

NM OIL CONSERVATION ARTESIA DISTRICT

OCT 31 2019

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 30-015-45646	Pool Code 23740	Pool Name Ingle Wells Bore Spring
Property Code 324872	Property Name PURE GOLD MDP1 "29_17" FEDERAL COM	Well Number 2H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3348.4'

Surface Location

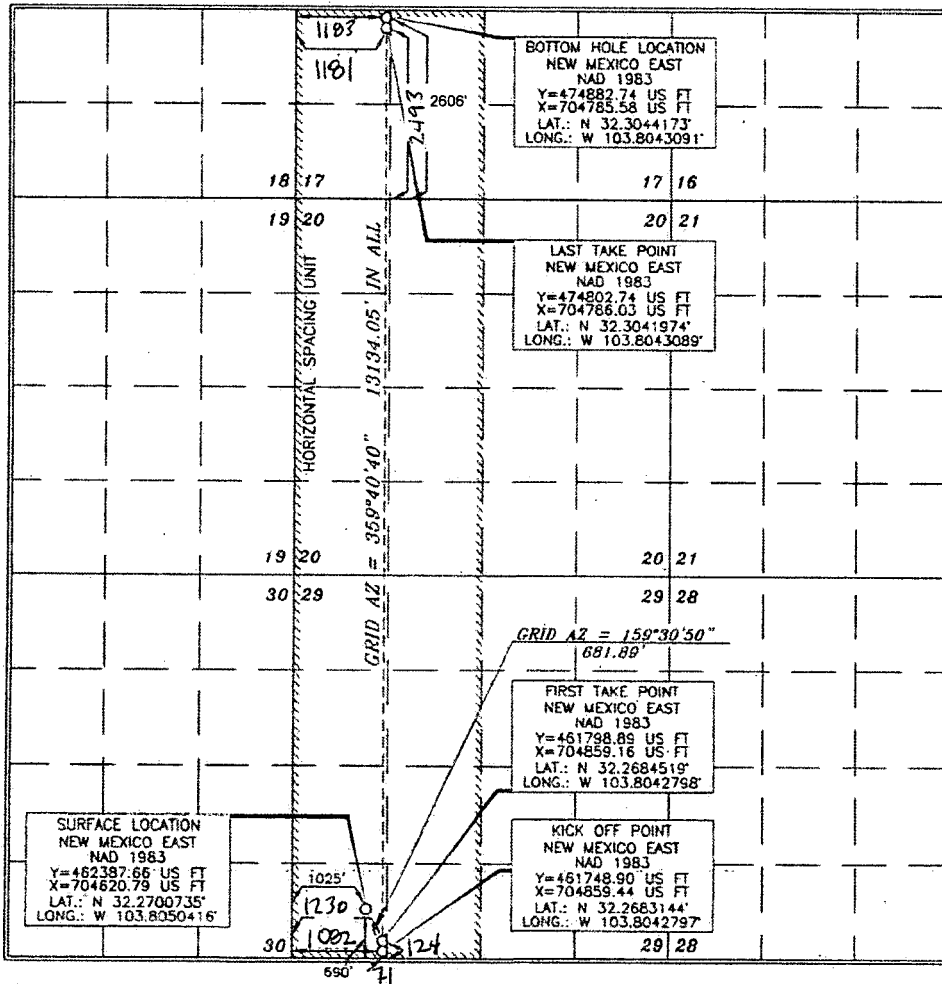
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	23 SOUTH	31 EAST, N.M.P.M.		690'	SOUTH	1025'	WEST	EDDY

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
L	17	23 SOUTH	31 EAST, N.M.P.M.		2606'	SOUTH	1183	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
000			

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 undivided 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: Sarah Chapman Date: 6/25/19

Printed Name: Sarah Chapman
E-mail Address: Sarah.Chapman@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from the 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: APRIL 10, 2018

Signature and Seal: [Signature] Professional Surveyor

Certificate Number: 15079

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 31 2019

Intent ☐ As Drilled ☒

RECEIVED

API # 30-015-45646			
Operator Name: Oxy USA Inc.	Property Name: Pure Acid MDP 29-17 Fed Com	Well Number: 2H	

Kick Off Point (KOP)

UL H	Section 29	Township 23S	Range 31E	Lot	Feet 71	From N/S South	Feet 1082	From E/W West	County EDDY
Latitude 32.26837					Longitude -103.80487				NAD NAD83

First Take Point (FTP)

UL H	Section 29	Township 23S	Range 31E	Lot	Feet 124	From N/S South	Feet 1230	From E/W West	County EDDY
Latitude 32.26851					Longitude -103.80439				NAD NAD83

Last Take Point (LTP)

UL L	Section 17	Township 23S	Range 31E	Lot	Feet 2493	From N/S South	Feet 1181	From E/W West	County EDDY
Latitude 32.30411					Longitude -103.80434				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

May 14, 2019

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

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 31 2019

RECEIVED

29, 23S, 31E, Eddy NM
N 32.27007 W 103.80503

Re:

CLIENT: OXY USA Inc.
WELL: Pure Gold MDP1 29-17 Fed Com 2H
FIELD: Ingle Wells Bone Spring

RIG: H&P 656
COUNTY: Eddy
API NO: 30-015-45646
JOB NO: 19MLH0134

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>
Kamonporn Rimkheeree FE	Pure Gold MDP1 29- 17 Fed Com 2H Original Hole	773.00 Ft to 22853.00 Ft	April 16, 2019 to May 9, 2019	TelePacer/SlimPulse Third Party Corrected

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

Mike Stephens
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)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
29, 23S, 31E, Eddy NM
N 32.27007 W 103.80503

I, Kamonporn Rimbheeree certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of April 16, 2019 through May 09, 2019, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 773.00 feet to a depth of 22853.00 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 Pure Gold MDP1 29-17 Fed Com 2H Well (Original Hole) API No. 30-015-45646 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
Kamonporn Rimbheeree
FE

Kamonporn Rimbheeree

Subscribed and Sworn to before me this 14th day of May (month) 2019 (yr)

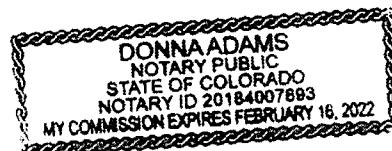
My Commission expires:

2-11-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



Schlumberger

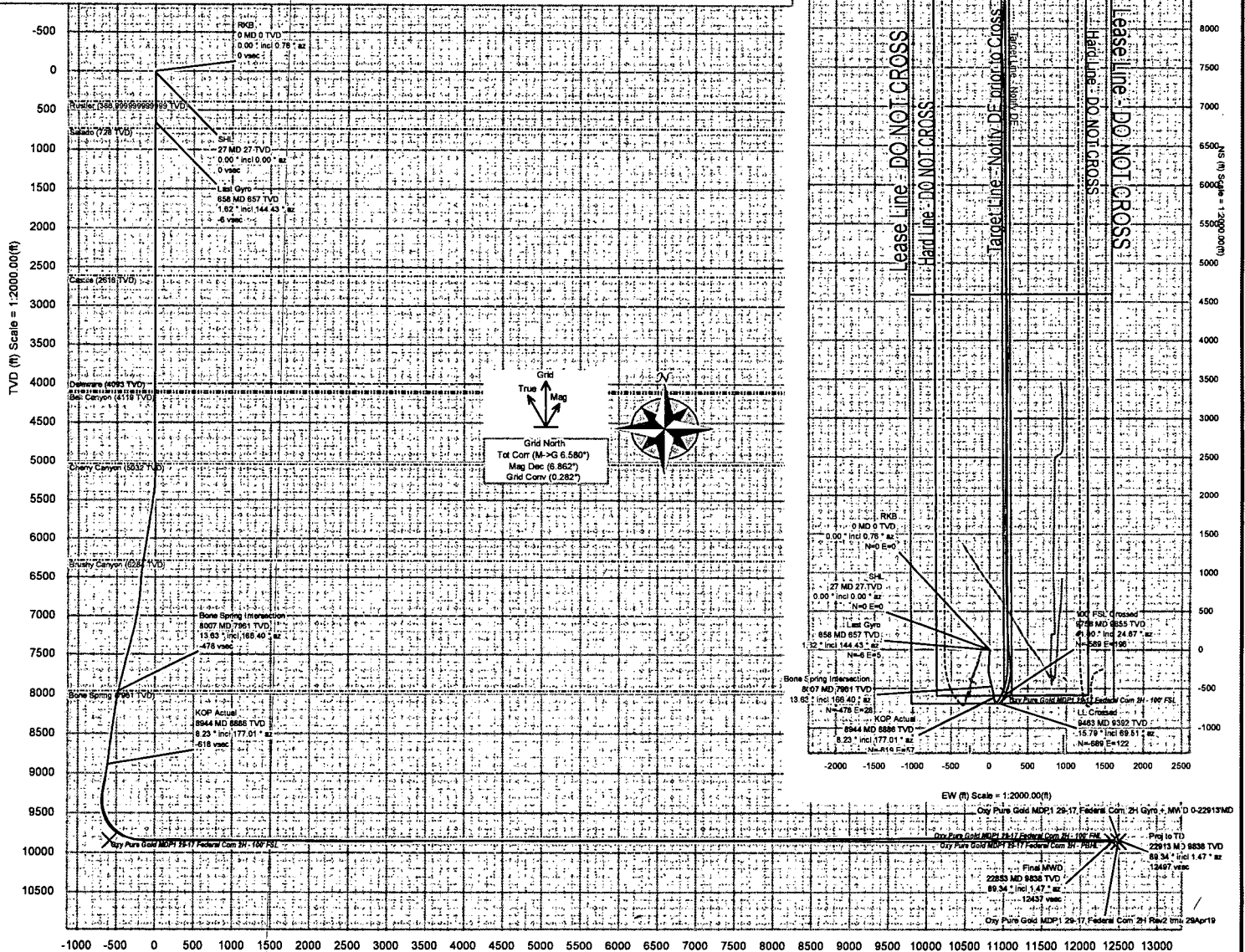
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Pure Gold MDP1 29-17 Federal Com 2H	NM Eddy County (NAD 83)	Oxy Pure Gold MDP1 29-17 Federal Com 2H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	IFR1	Dip:	59.993°	Date:	25-Apr-2019	Lat:	N 32 16 13.26	Northing:	452387.66RUS	Grid Conv:	0.2821°
MagDec:	5.962°	FS:	47974.7nT	Gravity FS:	998.453mgm (9.80665 Based)	Lon:	W 103 48 18.16	Easting:	704620.79RUS	Scale Fact:	0.99993963
								Oxy Pure Gold MDP1 29-17 Federal Com 2H RKB=26.5' (3374.9ft above MSL)			
								Plan: Oxy Pure Gold MDP1 29-17 Federal Com 2H Gyro + MWD 0-22913MD			

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)	DLS
RKB	0.00	0.00	0.76	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	657.50	1.62	144.43	657.43	-5.72	-5.79	4.83	0.56
Bone Spring Intersection	8007.33	13.63	166.40	7961.00	-477.96	-478.37	27.51	2.75
KOP Actual	8944.00	8.23	177.01	8886.36	-617.75	-618.55	56.87	0.98
LL Crossed	9463.00	15.79	69.51	9392.07	-687.74	-689.41	122.10	11.67
100' FSL Crossed	9758.00	41.00	24.87	9655.13	-586.36	-588.99	195.65	11.68
100' FNL Crossed	22832.00	89.25	1.22	9837.31	12415.77	12414.78	156.35	1.29
Final MWD	22853.00	89.34	1.47	9837.57	12436.76	12435.78	156.84	1.29
Proj to TD	22913.00	89.34	1.47	9838.26	12496.75	12495.75	158.38	0.00



Vertical Section (ft) Azim = 0.76° Scale = 1:2000.00(ft) Origin = 0N-S, 0E-W

Oxy Pure Gold MDP1 29-17 Federal Com 2H Gyro + MWD 0-22913'MD

Survey Geodetic Report

(Def Survey)



NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 31 2019

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Report Date: May 13, 2019 - 04:23 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Pure Gold MDP1 29-17 Federal Com 2H / Oxy Pure Gold MDP1 29-17 Federal Com 2H
Well: Oxy Pure Gold MDP1 29-17 Federal Com 2H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-45646
Survey Name: Oxy Pure Gold MDP1 29-17 Federal Com 2H Gyro + MWD 0-22913'MD
Survey Date: April 10, 2019
Tort / AHD / DDI / ERD Ratio: 317.836 ° / 13984.766 ft / 7.014 / 1.419
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 12.26460", W 103° 48' 18.14973"
Location Grid N/E Y/X: N 462387.663 NUS, E 704620.790 NUS
CRS Grid Convergence Angle: 0.2821 °
Grid Scale Factor: 0.99993963
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 0.756 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3374.900 ft above MSL
Seabed / Ground Elevation: 3348.400 ft above MSL
Magnetic Declination: 6.862 °
Total Gravity Field Strength: 998.4525mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47974.700 nT
Magnetic Dip Angle: 59.993 °
Declination Date: April 25, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2821 °
Total Corr Mag North→Grid: 6.5799 °
North: Well Head
Local Coord Referenced To:

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (NUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB SHL	0.00	0.00	0.76	0.00	0.00	0.00	0.00	N/A	462387.66	704620.79	N 32 16 12.26 W 103 48 18.15	
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	462387.66	704620.79	N 32 16 12.26 W 103 48 18.15	
	94.40	0.22	106.56	94.40	-0.04	-0.04	0.12	0.32	462387.63	704620.91	N 32 16 12.26 W 103 48 18.15	
Last Gyro	181.90	0.12	149.75	181.90	-0.16	-0.16	0.33	0.18	462387.50	704621.12	N 32 16 12.26 W 103 48 18.15	
	271.40	0.27	156.31	271.40	-0.43	-0.44	0.46	0.17	462387.22	704621.25	N 32 16 12.26 W 103 48 18.14	
	366.10	0.69	143.59	366.10	-1.09	-1.10	0.89	0.45	462386.56	704621.68	N 32 16 12.25 W 103 48 18.14	
	460.60	1.05	139.61	460.58	-2.20	-2.22	1.79	0.39	462385.44	704622.58	N 32 16 12.24 W 103 48 18.13	
	555.20	1.36	136.82	555.16	-3.66	-3.70	3.12	0.33	462383.97	704623.91	N 32 16 12.23 W 103 48 18.11	
	650.00	1.65	143.41	649.93	-5.55	-5.61	4.70	0.36	462382.05	704625.49	N 32 16 12.21 W 103 48 18.10	
	657.50	1.62	144.43	657.43	-5.72	-5.78	4.83	0.56	462381.88	704625.62	N 32 16 12.21 W 103 48 18.09	
	773.00	0.98	154.07	772.90	-7.92	-8.00	6.21	0.58	462379.66	704627.00	N 32 16 12.19 W 103 48 18.08	
	864.00	0.17	296.51	863.89	-8.56	-8.64	6.43	1.23	462379.02	704627.22	N 32 16 12.18 W 103 48 18.08	
	955.00	0.16	150.50	954.89	-8.61	-8.69	6.37	0.35	462379.07	704627.16	N 32 16 12.18 W 103 48 18.08	
	1045.00	0.22	313.70	1044.89	-8.60	-8.68	6.31	0.42	462378.98	704627.10	N 32 16 12.18 W 103 48 18.08	
	1136.00	0.13	240.49	1135.89	-8.53	-8.61	6.09	0.24	462379.05	704626.88	N 32 16 12.18 W 103 48 18.08	
	1226.00	0.18	131.40	1225.89	-8.68	-8.76	6.11	0.28	462378.91	704626.90	N 32 16 12.18 W 103 48 18.08	
	1317.00	0.16	131.18	1316.89	-8.85	-8.94	6.31	0.02	462378.73	704627.10	N 32 16 12.18 W 103 48 18.08	
	1408.00	0.18	1.50	1407.89	-8.79	-8.88	6.41	0.34	462378.79	704627.20	N 32 16 12.18 W 103 48 18.08	
	1503.00	0.13	90.56	1502.89	-8.64	-8.73	6.53	0.23	462378.94	704627.31	N 32 16 12.18 W 103 48 18.07	
	1691.00	0.16	57.56	1690.89	-8.50	-8.59	6.96	0.05	462379.07	704627.75	N 32 16 12.18 W 103 48 18.07	
	1786.00	0.18	18.45	1785.89	-8.28	-8.38	7.12	0.12	462379.29	704627.91	N 32 16 12.18 W 103 48 18.07	
	1880.00	0.11	99.76	1879.89	-8.16	-8.25	7.25	0.21	462379.41	704628.04	N 32 16 12.18 W 103 48 18.07	
	2069.00	0.16	264.64	2068.89	-8.21	-8.31	7.17	0.14	462379.36	704627.96	N 32 16 12.18 W 103 48 18.07	
	2163.00	0.11	234.35	2162.89	-8.28	-8.37	6.97	0.09	462379.29	704627.76	N 32 16 12.18 W 103 48 18.07	
	2258.00	0.11	302.27	2257.89	-8.29	-8.38	6.82	0.13	462379.29	704627.61	N 32 16 12.18 W 103 48 18.07	
	2352.00	0.16	9.66	2351.89	-8.11	-8.20	6.76	0.17	462379.46	704627.55	N 32 16 12.18 W 103 48 18.07	
	2447.00	0.11	138.76	2446.89	-8.05	-8.14	6.84	0.26	462379.53	704627.63	N 32 16 12.18 W 103 48 18.07	
	2541.00	0.13	145.77	2540.89	-8.20	-8.29	6.96	0.03	462379.37	704627.75	N 32 16 12.18 W 103 48 18.07	
	2635.00	0.22	104.08	2634.89	-8.33	-8.42	7.20	0.16	462379.24	704627.99	N 32 16 12.18 W 103 48 18.07	
	2730.00	0.22	207.30	2729.89	-8.53	-8.63	7.29	0.36	462379.03	704628.08	N 32 16 12.18 W 103 48 18.07	
	2824.00	0.13	323.12	2823.89	-8.61	-8.71	7.14	0.32	462378.96	704627.93	N 32 16 12.18 W 103 48 18.07	
	2918.00	0.23	307.07	2917.89	-8.42	-8.51	6.93	0.12	462379.16	704627.72	N 32 16 12.18 W 103 48 18.07	
	3013.00	0.22	264.26	3012.89	-8.32	-8.41	6.80	0.17	462379.25	704627.39	N 32 16 12.18 W 103 48 18.07	
	3107.00	0.15	260.00	3106.89	-8.37	-8.45	6.30	0.08	462379.21	704627.08	N 32 16 12.18 W 103 48 18.08	
	3202.00	0.46	26.84	3201.89	-8.05	-8.13	6.35	0.59	462379.53	704627.14	N 32 16 12.18 W 103 48 18.08	
	3296.00	0.30	121.93	3295.88	-7.84	-7.92	6.72	0.61	462379.74	704627.51	N 32 16 12.19 W 103 48 18.07	
	3391.00	0.23	156.82	3390.88	-8.14	-8.23	7.01	0.18	462379.43	704627.80	N 32 16 12.18 W 103 48 18.07	
	3485.00	0.27	218.91	3484.88	-8.48	-8.58	6.95	0.28	462379.09	704627.74	N 32 16 12.18 W 103 48 18.07	
	3580.00	0.21	262.79	3579.88	-8.69	-8.77	6.63	0.20	462378.89	704627.42	N 32 16 12.18 W 103 48 18.07	
	3674.00	0.25	223.22	3673.88	-8.86	-8.94	6.32	0.17	462378.72	704627.11	N 32 16 12.18 W 103 48 18.08	
	3769.00	0.29	214.13	3768.88	-9.21	-9.29	6.04	0.06	462378.37	704626.83	N 32 16 12.17 W 103 48 18.08	
	3863.00	0.26	168.13	3862.88	-9.62	-9.70	5.95	0.23	462377.96	704626.74	N 32 16 12.17 W 103 48 18.08	
	3957.00	0.16	227.68	3956.88	-9.92	-10.00	5.90	0.24	462377.67	704626.69	N 32 16 12.17 W 103 48 18.08	
	4082.00	0.16	145.93	4081.88	-10.18	-10.26	5.87	0.17	462377.40	704626.66	N 32 16 12.16 W 103 48 18.08	
	4253.00	0.11	217.78	4252.88	-10.51	-10.59	5.90	0.10	462377.08	704626.69	N 32 16 12.16 W 103 48 18.08	
	4413.00	0.11	348.81	4412.88	-10.48	-10.56	5.78	0.13	462377.11	704626.57	N 32 16 12.16 W 103 48 18.08	
	4601.00	0.13	358.05	4600.88	-10.09	-10.17	5.74	0.01	462377.50	704626.53	N 32 16 12.16 W 103 48 18.08	
	4696.00	0.05	17.97	4695.88	-9.94	-10.02	5.75	0.09	462377.64	704626.54	N 32 16 12.17 W 103 48 18.08	
4790.00	0.08	328.87	4789.88	-9.85	-9.92	5.73	0.06	462377.74	704626.51	N 32 16 12.17 W 103 48 18.08		
4979.00	0.11	18.83	4978.88	-9.56	-9.64	5.72	0.04	462378.02	704626.51	N 32 16 12.17 W 103 48 18.08		
5073.00	0.11	330.20	5072.88	-9.40	-9.48	5.70	0.10	462378.19	704626.49	N 32 16 12.17 W 103 48 18.08		
5168.00	0.06	309.17	5167.88	-9.29	-9.37	5.62	0.06	462378.30	704626.41	N 32 16 12.17 W 103 48 18.08		
5356.00	5.66	186.90	5355.57	-18.46	-18.52	4.42	3.03	462369.15	704625.21	N 32 16 12.08 W 103 48 18.10		
5545.00	8.72	190.82	5543.07	-41.83	-41.85	0.61	1.64	462345.82	704621.40	N 32 16 11.85 W 103 48 18.14		
5639.00	9.15	188.00	5635.92	-56.26	-56.25	-1.76	0.65	462331.42	704619.03	N 32 16 11.71 W 103 48 18.17		
5733.00	8.98	186.09	5728.75	-70.98	-70.94	-3.58	0.37	462316.73	704617.21	N 32 16 11.56 W 103 48 18.20		
5822.00	8.90	185.49	5815.46	-100.24	-100.16	-6.55	0.07	462287.51	704614.25	N 32 16 11.27 W 103 48 18.23		
6016.00	9.10	185.13	6008.30	-114.80	-114.80	-7.91	0.22	462272.87	704612.89	N 32 16 11.13 W 103 48 18.25		
6111.00	8.99	181.65	6102.12	-129.81	-129.71	-8.79	0.59	462257.97	704612.00	N 32 16 10.98 W 103 48 18.26		
6299.00	8.79	176.89	6287.86	-158.83	-158.73	-8.43	0.41	462228.94	704612.36	N 32 16 10.69 W 103 48 18.26		
6394.00	6.96	179.79	6381.96	-171.83	-171.74	-8.02	1.97	462215.94	704612.77	N 32 16 10.57 W 103 48 18.25		
6488.00	4.74	183.53	6475.47	-181.40	-181.31	-8.24	2.40	462206.36	704612.55	N 32 16 10.47 W 103 48 18.26		
6582.00	4.12	190.71	6569.19	-188.61	-188.50	-9.10	0.88	462199.17	704611.69	N 32 16 10.40 W 103 48 18.27		
6771.00	6.61	188.85	6757.34	-206.07	-205.93	-12.04	1.32	462181.75	704608.75	N 32 16 10.23 W 103 48 18.30		
6866.00	8.12	186.92	6851.56	-218.15	-217.99	-13.69	1.61	462169.69	704607.10	N 32 16 10.11 W 103 48 18.32		
6961.00	9.87	183.67	6945.39	-232.95	-232.78	-15.02	1.92	462154.90	704605.77	N 32 16 9.96 W 103 48 18.34		
7055.00	10.87	180.36	7037.85	-249.86	-249.68	-15.59	1.24	462138.00	704605.20	N 32 16 9.79 W 103 48 18.35		
7149.00	12.45	177.25	7129.91	-268.84	-268.67	-15.16	1.81	462119.01	704605.63	N 32 16 9.61 W 103 48 18.34		
7244.00	14.15	174.17	7222.36	-290.60	-290.45	-13.49	1.94	462097.23	704607.30	N 32 16 9.39 W 103 48 18.32		
7338.00	14.59	171.28	7313.42	-313.69	-313.58	-10.53	0.90	462074.10	704610.26	N 32 16 9.16 W 103 48 18.29		
7527.00	15.16	165.81	7496.09	-361.05	-361.07	-0.86	0.80	462026.61	704619.93	N 32 16 8.69 W 103 48 18.18		
7715.00	14.81	166.31	7677.70	-408.07	-408.25	10.85	0.20	461979.44	704631.64	N 32 16 8.22 W 103 48 18.05		
7812.00	14.42	168.75	7771.56	-431.80	-432.05	16.56	0.42	461955.64	704637.34	N 32 16 7.99 W 103 48 17.98		
8000.00	13.83	166.40	7953.88	-476.28	-476.68	27.20	0.32	461911.01	704647.99	N 32 16 7.55 W 103 48 17.86		
Bone Spring Intersection	8007.33	13.63	166.40	7961.00	-477.96	-478.37	27.61	2.75	461909.32	704648.40	N 32 16 7.53 W 103 48 17.86	
	8189.00	8.63	166.44	8139.19	-511.93	-512.44	35.85	2.75	461876.25	704656.63	N 32 16 7.19 W 103 48 17.88	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8283.00	9.23	167.06	8232.05	-526.08	-526.65	39.19	0.65	461861.05	704659.88	N 32 16 7.05 W 103 48 17.72	
	8377.00	8.23	166.41	8324.96	-539.93	-540.53	42.46	1.07	461847.16	704663.24	N 32 16 6.91 W 103 48 17.69	
	8472.00	8.75	170.32	8418.92	-553.62	-554.27	45.27	0.82	461833.43	704666.06	N 32 16 6.78 W 103 48 17.65	
	8566.00	8.25	169.56	8511.89	-567.27	-567.95	47.69	0.55	461819.75	704668.48	N 32 16 6.64 W 103 48 17.63	
	8660.00	7.70	166.29	8604.98	-579.98	-580.70	50.41	0.76	461807.00	704671.20	N 32 16 6.52 W 103 48 17.60	
	8756.00	7.77	167.26	8700.11	-592.52	-593.28	53.36	0.15	461794.42	704674.15	N 32 16 6.39 W 103 48 17.56	
	8850.00	7.63	171.92	8793.26	-604.87	-605.65	55.64	0.68	461782.05	704676.43	N 32 16 6.27 W 103 48 17.54	
KOP Actual	8944.00	8.23	177.01	8886.36	-617.75	-618.55	56.87	0.98	461769.15	704677.66	N 32 16 6.14 W 103 48 17.52	
	9085.00	11.48	171.83	9025.27	-641.68	-642.52	59.39	2.39	461745.18	704680.18	N 32 16 5.90 W 103 48 17.49	
	9179.00	12.13	163.14	9117.28	-660.34	-661.24	63.59	2.01	461726.47	704684.37	N 32 16 5.72 W 103 48 17.45	
LL Crossed	9368.00	17.46	108.54	9300.77	-688.07	-689.40	96.40	7.55	461698.31	704717.18	N 32 16 5.44 W 103 48 17.07	
	9463.00	15.79	69.51	9392.07	-687.74	-689.41	122.10	11.67	461698.30	704742.88	N 32 16 5.44 W 103 48 16.77	
	9557.00	18.82	43.82	9481.94	-672.00	-673.97	144.61	8.66	461713.74	704765.39	N 32 16 5.59 W 103 48 16.50	
	9652.00	29.36	31.38	9568.60	-640.66	-642.92	167.43	12.26	461744.78	704788.21	N 32 16 5.89 W 103 48 16.24	
100' FSL Crossed	9747.00	39.75	25.34	9646.75	-592.85	-595.44	192.63	11.50	461792.26	704813.41	N 32 16 6.36 W 103 48 15.94	
	9758.00	41.00	24.87	9655.13	-586.36	-588.99	195.65	11.68	461798.71	704816.43	N 32 16 6.43 W 103 48 15.90	
	9841.00	50.46	21.92	9713.01	-531.53	-534.47	219.11	11.68	461853.23	704839.88	N 32 16 6.97 W 103 48 15.63	
	9936.00	60.75	15.84	9766.64	-457.11	-460.37	244.18	12.04	461927.32	704864.95	N 32 16 7.70 W 103 48 15.33	
	10031.00	73.77	11.08	9803.30	-371.82	-375.34	264.35	14.46	462012.35	704885.12	N 32 16 8.54 W 103 48 15.09	
	10125.00	79.12	1.08	9825.38	-280.98	-284.62	273.92	11.80	462103.06	704894.70	N 32 16 9.43 W 103 48 14.98	
	10220.00	87.95	353.47	9836.08	-186.93	-190.50	269.39	12.23	462197.18	704890.16	N 32 16 10.37 W 103 48 15.02	
	10287.00	90.35	353.85	9837.07	-120.45	-123.92	261.99	3.63	462263.75	704882.76	N 32 16 11.03 W 103 48 15.11	
	10486.00	90.82	355.35	9835.04	77.38	74.18	243.26	0.79	462461.84	704864.04	N 32 16 12.99 W 103 48 15.31	
	10579.00	90.47	357.65	9833.99	170.11	167.00	237.59	2.50	462554.65	704858.36	N 32 16 13.91 W 103 48 15.37	
	10786.00	89.44	359.11	9834.14	356.95	353.91	232.30	0.96	462741.55	704853.08	N 32 16 15.76 W 103 48 15.42	
	10953.00	89.24	358.20	9836.29	543.81	540.85	227.91	0.50	462928.48	704848.69	N 32 16 17.61 W 103 48 15.46	
	11046.00	89.20	358.11	9837.56	636.70	633.79	224.92	0.11	463021.41	704845.69	N 32 16 18.52 W 103 48 15.49	
	11140.00	89.13	358.64	9838.93	730.61	727.74	222.25	0.57	463115.36	704843.03	N 32 16 19.45 W 103 48 15.52	
	11326.00	89.09	358.10	9840.20	916.44	913.66	216.96	0.59	463301.27	704837.74	N 32 16 21.29 W 103 48 15.57	
	11420.00	89.17	358.81	9840.80	1010.36	1007.62	214.43	1.24	463395.22	704835.20	N 32 16 22.22 W 103 48 15.59	
	11606.00	89.48	358.26	9843.00	1196.21	1193.55	209.67	0.34	463581.14	704830.45	N 32 16 24.06 W 103 48 15.64	
	11703.00	89.34	358.24	9843.91	1293.11	1290.50	206.71	0.05	463678.08	704827.49	N 32 16 25.02 W 103 48 15.67	
	11796.00	89.34	358.40	9844.90	1386.02	1383.45	203.98	0.20	463771.03	704824.76	N 32 16 25.94 W 103 48 15.69	
	11893.00	89.34	358.45	9847.05	1572.86	1570.37	198.85	0.03	463957.93	704819.62	N 32 16 27.79 W 103 48 15.74	
	12172.00	89.48	1.37	9849.00	1761.80	1759.34	198.55	1.55	464146.89	704819.33	N 32 16 29.66 W 103 48 15.74	
	12361.00	89.30	0.87	9851.01	1950.79	1948.29	202.57	0.28	464335.83	704823.02	N 32 16 31.53 W 103 48 15.88	
	12456.00	89.34	0.49	9852.14	2045.78	2043.28	200.24	0.40	464430.81	704824.15	N 32 16 32.47 W 103 48 15.86	
	12550.00	89.41	1.18	9853.16	2139.78	2137.26	204.74	0.74	464524.79	704825.52	N 32 16 33.40 W 103 48 15.86	
	12645.00	89.44	0.87	9854.12	2234.77	2232.24	206.44	0.33	464619.77	704827.22	N 32 16 34.34 W 103 48 15.82	
	12740.00	89.54	1.26	9854.96	2329.76	2327.22	206.20	0.42	464714.74	704828.98	N 32 16 35.28 W 103 48 15.59	
	12834.00	89.41	1.50	9855.83	2423.76	2421.19	210.47	0.29	464808.70	704831.25	N 32 16 36.21 W 103 48 15.56	
	12928.00	89.78	0.72	9856.49	2517.75	2515.17	212.29	0.92	464902.68	704833.07	N 32 16 37.14 W 103 48 15.51	
	13023.00	89.58	0.62	9857.02	2612.75	2610.16	213.40	0.24	464997.66	704834.18	N 32 16 38.08 W 103 48 15.51	
	13212.00	90.30	0.88	9857.22	2801.75	2799.14	215.87	0.41	465186.63	704836.65	N 32 16 39.95 W 103 48 15.47	
	13307.00	90.27	1.70	9856.75	2896.74	2894.12	218.01	0.86	465281.60	704838.79	N 32 16 40.89 W 103 48 15.44	
	13401.00	92.02	1.10	9854.87	2990.71	2988.07	220.31	1.97	465375.54	704841.09	N 32 16 41.82 W 103 48 15.41	
	13496.00	90.34	0.92	9852.91	3085.69	3083.03	221.98	1.78	465470.50	704842.76	N 32 16 42.76 W 103 48 15.39	
	13590.00	90.58	1.63	9852.16	3179.68	3177.00	224.07	0.80	465564.47	704844.85	N 32 16 43.69 W 103 48 15.36	
	13685.00	90.47	1.02	9851.29	3274.67	3271.97	226.27	0.65	465659.43	704847.05	N 32 16 44.63 W 103 48 15.33	
	13780.00	90.40	1.42	9850.56	3369.66	3366.95	228.29	0.43	465754.40	704849.07	N 32 16 45.57 W 103 48 15.30	
	13875.00	90.23	0.49	9850.04	3464.66	3461.93	229.88	1.00	465849.38	704850.65	N 32 16 46.51 W 103 48 15.27	
	13969.00	90.44	1.96	9849.49	3558.65	3555.91	231.89	1.58	465943.35	704852.66	N 32 16 47.44 W 103 48 15.24	
	14063.00	90.27	1.63	9848.91	3652.64	3649.86	234.83	0.39	466037.29	704855.61	N 32 16 48.37 W 103 48 15.21	
	14158.00	90.40	0.77	9848.35	3747.63	3744.83	236.82	0.92	466132.26	704857.60	N 32 16 49.31 W 103 48 15.18	
	14253.00	90.34	358.94	9847.74	3842.61	3839.83	236.58	1.93	466227.25	704857.36	N 32 16 50.25 W 103 48 15.17	
	14347.00	90.34	358.58	9847.18	3936.55	3933.80	234.55	0.38	466321.22	704855.32	N 32 16 51.18 W 103 48 15.19	
	14536.00	90.58	358.42	9846.67	4125.40	4122.73	229.60	0.15	466510.14	704850.37	N 32 16 53.05 W 103 48 15.24	
	14630.00	90.09	357.87	9845.12	4219.30	4216.68	226.56	0.78	466604.08	704847.33	N 32 16 53.98 W 103 48 15.27	
	14725.00	90.16	359.34	9844.91	4314.23	4311.65	224.24	1.55	466699.04	704845.02	N 32 16 54.92 W 103 48 15.29	
	14819.00	90.09	359.04	9844.70	4408.20	4405.64	222.91	0.33	466793.03	704843.69	N 32 16 55.85 W 103 48 15.30	
	14914.00	90.23	358.85	9844.44	4503.15	4500.62	222.17	0.25	466888.01	704841.94	N 32 16 56.79 W 103 48 15.32	
	15008.00	90.34	358.58	9843.97	4597.09	4594.60	219.06	0.31	466981.98	704839.83	N 32 16 57.72 W 103 48 15.33	
	15102.00	90.23	358.33	9843.50	4691.01	4688.56	216.52	0.29	467075.93	704837.30	N 32 16 58.65 W 103 48 15.36	
	15197.00	90.44	358.76	9842.95	4785.94	4783.53	214.11	0.50	467170.90	704834.89	N 32 16 59.59 W 103 48 15.38	
	15291.00	89.99	358.27	9842.60	4879.87	4877.50	211.67	0.71	467264.86	704832.45	N 32 17 0.52 W 103 48 15.40	
	15385.00	90.34	358.85	9842.32	4973.80	4971.47	209.31	0.72	467358.82	704830.09	N 32 17 1.45 W 103 48 15.43	
	15480.00	89.65	358.85	9842.33	5068.74	5066.45	207.41	0.73	467453.80	704828.18	N 32 17 2.39 W 103 48 15.44	
	15575.00	89.72	358.72	9842.86	5163.69	5161.43	205.39	0.16	467548.77	704826.17	N 32 17 3.33 W 103 48 15.46	
	15669.00	89.96	359.20	9843.12	5257.64	5255.41	203.69	0.57	467642.74	704824.46	N 32 17 4.26 W 103 48 15.48	
	15764.00	89.72	358.34	9843.38	5352.58	5350.39	201.65	0.94	467737.72	704822.42	N 32 17 5.20 W 103 48 15.49	
	15858.00	89.85	359.05	9843.74	5446.52	5444.36	199.51	0.77	467831.68	704820.28	N 32 17 6.13 W 103 48 15.51	
	15953.00	89.68	358.05	9844.13	5541.45	5539.33	197.10	1.07	467926.65	704817.88	N 32 17 7.07 W 103 48 15.54	
	16048.00	89.44	358.55	9844.86	5636.35	5634.28	194.28	0.58	468021.59	704815.06	N 32 17 8.01 W 103 48 15.56	
	16143.00	89.85	358.81	9845.44	5731.29	5729.26	192.09	0.51	468116.56	704812.87	N 32 17 8.95 W 103 48 15.58	
	16237.00	91.85	359.54	9844.05	5825.24	5823.23	190.74	2.26	468210.53	704811.52	N 32 17 9.88 W 103 48 15.59	
	16331.00	90.03	359.97	9842.51	5919.21	5917.21	190.34	1.99	468304.51	704811.10	N 32 17 10.81 W 103 48 15.59	
	16426.00	90.20	359.37	9842.								

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	19639.00	91.20	2.72	9824.83	9224.95	9223.41	177.65	1.88	471610.50	704798.43	N 32 17 43.52	W 103 48 15.55
	19733.00	90.58	2.45	9823.37	9318.89	9317.30	181.89	0.72	471704.38	704802.67	N 32 17 44.45	W 103 48 15.50
	19922.00	90.51	359.52	9821.57	9507.86	9506.25	185.14	1.55	471893.32	704805.92	N 32 17 46.32	W 103 48 15.45
	20017.00	90.17	357.87	9821.01	9602.79	9601.22	182.97	1.77	471988.28	704803.75	N 32 17 47.26	W 103 48 15.47
	20207.00	90.79	1.23	9819.42	9792.72	9791.18	181.48	1.80	472178.23	704802.26	N 32 17 49.14	W 103 48 15.47
	20301.00	90.48	359.28	9818.38	9886.70	9885.16	181.90	2.10	472272.21	704802.68	N 32 17 50.07	W 103 48 15.46
	20490.00	90.10	359.14	9817.42	10075.63	10074.14	179.29	0.21	472461.18	704800.07	N 32 17 51.94	W 103 48 15.48
	20585.00	88.93	1.05	9818.22	10170.62	10169.13	179.45	2.36	472556.16	704800.23	N 32 17 52.88	W 103 48 15.48
	20679.00	88.69	357.07	9820.18	10264.54	10263.08	177.91	4.24	472650.10	704798.69	N 32 17 53.81	W 103 48 15.49
	20774.00	88.45	356.77	9822.55	10359.29	10357.91	172.81	0.40	472744.93	704793.59	N 32 17 54.75	W 103 48 15.54
	20868.00	89.69	359.97	9824.07	10453.19	10451.85	170.14	3.65	472838.86	704790.91	N 32 17 55.68	W 103 48 15.57
	20963.00	90.89	1.05	9823.59	10548.18	10546.84	170.98	1.70	472933.85	704791.76	N 32 17 56.62	W 103 48 15.55
	21152.00	89.69	0.36	9822.64	10737.17	10735.82	173.31	0.73	473122.81	704794.09	N 32 17 58.49	W 103 48 15.51
	21247.00	88.86	358.14	9823.84	10832.13	10830.80	172.06	2.49	473217.79	704792.84	N 32 17 59.43	W 103 48 15.52
	21341.00	90.65	356.99	9824.24	10925.97	10924.71	168.07	2.26	473311.69	704788.85	N 32 18 0.36	W 103 48 15.56
	21530.00	89.31	357.62	9824.31	11114.63	11113.49	159.18	0.78	473500.46	704779.96	N 32 18 2.22	W 103 48 15.66
	21624.00	88.65	356.83	9825.98	11208.43	11207.37	154.63	1.10	473594.33	704775.41	N 32 18 3.15	W 103 48 15.71
	21718.00	90.75	0.26	9826.47	11302.34	11301.32	152.25	4.28	473688.27	704773.03	N 32 18 4.08	W 103 48 15.73
	21813.00	91.68	359.17	9824.46	11397.30	11396.29	151.77	1.51	473783.24	704772.56	N 32 18 5.02	W 103 48 15.73
	21907.00	86.87	356.14	9825.65	11491.12	11490.17	147.93	6.05	473877.11	704768.71	N 32 18 5.95	W 103 48 15.77
	22002.00	90.24	359.59	9828.04	11585.94	11585.04	144.40	5.08	473971.98	704765.18	N 32 18 6.89	W 103 48 15.80
	22096.00	89.17	359.47	9828.53	11679.91	11679.04	143.63	1.15	474065.97	704764.41	N 32 18 7.82	W 103 48 15.81
	22191.00	89.79	2.07	9829.39	11774.90	11774.01	144.90	2.81	474160.94	704765.68	N 32 18 8.76	W 103 48 15.79
	22380.00	89.27	1.79	9830.94	11963.86	11962.90	151.27	0.31	474349.82	704772.05	N 32 18 10.63	W 103 48 15.70
	22474.00	88.24	359.75	9832.98	12057.83	12056.86	152.53	2.43	474443.77	704773.31	N 32 18 11.56	W 103 48 15.68
	22569.00	89.72	359.75	9834.67	12152.79	12151.85	152.12	1.56	474538.75	704772.90	N 32 18 12.50	W 103 48 15.68
	22663.00	89.79	1.93	9835.08	12246.79	12245.83	153.49	2.32	474632.73	704774.27	N 32 18 13.43	W 103 48 15.66
	22758.00	88.93	0.32	9836.14	12341.78	12340.80	155.36	1.92	474727.69	704776.14	N 32 18 14.37	W 103 48 15.63
100' FNL	22832.00	89.25	1.22	9837.31	12415.77	12414.78	156.35	1.29	474801.67	704777.13	N 32 18 15.10	W 103 48 15.62
Crossed	22853.00	89.34	1.47	9837.57	12436.76	12435.78	156.84	1.29	474822.66	704777.62	N 32 18 15.31	W 103 48 15.61
Final MWD	22913.00	89.34	1.47	9838.26	12496.75	12495.75	158.38	0.00	474882.64	704779.16	N 32 18 15.90	W 103 48 15.59
Proj to TD												

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7855 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	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 2H Gyro + MWD 0-22913'MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 2H Gyro + MWD 0-22913'MD
	1	26.500	657.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 2H
	1	657.500	22913.000	Act Stns	30.000	30.000	NAL_MWD_JFR1+MS	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 2H

...Original Borehole\Oxy Pure Gold MDP1 29-17 Federal Com 2H Gyro + MWD 0-22913'MD



Pure Gold MDP1 29-17 Federal Com 2H Wellbore Diagram

Elevation: GL 3348'

API: 30-015-45646

17-1/2" hole – 13-3/8" 45.5# J-55 csg
Set @ 661'

12-1/4" hole – 9-5/8" 43.5# HCL-80 BTC csg
Set @ 4197'

8-1/2" hole – 7-5/8" 26.4# L-80 BTC csg
Set @ 9007'

6-3/4" hole – 5-1/2" 20# P-110 SF TORQ/DQX csg
Set @ 22843'

Frac'd 9923'-22800'
80 stages

*Note: Diagram not to scale

PBTD – 22843' MD
TD – 22889' MD/9838' TVD