

REC'D: 5/11/2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 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 Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

☒ AMENDED REPORT

As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45648	Pool Code 33740	Pool Name Ingle Wells Bone Spring
Property Code 324872	Property Name PURE GOLD MDP1 "29_17" FEDERAL COM	Well Number 4H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3357.0'

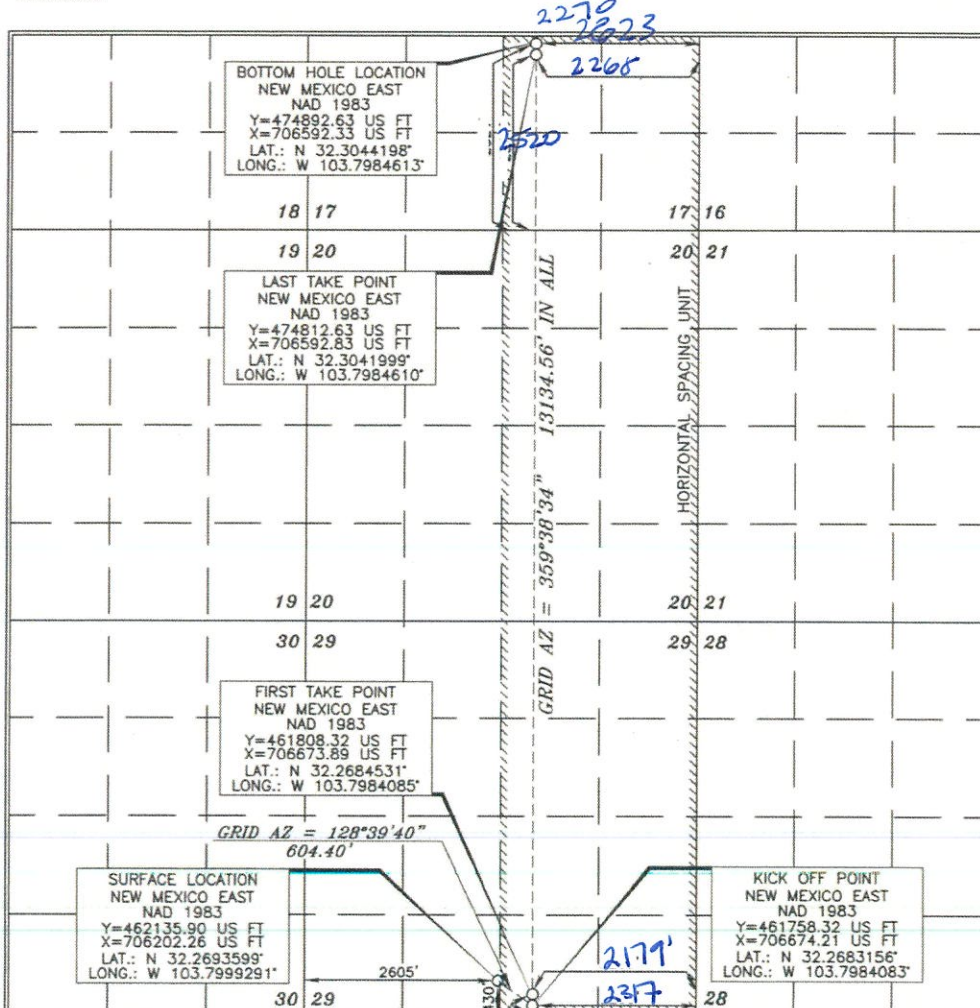
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	23 SOUTH	31 EAST, N.M.P.M.		430'	SOUTH	2605'	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
J	17	23 SOUTH	31 EAST, N.M.P.M.		2623	SOUTH	2270	EAST	EDDY
Dedicated Acres 800	Joint or Infill N	Consolidation Code	Order No.						

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.

Sarah Chapman 7/8/19
Signature Date

Sarah Chapman
Printed Name

sarah_chapman@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

TERRY J. ASE
15079
APRIL 24, 2018
Date of Survey

Signature and Seal
Professional Surveyor

Terry J. ASE 10/12/2018
Certificate Number 15079

WO# 180424WL-a (Rev. A) (KA)

Why was HZ spacing unit changed from 400 to 800 dedicated acres? Please amend next page to include proximity well(s)

Intent ☐ As Drilled ☒

API # 30-015-45648			
Operator Name: Oxy VTA Inc.		Property Name: Pure Gold HOP1 29-17 Fed. Com	Well Number 4H

Kick Off Point (KOP)

UL B	Section 32	Township 23S	Range 31E	Lot	Feet 101	From N/S North	Feet 2317	From E/W East	County EDDY
Latitude 32.26790					Longitude -103.79880			NAD NAD83	

First Take Point (FTP)

UL 0	Section 29	Township 23S	Range 31E	Lot	Feet 103	From N/S South	Feet 2179	From E/W East	County EDDY
Latitude 32.26862					Longitude -103.79834			NAD NAD83	

Last Take Point (LTP)

UL J	Section 17	Township 23S	Range 31E	Lot	Feet 2520	From N/S South	Feet 2258	From E/W East	County EDDY
Latitude 32.30413					Longitude -103.79823			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

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)



May 28, 2019

OXY USA INC.
5 Greenway Plaza Suite 110
Houston, TX, 77046-0521

Re:

S29, T23S, R31E Eddy NM
N 32.26936 W -103.79993

CLIENT: OXY USA INC.
WELL: Pure Gold MDP1 29-17 Federal Com 4H
FIELD: Ingle Wells Bone Spring

RIG: H&P 556
COUNTY: Eddy
API NO: 30-015-45648
JOB NO: 19MLH0001

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>
Sara Almohsen FE	Pure Gold MDP1 29- 17 Federal Com 4H Original Hole	766.00 Ft to 22959.00 Ft	April 13, 2019 to May 19, 2019	TelePacer SlimPulse

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

Field Service Manager

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:
S29, T23S, R31E Eddy NM
N 32.26936 W -103.79993

I, Sara Almohsen certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of April 13, 2019 through May 19, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 766.00 feet to a depth of 22959.00 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 Federal Com 4H Well (Original Hole) API No. 30-015-45648 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
Sara Almohsen
FE

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

My Commission expires:

22 May 2023

[Signature]
Notary Public

(signature)

Grady County, Oklahoma
(County State)

JODY LEON BARE
Notary Public, State of Oklahoma
Commission # 19005260
My Commission Expires 05-22-2023

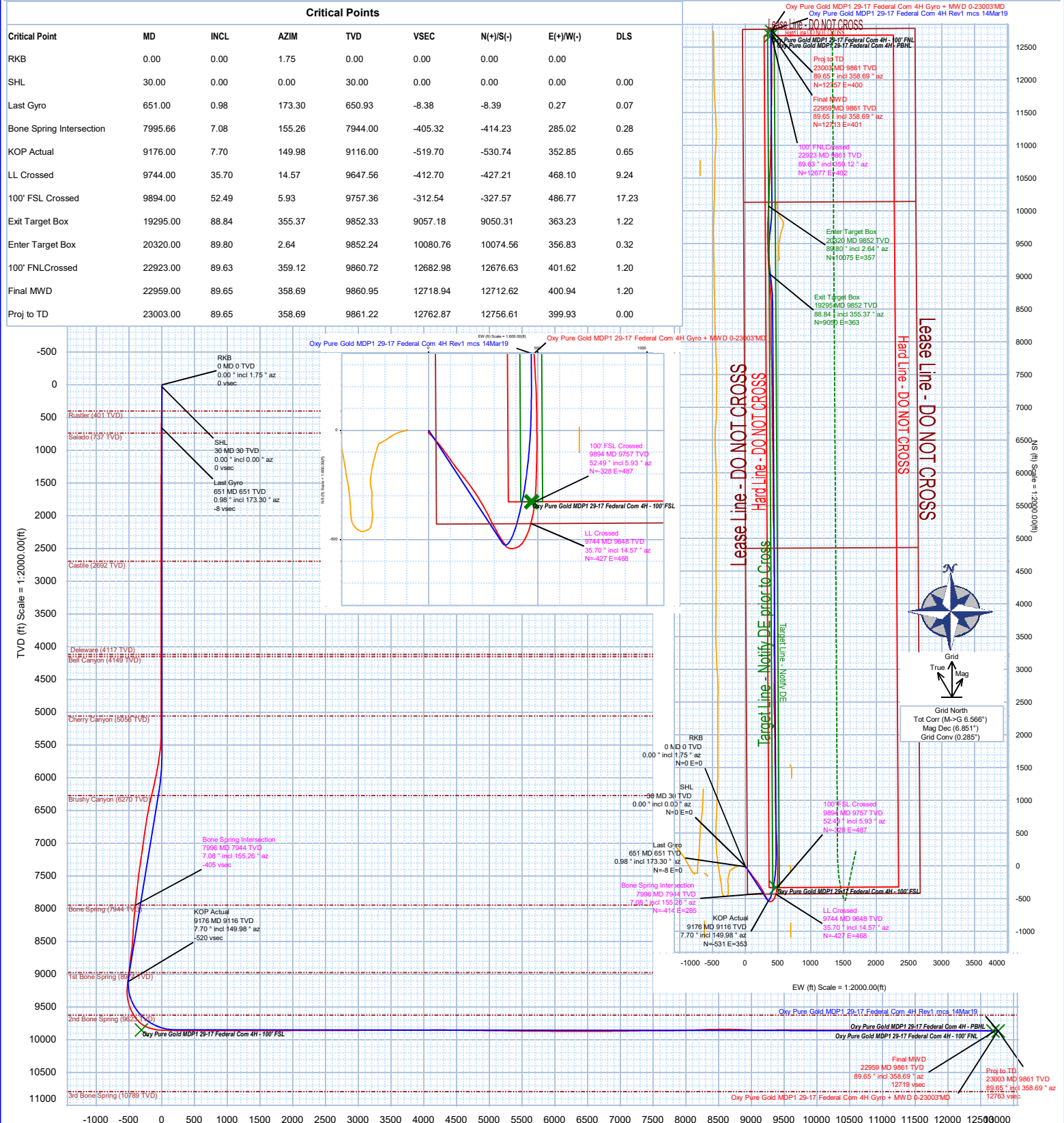
Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Pure Gold MDP1 29-17 Federal Com 4H	NM Eddy County (NAD 83)	Oxy Pure Gold MDP1 29-17 Federal Com 4H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	IFR1	Dip:	59.991°	Date:	07-May-2019	Lat:	N 32 16 9.70	Slot:	Oxy Pure Gold MDP1 29-17 Federal Com 4H	TVD Ref:	RKB=30'(3387ft above MSL)
MagDec:	6.851°	FS:	47973nT	Gravity FS:	998.452mgm (9.80665 Based)	Lon:	W 103 47 59.74	Plan:	Oxy Pure Gold MDP1 29-17 Federal Com 4H Gyro + MWD 0-23003MD		
				NAD83 New Mexico State Plane, Eastern Zone, US Feet							
				Northing:				Grid Conv:			
				Easting:				Scale Fact:			
				706202.26RUS				0.99994022			



Oxy Pure Gold MDP1 29-17 Federal Com 4H Gyro + MWD 0-23003'MD

Survey Geodetic Report

(Def Survey)

Report Date: May 20, 2019 - 04:12 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Pure Gold MDP1 29-17 Federal Com 4H / Oxy Pure Gold MDP1 29-17 Federal Com 4H
Well: Oxy Pure Gold MDP1 29-17 Federal Com 4H
Borehole: Original Borehole
UWI / API#: H&P556 / 30-015-45648
Survey Name: Oxy Pure Gold MDP1 29-17 Federal Com 4H Gyro + MWD 0-23003'MD
Survey Date: April 08, 2019
Tort / AHD / DDI / ERD Ratio: 262.666 ° / 14025.885 ft / 6.934 / 1.421
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 9.69584", W 103° 47' 59.74474"
Location Grid N/E Y/X: N 462135.900 ftUS, E 706202.260 ftUS
CRS Grid Convergence Angle: 0.2848 °
Grid Scale Factor: 0.99994022
Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 1.751 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=30'
TVD Reference Elevation: 3387.000 ft above MSL
Seabed / Ground Elevation: 3357.000 ft above MSL
Magnetic Declination: 6.851 °
Total Gravity Field Strength: 998.4516mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47973.000 nT
Magnetic Dip Angle: 59.991 °
Declination Date: May 07, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2848 °
Total Corr Mag North->Grid North: 6.5662 °
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	1.75	0.00	0.00	0.00	0.00	N/A	462135.90	706202.26	N 32 16 9.70	W 103 47 59.74
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	462135.90	706202.26	N 32 16 9.70	W 103 47 59.74
	185.90	0.47	173.78	185.90	-0.63	-0.64	0.07	0.30	462135.26	706202.33	N 32 16 9.69	W 103 47 59.74
	275.30	0.88	179.37	275.29	-1.68	-1.69	0.12	0.46	462134.21	706202.38	N 32 16 9.68	W 103 47 59.74
	370.10	1.00	185.35	370.08	-3.24	-3.24	0.05	0.16	462132.66	706202.31	N 32 16 9.66	W 103 47 59.74
	464.60	1.17	176.69	464.56	-5.02	-5.02	0.03	0.25	462130.88	706202.29	N 32 16 9.65	W 103 47 59.74
	559.20	1.00	176.75	559.15	-6.80	-6.81	0.13	0.18	462129.09	706202.39	N 32 16 9.63	W 103 47 59.74
	651.00	0.98	173.30	650.93	-8.38	-8.39	0.27	0.07	462127.51	706202.53	N 32 16 9.61	W 103 47 59.74
	766.00	0.27	162.26	765.92	-9.61	-9.63	0.46	0.62	462126.28	706202.72	N 32 16 9.60	W 103 47 59.74
	947.00	0.09	289.87	946.92	-9.96	-9.98	0.46	0.18	462125.92	706202.72	N 32 16 9.60	W 103 47 59.74
	1037.00	0.09	228.65	1036.92	-9.99	-10.01	0.34	0.10	462125.89	706202.60	N 32 16 9.60	W 103 47 59.74
	1128.00	0.09	160.70	1127.92	-10.11	-10.12	0.31	0.11	462125.78	706202.57	N 32 16 9.60	W 103 47 59.74
	1219.00	0.16	258.34	1218.92	-10.20	-10.21	0.21	0.21	462125.69	706202.47	N 32 16 9.59	W 103 47 59.74
	1401.00	0.14	170.65	1400.92	-10.48	-10.48	0.00	0.11	462125.42	706202.26	N 32 16 9.59	W 103 47 59.75
	1496.00	0.14	266.95	1495.92	-10.60	-10.60	-0.10	0.22	462125.30	706202.16	N 32 16 9.59	W 103 47 59.75
	1590.00	0.14	231.96	1589.92	-10.69	-10.68	-0.31	0.09	462125.22	706201.95	N 32 16 9.59	W 103 47 59.75
	1684.00	0.09	186.51	1683.92	-10.83	-10.83	-0.40	0.11	462125.07	706201.86	N 32 16 9.59	W 103 47 59.75
	1779.00	0.14	199.13	1778.92	-11.02	-11.01	-0.45	0.06	462124.89	706201.81	N 32 16 9.59	W 103 47 59.75
	1874.00	0.14	313.96	1873.92	-11.05	-11.04	-0.57	0.25	462124.86	706201.69	N 32 16 9.59	W 103 47 59.75
	1969.00	0.09	85.46	1968.92	-10.96	-10.95	-0.58	0.22	462124.95	706201.68	N 32 16 9.59	W 103 47 59.75
	2063.00	0.14	170.65	2062.92	-11.07	-11.06	-0.49	0.17	462124.84	706201.77	N 32 16 9.59	W 103 47 59.75
	2253.00	0.14	274.34	2252.92	-11.29	-11.27	-0.68	0.12	462124.63	706201.58	N 32 16 9.58	W 103 47 59.75
	2347.00	0.14	15.63	2346.92	-11.17	-11.15	-0.77	0.23	462124.75	706201.49	N 32 16 9.59	W 103 47 59.75
	2441.00	0.09	332.71	2440.92	-10.99	-10.98	-0.77	0.10	462124.92	706201.49	N 32 16 9.59	W 103 47 59.75
	2536.00	0.09	255.54	2535.92	-10.95	-10.93	-0.88	0.12	462124.97	706201.38	N 32 16 9.59	W 103 47 59.76
	2631.00	0.14	359.03	2630.92	-10.85	-10.83	-0.95	0.19	462125.07	706201.31	N 32 16 9.59	W 103 47 59.76
	2726.00	0.14	259.36	2725.92	-10.76	-10.74	-1.07	0.23	462125.16	706201.19	N 32 16 9.59	W 103 47 59.76
	2820.00	0.14	117.29	2819.92	-10.84	-10.81	-1.08	0.28	462125.09	706201.18	N 32 16 9.59	W 103 47 59.76
	2914.00	0.21	201.44	2913.92	-11.05	-11.02	-1.04	0.26	462124.88	706201.22	N 32 16 9.59	W 103 47 59.76
	3009.00	0.16	243.20	3008.92	-11.28	-11.24	-1.22	0.15	462124.66	706201.04	N 32 16 9.58	W 103 47 59.76
	3104.00	0.12	230.08	3103.92	-11.41	-11.37	-1.42	0.05	462124.53	706200.84	N 32 16 9.58	W 103 47 59.76
	3199.00	0.20	352.12	3198.92	-11.31	-11.27	-1.51	0.30	462124.63	706200.75	N 32 16 9.58	W 103 47 59.76
	3388.00	0.14	121.20	3387.92	-11.10	-11.06	-1.36	0.16	462124.84	706200.90	N 32 16 9.59	W 103 47 59.76
	3482.00	0.14	126.08	3481.92	-11.22	-11.19	-1.17	0.01	462124.71	706201.09	N 32 16 9.59	W 103 47 59.76
	3577.00	0.14	87.57	3576.92	-11.28	-11.25	-0.96	0.10	462124.65	706201.30	N 32 16 9.58	W 103 47 59.76
	3671.00	0.20	238.63	3670.92	-11.36	-11.33	-0.99	0.35	462124.57	706201.27	N 32 16 9.58	W 103 47 59.76
	3766.00	0.20	209.23	3765.92	-11.59	-11.56	-1.21	0.11	462124.34	706201.05	N 32 16 9.58	W 103 47 59.76
	3861.00	0.14	31.68	3860.92	-11.64	-11.61	-1.23	0.36	462124.29	706201.03	N 32 16 9.58	W 103 47 59.76
	3956.00	0.25	252.82	3955.92	-11.61	-11.57	-1.37	0.39	462124.33	706200.89	N 32 16 9.58	W 103 47 59.76
	4050.00	0.24	226.44	4049.92	-11.81	-11.77	-1.70	0.12	462124.13	706200.56	N 32 16 9.58	W 103 47 59.77
	4104.00	0.25	264.32	4103.92	-11.91	-11.86	-1.90	0.30	462124.04	706200.36	N 32 16 9.58	W 103 47 59.77
	4261.00	0.09	34.58	4260.92	-11.85	-11.79	-2.17	0.20	462124.11	706200.09	N 32 16 9.58	W 103 47 59.77
	4419.00	0.07	208.36	4418.92	-11.83	-11.77	-2.15	0.10	462124.13	706200.11	N 32 16 9.58	W 103 47 59.77
	4514.00	0.02	86.45	4513.92	-11.88	-11.82	-2.16	0.09	462124.08	706200.10	N 32 16 9.58	W 103 47 59.77
	4609.00	0.02	236.29	4608.92	-11.89	-11.83	-2.16	0.04	462124.07	706200.10	N 32 16 9.58	W 103 47 59.77
	4798.00	0.06	256.09	4797.92	-11.94	-11.87	-2.28	0.02	462124.03	706199.98	N 32 16 9.58	W 103 47 59.77
	4893.00	0.02	83.53	4892.92	-11.95	-11.88	-2.31	0.08	462124.02	706199.95	N 32 16 9.58	W 103 47 59.77
	5082.00	0.06	70.76	5081.91	-11.91	-11.85	-2.19	0.02	462124.05	706200.07	N 32 16 9.58	W 103 47 59.77
	5177.00	0.13	346.64	5176.91	-11.79	-11.73	-2.17	0.14	462124.18	706200.09	N 32 16 9.58	W 103 47 59.77
	5366.00	1.44	123.08	5365.90	-12.81	-12.81	-0.22	0.81	462123.09	706202.04	N 32 16 9.57	W 103 47 59.75
	5460.00	5.01	131.95	5459.73	-16.08	-16.20	3.82	3.82	462119.70	706206.08	N 32 16 9.54	W 103 47 59.70
	5555.00	8.29	135.04	5554.08	-23.45	-23.82	11.75	3.47	462112.08	706214.00	N 32 16 9.46	W 103 47 59.61
	5649.00	10.51	136.71	5646.81	-34.16	-34.86	22.41	2.38	462101.04	706224.67	N 32 16 9.35	W 103 47 59.49
	5744.00	12.07	139.79	5739.97	-47.67	-48.75	34.77	1.76	462087.15	706237.03	N 32 16 9.21	W 103 47 59.34
	5838.00	13.10	141.43	5831.71	-63.10	-64.59	47.75	1.16	462071.32	706250.01	N 32 16 9.05	W 103 47 59.19
	5933.00	14.12	142.73	5924.04	-80.31	-82.23	61.48	1.12	462053.68	706263.74	N 32 16 8.88	W 103 47 59.03
	6027.00	14.97	144.23	6015.03	-98.85	-101.20	75.53	0.99	462034.70	706277.78	N 32 16 8.69	W 103 47 58.87
	6122.00	15.87	144.72	6106.61	-118.95	-121.76	90.20	0.96	462014.15	706292.45	N 32 16 8.49	W 103 47 58.70
	6217.00	16.74	144.03	6197.79	-140.14	-143.44	105.74	0.94	461992.47	706307.99	N 32 16 8.27	W 103 47 58.52
	6311.00	16.39	143.72	6287.89	-161.29	-165.09	121.54	0.38	461970.82	706323.79	N 32 16 8.06	W 103 47 58.34
	6406.00	15.94	141.55	6379.13	-181.82	-186.11	137.58	0.79	461949.80	706339.83	N 32 16 7.85	W 103 47 58.15
	6595.00	13.12	142.16	6562.07	-218.18	-223.38	166.88	1.49	461912.53	706369.13	N 32 16 7.48	W 103 47 57.81
	6784.00	10.90	144.05	6746.92	-248.85	-254.79	190.54	1.19	461881.13	706392.78	N 32 16 7.17	W 103 47 57.54
	6879.00	10.00	144.78	6840.34	-262.54	-268.80	200.57	0.96	461867.12	706402.81	N 32 16 7.03	W 103 47 57.42
	7068.00	9.51	145.94	7026.61	-288.32	-295.14	218.78	0.28	461840.78	706421.02	N 32 16 6.76	W 103 47 57.21
	7162.00	9.73	148.36	7119.29	-301.25	-308.34	227.29	0.49	461827.58	706429.54	N 32 16 6.63	W 103 47 57.12
	7257.00	10.15	149.85	7212.86	-315.06	-322.41	235.71	0.52	461813.51	706437.95	N 32 16 6.49	W 103 47 57.02
	7352.00	9.90	149.98	7306.41	-329.10	-336.72	244.00	0.26	461799.20	706446.24	N 32 16 6.35	W 103 47 56.92
	7446.00	9.06	150.30	7399.13	-342.29	-350.14	251.71	0.90	461785.78	706453.95	N 32 16 6.22	W 103 47 56.83
	7541.00	8.10	150.71	7493.06	-354.40	-362.48	258.69	1.01	461773.44	706460.93	N 32 16 6.10	W 103 47 56.75
	7636.00	7.19	151.61	7587.22	-365.28	-373.55	264.79	0.97	461762.38	706467.03	N 32 16 5.99	W 103 47 56.68
	7730.00	7.32	153.05	7680.47	-375.62	-384.06	270.30	0.24	461751.86	706472.54	N 32 16 5.88	W 103 47 56.62
	7825.00	7.29	153.61	7774.70	-386.24	-394.85	275.72	0.08	461741.07	706477.96	N 32 16 5.78	W 103 47 56.56
	7919.00	7.27	154.38	7867.94	-396.78	-405.56	280.94	0.11	461730.37	706483.19	N 32 16 5.67	W 103 47 56.50

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 ° ' ")
	8108.00	5.88	152.03	8055.60	-416.69	-425.77	290.61	1.30	461710.16	706492.85	N 32 16 5.47	W 103 47 56.38
	8203.00	4.88	149.43	8150.18	-424.33	-433.55	294.95	1.08	461702.38	706497.19	N 32 16 5.39	W 103 47 56.33
	8297.00	4.65	149.09	8243.86	-430.92	-440.26	298.94	0.25	461695.67	706501.18	N 32 16 5.32	W 103 47 56.29
	8392.00	4.36	151.04	8338.56	-437.26	-446.72	302.66	0.35	461689.21	706504.90	N 32 16 5.26	W 103 47 56.25
	8513.00	3.60	150.32	8459.27	-444.46	-454.05	306.77	0.63	461681.88	706509.01	N 32 16 5.19	W 103 47 56.20
	8580.00	5.14	153.39	8526.07	-448.89	-458.56	309.16	2.32	461677.37	706511.40	N 32 16 5.14	W 103 47 56.17
	8675.00	8.23	153.66	8620.42	-458.64	-468.46	314.08	3.25	461667.47	706516.32	N 32 16 5.05	W 103 47 56.11
	8769.00	9.24	148.38	8713.33	-470.88	-480.91	321.02	1.37	461655.01	706523.26	N 32 16 4.92	W 103 47 56.03
	8863.00	8.47	146.45	8806.20	-482.83	-493.11	328.81	0.88	461642.82	706531.05	N 32 16 4.80	W 103 47 55.94
	8958.00	8.18	145.34	8900.20	-493.98	-504.50	336.52	0.35	461631.43	706538.76	N 32 16 4.69	W 103 47 55.85
	8974.00	8.29	146.34	8916.04	-495.84	-506.40	337.80	1.13	461629.53	706540.04	N 32 16 4.67	W 103 47 55.84
	9081.00	8.28	148.55	9021.92	-508.57	-519.39	346.10	0.30	461616.54	706548.34	N 32 16 4.54	W 103 47 55.74
	9176.00	7.70	149.98	9116.00	-519.70	-530.74	352.85	0.65	461605.20	706555.09	N 32 16 4.43	W 103 47 55.67
	9271.00	12.75	111.29	9209.56	-528.64	-540.07	365.83	8.69	461595.86	706568.06	N 32 16 4.33	W 103 47 55.52
	9366.00	16.63	80.97	9301.57	-529.60	-541.75	389.06	8.93	461594.19	706591.30	N 32 16 4.32	W 103 47 55.25
	9461.00	17.08	55.67	9392.61	-518.83	-531.73	414.04	7.68	461604.20	706616.28	N 32 16 4.41	W 103 47 54.95
	9555.00	21.27	32.55	9481.51	-496.01	-509.53	434.65	9.14	461626.40	706636.89	N 32 16 4.63	W 103 47 54.71
	9650.00	28.14	22.73	9567.79	-460.23	-474.29	452.61	8.40	461661.64	706654.84	N 32 16 4.98	W 103 47 54.50
	9744.00	35.70	14.57	9647.56	-412.70	-427.21	468.10	9.24	461708.72	706670.33	N 32 16 5.45	W 103 47 54.32
	9745.00	35.78	14.50	9648.37	-412.13	-426.64	468.25	9.24	461709.28	706670.48	N 32 16 5.45	W 103 47 54.32
	9820.00	42.10	11.35	9706.68	-365.91	-380.72	478.70	8.83	461755.21	706680.93	N 32 16 5.91	W 103 47 54.19
	9840.00	43.74	10.19	9721.33	-352.46	-367.34	481.24	9.10	461768.58	706683.47	N 32 16 6.04	W 103 47 54.16
	9894.00	52.49	5.93	9757.36	-312.54	-327.57	486.77	17.23	461808.35	706689.00	N 32 16 6.43	W 103 47 54.09
	9935.00	59.22	3.33	9780.36	-278.68	-293.77	489.48	17.23	461842.14	706691.71	N 32 16 6.76	W 103 47 54.06
	10029.00	71.25	1.45	9819.67	-193.49	-208.65	492.96	12.93	461927.26	706695.19	N 32 16 7.61	W 103 47 54.02
	10124.00	80.13	1.26	9843.12	-101.53	-116.72	495.13	9.35	462019.19	706697.36	N 32 16 8.52	W 103 47 53.99
	10219.00	88.88	359.36	9852.21	-7.09	-22.25	495.63	9.42	462113.65	706697.86	N 32 16 9.45	W 103 47 53.97
	10251.00	88.85	359.53	9852.85	24.87	9.74	495.32	0.54	462145.64	706697.55	N 32 16 9.77	W 103 47 53.98
	10289.00	87.59	359.41	9854.03	62.83	47.72	494.97	3.33	462183.62	706697.20	N 32 16 10.14	W 103 47 53.98
	10363.00	88.24	358.45	9857.45	156.65	141.64	493.22	1.23	462277.53	706695.45	N 32 16 11.07	W 103 47 53.99
	10476.00	90.17	356.79	9858.74	249.39	234.54	489.36	2.74	462370.43	706691.59	N 32 16 11.99	W 103 47 54.03
	10662.00	88.90	356.93	9860.25	434.70	420.25	479.17	0.69	462556.13	706681.40	N 32 16 13.83	W 103 47 54.14
	10756.00	90.31	356.42	9860.89	528.33	514.09	473.72	1.60	462649.96	706675.95	N 32 16 14.76	W 103 47 54.20
	10849.00	90.24	358.72	9860.45	621.07	607.00	469.77	2.47	462742.86	706672.01	N 32 16 15.68	W 103 47 54.24
	10942.00	90.10	359.08	9860.17	713.96	699.98	467.99	0.42	462835.84	706670.22	N 32 16 16.60	W 103 47 54.25
	11035.00	89.89	359.28	9860.18	806.86	792.97	466.66	0.31	462928.82	706668.89	N 32 16 17.52	W 103 47 54.26
	11128.00	90.10	358.43	9860.19	899.74	885.95	464.80	0.94	463021.80	706667.03	N 32 16 18.44	W 103 47 54.28
	11221.00	90.17	359.29	9859.97	992.62	978.93	462.95	0.93	463114.77	706665.18	N 32 16 19.36	W 103 47 54.30
	11314.00	90.17	359.88	9859.69	1085.56	1071.93	462.28	0.63	463207.76	706664.51	N 32 16 20.28	W 103 47 54.30
	11407.00	90.20	359.46	9859.39	1178.50	1164.93	461.74	0.45	463300.76	706663.97	N 32 16 21.20	W 103 47 54.30
	11500.00	90.17	359.53	9859.09	1271.42	1257.92	460.92	0.08	463393.75	706663.15	N 32 16 22.12	W 103 47 54.30
	11593.00	90.03	359.35	9858.93	1364.35	1350.92	460.01	0.25	463486.74	706662.24	N 32 16 23.04	W 103 47 54.31
	11687.00	90.07	359.53	9858.85	1458.27	1444.91	459.09	0.20	463580.72	706661.32	N 32 16 23.97	W 103 47 54.31
	11780.00	89.27	358.01	9859.38	1551.14	1537.89	457.10	1.85	463673.69	706659.33	N 32 16 24.89	W 103 47 54.33
	11873.00	90.13	359.27	9859.87	1644.00	1630.86	454.89	1.64	463766.66	706657.12	N 32 16 25.81	W 103 47 54.35
	11967.00	90.44	359.92	9859.40	1737.93	1724.85	454.22	0.77	463860.65	706656.46	N 32 16 26.74	W 103 47 54.35
	12060.00	89.89	359.98	9859.14	1830.88	1817.85	454.14	0.59	463953.64	706656.38	N 32 16 27.66	W 103 47 54.35
	12153.00	90.51	359.49	9858.81	1923.82	1910.85	453.71	0.85	464046.63	706655.95	N 32 16 28.58	W 103 47 54.35
	12247.00	90.17	359.13	9858.25	2017.74	2004.84	452.58	0.53	464140.62	706654.81	N 32 16 29.51	W 103 47 54.36
	12340.00	90.31	358.72	9857.86	2110.62	2097.82	450.84	0.47	464233.59	706653.07	N 32 16 30.43	W 103 47 54.37
	12433.00	90.31	358.75	9857.36	2203.49	2190.80	448.78	0.03	464326.56	706651.02	N 32 16 31.35	W 103 47 54.39
	12526.00	90.31	358.85	9856.86	2296.37	2283.78	446.84	0.11	464419.54	706649.07	N 32 16 32.27	W 103 47 54.41
	12620.00	90.20	358.46	9856.44	2390.23	2377.75	444.63	0.43	464513.50	706646.86	N 32 16 33.20	W 103 47 54.43
	12713.00	89.79	358.96	9856.45	2483.10	2470.73	442.54	0.70	464606.47	706644.77	N 32 16 34.12	W 103 47 54.45
	12806.00	90.07	359.23	9856.56	2576.00	2563.72	441.07	0.42	464699.46	706643.30	N 32 16 35.04	W 103 47 54.46
	12900.00	90.20	0.51	9856.34	2669.95	2657.71	440.85	1.37	464793.45	706643.09	N 32 16 35.97	W 103 47 54.46
	12993.00	90.31	1.36	9855.92	2762.93	2750.70	442.37	0.92	464886.43	706644.60	N 32 16 36.89	W 103 47 54.43
	13086.00	90.07	0.37	9855.62	2855.92	2843.69	443.78	1.10	464979.41	706646.01	N 32 16 37.81	W 103 47 54.41
	13180.00	90.20	359.77	9855.39	2949.88	2937.69	443.89	0.65	465073.40	706646.12	N 32 16 38.74	W 103 47 54.40
	13273.00	90.27	359.78	9855.01	3042.82	3030.68	443.53	0.08	465166.40	706645.76	N 32 16 39.66	W 103 47 54.40
	13366.00	90.34	0.17	9854.52	3135.78	3123.68	443.48	0.43	465259.39	706645.72	N 32 16 40.58	W 103 47 54.40
	13460.00	90.27	359.28	9854.02	3229.72	3217.68	443.03	0.95	465353.38	706645.27	N 32 16 41.51	W 103 47 54.40
	13553.00	90.07	359.76	9853.74	3322.65	3310.68	442.25	0.56	465446.37	706644.49	N 32 16 42.43	W 103 47 54.40
	13646.00	90.27	0.35	9853.47	3415.60	3403.67	442.34	0.67	465539.36	706644.58	N 32 16 43.35	W 103 47 54.40
	13740.00	90.13	0.04	9853.14	3509.57	3497.67	442.66	0.36	465633.36	706644.90	N 32 16 44.28	W 103 47 54.39
	13834.00	89.96	0.41	9853.06	3603.53	3591.67	443.03	0.43	465727.35	706645.27	N 32 16 45.21	W 103 47 54.38
	13929.00	89.93	0.24	9853.16	3698.51	3686.67	443.57	0.18	465822.34	706645.80	N 32 16 46.15	W 103 47 54.36
	14024.00	90.10	0.25	9853.13	3793.47	3781.67	443.98	0.18	465917.34	706646.21	N 32 16 47.09	W 103 47 54.35
	14119.00	90.24	0.47	9852.85	3888.44	3876.67	444.57	0.27	466012.33	706646.81	N 32 16 48.03	W 103 47 54.34
	14214.00	90.38	0.62	9852.33	3983.42	3971.66	445.48	0.22	466107.32	706647.71	N 32 16 48.97	W 103 47 54.33
	14309.00	90.20	0.06	9851.85	4078.39	4066.66	446.04	0.62	466202.31	706648.27	N 32 16 49.91	W 103 47 54.31
	14403.00	90.00	0.08	9851.69	4172.35	4160.66	446.16	0.21	466296.30	706648.39	N 32 16 50.84	W 103 47 54.31
	14498.00	90.07	0.29	9851.63	4267.31	4255.66	446.46	0.23	466391.29	706648.70	N 32 16 51.78	W 103 47 54.30
	14592.00	89.58	359.99	9851.92	4361.28	4349.66	446.69	0.61	466485.29	706648.93	N 32 16 52.71	W 103 47 54.29
	14687.00	89.17	359.57	9852.95	4456.21	4444.65	446.33	0.62	466580.27	706648.56	N 32 16 53.65	W 103 47 54.29
	14782.00	89.27	359.74	9854.25	4551.14	4539.64	446.76	0.21	466675.26	706647.99	N 32 16 54.59	W 103 47 54.29
	1											

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 ° ' ")
	18293.00	91.30	359.07	9854.06	8058.19	8049.91	394.21	0.73	470185.31	706596.45	N 32 17 29.33	W 103 47 54.69
	18387.00	92.09	0.05	9851.27	8152.08	8143.86	393.49	1.34	470279.26	706595.73	N 32 17 30.26	W 103 47 54.69
	18482.00	92.37	0.63	9847.58	8246.98	8238.79	394.05	0.68	470374.18	706596.29	N 32 17 31.20	W 103 47 54.68
	18533.00	91.72	0.76	9845.76	8297.94	8289.75	394.67	1.30	470425.14	706596.91	N 32 17 31.70	W 103 47 54.67
	18563.00	91.65	1.03	9844.88	8327.92	8319.73	395.14	0.93	470455.12	706597.38	N 32 17 32.00	W 103 47 54.66
	18672.00	90.79	0.19	9842.56	8436.87	8428.70	396.30	1.10	470564.08	706598.54	N 32 17 33.08	W 103 47 54.64
	18767.00	90.58	359.58	9841.42	8531.82	8523.69	396.11	0.68	470659.07	706598.34	N 32 17 34.02	W 103 47 54.64
	18862.00	89.89	358.26	9841.03	8626.70	8618.67	394.32	1.57	470754.04	706596.55	N 32 17 34.96	W 103 47 54.65
	18957.00	88.96	356.85	9841.98	8721.43	8713.58	390.27	1.78	470848.94	706592.50	N 32 17 35.90	W 103 47 54.69
	19052.00	87.83	355.68	9844.64	8815.96	8808.34	384.08	1.71	470943.69	706586.32	N 32 17 36.83	W 103 47 54.76
	19147.00	87.66	354.97	9848.38	8910.29	8902.95	376.34	0.77	471038.30	706578.58	N 32 17 37.77	W 103 47 54.84
	19242.00	88.86	354.72	9851.27	9004.55	8997.52	367.81	1.29	471132.86	706570.05	N 32 17 38.71	W 103 47 54.94
Exit Target Box	19295.00	88.84	355.37	9852.33	9057.18	9050.31	363.23	1.22	471185.65	706565.47	N 32 17 39.23	W 103 47 54.99
	19337.00	88.83	355.88	9853.18	9098.93	9092.18	360.03	1.22	471227.51	706562.27	N 32 17 39.64	W 103 47 55.02
	19432.00	90.41	358.11	9853.81	9193.59	9187.03	355.05	2.88	471322.37	706557.29	N 32 17 40.58	W 103 47 55.08
	19527.00	90.82	358.61	9852.79	9288.42	9281.99	352.33	0.68	471417.32	706554.57	N 32 17 41.52	W 103 47 55.10
	19622.00	90.51	358.02	9851.69	9383.24	9376.44	349.54	0.70	471512.26	706551.78	N 32 17 42.46	W 103 47 55.13
	19717.00	90.03	358.77	9851.24	9478.08	9471.90	346.88	0.94	471607.22	706549.12	N 32 17 43.40	W 103 47 55.16
	19811.00	90.48	358.03	9850.82	9571.92	9565.86	344.25	0.92	471701.17	706546.49	N 32 17 44.33	W 103 47 55.18
	19906.00	89.51	0.60	9850.83	9666.82	9660.85	343.12	2.89	471796.15	706545.36	N 32 17 45.27	W 103 47 55.19
	20000.00	89.93	0.39	9851.29	9760.80	9754.84	343.93	0.50	471890.14	706546.17	N 32 17 46.20	W 103 47 55.17
	20095.00	89.93	3.32	9851.41	9855.79	9849.78	347.00	3.08	471985.07	706549.24	N 32 17 47.14	W 103 47 55.13
	20189.00	89.69	1.90	9851.72	9949.77	9943.68	351.28	1.53	472078.97	706553.52	N 32 17 48.07	W 103 47 55.08
	20284.00	89.82	2.75	9852.13	10044.77	10038.60	355.14	0.91	472173.88	706557.38	N 32 17 49.01	W 103 47 55.03
Enter Target Box	20320.00	89.80	2.64	9852.24	10080.76	10074.56	356.83	0.32	472209.84	706559.07	N 32 17 49.37	W 103 47 55.00
	20473.00	89.72	2.15	9852.88	10233.75	10227.43	363.22	0.32	472362.89	706565.46	N 32 17 50.88	W 103 47 54.92
	20567.00	89.48	2.25	9853.54	10327.74	10321.35	366.83	0.28	472456.62	706569.06	N 32 17 51.81	W 103 47 54.87
	20662.00	91.10	2.32	9853.06	10422.74	10416.27	370.61	1.71	472551.53	706572.85	N 32 17 52.75	W 103 47 54.82
	20851.00	89.45	3.09	9852.15	10611.70	10605.05	379.53	0.96	472740.30	706581.77	N 32 17 54.61	W 103 47 54.71
	20946.00	89.96	2.27	9852.64	10706.68	10699.95	383.97	1.02	472835.19	706586.21	N 32 17 55.55	W 103 47 54.65
	21041.00	89.72	1.76	9852.91	10801.68	10794.89	387.32	0.59	472930.12	706589.55	N 32 17 56.49	W 103 47 54.61
	21136.00	90.10	0.76	9853.06	10896.68	10889.86	389.40	1.13	473025.09	706591.64	N 32 17 57.43	W 103 47 54.58
	21231.00	89.55	0.88	9853.35	10991.66	10984.85	390.76	0.59	473120.07	706593.00	N 32 17 58.37	W 103 47 54.56
	21325.00	90.03	0.12	9853.69	11085.64	11078.85	391.58	0.96	473214.06	706593.82	N 32 17 59.30	W 103 47 54.54
	21420.00	90.27	1.92	9853.44	11180.63	11173.83	393.27	1.91	473309.04	706595.51	N 32 18 0.24	W 103 47 54.52
	21514.00	89.34	359.81	9853.76	11274.61	11267.81	394.69	2.45	473403.02	706596.93	N 32 18 1.17	W 103 47 54.49
	21609.00	89.79	1.79	9854.48	11369.59	11362.79	396.02	2.14	473497.99	706598.26	N 32 18 2.11	W 103 47 54.47
	21703.00	89.72	0.22	9854.89	11463.58	11456.78	397.67	1.67	473591.97	706599.90	N 32 18 3.04	W 103 47 54.45
	21798.00	90.27	0.88	9854.89	11558.56	11551.77	398.58	0.90	473686.96	706600.82	N 32 18 3.98	W 103 47 54.43
	21893.00	89.82	2.30	9854.82	11653.55	11646.73	401.22	1.57	473781.91	706603.45	N 32 18 4.92	W 103 47 54.40
	21987.00	89.48	359.34	9855.39	11747.53	11740.71	402.56	3.17	473875.88	706604.80	N 32 18 5.85	W 103 47 54.37
	22082.00	89.31	0.82	9856.40	11842.48	11835.70	402.69	1.57	473970.87	706604.93	N 32 18 6.79	W 103 47 54.37
	22272.00	89.79	0.78	9857.89	12032.45	12025.68	405.35	0.25	474160.83	706607.58	N 32 18 8.67	W 103 47 54.33
	22366.00	89.62	359.90	9858.37	12126.42	12119.67	405.91	0.95	474254.82	706608.14	N 32 18 9.60	W 103 47 54.31
	22460.00	89.82	358.21	9858.83	12220.31	12213.66	404.35	1.81	474348.80	706606.59	N 32 18 10.53	W 103 47 54.33
	22555.00	89.72	0.09	9859.21	12315.20	12308.64	402.95	1.98	474443.78	706605.18	N 32 18 11.47	W 103 47 54.34
	22650.00	89.93	0.18	9859.50	12410.17	12403.64	403.17	0.24	474538.77	706605.40	N 32 18 12.41	W 103 47 54.33
	22744.00	89.86	359.24	9859.68	12504.11	12497.64	402.69	1.00	474632.76	706604.93	N 32 18 13.34	W 103 47 54.33
	22839.00	89.58	0.13	9860.14	12599.04	12592.63	402.17	0.98	474727.76	706604.41	N 32 18 14.28	W 103 47 54.33
100'												
FNLCrossed	22923.00	89.63	359.12	9860.72	12682.98	12676.63	401.62	1.20	474811.74	706603.86	N 32 18 15.11	W 103 47 54.33
Final MWD	22959.00	89.65	358.69	9860.95	12718.94	12712.62	400.94	1.20	474847.74	706603.17	N 32 18 15.47	W 103 47 54.34
Proj to TD	23003.00	89.65	358.69	9861.22	12762.87	12756.61	399.93	0.00	474891.72	706602.17	N 32 18 15.90	W 103 47 54.35

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 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	30.000	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 4H Gyro + MWD 0-23003MD
	1	30.000	30.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 4H Gyro + MWD 0-23003MD
	1	30.000	651.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 4H
	1	651.000	8392.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 4H
	1	8392.000	8974.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 4H
	1	8974.000	23003.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 4H

...Original Borehole/Oxy Pure Gold MDP1 29-17 Federal Com 4H Gyro + MWD 0-23003MD



Pure Gold MDP1 29-17 Federal Com 4H Wellbore Diagram

Elevation: GL 3357'

API: 30-015-45648

17-1/2" hole – 13-3/8" 45.5# J-55 csg
Set @ 670'

12-1/4" hole – 9-5/8" 43.5# HCL-80 BTC csg
Set @ 4210'

8-1/2" hole – 7-5/8" 26.4# HC-80 FJ/SF csg
Set @ 9015'

6-3/4" hole – 5-1/2" 20# P-110 SF TORQ/DQX csg
Set @ 22990'

Frac'd 9966'-22900"
54 stages

*Note: Diagram not to scale

PBTD – 22943' MD

TD – 22990' MD/9861' TVD