

RECEIVED

FEB 20 2020

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 Branos 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 Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

EMERD-OGD ARTESIA

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 30-015-45049	Pool Code 50371	Pool Name Pierce Crossing; Bone Spring
Property Code 321601	Property Name SALT FLAT CC "20-29" FEDERAL COM	Well Number 35H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2925.3'

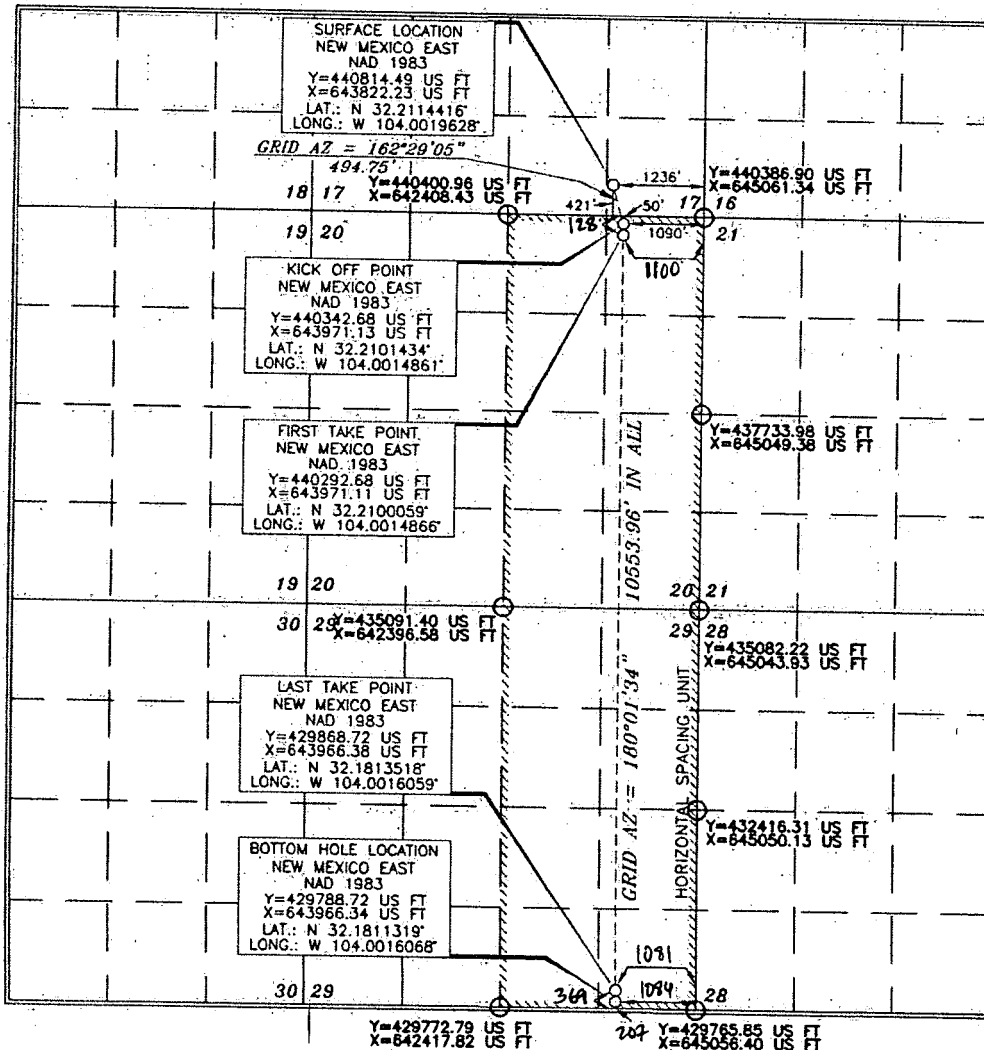
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	17	24 SOUTH	29 EAST, N.M.P.M.		421'	SOUTH	1236'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	29	24 SOUTH	29 EAST, N.M.P.M.		207'	SOUTH	1090'	EAST	EDDY
Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.	FTP- 128 FNL 1100 FEL LTP- 369 FSL 1081 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 in 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: **2/18/20**
Printed Name: **Jana Mendiola**
Email Address: **jana.mendiola@oxy.com**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from **15079** actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: **NOVEMBER 10, 2017**

Signature and Seal of Professional Surveyor: *[Signature]*

Certificate Number: **15079** Date: **5/3/2019**

WO# 171110WL-d-XY (Rev. A) (KA)

Rw 4-30-20

Intent ☐ As Drilled ☒

API #
30-015-45049

Operator Name: OXY USA INC.	Property Name: SALT FLAT CC 20-29 FEDERAL COM	Well Number 35H
--------------------------------	--	--------------------

Kick Off Point (KOP)

UL A	Section 20	Township 24S	Range 29E	Lot	Feet 49	From N/S N	Feet 1126	From E/W E	County EDDY
Latitude 32.21042					Longitude -104.00161				NAD NAD83

First Take Point (FTP)

UL A	Section 20	Township 24S	Range 29E	Lot	Feet 128	From N/S N	Feet 1100	From E/W E	County EDDY
Latitude 32.20993					Longitude -104.00153				NAD NAD83

Last Take Point (LTP)

UL P	Section 29	Township 24S	Range 29E	Lot	Feet 369	From N/S S	Feet 1081	From E/W E	County EDDY
Latitude 32.18210					Longitude -104.00157				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)

Schlumberger

November 27, 2019

Oxy USA Incorporated
5 Greenway Plaza Suite 110
Houston, TX 77046-0521

RECEIVED

FEB 20 2020

EMNRD-OCDARTESIA

S17, T24S, R29E Eddy, NM
N 32.21144 W -104.00196

Re:

CLIENT: Oxy USA Incorporated
WELL: Salt Flat CC 20-29 Federal Com 35H
FIELD: Purple Sage-Wolfcamp (GAS)

RIG: HP 656
COUNTY: Eddy
API NO: 30-015-45049
JOB NO: 19MLH0364

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>
Jon Koestner. FS	Salt Flat CC 20-29 Federal Com 35H Original Hole	477.00 Ft to 19979.00 Ft	October 30, 2019 to November 26, 2019	SlimPulse 3rd Party Corrected

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W IH 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
S17, T24S, R29E Eddy, NM
N 32.21144 W -104.00196

I, Jon Koestner certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 30, 2019 through November 26, 2019; conduct or supervise the taking of the SlimPulse and 3rd Party Corrected surveys from a depth of 477.00 feet to a depth of 19979.00 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 Salt Flat CC 20-29 Federal Com 35H Well (Original Hole) API No. 30-015-45049 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

Jon Koestner

FS



Subscribed and Sworn to before me this 6 day of December (month) 2019 (yr)

My Commission expires:

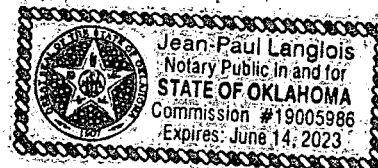
6/16/2023

Notary Public

Cowiche, Oklahoma

(County/State)

(signature)



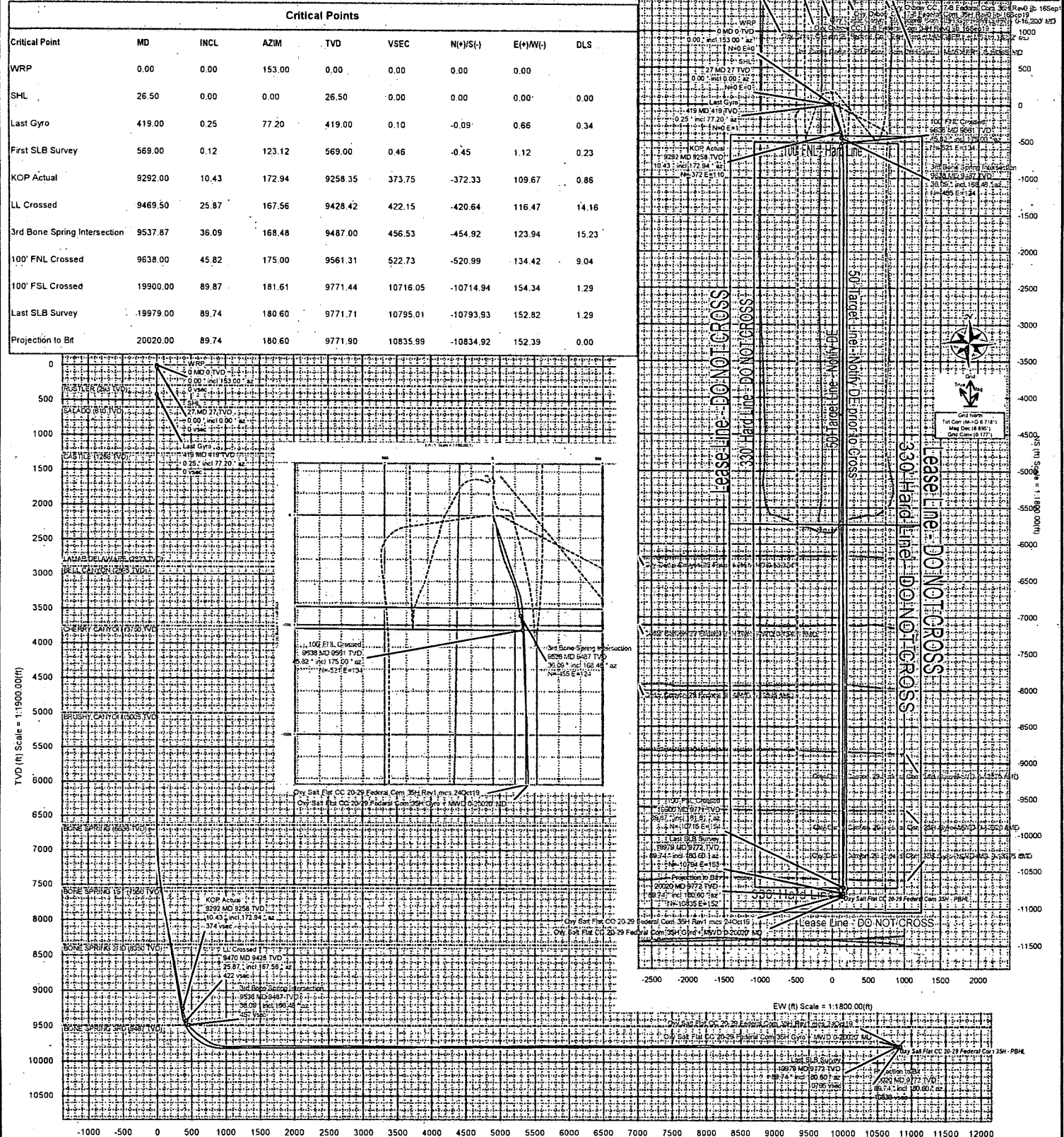
Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Salt Flat CC 20-29 Federal Com 35H	NM Eddy County (NAD 83)	Oxy Salt Flat CC 20-29 Federal Com 35H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	IFR1	Dip:	59.921°	Date:	29-Oct-2019	Lat:	N 22 12 41.19	Northing:	440914.49NUS	Grid Conv:	0.1766°
MagDec:	6.895°	FS:	47958.8nT	Gravity FS:	939.459mg (9.80665 Based)	Lon:	W 104 0 7.07	Easting:	643822.23NUS	Scale Fact:	0.99992112
								Slot:			
								TVD Ref:			
								RKB(2951.8ft above MSL)			
								Plan:			
								Oxy Salt Flat CC 20-29 Federal Com 35H Gyro + MWD 0-23020' MD			



Vertical Section (ft) Azim = 179.24° Scale = 1:1900.00(ft) Origin = 0N/-S, 0E/-W

Oxy Salt Flat CC 20-29 Federal Com 35H Gyro + MWD 0-20020' MD Survey

Geodetic Report

(Def Survey)



Report Date: December 02, 2019 - 03:46 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Salt Flat CC 20-29 Federal Com 35H / Oxy Salt Flat CC 20-29 Federal Com 35H
 Well: Oxy Salt Flat CC 20-29 Federal Com 35H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-45049
 Survey Name: Oxy Salt Flat CC 20-29 Federal Com 35H Gyro + MWD 0-20020' MD
 Survey Date: October 21, 2019
 Tort / AHD / DDI / ERD Ratio: 190.976' / 10865.932 ft / 6.627' / 1.109
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 41.18973", W 104° 0' 0.706607"
 Location Grid N/E Y/X: N 440814.490 HUS, E 643822.230 HUS
 CRS Grid Convergence Angle: 0.1766°
 Grid Scale Factor: 0.99992112
 Version / Patch: 2.10.787.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 179.238° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 2951.800 ft above MSL
 Seabed / Ground Elevation: 2925.300 ft above MSL
 Magnetic Declination: 6.895°
 Total Gravity Field Strength: 998.4689mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47858.900 nT
 Magnetic Dip Angle: 59.921°
 Declination Date: October 29, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1766°
 Total Corr Mag North-Grid: 6.7184°
 North: Well Head
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100m)	Northing (HUS)	Easting (HUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP SHL	0.00	0.00	153.00	0.00	0.00	0.00	0.00	N/A	440814.49	643822.23	N 32 12 41.19 W 104 0 7.07	
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	440814.49	643822.23	N 32 12 41.19 W 104 0 7.07	
	102.00	0.25	261.75	102.00	0.02	-0.02	-0.16	0.33	440814.47	643822.07	N 32 12 41.19 W 104 0 7.07	
	129.00	0.13	309.04	129.00	0.01	-0.01	-0.25	0.70	440814.48	643821.98	N 32 12 41.19 W 104 0 7.07	
	159.00	0.15	185.08	159.00	0.03	-0.03	-0.28	0.82	440814.46	643821.96	N 32 12 41.19 W 104 0 7.07	
	185.00	0.38	134.06	185.00	0.12	-0.12	-0.22	1.19	440814.37	643822.01	N 32 12 41.19 W 104 0 7.07	
	215.00	0.35	118.46	215.00	0.24	-0.24	-0.06	0.34	440814.25	643822.17	N 32 12 41.19 W 104 0 7.07	
	245.00	0.31	87.07	245.00	0.28	-0.28	0.10	0.61	440814.21	643822.33	N 32 12 41.19 W 104 0 7.06	
	272.00	0.22	79.36	272.00	0.27	-0.26	0.22	0.36	440814.23	643822.45	N 32 12 41.19 W 104 0 7.06	
	304.00	0.09	70.68	304.00	0.25	-0.24	0.31	0.41	440814.25	643822.54	N 32 12 41.19 W 104 0 7.06	
Last Gyro First SLB Survey	335.00	0.14	57.84	335.00	0.22	-0.22	0.36	0.18	440814.27	643822.59	N 32 12 41.19 W 104 0 7.06	
	367.00	0.28	68.74	367.00	0.17	-0.17	0.47	0.45	440814.32	643822.70	N 32 12 41.19 W 104 0 7.06	
	398.00	0.19	66.83	398.00	0.13	-0.12	0.58	0.29	440814.37	643822.81	N 32 12 41.19 W 104 0 7.06	
	419.00	0.25	77.20	419.00	0.10	-0.09	0.66	0.34	440814.40	643822.89	N 32 12 41.19 W 104 0 7.06	
	477.00	0.32	141.81	477.00	0.21	-0.19	0.88	0.54	440814.30	643823.11	N 32 12 41.19 W 104 0 7.05	
	569.00	0.12	123.12	569.00	0.46	-0.45	1.12	0.23	440814.04	643823.35	N 32 12 41.19 W 104 0 7.05	
	660.00	0.28	148.30	660.00	0.71	-0.69	1.32	0.20	440813.80	643823.55	N 32 12 41.18 W 104 0 7.05	
	750.00	0.13	198.77	749.99	0.99	-0.97	1.40	0.25	440813.52	643823.63	N 32 12 41.18 W 104 0 7.05	
	841.00	0.13	34.10	840.99	1.00	-0.99	1.43	0.28	440813.50	643823.66	N 32 12 41.18 W 104 0 7.05	
	932.00	0.08	183.47	931.99	0.98	-0.96	1.48	0.22	440813.53	643823.71	N 32 12 41.18 W 104 0 7.05	
	1023.00	0.17	111.67	1022.99	1.10	-1.08	1.60	0.18	440813.41	643823.83	N 32 12 41.18 W 104 0 7.05	
	1114.00	0.08	280.17	1113.99	1.14	-1.12	1.67	0.27	440813.37	643823.90	N 32 12 41.18 W 104 0 7.05	
	1206.00	0.11	308.36	1205.99	1.07	-1.05	1.53	0.06	440813.44	643823.76	N 32 12 41.18 W 104 0 7.05	
	1296.00	0.12	334.41	1295.99	0.93	-0.91	1.43	0.06	440813.58	643823.66	N 32 12 41.18 W 104 0 7.05	
	1388.00	0.05	59.48	1387.99	0.82	-0.80	1.42	0.14	440813.69	643823.65	N 32 12 41.18 W 104 0 7.05	
	1479.00	0.13	220.34	1478.99	0.88	-0.86	1.39	0.20	440813.63	643823.62	N 32 12 41.18 W 104 0 7.05	
	1570.00	0.05	116.67	1569.99	0.98	-0.96	1.35	0.16	440813.53	643823.58	N 32 12 41.18 W 104 0 7.05	
	1669.00	0.10	112.15	1668.99	1.03	-1.01	1.47	0.05	440813.48	643823.70	N 32 12 41.18 W 104 0 7.05	
	1764.00	0.05	101.49	1763.99	1.07	-1.05	1.59	0.05	440813.44	643823.82	N 32 12 41.18 W 104 0 7.05	
	1859.00	0.03	91.57	1858.99	1.08	-1.06	1.66	0.02	440813.43	643823.89	N 32 12 41.18 W 104 0 7.05	
	1954.00	0.12	325.03	1953.99	1.00	-0.98	1.62	0.15	440813.51	643823.85	N 32 12 41.18 W 104 0 7.05	
	2049.00	0.09	173.56	2048.99	0.99	-0.97	1.58	0.21	440813.52	643823.81	N 32 12 41.18 W 104 0 7.05	
	2144.00	0.18	144.30	2143.99	1.19	-1.17	1.67	0.12	440813.32	643823.90	N 32 12 41.18 W 104 0 7.05	
	2239.00	0.15	286.34	2238.99	1.27	-1.25	1.64	0.33	440813.24	643823.87	N 32 12 41.18 W 104 0 7.05	
	2334.00	0.17	157.89	2333.99	1.37	-1.35	1.57	0.30	440813.14	643823.80	N 32 12 41.18 W 104 0 7.05	
	2429.00	0.17	122.87	2428.99	1.58	-1.56	1.74	0.11	440812.94	643823.97	N 32 12 41.17 W 104 0 7.05	
	2524.00	0.19	166.41	2523.99	1.81	-1.78	1.90	0.14	440812.71	643824.13	N 32 12 41.17 W 104 0 7.04	
	2619.00	0.05	74.68	2618.99	1.95	-1.93	1.98	0.21	440812.57	643824.21	N 32 12 41.17 W 104 0 7.04	
	2714.00	0.08	266.91	2713.99	1.95	-1.92	1.95	0.14	440812.57	643824.18	N 32 12 41.17 W 104 0 7.04	
	2808.00	0.02	4.83	2807.99	1.93	-1.91	1.89	0.09	440812.58	643824.12	N 32 12 41.17 W 104 0 7.04	
	2903.00	0.10	229.10	2902.99	1.97	-1.94	1.82	0.12	440812.55	643824.05	N 32 12 41.17 W 104 0 7.04	
	2998.00	0.11	105.10	2997.99	2.05	-2.02	1.85	0.20	440812.47	643824.08	N 32 12 41.17 W 104 0 7.04	
	3093.00	0.14	103.60	3092.99	2.10	-2.07	2.05	0.03	440812.42	643824.28	N 32 12 41.17 W 104 0 7.04	
	3188.00	0.13	185.16	3187.99	2.24	-2.21	2.15	0.19	440812.28	643824.38	N 32 12 41.17 W 104 0 7.04	
	3283.00	0.09	59.64	3282.99	2.31	-2.28	2.21	0.21	440812.21	643824.44	N 32 12 41.17 W 104 0 7.04	
	3378.00	0.09	270.12	3377.99	2.27	-2.24	2.20	0.18	440812.25	643824.43	N 32 12 41.17 W 104 0 7.04	
	3473.00	0.11	132.94	3472.99	2.33	-2.30	2.19	0.20	440812.19	643824.42	N 32 12 41.17 W 104 0 7.04	
	3568.00	0.10	194.19	3567.99	2.47	-2.44	2.24	0.11	440812.05	643824.47	N 32 12 41.17 W 104 0 7.04	
	3663.00	0.16	293.72	3662.99	2.50	-2.47	2.10	0.21	440812.02	643824.33	N 32 12 41.17 W 104 0 7.04	
	3758.00	0.14	273.95	3757.99	2.43	-2.41	1.86	0.06	440812.08	643824.09	N 32 12 41.17 W 104 0 7.04	
3853.00	0.11	137.20	3852.99	2.49	-2.47	1.80	0.24	440812.02	643824.03	N 32 12 41.17 W 104 0 7.05		
3948.00	0.16	302.77	3947.99	2.49	-2.46	1.75	0.28	440812.03	643823.98	N 32 12 41.17 W 104 0 7.05		
4043.00	0.09	178.80	4042.99	2.49	-2.47	1.64	0.23	440812.02	643823.87	N 32 12 41.17 W 104 0 7.05		
4137.00	0.11	307.51	4136.99	2.51	-2.49	1.57	0.19	440812.00	643823.80	N 32 12 41.17 W 104 0 7.05		
4232.00	0.12	340.06	4231.99	2.36	-2.34	1.47	0.07	440812.15	643823.70	N 32 12 41.17 W 104 0 7.05		
4327.00	0.09	343.64	4326.99	2.19	-2.17	1.41	0.03	440812.32	643823.64	N 32 12 41.17 W 104 0 7.05		
4422.00	0.07	128.10	4421.99	2.15	-2.14	1.44	0.16	440812.35	643823.67	N 32 12 41.17 W 104 0 7.05		
4517.00	0.17	246.11	4516.99	2.25	-2.23	1.35	0.22	440812.26	643823.58	N 32 12 41.17 W 104 0 7.05		
4612.00	0.14	164.76	4611.99	2.41	-2.40	1.26	0.21	440812.09	643823.49	N 32 12 41.17 W 104 0 7.05		
4707.00	0.10	124.97	4706.99	2.58	-2.56	1.35	0.09	440811.93	643823.58	N 32 12 41.16 W 104 0 7.05		
4802.00	0.09	109.71	4801.99	2.65	-2.63	1.49	0.03	440811.86	643823.72	N 32 12 41.16 W 104 0 7.05		
4897.00	0.17	219.35	4896.99	2.78	-2.76	1.47	0.23	440811.73	643823.70	N 32 12 41.16 W 104 0 7.05		
4992.00	0.13	249.79	4991.99	2.93	-2.91	1.28	0.09	440811.58	643823.51	N 32 12 41.16 W 104 0 7.05		
5087.00	0.20	207.28	5086.99	3.11	-3.09	1.11	0.14	440811.40	643823.34	N 32 12 41.16 W 104 0 7.05		
5182.00	0.05	51.56	5181.99	3.23	-3.22	1.06	0.26	440811.27	643823.29	N 32 12 41.16 W 104 0 7.05		
5277.00	0.16	155.48	5276.99	3.33	-3.31	1.15	0.19	440811.18	643823.38	N 32 12 41.16 W 104 0 7.05		
5372.00	0.18	344.15	5371.99	3.30	-3.29	1.16	0.36	440811.20	643823.39	N 32 12 41.16 W 104 0 7.05		
5467.00	0.07	182.87	5466.99	3.22	-3.20	1.12	0.26	440811.29	643823.35	N 32 12 41.16 W 104 0 7.05		
5563.00	0.15	309.80	5562.99	3.19	-3.18	1.02	0.21	440811.31	643823.25	N 32 12 41.16 W 104 0 7.05		
5658.00	0.18	219.87	5657.99	3.23	-3.22	0.83	0.25	440811.27	643823.06	N 32 12 41.16 W 104 0 7.06		
5753.00	0.12	144.24	5752.99	3.42	-3.41	0.79	0.20	440811.08	643823.02	N 32 12 41.16 W 104 0 7.06		
5848.00	0.17	235.04	5847.99	3.58	-3.57	0.73	0.22	440810.92	643822.96	N 32 12 41.15 W 104 0 7.06		
5944.00	0.21	133.33	5943.99	3.79	-3.78	0.75	0.31	440810.71	643822.9	N 32 12 41.15 W 104 0 7.06		
6039.00	0.10	98.88	6038.99	3.92	-3.91	0.95	0.15	440810.58	643823.18	N 32 12 41.15 W 104 0 7.06		
6134.00	0.17	249.18	6133.99	3.98	-3.97	0.90	0.28	440810.52	643823.13	N 32 12 41.15 W 104 0 7.06		
6229.00	0.16	299.83	6228.99	3.96	-3.95	0.66	0.15	440810.54	643822.89	N 32 12 41.15 W 104 0 7.06		
6324.00	0.28	21.97	6323.99	3.83	-3.83	0.57	0.18	440810.66	643822.80	N 32 12 41.15 W 104 0 7.06		
6420.00	0.03	252.97	6419.99	3.83	-3.82	0.41	0.30	440810.67	643822.64	N 32 12 41.15 W 104 0 7.06		

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	6705.00	0.84	160.42	6704.98	4.51	-4.51	0.37	0.90	440809.98	643822.60	N 32 12 41.15 W	104 0 7.06
	6801.00	2.31	187.98	6800.94	7.09	-7.08	0.34	1.68	440807.41	643822.57	N 32 12 41.12 W	104 0 7.06
	6896.00	3.27	177.90	6895.83	11.69	-11.69	0.17	1.13	440802.80	643822.40	N 32 12 41.07 W	104 0 7.06
	6991.00	2.86	153.19	6990.70	16.53	-16.51	1.34	1.44	440797.98	643823.57	N 32 12 40.93 W	104 0 7.05
	7086.00	3.49	145.35	7085.55	21.06	-21.01	4.05	0.80	440793.49	643826.28	N 32 12 40.98 W	104 0 7.02
	7181.00	3.97	144.24	7180.35	26.15	-26.05	7.62	0.51	440788.44	643829.85	N 32 12 40.93 W	104 0 6.98
	7277.00	4.44	154.66	7276.09	32.25	-32.11	11.15	0.93	440782.38	643833.38	N 32 12 40.87 W	104 0 6.94
	7372.00	5.66	167.63	7370.73	40.19	-40.01	13.73	1.75	440774.48	643835.96	N 32 12 40.79 W	104 0 6.91
	7467.00	6.73	176.77	7465.17	50.34	-50.14	15.04	1.53	440768.35	643837.27	N 32 12 40.69 W	104 0 6.89
	7562.00	8.03	172.55	7559.38	62.49	-62.28	16.22	1.48	440752.21	643838.45	N 32 12 40.57 W	104 0 6.88
	7656.00	9.24	170.68	7652.32	76.47	-76.24	18.29	1.32	440738.26	643840.52	N 32 12 40.43 W	104 0 6.86
	7751.00	9.25	168.36	7748.09	91.47	-91.19	21.34	0.73	440723.31	643843.56	N 32 12 40.29 W	104 0 6.82
	7846.00	9.08	165.68	7839.87	106.21	-105.88	24.99	0.22	440708.62	643847.22	N 32 12 40.14 W	104 0 6.78
	7941.00	11.85	168.77	7933.28	123.09	-122.72	28.75	2.97	440691.78	643850.98	N 32 12 39.97 W	104 0 6.74
	8036.00	11.93	167.95	8026.24	142.31	-141.89	32.70	0.20	440677.62	643854.93	N 32 12 39.78 W	104 0 6.69
	8131.00	12.02	164.09	8119.18	161.49	-161.00	37.48	0.85	440653.50	643859.69	N 32 12 39.60 W	104 0 6.64
	8226.00	11.46	162.93	8212.19	180.08	-179.54	42.94	0.64	440634.97	643865.17	N 32 12 39.41 W	104 0 6.57
	8321.00	11.61	160.97	8305.27	196.23	-195.60	48.83	0.44	440616.91	643871.06	N 32 12 39.23 W	104 0 6.50
	8416.00	11.39	158.66	8398.36	216.09	-215.37	55.38	0.54	440599.14	643877.59	N 32 12 39.06 W	104 0 6.43
	8510.00	11.09	158.45	8490.56	233.23	-232.42	62.06	0.53	440582.08	643884.29	N 32 12 38.89 W	104 0 6.35
	8605.00	11.13	155.85	8583.78	250.19	-249.29	69.17	0.52	440565.22	643891.39	N 32 12 38.72 W	104 0 6.27
	8700.00	10.90	157.27	8677.03	266.93	-266.94	76.39	0.37	440548.57	643898.61	N 32 12 38.56 W	104 0 6.19
	8795.00	10.88	156.05	8770.32	283.50	-282.42	83.50	0.24	440532.09	643905.72	N 32 12 38.39 W	104 0 6.10
	8890.00	10.82	158.90	8863.62	300.11	-298.93	90.35	0.57	440515.58	643912.57	N 32 12 38.23 W	104 0 6.03
	8985.00	11.03	160.99	8956.90	317.10	-315.84	96.52	0.47	440498.67	643918.74	N 32 12 38.06 W	104 0 5.96
	9080.00	11.13	164.65	9050.13	334.60	-333.28	101.91	0.75	440481.24	643924.13	N 32 12 37.89 W	104 0 5.89
	9175.00	10.89	168.37	9143.38	352.29	-350.91	106.14	0.79	440463.61	643928.37	N 32 12 37.71 W	104 0 5.84
	9270.00	10.76	170.43	9193.48	361.73	-360.32	107.91	0.80	440445.20	643930.13	N 32 12 37.62 W	104 0 5.82
KOP Actual	9292.00	10.43	172.94	9258.35	373.75	-372.33	109.67	0.86	440442.19	643931.89	N 32 12 37.50 W	104 0 5.80
	9387.00	14.47	175.21	9351.10	394.15	-392.70	111.71	4.28	440421.83	643933.93	N 32 12 37.30 W	104 0 5.78
LL Crossed	9469.50	25.87	167.56	9428.42	422.15	-420.64	116.47	14.16	440393.88	643938.69	N 32 12 37.02 W	104 0 5.73
	9482.00	27.62	166.93	9439.59	427.66	-426.13	117.71	14.16	440388.40	643939.93	N 32 12 36.87 W	104 0 5.71
3rd Bone Spring Intersection	9537.87	36.09	168.48	9487.00	456.53	-454.92	123.94	15.23	440359.61	643946.16	N 32 12 36.68 W	104 0 5.64
	9577.00	42.03	169.23	9517.37	480.77	-478.10	128.69	15.23	440335.43	643950.50	N 32 12 36.45 W	104 0 5.59
100' FNL Crossed	9638.00	45.82	175.00	9561.31	522.73	-520.99	134.42	9.04	440293.55	643956.64	N 32 12 36.03 W	104 0 5.52
	9672.00	48.05	177.90	9648.53	547.53	-545.77	135.94	9.04	440268.76	643958.16	N 32 12 35.79 W	104 0 5.50
	9766.00	54.59	177.58	9643.25	620.85	-618.06	138.85	6.96	440195.48	643961.06	N 32 12 35.06 W	104 0 5.47
	9861.00	57.21	178.72	9696.50	699.49	-697.67	141.37	2.93	440116.87	643963.59	N 32 12 34.28 W	104 0 5.45
	9956.00	63.09	177.43	9743.77	781.83	-779.98	144.17	6.30	440034.57	643966.39	N 32 12 33.47 W	104 0 5.42
	10051.00	78.14	175.70	9775.21	871.08	-868.17	149.58	15.93	439945.39	643971.80	N 32 12 32.58 W	104 0 5.36
	10145.00	83.13	179.89	9790.67	964.74	-962.79	153.16	6.82	439851.78	643975.38	N 32 12 31.66 W	104 0 5.32
	10241.00	90.82	178.88	9795.68	1059.53	-1057.58	154.18	8.16	439757.57	643979.04	N 32 12 30.72 W	104 0 5.31
	10314.00	93.02	177.82	9793.24	1132.48	-1130.50	156.28	3.34	439684.08	643978.50	N 32 12 30.00 W	104 0 5.29
	10498.00	90.26	179.89	9787.97	1316.37	-1314.36	159.96	1.87	439500.24	643982.17	N 32 12 28.18 W	104 0 5.25
	10592.00	90.23	179.92	9787.57	1410.36	-1408.36	160.11	0.05	439406.25	643982.33	N 32 12 27.25 W	104 0 5.25
	10685.00	90.29	180.06	9787.15	1503.35	-1501.36	160.13	0.16	439313.25	643982.35	N 32 12 26.33 W	104 0 5.26
	10778.00	90.19	180.08	9786.76	1596.34	-1594.36	160.01	0.11	439220.26	643982.23	N 32 12 25.41 W	104 0 5.26
	10871.00	90.40	180.50	9786.53	1689.33	-1687.35	159.54	0.46	439127.27	643981.76	N 32 12 24.49 W	104 0 5.27
	10968.00	90.40	180.43	9786.11	1786.30	-1784.33	158.76	0.33	439030.28	643980.97	N 32 12 23.53 W	104 0 5.28
	11063.00	90.67	180.77	9785.23	1881.27	-1879.34	157.78	0.46	438935.30	643979.98	N 32 12 22.59 W	104 0 5.30
	11158.00	90.40	180.38	9784.34	1978.24	-1976.33	156.81	0.50	438840.32	643979.03	N 32 12 21.65 W	104 0 5.31
	11253.00	89.81	179.85	9784.17	2071.23	-2069.33	155.82	0.83	438745.33	643978.84	N 32 12 20.71 W	104 0 5.32
	11348.00	89.54	182.01	9784.62	2166.18	-2164.31	155.08	2.28	438650.35	643977.29	N 32 12 19.77 W	104 0 5.34
	11443.00	89.71	180.30	9785.16	2261.12	-2259.29	153.16	1.80	438555.39	643975.38	N 32 12 18.83 W	104 0 5.36
	11533.00	90.12	181.95	9785.44	2451.01	-2449.24	149.43	0.89	438460.45	643971.65	N 32 12 16.95 W	104 0 5.41
	11728.00	90.29	181.11	9785.10	2545.94	-2544.21	146.89	0.90	438270.49	643969.11	N 32 12 16.01 W	104 0 5.45
	11823.00	90.50	180.60	9784.45	2640.90	-2639.19	145.48	0.58	438175.51	643967.70	N 32 12 15.07 W	104 0 5.47
	11918.00	90.33	181.29	9783.76	2735.85	-2734.18	143.91	0.75	438080.53	643966.13	N 32 12 14.13 W	104 0 5.49
	12013.00	89.19	180.25	9784.16	2830.81	-2829.17	142.63	1.62	437985.55	643964.85	N 32 12 13.19 W	104 0 5.51
	12108.00	89.92	180.69	9784.90	2925.79	-2924.16	141.85	0.90	437890.57	643964.07	N 32 12 12.25 W	104 0 5.52
	12203.00	89.78	180.78	9785.15	3020.75	-3019.15	140.64	0.18	437795.58	643962.85	N 32 12 11.31 W	104 0 5.54
	12298.00	89.99	180.00	9785.34	3115.73	-3114.15	139.99	0.85	437700.59	643962.21	N 32 12 10.37 W	104 0 5.55
	12393.00	89.71	179.90	9785.58	3210.73	-3209.15	140.07	0.31	437605.60	643962.29	N 32 12 9.43 W	104 0 5.55
	12488.00	89.61	180.63	9786.15	3305.71	-3304.14	139.63	0.78	437510.61	643961.85	N 32 12 8.49 W	104 0 5.56
	12583.00	89.68	180.39	9786.74	3400.68	-3399.14	138.79	0.26	437415.63	643961.01	N 32 12 7.55 W	104 0 5.57
	12678.00	89.78	180.46	9787.18	3495.66	-3494.13	138.08	0.13	437320.64	643960.30	N 32 12 6.61 W	104 0 5.58
	12773.00	89.74	180.31	9787.58	3590.64	-3589.13	137.44	0.16	437225.65	643959.66	N 32 12 5.67 W	104 0 5.60
	12868.00	89.12	179.73	9788.53	3685.63	-3684.13	137.41	0.89	437130.66	643959.63	N 32 12 4.73 W	104 0 5.60
	12963.00	89.74	180.23	9789.46	3779.61	-3778.12	137.44	0.85	437035.68	643959.66	N 32 12 3.80 W	104 0 5.60
	13057.00	89.88	179.79	9789.78	3874.60	-3873.12	137.43	0.49	436941.68	643959.65	N 32 12 2.86 W	104 0 5.61
	13152.00	90.85	180.99	9789.17	3969.58	-3968.11	136.78	1.82	436846.70	643959.00	N 32 12 1.92 W	104 0 5.62
	13247.00	90.74	180.39	9787.85	4064.54	-4063.10	135.64	0.64	436751.72	643957.86	N 32 12 0.98 W	104 0 5.63
	13342.00	90.36	180.57	9786.94	4159.51	-4158.09	134.84	0.44	436656.74	643957.06	N 32 12 0.04 W	104 0 5.65
	13437.00	90.43	180.72	9786.29	4254.48	-4253.08	133.77	0.17	436561.75	643955.99	N 32 11 59.10 W	104 0 5.66
	13532.00	90.71	180.69	9785.34	4349.45	-4348.07	132.60	0.30	436466.77	643954.82	N 32 11 58.16 W	104 0 5.68
	13627.00	90.23	180.78	9784.56	4444.41	-4443.06	131.38	0.51	436371.79	643953.60	N 32 11 57.22 W	104 0 5.70
	13717.00	90.36	180.07	9783.58	4534.37	-4533.05	129.97	0.38	436276.81	643952.19	N 32 11 55.34 W	104 0 5.72
	14007.00	90.29	179.99	9782.51	4624.35							

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 ° ' ")
	17994.00	89.81	180.80	9767.93	8810.66	-8809.15	172.10	0.26	432008.06	643994.32	N 32 11 14.02 W 104 0 5.38	
	18089.00	90.60	180.37	9767.59	8905.63	-8904.14	171.13	0.95	431911.07	643993.35	N 32 11 13.08 W 104 0 5.39	
	18184.00	89.78	180.52	9767.27	9000.60	-8999.13	170.40	0.88	431816.08	643992.61	N 32 11 12.14 W 104 0 5.41	
	18279.00	89.81	180.44	9767.61	9095.58	-9094.13	169.60	0.09	431721.10	643991.82	N 32 11 11.20 W 104 0 5.42	
	18374.00	88.37	179.58	9769.12	9190.56	-9189.12	169.58	1.77	431626.12	643991.82	N 32 11 10.26 W 104 0 5.42	
	18469.00	90.12	180.47	9770.37	9285.54	-9284.10	169.54	2.07	431531.14	643991.78	N 32 11 9.32 W 104 0 5.43	
	18564.00	91.53	180.51	9769.00	9380.50	-9379.09	168.73	1.48	431436.16	643990.95	N 32 11 8.38 W 104 0 5.44	
	18754.00	89.64	180.73	9767.07	9570.43	-9569.06	166.67	1.00	431246.21	643988.89	N 32 11 6.50 W 104 0 5.47	
	18840.00	89.98	180.56	9767.43	9656.40	-9655.05	165.71	0.34	431160.22	643987.92	N 32 11 5.65 W 104 0 5.48	
	18944.00	89.85	180.29	9767.67	9760.38	-9759.05	164.93	0.26	431056.23	643987.15	N 32 11 4.62 W 104 0 5.50	
	19039.00	89.81	180.97	9767.95	9855.35	-9854.04	163.89	0.72	430961.25	643986.11	N 32 11 3.68 W 104 0 5.51	
	19134.00	90.19	180.64	9767.95	9950.31	-9949.03	162.55	0.53	430866.26	643984.77	N 32 11 2.74 W 104 0 5.53	
	19228.00	90.12	180.80	9767.70	10044.28	-10043.02	161.37	0.19	430772.28	643983.59	N 32 11 1.81 W 104 0 5.55	
	19323.00	89.84	180.44	9767.90	10139.25	-10138.02	160.35	0.63	430677.29	643982.56	N 32 11 0.87 W 104 0 5.56	
	19513.00	89.78	181.31	9768.86	10329.17	-10327.99	157.44	0.46	430487.33	643979.66	N 32 10 58.99 W 104 0 5.60	
	19608.00	89.37	179.56	9769.56	10424.14	-10422.98	156.72	1.89	430392.35	643978.94	N 32 10 58.05 W 104 0 5.62	
	19703.00	89.54	179.89	9770.47	10519.14	-10517.98	157.18	0.39	430297.37	643979.40	N 32 10 57.11 W 104 0 5.61	
	19893.00	89.88	181.70	9771.43	10709.05	-10707.95	154.54	0.97	430107.41	643976.76	N 32 10 55.23 W 104 0 5.65	
100' FSL Crossed	19900.00	89.87	181.67	9771.44	10716.05	-10714.94	154.34	1.29	430100.41	643976.56	N 32 10 55.16 W 104 0 5.65	
Last SLB Survey	19979.00	89.74	180.60	9771.71	10795.01	-10793.93	152.82	1.29	430021.44	643975.03	N 32 10 54.38 W 104 0 5.68	
Projection to Bit	20020.00	89.74	180.60	9771.90	10835.99	-10834.92	152.39	0.00	429980.44	643974.61	N 32 10 53.97 W 104 0 5.68	

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	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 35H Gyro + MWD 0-20020' MD
	1	26.500	26.500	Act Stns	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 35H Gyro + MWD 0-20020' MD
	1	26.500	419.000	Act Stns	30.000	30.000	GYD_GC+DROP+OH	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 35H Gyro Original Borehole / Oxy Salt Flat
	1	419.000	20020.000	Act Stns	30.000	30.000	A010Ma_MWD+IFR1+SAG+MS	CC 20-29 Federal Com 35H Gyro + MWD 0-20020' MD