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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45087	Pool Code 50371	Pool Name Pierce Crossing Bone Spring
Property Code 321633	Property Name OXBOW CC "17-8" FEDERAL COM	Well Number 35H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2926.5'

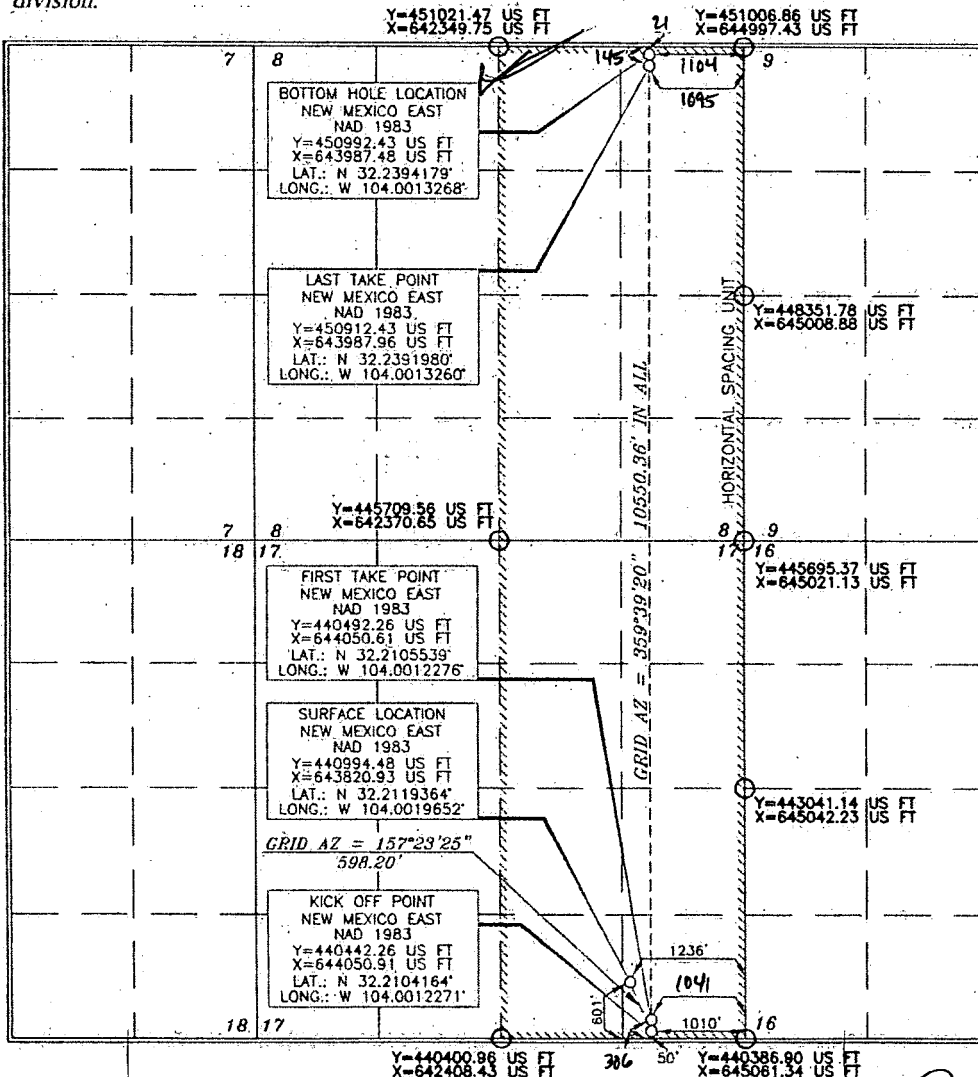
Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
P	17	24 SOUTH	29 EAST, N.M.P.M.		601'	SOUTH	1236'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
A	8	24 SOUTH	29 EAST, N.M.P.M.		20' 21'	NORTH	1010' 1104'	EAST	EDDY
Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.	FTP- 306 FSL 1041 FEL LTP- 145 FNL 1095 FEL					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: **3/4/20**
Printed Name: **Jana Mendiola**
E-mail Address: **janahm-mendiola@oxy.com**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from the original survey maps of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal: *[Signature]*
Professional Surveyor: **15079**
Date of Survey: **NOVEMBER 10, 2017**

Signature: *[Signature]* Date: **8/12/2019**
Certificate Number: **15079**

WO# 171110WL-b-XY (Rev. C) (KA)

RWA 4-30-20

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EMNRD-OCDARTESIA

Intent ☐ As Drilled ☒API #
30-015-45087

Operator Name: OXY USA INC.	Property Name: OXBOW CC 17-8 FEDERAL COM	Well Number 35H
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Kick Off Point (KOP)

UL P	Section 17	Township 24S	Range 29E	Lot	Feet 107	From N/S S	Feet 1057	From E/W E	County EDDY
Latitude 32.20999					Longitude -104.00139			NAD NAD83	

First Take Point (FTP)

UL P	Section 17	Township 24S	Range 29E	Lot	Feet 306	From N/S S	Feet 1041	From E/W E	County EDDY
Latitude 32.21113					Longitude -104.00134			NAD NAD83	

Last Take Point (LTP)

UL A	Section 8	Township 24S	Range 29E	Lot	Feet 145	From N/S N	Feet 1095	From E/W E	County EDDY
Latitude 32.23908					Longitude -104.00141			NAD NAD83	

Is this well the defining well for the Horizontal Spacing Unit? ☒Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #	Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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)

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EMNRD-OCDARTESIA

December 31, 2019

OXY USA Inc.
P.O. BOX 2289
Houston, TX 77252

Re:

S17, T24S, R29E Eddy, NM
N 32.21194 W -104.00197

CLIENT: OXY USA Inc.
WELL: Oxbow CC 17-8 Fed Com 35H
FIELD: Pierce Crossing-Bone Spring

RIG: H&P 657
COUNTY: Eddy
API NO: 30-015-45087
JOB NO: 19MLH0369

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>
Maria Zapata FE	Oxbow CC 17-8 Fed Com 35H Original Hole	543.00 Ft to 20301.00 Ft	November 9, 2019 to December 9, 2019	SlimPulse Third Party Corrected

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)

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Schlumberger

Well Reference:
S17, T24S, R29E Eddy, NM
N 32.21194 W-104.00197

I, Maria Zapata certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 09, 2019, through December 09, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 543.00 feet to a depth of 20301.00 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 Oxbow CC 17-8 Fed Com 35H Well (Original Hole) API No. 30-015-45087 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.

Maria Zapata

By
Maria Zapata
FE

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

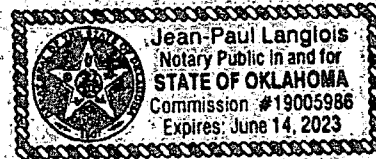
My Commission expires:

6/14/23

Notary Public

Jean-Paul Langlois
Comanche, Oklahoma
(County State)

(signature)



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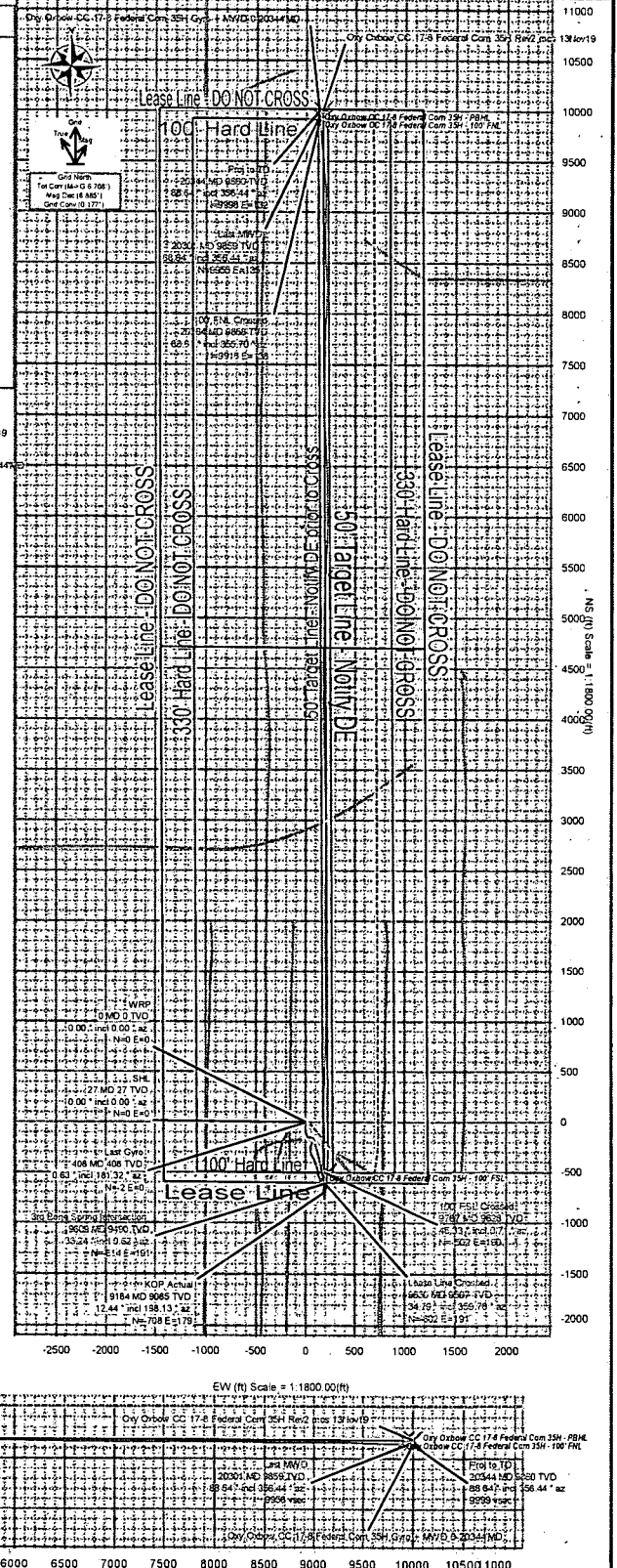
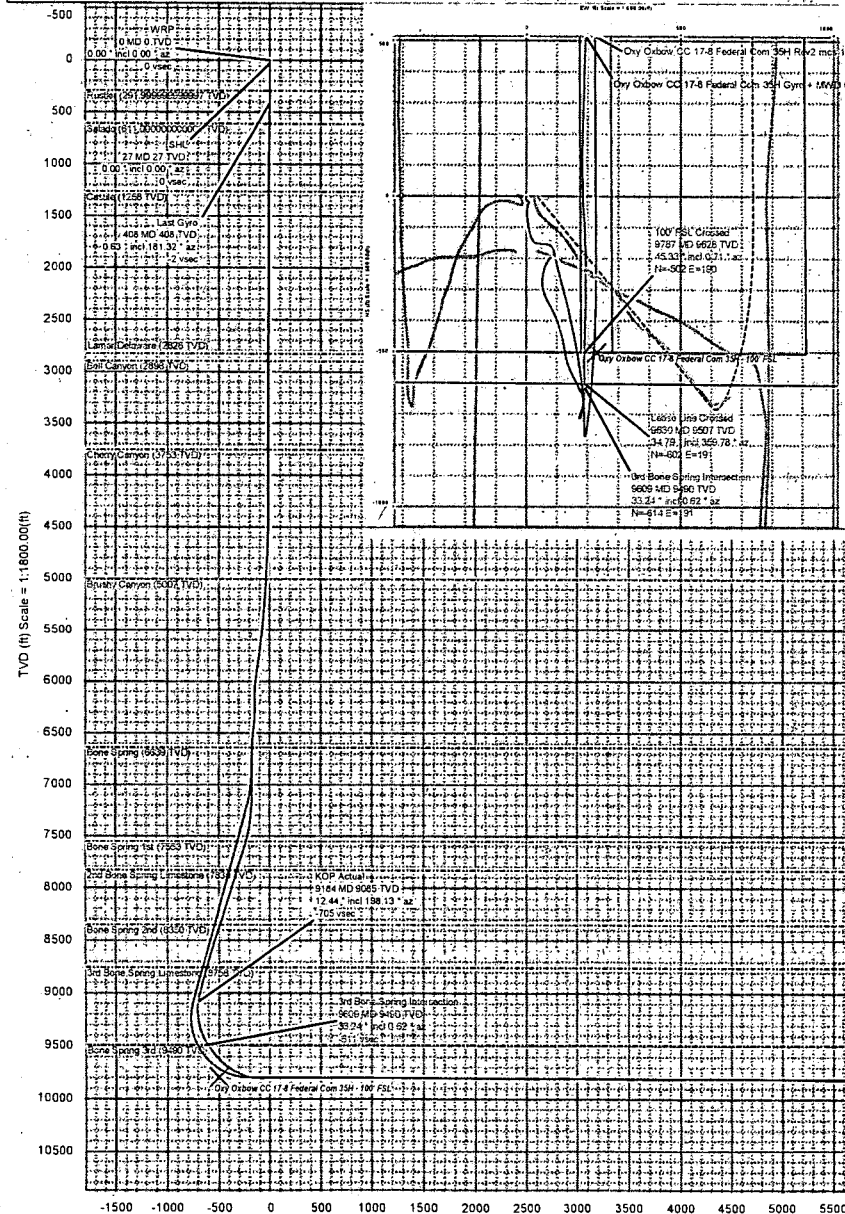
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Oxbow CC 17-8 Federal Com 35H	NM Eddy County (NAD 83)	Oxy Oxbow CC 17-8 Federal Com 35H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: IFR1 Dip: 59.919° Date: 02-Dec-2019	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Oxy Oxbow CC
MagDec: 8.885° FS: 47849.1nT Gravity FS: 998.469mgal (9.80665 Based)	Lac: N 32 12 42.97 Northing: 440934.48RUS Grid Conv: 0.1756'	17-8 Federal Com 35H
	Lon: W 104 0 7.07 Easting: 643820.93RUS Scale Fact: 0.99992112	Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344 MD

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)	DLS
WRP	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	407.82	0.63	181.32	407.81	-2.22	-2.22	-0.01	0.25
KOP Actual	9184.00	12.44	198.13	9084.96	-705.27	-708.35	179.26	1.99
3rd Bone Spring Intersection	9609.41	33.24	0.62	9490.00	-610.64	-613.90	190.77	7.88
Lease Line Crossed	9630.00	34.79	359.78	9507.07	-599.12	-602.39	190.81	7.88
100' FSL Crossed	9787.00	45.33	0.71	9627.53	-498.76	-502.00	190.21	9.24
100' FNL Crossed	20264.00	88.61	355.70	9857.90	9919.08	9918.16	137.65	2.01
Last MWD	20301.00	88.64	356.44	9858.79	9955.93	9955.06	135.11	2.01
Proj to TD	20344.00	88.64	356.44	9859.81	9998.79	9997.97	132.44	0.00



Vertical Section (ft) Azim = 0.95° Scale = 1:1800.00(ft) Origin = 0N/-S, 0E/-W

Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344 MD Survey

Geodetic Report

(Def Survey)



Report Date: December 18, 2019 - 10:52 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Oxbow CC 17-8 Federal Com 35H / Oxy Oxbow CC 17-8 Federal Com 35H
 Well: Oxy Oxbow CC 17-8 Federal Com 35H
 Borehole: Original Borehole
 UTM / API#: Unknown / 30-015-45087
 Survey Name: Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344 MD
 Survey Date: October 29, 2019
 Tort / AHD / DDI / ERD Ratio: 334.626 * / 11553.136 ft / 6.902 / 1.172
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 42.97093", W 104° 0' 7.07475"
 Location Grid N/E Y/X: N 440994.480 RUS, E 643820.930 RUS
 CRS Grid Convergence/Angle: 0.1766 °
 Grid Scale Factor: 0.99992112
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.954 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB = 26.5ft
 TVD Reference Elevation: 2953.000 ft above MSL
 Seabed / Ground Elevation: 2926.500 ft above MSL
 Magnetic Declination: 6.885 °
 Total Gravity Field Strength: 998.4688mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47849.100 nT
 Magnetic Dip Angle: 59.919 °
 Declination Date: December 02, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1766 °
 Total Corr Mag North-Grid North: 6.7084 °
 Local Coord Referenced To: Well Head

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	440994.48	643820.93	N 32 12 42.97 W 104 0 7.07	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	440994.48	643820.93	N 32 12 42.97 W 104 0 7.07	
	64.88	0.08	319.33	64.88	0.02	0.02	-0.02	0.21	440994.50	643820.91	N 32 12 42.97 W 104 0 7.07	
	146.54	0.37	227.82	146.54	-0.12	-0.11	-0.25	0.47	440994.37	643820.68	N 32 12 42.97 W 104 0 7.08	
	229.29	0.58	153.95	229.29	-0.67	-0.67	-0.26	0.72	440993.81	643820.67	N 32 12 42.96 W 104 0 7.08	
Last Gyro	319.46	0.42	174.46	319.45	-1.41	-1.41	-0.03	0.26	440993.07	643820.90	N 32 12 42.96 W 104 0 7.08	
	407.82	0.63	181.32	407.81	-2.22	-2.22	-0.01	0.25	440992.26	643820.92	N 32 12 42.95 W 104 0 7.07	
	543.00	0.76	197.22	542.98	-3.82	-3.82	-0.29	0.17	440990.66	643820.64	N 32 12 42.93 W 104 0 7.08	
	635.00	0.83	196.50	634.97	-5.05	-5.04	-0.66	0.08	440989.44	643820.27	N 32 12 42.92 W 104 0 7.08	
	823.00	0.81	192.47	822.95	-7.66	-7.64	-1.34	0.03	440986.84	643819.59	N 32 12 42.90 W 104 0 7.09	
	915.00	0.77	192.36	914.94	-8.90	-8.88	-1.61	0.04	440985.60	643819.32	N 32 12 42.88 W 104 0 7.09	
	1008.00	0.72	173.98	1007.94	-10.10	-10.07	-1.68	0.26	440984.41	643819.25	N 32 12 42.87 W 104 0 7.09	
	1100.00	0.65	147.68	1099.93	-11.11	-11.09	-1.34	0.35	440983.39	643819.59	N 32 12 42.86 W 104 0 7.09	
	1192.00	0.55	135.99	1191.92	-11.86	-11.84	-0.76	0.17	440982.64	643820.17	N 32 12 42.85 W 104 0 7.08	
	1284.00	0.42	119.56	1283.92	-12.33	-12.33	-0.16	0.21	440982.15	643820.77	N 32 12 42.85 W 104 0 7.08	
	1377.00	0.32	59.20	1376.92	-12.36	-12.36	0.36	0.41	440982.12	643821.29	N 32 12 42.85 W 104 0 7.07	
	1469.00	0.09	244.20	1468.92	-12.25	-12.26	0.52	0.45	440982.22	643821.45	N 32 12 42.85 W 104 0 7.07	
	1561.00	0.06	266.44	1560.92	-12.29	-12.30	0.40	0.04	440982.18	643821.33	N 32 12 42.85 W 104 0 7.07	
	1655.00	0.11	89.01	1654.92	-12.29	-12.30	0.45	0.18	440982.18	643821.38	N 32 12 42.85 W 104 0 7.07	
	1749.00	0.04	253.64	1748.92	-12.30	-12.31	0.50	0.16	440982.17	643821.43	N 32 12 42.85 W 104 0 7.07	
	1844.00	0.28	325.50	1843.92	-12.12	-12.13	0.34	0.28	440982.36	643821.27	N 32 12 42.85 W 104 0 7.07	
	1938.00	0.41	278.73	1937.92	-11.89	-11.89	-0.12	0.32	440982.60	643820.81	N 32 12 42.85 W 104 0 7.08	
	2127.00	1.10	117.13	2126.91	-12.59	-12.61	0.82	0.79	440981.87	643821.75	N 32 12 42.85 W 104 0 7.07	
	2221.00	1.00	109.00	2220.89	-13.25	-13.29	2.40	0.19	440981.19	643823.33	N 32 12 42.84 W 104 0 7.05	
	2410.00	0.74	121.56	2409.87	-14.38	-14.46	5.00	0.17	440980.02	643825.93	N 32 12 42.83 W 104 0 7.02	
	2599.00	1.59	133.41	2598.83	-16.77	-16.90	7.95	0.47	440977.58	643828.88	N 32 12 42.80 W 104 0 6.98	
	2788.00	0.18	275.82	2787.81	-18.52	-18.68	9.56	0.92	440975.80	643830.49	N 32 12 42.79 W 104 0 6.96	
	2882.00	0.24	67.06	2881.81	-18.42	-18.59	9.59	0.43	440975.90	643830.52	N 32 12 42.79 W 104 0 6.96	
	2977.00	0.31	317.34	2976.81	-18.16	-18.32	9.60	0.48	440976.16	643830.53	N 32 12 42.79 W 104 0 6.96	
	3071.00	0.31	236.64	3070.81	-18.12	-18.27	9.22	0.43	440976.21	643830.15	N 32 12 42.79 W 104 0 6.97	
	3165.00	0.15	92.70	3164.80	-18.26	-18.42	9.13	0.47	440976.06	643830.06	N 32 12 42.79 W 104 0 6.97	
	3354.00	0.34	258.72	3353.80	-18.39	-18.54	8.82	0.26	440975.94	643829.75	N 32 12 42.79 W 104 0 6.97	
	3543.00	0.26	193.17	3542.80	-18.93	-19.07	8.18	0.18	440975.42	643829.11	N 32 12 42.78 W 104 0 6.98	
	3732.00	0.19	54.78	3731.80	-19.16	-19.30	8.33	0.22	440975.18	643829.26	N 32 12 42.78 W 104 0 6.98	
	3900.00	0.10	271.44	3899.80	-19.00	-19.14	8.42	0.16	440975.34	643829.34	N 32 12 42.78 W 104 0 6.98	
	4015.00	0.28	204.65	4014.80	-19.25	-19.39	8.20	0.22	440975.09	643829.13	N 32 12 42.78 W 104 0 6.98	
	4110.00	0.24	139.96	4109.80	-19.61	-19.75	8.23	0.30	440974.73	643829.16	N 32 12 42.78 W 104 0 6.98	
	4204.00	0.25	58.08	4203.80	-19.65	-19.80	8.53	0.34	440974.68	643829.46	N 32 12 42.77 W 104 0 6.98	
	4299.00	0.27	318.90	4298.80	-19.37	-19.52	8.56	0.42	440974.96	643829.49	N 32 12 42.78 W 104 0 6.98	
	4394.00	0.29	239.47	4393.80	-19.33	-19.47	8.20	0.38	440975.01	643829.13	N 32 12 42.78 W 104 0 6.98	
	4583.00	1.23	200.26	4582.78	-21.50	-21.62	7.09	0.54	440972.86	643828.02	N 32 12 42.76 W 104 0 6.99	
	4772.00	1.98	194.86	4771.70	-26.58	-26.68	5.55	0.40	440967.81	643826.48	N 32 12 42.71 W 104 0 7.01	
	4867.00	2.45	193.66	4866.63	-30.15	-30.24	4.65	0.50	440964.25	643825.58	N 32 12 42.67 W 104 0 7.02	
	4961.00	3.02	192.96	4960.53	-34.54	-34.60	3.62	0.61	440959.88	643824.55	N 32 12 42.63 W 104 0 7.03	
	5150.00	4.21	182.91	5149.15	-46.34	-46.38	2.15	0.71	440948.10	643823.08	N 32 12 42.51 W 104 0 7.05	
	5244.00	4.71	179.81	5242.86	-53.65	-53.69	1.99	0.59	440940.80	643822.92	N 32 12 42.44 W 104 0 7.05	
	5339.00	5.22	176.82	5337.51	-61.86	-61.90	2.24	0.80	440932.58	643823.17	N 32 12 42.36 W 104 0 7.05	
	5433.00	5.54	174.64	5431.09	-70.63	-70.69	2.90	0.40	440923.80	643823.83	N 32 12 42.27 W 104 0 7.04	
	5527.00	6.17	172.08	5524.60	-80.16	-80.23	3.84	0.67	440914.25	643824.77	N 32 12 42.18 W 104 0 7.03	
	5621.00	6.63	172.08	5618.02	-90.54	-90.63	5.10	0.55	440903.85	643826.03	N 32 12 42.07 W 104 0 7.02	
	5716.00	7.85	168.42	5712.26	-102.29	-102.42	7.15	1.37	440892.07	643828.08	N 32 12 41.96 W 104 0 7.00	
	5810.00	8.89	163.90	5805.26	-115.50	-115.69	10.46	1.31	440874.01	643831.39	N 32 12 41.83 W 104 0 6.96	
	5842.00	9.08	162.77	5836.86	-120.26	-120.48	11.89	0.81	440874.01	643832.82	N 32 12 41.78 W 104 0 6.94	
	5873.00	9.44	160.73	5867.46	-124.97	-125.21	13.45	1.57	440869.28	643834.38	N 32 12 41.73 W 104 0 6.92	
	5905.00	9.81	159.08	5899.01	-129.96	-130.24	15.29	1.44	440864.25	643836.22	N 32 12 41.68 W 104 0 6.90	
	5982.00	9.43	151.26	5974.93	-141.53	-141.90	20.67	1.77	440852.60	643841.60	N 32 12 41.57 W 104 0 6.84	
	6063.00	6.52	112.52	6055.19	-148.99	-149.48	28.12	7.34	440845.01	643849.04	N 32 12 41.49 W 104 0 6.75	
	6157.00	10.37	94.25	6148.17	-151.44	-152.15	41.49	4.94	440842.34	643862.42	N 32 12 41.46 W 104 0 6.60	
	6252.00	10.73	93.02	6241.56	-152.25	-153.25	58.85	0.45	440841.24	643879.77	N 32 12 41.45 W 104 0 6.40	
	6346.00	7.58	107.96	6334.37	-154.38	-155.63	73.49	4.17	440838.87	643894.41	N 32 12 41.43 W 104 0 6.22	
	6440.00	7.13	142.16	6427.64	-160.74	-162.15	82.97	4.61	440832.34	643903.89	N 32 12 41.36 W 104 0 6.11	
	6535.00	7.39	155.47	6521.88	-170.86	-172.36	89.12	1.79	440822.13	643910.05	N 32 12 41.26 W 104 0 6.04	
	6563.00	5.94	160.76	6549.69	-173.84	-175.37	90.35	5.62	440819.12	643911.27	N 32 12 41.23 W 104 0 6.03	
	6629.00	2.25	203.88	6615.53	-178.24	-179.78	90.95	6.91	440814.71	643911.87	N 32 12 41.19 W 104 0 6.02	
	6723.00	1.57	259.66	6709.48	-180.19	-181.70	88.94	2.01	440812.79	643909.86	N 32 12 41.17 W 104 0 6.05	
	6818.00	0.80	131.76	6804.47	-180.88	-182.38	88.15	2.27	440812.12	643909.07	N 32 12 41.16 W 104 0 6.06	
	6863.00	1.44	109.27	6849.46	-181.26	-182.77	88.92	1.70	440811.72	643909.84	N 32 12 41.16 W 104 0 6.05	
	6958.00	1.71	97.58	6944.43	-181.80	-183.35	91.45	0.44	440811.14	643912.37	N 32 12 41.15 W 104 0 6.02	
	7052.00	1.63	109.72	7038.39	-182.40	-183.99	94.10	0.39	440810.51	643915.02	N 32 12 41.15 W 104 0 5.99	
	7147.00	1.70	216.42	7133.36	-183.98	-185.58	94.53	2.81	440808.92	643915.46	N 32 12 41.13 W 104 0 5.98	
	7241.00	6.07	237.95	7227.13	-187.82	-189.34	89.49	4.82	440805.16	643910.41	N 32 12 41.09 W 104 0 6.04	
	7336.00	8.65	225.97	7321.34	-195.61	-196.97	80.10	3.15	440797.52	643901.02	N 32 12 41.02 W 104 0 6.15	
	7430.00	12.06	213.09	7413.81	-208.93	-210.12	69.65	4.36	440784.38	643890.57	N 32 12 40.89 W 104 0 6.27	
	7525.00	14.02	200.02	7506.38	-228.22	-229.25	60.29	3.71	440765.25	643881.21	N 32 12 40.70 W 104 0 6.38	
	7619.00	16.83	189.53	7597.00	-252.44	-253.38	54.13	4.20	440741.12	643875.06	N 32 12 40.46 W 104 0 6.45	
	7713.00	18.54	176.36									

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 ° °')
	7996.00	18.13	151.89	7954.30	-364.69	-366.37	85.99	1.80	440628.14	643906.51	N 32 12 39.34 W 104 0	6.09
	8091.00	19.13	157.15	8044.32	-392.06	-393.75	98.60	2.06	440600.76	643919.52	N 32 12 39.07 W 104 0	5.94
	8185.00	19.48	163.75	8133.05	-421.13	-423.00	108.87	2.35	440571.51	643929.89	N 32 12 38.78 W 104 0	5.82
	8279.00	18.07	165.32	8222.05	-450.14	-452.15	117.05	1.59	440542.37	643937.97	N 32 12 38.49 W 104 0	5.73
	8374.00	18.78	170.19	8312.18	-479.35	-481.47	123.39	1.78	440513.05	643944.31	N 32 12 38.20 W 104 0	5.66
	8468.00	19.19	167.73	8401.07	-508.26	-511.48	129.25	0.96	440482.04	643950.17	N 32 12 37.91 W 104 0	5.59
	8563.00	19.46	159.50	8490.73	-539.19	-541.56	138.11	2.88	440452.96	643959.03	N 32 12 37.61 W 104 0	5.49
	8657.00	20.07	153.59	8579.20	-568.09	-570.68	150.77	2.22	440423.85	643971.69	N 32 12 37.32 W 104 0	5.34
	8751.00	18.56	152.81	8667.91	-595.61	-598.43	164.78	1.63	440396.09	643985.70	N 32 12 37.04 W 104 0	5.18
	8845.00	18.03	155.42	8757.16	-621.92	-624.97	177.67	1.04	440369.56	643999.58	N 32 12 36.78 W 104 0	5.03
	8940.00	15.40	168.67	8848.17	-647.53	-650.72	186.26	4.86	440343.81	644007.18	N 32 12 36.53 W 104 0	4.93
	9034.00	13.96	185.58	8939.14	-671.04	-674.26	187.61	4.79	440320.28	644008.53	N 32 12 36.29 W 104 0	4.92
	9075.00	14.28	193.18	8978.91	-680.91	-684.10	185.98	4.59	440310.43	644006.90	N 32 12 36.20 W 104 0	4.93
	9184.00	12.44	198.13	9084.96	-705.27	-708.35	179.26	1.99	440286.18	644006.18	N 32 12 35.81 W 104 0	5.01
	9279.00	6.54	348.06	9179.34	-709.81	-712.82	174.92	19.36	440281.72	643995.84	N 32 12 36.04 W 104 0	5.06
	9374.00	10.10	24.76	9273.39	-696.90	-699.95	177.29	6.55	440294.58	643998.21	N 32 12 36.04 W 104 0	5.04
	9469.00	19.68	14.77	9365.11	-673.69	-676.86	184.88	10.40	440317.67	644005.79	N 32 12 36.27 W 104 0	4.95
	9563.00	29.76	2.80	9450.44	-634.88	-638.13	190.07	11.92	440356.40	644010.98	N 32 12 36.65 W 104 0	4.89
3rd Bone Spring Intersection	9609.41	33.24	0.62	9490.00	-610.64	-613.90	190.77	7.88	440380.63	644011.68	N 32 12 36.89 W 104 0	4.88
Lease Line Crossed	9630.00	34.79	359.78	9507.07	-599.12	-602.39	190.81	7.88	440392.14	644011.72	N 32 12 37.00 W 104 0	4.88
	9658.00	36.91	358.73	9529.76	-582.73	-585.99	190.59	7.88	440408.54	644011.50	N 32 12 37.17 W 104 0	4.88
	9753.00	42.21	0.14	9602.98	-522.28	-525.51	190.04	5.66	440469.01	644010.95	N 32 12 37.77 W 104 0	4.88
100' FSL Crossed	9787.00	45.33	0.71	9627.53	-498.76	-502.00	190.21	9.24	440492.52	644011.13	N 32 12 38.00 W 104 0	4.88
	9847.00	50.83	-1.59	9667.60	-454.14	-457.38	191.13	9.24	440537.13	644012.04	N 32 12 38.44 W 104 0	4.87
	9941.00	58.04	2.03	9722.24	-377.73	-381.01	193.55	7.68	440613.50	644014.47	N 32 12 39.19 W 104 0	4.84
	10036.00	68.04	359.59	9765.26	-293.17	-296.45	194.67	10.77	440698.05	644015.58	N 32 12 40.03 W 104 0	4.82
	10130.00	76.71	0.11	9793.70	-203.69	-206.95	194.44	9.24	440787.54	644015.36	N 32 12 40.92 W 104 0	4.82
	10224.00	90.34	356.87	9804.27	-110.61	-113.82	191.95	14.90	440880.67	644012.87	N 32 12 41.84 W 104 0	4.84
	10281.00	90.71	356.62	9803.75	-53.76	-56.91	188.72	0.78	440937.57	644009.63	N 32 12 42.40 W 104 0	4.88
	10468.00	90.40	0.27	9801.94	133.02	129.98	183.64	1.96	441124.45	644004.56	N 32 12 44.25 W 104 0	4.93
	10562.00	89.92	1.88	9801.68	227.01	223.96	185.41	1.79	441218.42	644006.32	N 32 12 45.18 W 104 0	4.91
	10655.00	89.85	1.69	9801.86	320.00	316.91	188.30	0.22	441311.37	644009.22	N 32 12 46.10 W 104 0	4.87
	10748.00	89.99	1.42	9801.99	413.00	409.88	190.83	0.33	441404.32	644011.74	N 32 12 47.02 W 104 0	4.84
	10842.00	90.12	2.18	9801.90	506.99	503.83	193.78	0.82	441498.27	644014.69	N 32 12 47.95 W 104 0	4.80
	10935.00	90.60	3.03	9801.32	599.95	596.73	198.01	1.05	441591.16	644018.92	N 32 12 48.87 W 104 0	4.75
	11030.00	89.99	2.04	9800.83	694.91	691.64	202.21	1.22	441686.06	644023.12	N 32 12 49.81 W 104 0	4.70
	11125.00	90.23	2.32	9800.65	789.89	786.57	205.82	0.39	441780.98	644026.73	N 32 12 50.75 W 104 0	4.65
	11219.00	89.78	1.67	9800.64	883.87	880.51	209.09	0.84	441874.92	644030.01	N 32 12 51.68 W 104 0	4.61
	11314.00	89.74	1.30	9801.04	978.86	975.48	211.56	0.39	441969.88	644032.47	N 32 12 52.62 W 104 0	4.58
	11408.00	89.64	358.97	9801.55	1072.85	1069.47	211.78	2.48	442063.86	644032.69	N 32 12 53.55 W 104 0	4.57
	11503.00	89.81	358.18	9802.00	1167.76	1164.44	209.41	0.85	442158.82	644030.33	N 32 12 54.49 W 104 0	4.60
	11597.00	89.88	359.88	9802.26	1261.71	1258.42	207.82	1.81	442252.80	644028.74	N 32 12 55.42 W 104 0	4.61
	11692.00	89.71	359.15	9802.60	1356.67	1353.41	207.02	0.79	442347.78	644027.93	N 32 12 56.36 W 104 0	4.62
	11787.00	89.85	0.37	9802.96	1451.65	1448.41	206.62	1.29	442442.77	644027.53	N 32 12 57.30 W 104 0	4.62
	11881.00	89.57	358.59	9803.44	1545.62	1542.40	205.77	1.92	442536.76	644026.68	N 32 12 58.23 W 104 0	4.62
	12071.00	89.64	0.46	9804.75	1735.54	1732.38	204.19	0.98	442726.72	644025.11	N 32 13 0.11 W 104 0	4.64
	12165.00	89.85	359.69	9805.16	1829.53	1826.38	204.32	0.85	442820.71	644025.23	N 32 13 1.04 W 104 0	4.63
	12260.00	89.85	359.67	9805.41	1924.51	1921.38	203.79	0.02	442915.70	644024.70	N 32 13 1.98 W 104 0	4.63
	12449.00	89.74	359.82	9806.09	2113.46	2110.38	202.94	0.10	443104.68	644023.86	N 32 13 3.85 W 104 0	4.64
	12638.00	89.71	0.72	9807.00	2302.45	2299.37	203.84	0.48	443293.66	644024.75	N 32 13 5.72 W 104 0	4.62
	12827.00	90.16	0.64	9807.21	2491.44	2488.36	206.08	0.24	443482.63	644026.99	N 32 13 7.59 W 104 0	4.59
	13017.00	89.88	0.19	9807.48	2681.43	2678.35	207.45	0.35	443672.61	644028.37	N 32 13 9.47 W 104 0	4.56
	13207.00	89.78	359.86	9808.37	2871.41	2868.35	207.54	0.18	443862.59	644028.45	N 32 13 11.35 W 104 0	4.56
	13397.00	89.44	359.36	9809.67	3061.35	3058.34	206.24	0.32	444052.57	644027.16	N 32 13 13.23 W 104 0	4.56
	13586.00	89.33	358.41	9811.69	3250.21	3247.29	202.57	0.51	444241.51	644023.48	N 32 13 15.10 W 104 0	4.60
	13680.00	89.40	358.56	9812.74	3344.12	3341.25	200.08	0.18	444335.46	644021.00	N 32 13 16.03 W 104 0	4.63
	13869.00	89.40	359.40	9814.71	3532.99	3530.21	196.72	0.44	444524.40	644017.63	N 32 13 17.90 W 104 0	4.66
	14059.00	89.20	358.14	9817.04	3722.84	3720.15	192.64	0.87	444714.32	644013.55	N 32 13 19.78 W 104 0	4.70
	14248.00	89.54	357.16	9818.07	3818.67	3814.06	188.79	1.10	444808.23	644009.70	N 32 13 20.71 W 104 0	4.74
	14343.00	92.81	359.85	9816.12	3911.55	3908.99	186.31	4.46	444903.15	644007.22	N 32 13 21.65 W 104 0	4.77
	14438.00	90.78	359.45	9813.15	4006.47	4003.93	185.73	2.18	444998.09	644006.64	N 32 13 22.58 W 104 0	4.77
	14533.00	92.22	359.70	9810.66	4101.41	4098.89	185.02	1.54	445093.04	644005.94	N 32 13 23.52 W 104 0	4.77
	14628.00	90.23	359.82	9807.75	4196.35	4193.85	184.86	1.07	445187.99	644005.78	N 32 13 24.46 W 104 0	4.77
	14722.00	89.57	358.87	9806.65	4291.32	4288.84	184.81	1.16	445282.97	644005.72	N 32 13 25.40 W 104 0	4.77
	14817.00	89.74	359.43	9807.23	4385.28	4382.83	183.73	1.23	445376.96	644004.65	N 32 13 26.33 W 104 0	4.78
	14912.00	89.47	1.33	9807.88	4480.23	4477.82	182.32	0.62	445471.94	644003.24	N 32 13 27.27 W 104 0	4.79
	15006.00	89.57	1.29	9808.67	4575.22	4572.81	182.95	2.02	445566.92	644003.87	N 32 13 28.21 W 104 0	4.78
	15100.00	89.37	1.15	9809.54	4669.22	4666.78	185.10	0.11	445660.88	644006.02	N 32 13 29.14 W 104 0	4.75
	15195.00	89.06	0.78	9810.84	4763.21	4760.76	187.10	0.26	445754.85	644008.02	N 32 13 30.07 W 104 0	4.73
	15383.00	89.40	0.62	9813.37	5046.18	5043.70	188.70	0.51	445849.82	644009.62	N 32 13 31.01 W 104 0	4.70
	15478.00	89.06	1.08	9814.64	5141.17	5138.68	190.20	0.20	445937.77	644011.91	N 32 13 32.87 W 104 0	4.67
	15572.00	88.54	1.59	9816.61	5235.15	5232.64	194.60	0.50	446025.69	644013.32	N 32 13 33.81 W 104 0	4.65
	15667.00	88.78	2.76	9818.83	5330.11	5327.56	197.79	0.75	446112.60	644015.51	N 32 13 34.74 W 104 0	4.62
	15762.00	88.68	1.91	9820.94	5425.07	5422.47	201.24	0.38	446196.51	644022.16	N 32 13 35.68 W 104 0	4.58
	15952.00	89.30	3.29	9824.29	5614.96	5612.24	209.86	0.80	446280.26	644030.77	N 32 13 36.50 W 104 0	4.43
	16142.00	89.81	2.81	9825.76	5804.82	5801.96	219.97	0.37	446369.97	644040.88	N 32 13 40.38 W 104 0	4.31
	16332.00	89.50	359.15	9826.91	5994.79	5991.90	223.22	1.93	446458.89	644044.13	N 32 13 42.25 W 104 0	4.26
	16521.00	89.57	359.47	9828								

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 ° ' ")
	19456.00	90.26	0.66	9840.44	9115.49	9113.38	202.59	0.33	450107.13	644023.51	N 32 14 13.14 W 104	0 4.39
	19551.00	90.16	357.92	9840.09	9210.44	9208.37	201.42	2.89	450202.10	644022.33	N 32 14 14.08 W 104	0 4.40
	19645.00	90.09	354.84	9839.88	9304.13	9302.17	195.48	3.28	450295.90	644016.40	N 32 14 15.01 W 104	0 4.46
	19740.00	87.23	353.84	9842.11	9398.46	9396.67	186.12	3.19	450390.39	644007.03	N 32 14 16.87 W 104	0 4.57
	19834.00	88.27	355.64	9845.80	9491.83	9490.19	177.51	2.21	450483.91	643998.42	N 32 14 18.74 W 104	0 4.67
	19929.00	88.37	353.93	9848.58	9586.24	9584.76	168.88	1.80	450578.46	643989.79	N 32 14 17.81 W 104	0 4.76
	20024.00	88.37	354.93	9851.28	9680.59	9679.27	159.66	1.05	450672.97	643980.58	N 32 14 18.74 W 104	0 4.87
	20118.00	88.27	354.43	9854.04	9773.98	9772.82	150.95	0.54	450766.51	643971.86	N 32 14 19.67 W 104	0 4.97
	20213.00	88.58	354.67	9856.65	9868.35	9867.36	141.93	0.41	450861.04	643962.85	N 32 14 20.61 W 104	0 5.07
100' FNL Crossed	20264.00	88.61	355.70	9857.90	9919.08	9918.16	137.65	2.01	450911.84	643958.56	N 32 14 21.11 W 104	0 5.12
Last MWD	20301.00	88.64	356.44	9858.79	9955.93	9955.06	135.11	2.01	450948.74	643956.03	N 32 14 21.47 W 104	0 5.14
Proj to TD	20344.00	88.64	356.44	9859.81	9998.79	9997.97	132.44	0.00	450991.64	643953.36	N 32 14 21.90 W 104	0 5.17

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	26.400	26.400_GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344MD
	1	26.500	26.500	Act Stns	26.400	26.400_GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344MD
	1	26.500	407.820	Act Stns	26.400	26.400_GYD_GC+DROP+OH	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344MD
	1	407.820	6818.000	Act Stns	26.400	26.400_A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344MD
	1	6818.000	7052.000	Act Stns	26.400	26.400_B001Mb_MWD+HRGM	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344MD
	1	7052.000	20344.000	Act Stns	26.400	26.400_A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344MD

Original Borehole/Oxy Oxbow CC 17-8 Federal Com 35H Gyro + MWD 0-20344MD