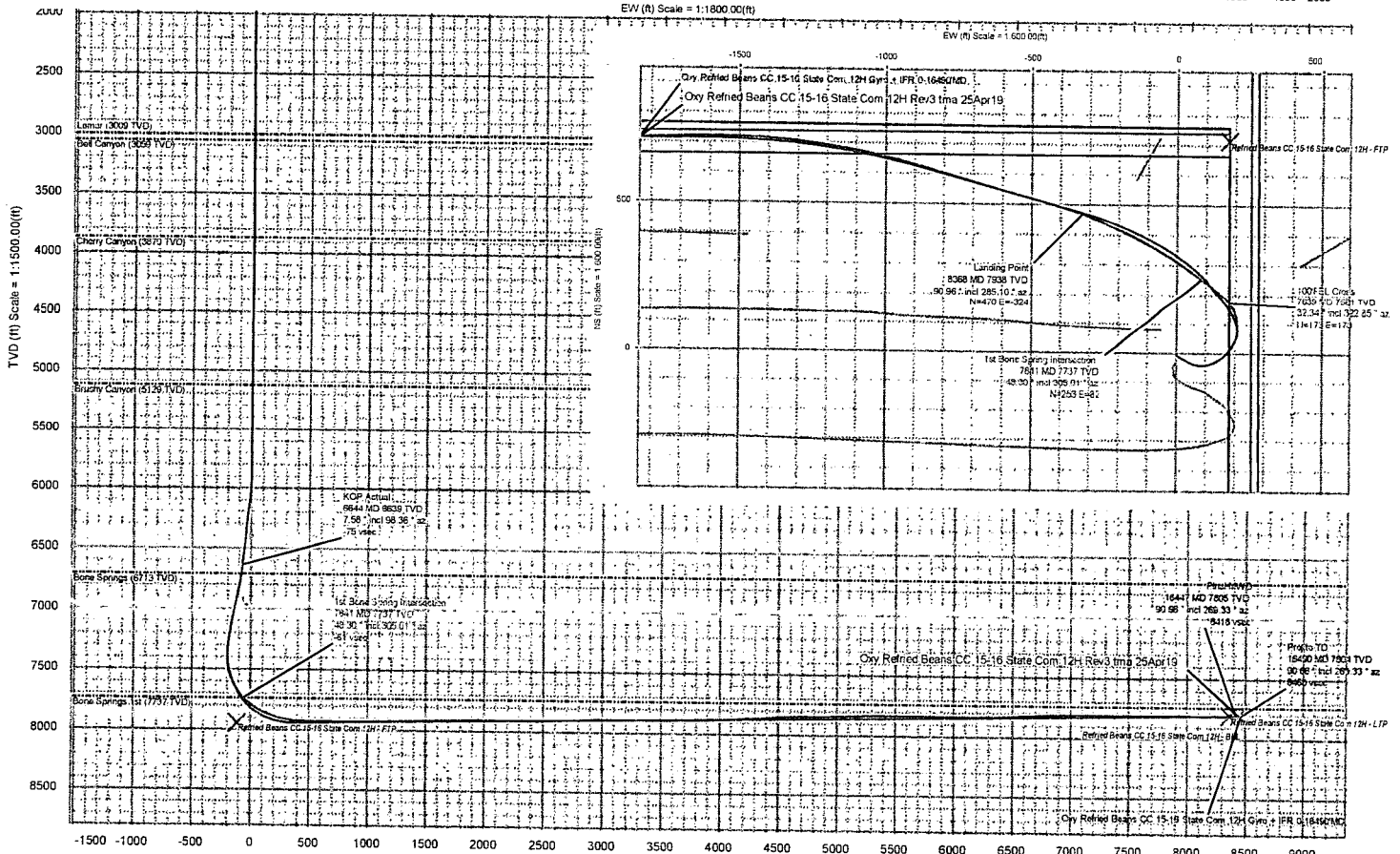
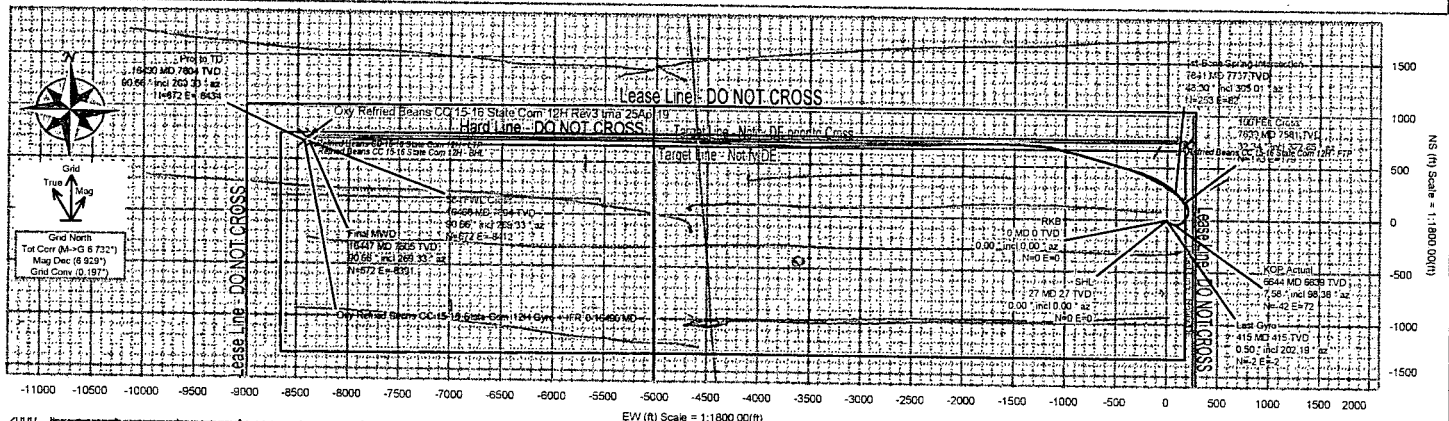


Borehole:	Well:	Field:	Structure:
Original Borehole	Refried Beans CC 15-16 State Com 12H	NM Eddy County (NAD 83)	Oxy Refried Beans CC 15-16 State Com 12H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: IFR1 Dip: 59.963° Date: 26-Apr-2019	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Oxy Refried Beans CC 15-16
MagDec: 6.929° PS: 47818.2nT Gravity FS: 998.471mgN (9.80665 Based)	Lat: N 32 13 5.96 Northing: 443355.6ftUS Grid Conv: 0.1986°	Slot: Beans CC 15-16
	Lon: W 103 57 52.77 Easting: 656360.95ftUS Scale Fact: 0.99992398	Plan: Oxy Refried Beans CC 15-16 State Com 12H Gyro + IFR 0-16490MD

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(°)/S(-)	E(°)/W(-)	DLS
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	415.00	0.50	202.19	414.98	1.90	-2.49	-2.11	0.14
KOP Actual	6644.00	7.58	98.36	6638.89	-74.79	-42.40	71.52	1.12
100' FEL Cross	7639.00	32.34	322.85	7580.60	-164.29	172.85	179.26	13.21
1st Bone Spring Intersection	7840.64	48.30	305.01	7737.00	-61.04	253.18	82.35	12.31
Final MWD	16447.00	90.66	269.33	7804.66	8417.52	672.40	-8390.67	0.70
584' FWL Cross	16468.00	90.66	269.33	7804.41	8438.43	672.16	-8411.66	0.00
Proj to TD	16490.00	90.66	269.33	7804.16	8460.33	671.90	-8433.66	0.00



Vertical Section (ft) Azim = 274.76° Scale = 1:1500.00(ft) Origin = 0N-S, 0E-W

Oxy Refried Beans CC 15-16 State Com 12H Gyro + IFR 0-16490'MD Survey Geodetic Report (Def Survey)



Report Date: May 09, 2019 - 09:59 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Refried Beans CC 15-16 State Com 12H / Oxy Refried Beans CC 15-16 State Com 12H
Well: Refried Beans CC 15-16 State Com 12H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-45215

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 274.763 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5ft
TVD Reference Elevation: 2965.300 ft above MSL
Seabed / Ground Elevation: 2938.800 ft above MSL
Magnetic Declination: 6.929 °

Survey Name: Oxy Refried Beans CC 15-16 State Com 12H Gyro + IFR 0-16490'MD

Total Gravity Field Strength: 998.4710mgn (9.80665 Based)

Survey Date: February 28, 2019
Tort / AHD / DDI / ERD Ratio: 275.101 ° / 9134.205 ft / 6.718 / 1.152
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 5.96473", W 103° 57' 52.77126"
Location Grid N/E Y/X: N 443355.800 RUS, E 655350.950 RUS
CRS Grid Convergence Angle: 0.1966 °
Grid Scale Factor: 0.99992398
Version / Patch: 2.10.753.0

Gravity Model: GARM
Total Magnetic Field Strength: 47918.200 nT
Magnetic Dip Angle: 59.963 °
Declination Date: April 26, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.1966 °
Total Corr Mag North->Grid North: 6.7324 °
Local Coord Referenced To: Well Head

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 ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	443355.60	655350.95	N 32 13 5.96 W 103 57 52.77	
SHL	26.50		0.00	26.50	0.00	0.00	0.00	0.00	443355.60	655350.95	N 32 13 5.96 W 103 57 52.77	
	113.50	0.51	253.20	113.50	0.36	-0.11	-0.37	0.59	443355.49	655350.58	N 32 13 5.96 W 103 57 52.78	
	171.50	0.68	222.44	171.50	0.81	-0.44	-0.85	0.61	443355.16	655350.10	N 32 13 5.96 W 103 57 52.78	
	226.50	0.54	222.04	226.49	1.17	-0.87	-1.24	0.25	443354.73	655349.71	N 32 13 5.96 W 103 57 52.79	
	289.50	0.58	207.39	289.49	1.47	-1.38	-1.59	0.24	443354.22	655349.36	N 32 13 5.95 W 103 57 52.79	
	352.50	0.58	205.66	352.49	1.71	-1.95	-1.87	0.03	443353.65	655349.08	N 32 13 5.95 W 103 57 52.79	
	415.00	0.50	202.19	414.98	1.90	-2.49	-2.11	0.14	443353.11	655348.84	N 32 13 5.94 W 103 57 52.79	
	523.00	0.12	57.92	522.98	1.95	-2.86	-2.20	0.56	443352.74	655348.75	N 32 13 5.94 W 103 57 52.80	
	647.00	0.17	357.70	646.98	1.87	-2.61	-2.09	0.12	443352.99	655348.86	N 32 13 5.94 W 103 57 52.80	
	832.00	0.06	235.53	831.98	1.98	-2.39	-2.18	0.11	443353.21	655348.77	N 32 13 5.94 W 103 57 52.80	
	1014.00	0.19	262.54	1013.98	2.35	-2.48	-2.56	0.08	443353.12	655348.39	N 32 13 5.94 W 103 57 52.80	
	1105.00	0.13	126.23	1104.98	2.41	-2.56	-2.63	0.33	443353.04	655348.32	N 32 13 5.94 W 103 57 52.80	
	1197.00	0.03	108.39	1196.98	2.29	-2.63	-2.52	0.11	443352.97	655348.43	N 32 13 5.94 W 103 57 52.80	
	1286.00	0.13	115.97	1285.98	2.18	-2.68	-2.41	0.11	443352.92	655348.54	N 32 13 5.94 W 103 57 52.80	
	1377.00	0.13	330.47	1376.98	2.14	-2.64	-2.37	0.27	443352.96	655348.58	N 32 13 5.94 W 103 57 52.80	
	1468.00	0.18	2.49	1467.98	2.20	-2.41	-2.41	0.11	443353.19	655348.54	N 32 13 5.94 W 103 57 52.80	
	1559.00	0.22	310.84	1558.98	2.35	-2.15	-2.54	0.20	443353.45	655348.41	N 32 13 5.94 W 103 57 52.80	
	1649.00	0.08	289.49	1648.98	2.55	-2.02	-2.73	0.16	443353.58	655348.22	N 32 13 5.94 W 103 57 52.80	
	1740.00	0.21	350.62	1739.98	2.65	-1.83	-2.81	0.20	443353.77	655348.14	N 32 13 5.95 W 103 57 52.80	
	1831.00	0.11	353.36	1830.98	2.71	-1.58	-2.85	0.11	443354.02	655348.10	N 32 13 5.95 W 103 57 52.80	
	1923.00	0.03	36.58	1922.98	2.72	-1.47	-2.85	0.10	443354.13	655348.10	N 32 13 5.95 W 103 57 52.80	
	2015.00	0.05	264.09	2014.98	2.74	-1.46	-2.87	0.08	443354.14	655348.08	N 32 13 5.95 W 103 57 52.80	
	2105.00	0.08	240.17	2104.98	2.83	-1.49	-2.97	0.04	443354.11	655347.98	N 32 13 5.95 W 103 57 52.81	
	2199.00	0.18	74.55	2198.98	2.75	-1.49	-2.88	0.27	443354.11	655348.07	N 32 13 5.95 W 103 57 52.80	
	2292.00	0.20	162.00	2291.98	2.55	-1.60	-2.69	0.28	443354.00	655348.26	N 32 13 5.95 W 103 57 52.80	
	2389.00	0.11	281.18	2388.98	2.58	-1.74	-2.73	0.28	443353.86	655348.22	N 32 13 5.95 W 103 57 52.80	
	2484.00	0.17	28.68	2483.98	2.61	-1.60	-2.75	0.24	443354.00	655348.20	N 32 13 5.95 W 103 57 52.80	
	2579.00	0.06	198.85	2578.98	2.56	-1.53	-2.70	0.24	443354.07	655348.25	N 32 13 5.95 W 103 57 52.80	
	2673.00	0.10	317.70	2672.98	2.64	-1.51	-2.77	0.15	443354.09	655348.18	N 32 13 5.95 W 103 57 52.80	
	2768.00	0.11	261.10	2767.98	2.78	-1.46	-2.92	0.11	443354.14	655348.03	N 32 13 5.95 W 103 57 52.80	
	2958.00	0.28	356.60	2957.98	3.03	-1.03	-3.12	0.16	443354.57	655347.83	N 32 13 5.95 W 103 57 52.81	
	3052.00	0.13	70.72	3051.98	2.96	-0.76	-3.04	0.29	443354.84	655347.91	N 32 13 5.96 W 103 57 52.81	
	3147.00	0.10	221.38	3146.98	2.91	-0.79	-2.99	0.23	443354.81	655347.96	N 32 13 5.96 W 103 57 52.81	
	3241.00	0.08	187.16	3240.98	2.97	-0.92	-3.05	0.06	443354.68	655347.90	N 32 13 5.96 W 103 57 52.81	
	3336.00	0.10	191.71	3335.98	2.98	-1.07	-3.08	0.02	443354.53	655347.87	N 32 13 5.95 W 103 57 52.81	
	3525.00	0.20	284.46	3524.98	3.32	-1.14	-3.43	0.12	443354.46	655347.52	N 32 13 5.95 W 103 57 52.81	
	3620.00	0.10	90.58	3619.98	3.40	-1.10	-3.51	0.31	443354.50	655347.44	N 32 13 5.95 W 103 57 52.81	
	3714.00	0.10	314.84	3713.98	3.39	-1.05	-3.48	0.20	443354.55	655347.47	N 32 13 5.95 W 103 57 52.81	
	3809.00	0.17	354.95	3808.98	3.47	-0.85	-3.56	0.12	443354.75	655347.39	N 32 13 5.96 W 103 57 52.81	
	3998.00	0.15	66.34	3997.97	3.30	-0.47	-3.35	0.10	443355.13	655347.60	N 32 13 5.96 W 103 57 52.81	
	4093.00	0.13	113.73	4092.97	3.09	-0.46	-3.14	0.12	443355.14	655347.81	N 32 13 5.96 W 103 57 52.81	
	4187.00	0.14	157.01	4186.97	2.94	-0.61	-3.00	0.11	443354.99	655347.95	N 32 13 5.96 W 103 57 52.81	
	4282.00	0.17	29.80	4281.97	2.82	-0.60	-2.88	0.29	443355.00	655348.07	N 32 13 5.96 W 103 57 52.80	
	4471.00	0.16	105.51	4470.97	2.45	-0.42	-2.49	0.11	443355.18	655348.46	N 32 13 5.96 W 103 57 52.80	
	4660.00	0.13	75.85	4659.97	1.98	-0.44	-2.03	0.04	443355.16	655348.92	N 32 13 5.96 W 103 57 52.79	
	4755.00	0.13	313.61	4754.97	1.97	-0.34	-2.00	0.24	443355.26	655348.95	N 32 13 5.96 W 103 57 52.79	
	4849.00	0.17	343.25	4848.97	2.10	-0.13	-2.12	0.09	443355.47	655348.83	N 32 13 5.96 W 103 57 52.80	
	4944.00	0.17	91.98	4943.97	2.01	0.00	-2.02	0.29	443355.60	655348.93	N 32 13 5.96 W 103 57 52.79	
	5133.00	0.11	215.67	5132.97	1.82	-0.16	-1.84	0.13	443355.44	655349.11	N 32 13 5.96 W 103 57 52.79	
	5227.00	0.14	336.64	5226.97	1.92	-0.13	-1.94	0.23	443355.47	655349.01	N 32 13 5.96 W 103 57 52.79	
	5322.00	0.16	348.18	5321.97	2.02	0.11	-2.02	0.04	443355.71	655348.93	N 32 13 5.97 W 103 57 52.79	
	5416.00	0.13	229.47	5415.97	2.13	0.17	-2.12	0.27	443355.77	655348.83	N 32 13 5.97 W 103 57 52.80	
	5510.00	0.17	51.87	5509.97	2.10	0.18	-2.09	0.32	443355.78	655348.86	N 32 13 5.97 W 103 57 52.80	
	5605.00	0.14	5.16	5604.97	2.00	0.39	-1.97	0.13	443355.99	655348.98	N 32 13 5.97 W 103 57 52.79	
	5794.00	0.16	238.05	5793.97	2.21	0.48	-2.18	0.14	443356.08	655348.77	N 32 13 5.97 W 103 57 52.80	
	5889.00	2.86	164.18	5888.93	1.48	-1.87	-1.64	2.97	443353.73	655349.31	N 32 13 5.95 W 103 57 52.79	
	5983.00	5.12	147.83	5982.70	-1.86	-7.68	1.23	2.67	443347.92	655352.18	N 32 13 5.89 W 103 57 52.76	
	6077.00	7.17	122.75	6076.17	-9.57	-14.41	8.40	3.54	443341.19	655359.35	N 32 13 5.82 W 103 57 52.67	
	6172.00	7.59	117.21	6170.38	-20.60	-20.48	18.97	0.87	443335.12	655369.91	N 32 13 5.76 W 103 57 52.55	
	6267.00	6.98	118.27	6266.62	-31.69	-26.09	29.63	0.66	443329.52	655380.58	N 32 13 5.71 W 103 57 52.43	
	6361.00	6.63	116.94	6357.96	-41.96	-31.25	39.50	0.41	443324.35	655390.44	N 32 13 5.65 W 103 57 52.31	
	6455.00	6.61	115.28	6451.33	-52.05	-36.02	49.23	0.20	443319.58	655400.17	N 32 13 5.61 W 103 57 52.20	
	6550.00	7.08	105.65	6545.65	-62.92	-39.93	59.81	1.30	443315.67	655410.75	N 32 13 5.57 W 103 57 52.08	
	6644.00	7.58	98.36	6638.89	-74.79	-42.40	71.52	1.12	443313.21	655422.47	N 32 13 5.54 W 103 57 51.94	
	6739.00	8.98	90.93	6732.90	-88.45	-43.43	85.13	1.85	443312.17	655436.08	N 32 13 5.53 W 103 57 51.78	
	6833.00	12.10	79.69	6825.31	-105.29	-41.78	102.17	3.96	443313.82	655453.11	N 32 13 5.55 W 103 57 51.58	
	6927.00	14.78	66.94	6916.75	-125.41	-35.32	122.90	4.23	443320.28	655473.84	N 32 13 5.61 W 103 57 51.34	
	7022.00	16.16	54.48	7008.33	-146.22	-22.89	144.82	3.78	443332.71	655495.76	N 32 13 5.73 W 103 57 51.09	
	7117.00	16.81	44.22	7099.44	-165.04	-5.36	165.16	3.14	443350.24	655516.10	N 32 13 5.91 W 103 57 50.85	
	7204.00	17.20	35.28	7182.65	-179.57	14.16	181.37	3.04	443369.76	655532.31	N 32 13 6.10 W 103 57 50.66	
	7308.00	17.04	30.83	7282.05	-194.07	39.80	198.06	1.27	443395.39	655549.00	N 32 13 6.35 W 103 57 50.46	
	7403.00	22.85	5.80	7371.47	-200.54	70.18	207.08	10.74	443425.78	655558.02	N 32 13 6.65 W 103 57 50.36	
	7498.00	26.55	351.20	7457.85	-195.89	109.56	205.70	7.48	443465.16	655556.63	N 32 13 7.04 W 103 57 50.37	
	7592.00	30.66	334.30	7540.49	-178.78	152.01	192.06	9.61	443507.60	655545.00	N 32 13 7.46 W 103 57 50.63	
	7639.00	32.34	322.65	7580.60	-164.29	172						

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 ° ' ")
	7782.00	41.12	306.06	7695.36	-96.47	229.24	115.91	7.64	443584.83	655466.85	N 32 13 8.23	W 103 57 51.41
1st Bone Spring Intersection	7840.64	48.30	305.01	7737.00	-61.04	253.18	82.35	12.31	443608.76	655433.29	N 32 13 8.47	W 103 57 51.80
	7877.00	52.76	304.47	7760.11	-36.73	269.17	59.28	12.31	443624.75	655410.23	N 32 13 8.63	W 103 57 52.07
	7972.00	61.62	302.94	7811.54	33.10	313.39	-7.10	9.42	443668.96	655343.85	N 32 13 9.07	W 103 57 52.84
	8066.00	67.86	298.59	7851.65	109.48	356.77	-80.13	7.85	443712.34	655270.82	N 32 13 9.50	W 103 57 53.69
	8161.00	71.71	295.80	7884.47	191.87	397.47	-159.41	4.90	443753.04	655191.55	N 32 13 9.90	W 103 57 54.61
	8256.00	78.65	292.89	7908.76	278.34	435.27	-243.04	7.88	443790.84	655107.93	N 32 13 10.28	W 103 57 55.58
	8351.00	85.18	288.61	7922.12	368.70	468.54	-330.94	8.19	443824.10	655020.04	N 32 13 10.61	W 103 57 56.60
	8412.00	89.18	286.99	7925.12	428.04	487.16	-388.93	7.07	443842.72	654962.05	N 32 13 10.80	W 103 57 57.28
	8493.00	89.97	285.05	7925.72	507.48	509.51	-466.78	2.59	443865.07	654884.21	N 32 13 11.02	W 103 57 58.18
	8587.00	89.18	285.18	7926.42	599.94	534.02	-557.53	0.85	443889.58	654793.47	N 32 13 11.27	W 103 57 59.24
	8680.00	89.11	285.72	7927.81	691.32	558.79	-647.15	0.59	443914.35	654703.85	N 32 13 11.52	W 103 58 0.28
	8773.00	89.46	285.51	7928.97	782.65	583.83	-736.72	0.44	443939.38	654614.29	N 32 13 11.77	W 103 58 1.32
	8866.00	90.59	285.43	7928.93	874.03	608.63	-826.34	1.22	443964.18	654524.67	N 32 13 12.02	W 103 58 2.37
	8958.00	91.48	284.88	7927.27	964.50	632.68	-915.13	1.14	443988.23	654435.89	N 32 13 12.26	W 103 58 3.40
	9051.00	91.11	282.95	7925.16	1056.29	655.04	-1005.37	2.11	444010.59	654345.66	N 32 13 12.48	W 103 58 4.45
	9146.00	91.35	280.50	7923.12	1150.56	674.34	-1098.36	2.59	444029.88	654252.67	N 32 13 12.67	W 103 58 5.53
	9336.00	91.28	276.58	7918.76	1340.06	702.54	-1286.17	2.06	444058.08	654064.88	N 32 13 12.96	W 103 58 7.71
	9431.00	91.80	274.42	7916.21	1435.01	711.64	-1380.69	2.34	444067.18	653970.37	N 32 13 13.05	W 103 58 8.81
	9526.00	91.31	271.53	7913.63	1529.92	716.57	-1475.52	3.08	444072.11	653875.55	N 32 13 13.11	W 103 58 9.92
	9620.00	90.56	270.47	7912.10	1623.71	718.21	-1569.49	1.38	444073.75	653781.58	N 32 13 13.12	W 103 58 11.01
	9715.00	91.52	268.54	7910.37	1718.29	717.47	-1664.47	2.17	444073.01	653686.61	N 32 13 13.12	W 103 58 12.12
	9810.00	90.56	269.30	7908.65	1812.73	715.19	-1759.42	1.01	444070.74	653591.67	N 32 13 13.10	W 103 58 13.22
	9905.00	92.14	268.92	7906.41	1907.21	713.46	-1854.38	1.81	444069.00	653496.72	N 32 13 13.09	W 103 58 14.33
	10000.00	88.32	267.53	7908.03	2001.73	711.98	-1949.35	4.04	444067.53	653401.76	N 32 13 13.08	W 103 58 15.43
	10094.00	89.25	268.22	7909.02	2095.10	709.07	-2043.28	1.78	444064.62	653307.83	N 32 13 13.05	W 103 58 16.53
	10189.00	90.49	266.23	7908.24	2189.41	705.55	-2138.21	1.49	444061.10	653212.91	N 32 13 13.02	W 103 58 17.63
	10284.00	88.56	268.14	7909.61	2283.58	700.95	-2233.08	2.92	444056.50	653118.04	N 32 13 12.98	W 103 58 18.74
	10379.00	90.73	269.42	7908.39	2377.73	696.29	-2327.96	3.04	444051.83	653023.17	N 32 13 12.93	W 103 58 19.84
	10473.00	90.76	272.66	7903.45	2471.21	694.29	-2421.93	1.36	444049.83	652929.21	N 32 13 12.92	W 103 58 20.94
	10568.00	91.07	270.17	7898.26	2565.85	696.00	-2516.75	5.78	444051.55	652834.40	N 32 13 12.94	W 103 58 22.04
	10663.00	90.21	268.73	7897.20	2659.51	698.34	-2611.55	5.07	444053.88	652739.61	N 32 13 12.96	W 103 58 23.14
	10758.00	94.31	268.55	7893.45	2848.46	695.17	-2706.53	1.77	444052.97	652644.63	N 32 13 12.96	W 103 58 24.25
	10853.00	89.53	265.42	7890.30	2942.51	690.23	-2801.41	4.32	444050.72	652549.76	N 32 13 12.94	W 103 58 25.35
	10947.00	91.18	267.61	7889.12	3130.52	678.68	-2895.19	6.08	444045.78	652455.99	N 32 13 12.89	W 103 58 26.44
	11042.00	88.73	269.14	7888.37	3224.92	675.99	-3084.82	1.44	444034.23	652366.37	N 32 13 12.78	W 103 58 28.65
	11137.00	88.77	265.69	7889.61	3318.12	671.71	-3179.77	2.22	444031.54	652171.43	N 32 13 12.76	W 103 58 29.76
	11232.00	89.42	266.98	7891.11	3413.08	665.63	-3274.65	3.77	444027.25	652076.55	N 32 13 12.72	W 103 58 30.86
	11327.00	90.04	268.75	7891.56	3507.38	662.10	-3369.44	1.52	444021.18	651981.77	N 32 13 12.66	W 103 58 31.97
	11422.00	92.21	272.19	7889.70	3602.08	662.87	-3464.37	1.97	444017.64	651886.85	N 32 13 12.63	W 103 58 33.07
	11517.00	91.59	272.49	7883.43	3790.81	670.59	-3559.33	4.28	444018.42	651791.90	N 32 13 12.64	W 103 58 34.18
	11612.00	90.94	272.12	7881.33	3885.69	674.41	-3648.97	0.36	444026.13	651603.18	N 32 13 12.73	W 103 58 36.37
	11707.00	92.72	271.26	7878.30	3980.50	677.21	-3743.87	0.79	444029.95	651508.28	N 32 13 12.77	W 103 58 37.48
	11802.00	92.66	271.38	7873.84	4075.23	679.39	-3838.74	2.08	444032.75	651413.39	N 32 13 12.80	W 103 58 38.58
	11897.00	92.48	271.07	7869.58	4169.95	681.42	-3933.62	0.14	444034.94	651318.52	N 32 13 12.82	W 103 58 39.69
	11992.00	91.66	271.52	7866.15	4264.71	683.57	-4028.54	0.98	444036.97	651223.65	N 32 13 12.85	W 103 58 40.79
	12087.00	93.69	270.94	7857.28	4454.14	687.64	-4123.48	1.11	444039.11	651128.74	N 32 13 12.87	W 103 58 41.89
	12182.00	91.59	271.36	7848.53	4643.55	691.45	-4218.42	1.13	444043.19	651033.92	N 32 13 12.92	W 103 58 44.10
	12277.00	89.18	272.24	7847.89	4738.41	694.44	-4313.36	2.70	444047.00	650939.02	N 32 13 12.96	W 103 58 46.31
	12372.00	91.45	272.62	7847.37	4833.32	698.46	-4408.30	2.42	444049.58	650844.35	N 32 13 12.99	W 103 58 47.42
	12467.00	91.76	272.84	7842.05	5023.13	707.51	-4503.24	0.20	444054.01	650749.28	N 32 13 13.04	W 103 58 48.52
	12562.00	90.87	272.43	7839.87	5118.04	711.88	-4598.18	1.03	444063.05	650654.35	N 32 13 13.13	W 103 58 50.73
	12657.00	91.79	269.93	7837.66	5212.82	713.83	-4693.12	2.80	444067.42	650559.45	N 32 13 13.18	W 103 58 51.83
	12752.00	90.97	268.53	7835.23	5313.31	712.47	-4788.06	1.61	444068.02	650464.46	N 32 13 13.20	W 103 58 52.94
	12847.00	91.35	267.28	7833.33	5406.62	709.04	-4883.00	1.39	444068.02	650369.75	N 32 13 13.19	W 103 58 54.11
	12942.00	89.43	270.73	7832.68	5501.12	707.39	-4977.94	4.16	444068.02	650274.89	N 32 13 13.16	W 103 58 55.21
	13037.00	89.18	271.13	7833.82	5594.90	708.92	-5072.88	0.50	444062.93	650179.95	N 32 13 13.15	W 103 58 56.31
	13132.00	89.25	270.41	7835.11	5688.67	710.18	-5167.82	0.77	444065.72	650085.00	N 32 13 13.16	W 103 58 57.41
	13227.00	89.39	271.49	7836.24	5783.45	711.75	-5262.76	1.15	444067.30	649990.09	N 32 13 13.18	W 103 58 58.50
	13322.00	89.22	268.75	7837.39	5878.12	711.95	-5357.70	2.89	444067.50	649895.16	N 32 13 13.20	W 103 58 59.61
	13417.00	90.35	269.43	7837.74	5972.89	710.46	-5452.64	1.40	444066.00	649800.25	N 32 13 13.20	W 103 59 0.71
	13512.00	89.80	270.02	7837.62	6067.59	710.01	-5547.58	0.86	444065.55	649705.34	N 32 13 13.19	W 103 59 1.81
	13607.00	91.52	271.03	7836.52	6162.02	710.88	-5642.52	2.10	444066.42	649610.43	N 32 13 13.20	W 103 59 2.90
	13702.00	91.38	270.66	7831.72	6349.52	713.68	-5737.46	0.21	444069.22	649515.52	N 32 13 13.24	W 103 59 4.01
	13797.00	91.80	270.67	7829.11	6443.24	714.77	-5832.40	0.45	444070.31	649420.61	N 32 13 13.25	W 103 59 5.11
	13892.00	92.55	270.86	7825.50	6537.94	716.04	-5927.34	0.81	444071.58	649325.70	N 32 13 13.25	W 103 59 6.21
	13987.00	92.55	270.59	7817.09	6632.68	718.43	-6022.28	0.14	444073.97	649230.79	N 32 13 13.26	W 103 59 7.31
	14082.00	92.49	270.27	7812.92	6727.42	719.14	-6117.22	0.34	444074.68	649135.88	N 32 13 13.29	W 103 59 8.41
	14177.00	90.94	268.26	7810.10	6822.16	717.93	-6212.16	0.30	444073.48	649040.97	N 32 13 13.30	W 103 59 9.51
	14272.00	90.66	268.11	7808.78	6916.90	714.92	-6307.10	0.33	444070.47	648946.06	N 32 13 13.27	W 103 59 10.61
	14367.00	89.77	268.74	7808.42	7011.64	712.31	-6402.04	1.15	444067.86	648851.15	N 32 13 13.25	W 103 59 11.72
	14462.00	88.91	265.74	7809.51	7106.38	707.74	-6496.98	3.28	444063.28	648756.24	N 32 13 13.20	W 103 59 12.82
	14557.00	90.46	268.58	7810.04	7201.12	703.03	-6591.92	3.41	444058.58	648661.33	N 32 13 13.16	W 103 59 13.92
	14652.00	90.15	267.73	7809.54	7295.86	700.01	-6686.86	0.96	444055.55	648566.42	N 32 13 13.13	W 103 59 15.02
	14747.00	90.35	268.08	7808.71	7390.60	693.06	-6781.80	0.21	444048.61	648471.51	N 32 13 13.10	W 103 59 16.13
	14842.00	90.42	268.23	7808.07	748							

