

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 02 2019

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

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

RECEIVED

☒ AMENDED REPORT
As-Drilled

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45230	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code 322245	Property Name PLATINUM MDP1 "34-3" FEDERAL COM	
OGRID No. 16096	Operator Name OXY USA INC.	Well Number 171H
		Elevation 3423.2'

Surface Location

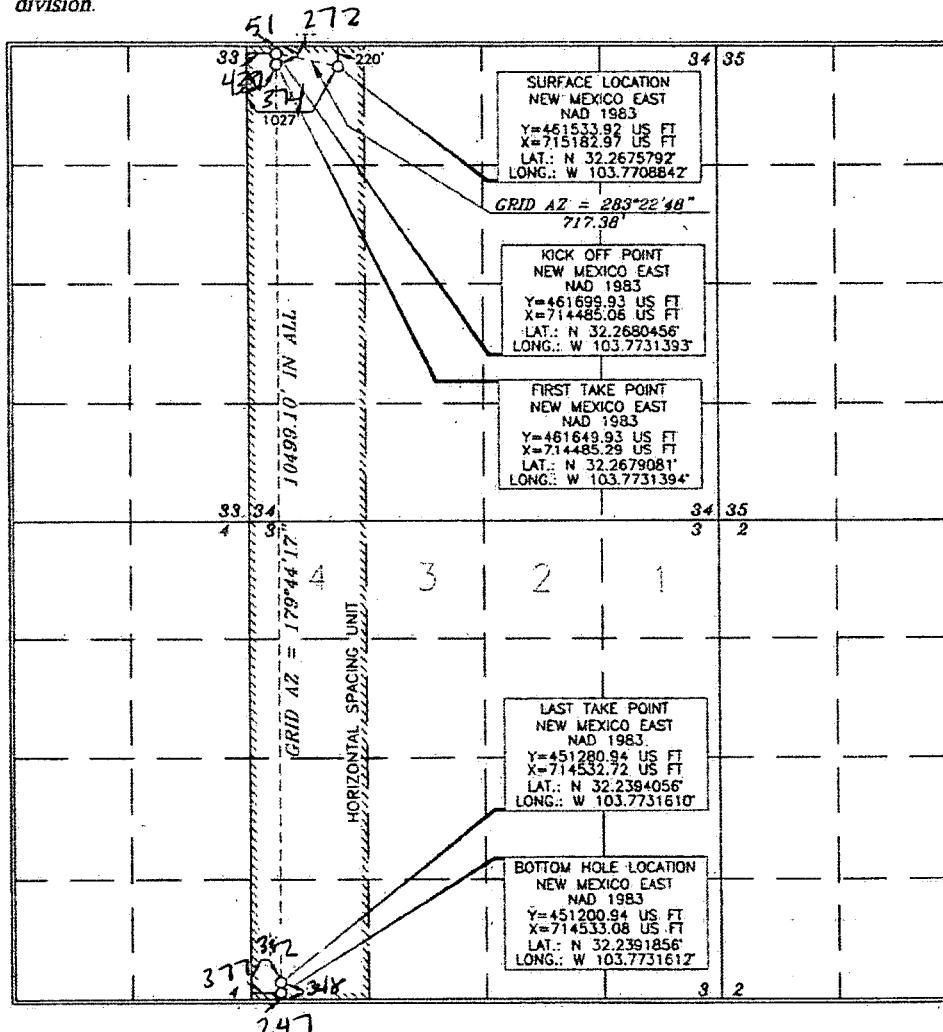
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	34	23 SOUTH	31 EAST, N.M.P.M.		220'	NORTH	1027'	WEST	EDDY

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
M	3	24 SOUTH	31 EAST, N.M.P.M.		247	SOUTH	377	WEST	EDDY

Dedicated Acres 3.20	Joint or Infill	Consolidation Code	Order No. Approved NSL# 7836
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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 as a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sarah Chapman 9/30/19
Signature Date
Sarah Chapman
Printed Name
Sarah.Chapman@oxy.u-nm
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. ASH
15079
Date of Survey
Signature and Seal of Professional Surveyor

Terry J. Ash 5/8/2019
Certificate Number 15079

NM OIL CONSERVATION

ARTESIA DISTRICT

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Intent ☐ As Drilled ☒

API #
30-015-45230

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Operator Name: Oxy USA Inc.	Property Name: Platinum HDPI 34-3 Federal Conn	Well Number 171H
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Kick Off Point (KOP)

UL D	Section 34	Township 23S	Range 31E	Lot	Feet 51	From N/S North	Feet 439	From E/W West	County El Paso
Latitude 32.26805					Longitude -103.77278			NAD NAD83	

First Take Point (FTP)

UL D	Section 34	Township 23S	Range 31E	Lot	Feet 272	From N/S North	Feet 439	From E/W West	County El Paso
Latitude 32.26745					Longitude -103.77300			NAD NAD83	

Last Take Point (LTP)

UL M	Section 3	Township 24S	Range 31E	Lot	Feet 348	From N/S South	Feet 382	From E/W West	County El Paso
Latitude 32.24010					Longitude -103.77314			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

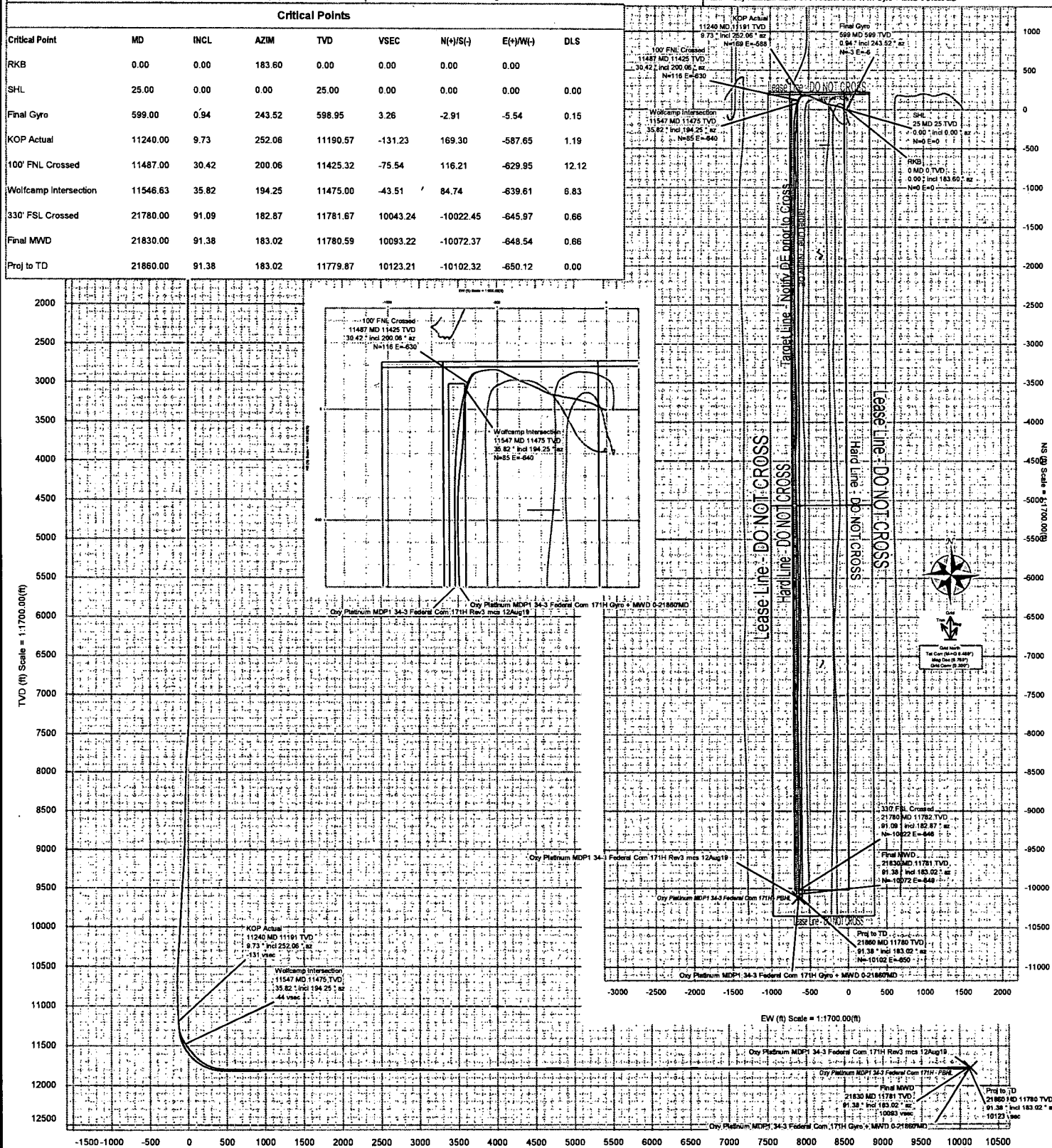
Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Platinum MDP1 34-3 Federal Com 171H	NM Eddy County (NAD 83)	Oxy Platinum MDP1 34-3 Federal Com 171H

Gravity & Magnetic Parameters				Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	IFR1	Dip:	69.947°	Date:	12-Aug-2018	Lat:	N 32 18 3.28	Northing:	481633.921US	Grid Conv:	0.3003°
MagDec:	6.789°	FB:	47950.7m	Gravity FB:	958.448mgn (9.80665 Based)	Lon:	W 103 46 16.16	Easting:	716182.971US	Scale Fact:	0.9999437
								MDP1 34-3 Federal Com 171H			
								Plan: Oxy Platinum MDP1 34-3 Federal Com 171H Gyro + MWD 0-21860MD			



Oxy Platinum MDP1 34-3 Federal Com 171H Gyro + MWD 0-21860'MD

Survey Geodetic Report

(Def Survey)



Report Date: August 23, 2019 - 12:32 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Platinum MDP1 34-3 Federal Com 171H / Oxy Platinum MDP1 34-3 Federal Com 171H
 Well: Oxy Platinum MDP1 34-3 Federal Com 171H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-45230
 Survey Name: Oxy Platinum MDP1 34-3 Federal Com 171H Gyro + MWD 0-21860'MD
 Survey Date: June 25, 2019
 Tort / AHD / DDI / ERD Ratio: 282.187' / 10931.957 ft / 6.757 / 0.926
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 3.28518", W 103° 46' 15.18326"
 Location Grid N/E Y/X: N 461533.920 RUS, E 715182.970 RUS
 CRS Grid Convergence Angle: 0.3003°
 Grid Scale Factor: 0.9999437
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 183.680° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=25'
 TVD Reference Elevation: 3448.200 ft above MSL
 Seabed / Ground Elevation: 3423.200 ft above MSL
 Magnetic Declination: 6.769°
 Total Gravity Field Strength: 998.4475mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47950.700 nT
 Magnetic Dip Angle: 59.947°
 Declination Date: August 12, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.3003°
 Total Corr Mag North->Grid: 6.4687°
 North: 6.4687°
 Local Coord Referenced To: Well Head

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ARTESIA DISTRICT

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	183.60	0.00	0.00	0.00	0.00	N/A	461533.92	715182.97	N 32 16 3.28	W 103 46 15.18
SHL	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	461533.92	715182.97	N 32 16 3.28	W 103 46 15.18
	99.90	0.28	218.62	99.90	0.15	-0.14	-0.11	0.37	461533.78	715182.86	N 32 16 3.28	W 103 46 15.18
	127.30	0.36	227.88	127.30	0.27	-0.25	-0.22	0.35	461533.67	715182.75	N 32 16 3.28	W 103 46 15.19
	156.60	0.45	226.81	156.60	0.42	-0.39	-0.37	0.31	461533.53	715182.60	N 32 16 3.28	W 103 46 15.19
	185.70	0.53	235.27	185.70	0.58	-0.55	-0.57	0.37	461533.37	715182.40	N 32 16 3.28	W 103 46 15.19
	215.20	0.66	246.67	215.20	0.75	-0.69	-0.83	0.59	461533.23	715182.14	N 32 16 3.28	W 103 46 15.19
	241.70	0.74	246.69	241.69	0.89	-0.82	-1.13	0.30	461533.10	715181.84	N 32 16 3.28	W 103 46 15.20
	267.60	0.78	109.34	267.59	1.02	-0.95	-1.12	5.47	461532.97	715181.85	N 32 16 3.28	W 103 46 15.20
	299.20	0.78	237.58	299.19	1.20	-1.13	-1.10	4.44	461532.79	715181.87	N 32 16 3.27	W 103 46 15.20
	330.70	0.96	242.24	330.69	1.46	-1.37	-1.51	0.61	461532.55	715181.46	N 32 16 3.27	W 103 46 15.20
	362.20	0.99	260.74	362.18	1.66	-1.54	-2.01	1.00	461532.38	715180.96	N 32 16 3.27	W 103 46 15.21
	393.70	0.94	252.59	393.68	1.82	-1.66	-2.53	0.46	461532.26	715180.44	N 32 16 3.27	W 103 46 15.21
	425.20	0.91	252.92	425.17	2.00	-1.81	-3.01	0.10	461532.11	715179.96	N 32 16 3.27	W 103 46 15.22
	456.70	0.85	248.97	456.67	2.19	-1.97	-3.47	0.27	461531.95	715179.50	N 32 16 3.27	W 103 46 15.22
	488.20	0.89	245.35	488.17	2.40	-2.15	-3.91	0.22	461531.77	715179.06	N 32 16 3.26	W 103 46 15.23
	519.70	0.91	246.33	519.66	2.63	-2.35	-4.36	0.08	461531.57	715178.61	N 32 16 3.26	W 103 46 15.23
	551.20	0.96	244.62	551.16	2.87	-2.57	-4.83	0.18	461531.35	715178.14	N 32 16 3.26	W 103 46 15.24
	582.70	0.92	244.38	582.66	3.13	-2.79	-5.30	0.13	461531.13	715177.67	N 32 16 3.26	W 103 46 15.25
	599.00	0.94	243.52	598.95	3.26	-2.91	-5.54	0.15	461531.01	715177.43	N 32 16 3.26	W 103 46 15.25
	793.00	0.08	275.36	792.94	4.05	-3.60	-7.09	0.45	461530.32	715175.88	N 32 16 3.25	W 103 46 15.27
	847.00	0.08	157.20	846.94	4.08	-3.64	-7.12	0.25	461530.29	715175.85	N 32 16 3.25	W 103 46 15.27
	940.00	0.06	292.93	939.94	4.13	-3.68	-7.14	0.14	461530.24	715175.83	N 32 16 3.25	W 103 46 15.27
	1122.00	0.06	355.90	1121.94	4.00	-3.54	-7.23	0.03	461530.38	715175.74	N 32 16 3.25	W 103 46 15.27
	1303.00	0.06	195.05	1302.94	4.00	-3.54	-7.26	0.07	461530.38	715175.71	N 32 16 3.25	W 103 46 15.27
	1491.00	0.08	270.83	1490.94	4.10	-3.63	-7.42	0.05	461530.29	715175.55	N 32 16 3.25	W 103 46 15.27
	1681.00	0.06	114.13	1680.94	4.14	-3.67	-7.46	0.07	461530.25	715175.51	N 32 16 3.25	W 103 46 15.27
	1872.00	0.13	293.41	1871.94	4.11	-3.63	-7.57	0.10	461530.29	715175.40	N 32 16 3.25	W 103 46 15.27
	1967.00	0.11	348.80	1966.94	3.98	-3.50	-7.69	0.12	461530.42	715175.28	N 32 16 3.25	W 103 46 15.27
	2063.00	0.13	28.24	2062.94	3.79	-3.31	-7.65	0.09	461530.61	715175.32	N 32 16 3.25	W 103 46 15.27
	2158.00	0.06	81.87	2157.94	3.69	-3.21	-7.55	0.11	461530.71	715175.42	N 32 16 3.25	W 103 46 15.27
	2252.00	0.13	317.26	2251.94	3.60	-3.12	-7.58	0.18	461530.80	715175.39	N 32 16 3.25	W 103 46 15.27
	2348.00	0.11	105.53	2347.94	3.55	-3.07	-7.56	0.24	461530.85	715175.41	N 32 16 3.26	W 103 46 15.27
	2539.00	0.17	282.38	2538.94	3.54	-3.05	-7.66	0.15	461530.87	715175.31	N 32 16 3.26	W 103 46 15.27
	2634.00	0.13	238.99	2633.94	3.58	-3.08	-7.89	0.12	461530.84	715175.08	N 32 16 3.26	W 103 46 15.28
	2728.00	0.13	332.32	2727.94	3.55	-3.04	-8.03	0.20	461530.88	715174.94	N 32 16 3.26	W 103 46 15.28
	2824.00	0.13	68.11	2823.94	3.41	-2.90	-7.98	0.20	461531.02	715174.99	N 32 16 3.26	W 103 46 15.28
	3014.00	0.13	296.95	3013.94	3.23	-2.73	-7.97	0.12	461531.19	715175.00	N 32 16 3.26	W 103 46 15.28
	3109.00	0.13	58.93	3108.94	3.13	-2.62	-7.98	0.24	461531.30	715174.99	N 32 16 3.26	W 103 46 15.28
	3205.00	0.11	301.32	3204.94	3.02	-2.52	-7.96	0.21	461531.40	715175.01	N 32 16 3.26	W 103 46 15.28
	3300.00	0.13	19.91	3299.94	2.88	-2.37	-8.00	0.16	461531.55	715174.97	N 32 16 3.26	W 103 46 15.28
	3395.00	0.11	321.67	3394.94	2.71	-2.20	-8.02	0.12	461531.72	715174.95	N 32 16 3.26	W 103 46 15.28
	3491.00	0.17	328.79	3490.94	2.52	-2.00	-8.15	0.06	461531.92	715174.82	N 32 16 3.27	W 103 46 15.28
	3587.00	0.13	315.17	3586.94	2.33	-1.80	-8.31	0.06	461532.12	715174.67	N 32 16 3.27	W 103 46 15.28
	3683.00	0.13	342.16	3682.94	2.16	-1.62	-8.42	0.06	461532.30	715174.55	N 32 16 3.27	W 103 46 15.28
	3873.00	0.18	147.39	3872.94	2.20	-1.67	-8.32	0.16	461532.25	715174.65	N 32 16 3.27	W 103 46 15.28
	3969.00	0.13	251.91	3968.94	2.36	-1.83	-8.34	0.26	461532.09	715174.63	N 32 16 3.27	W 103 46 15.28
	4064.00	0.13	34.60	4063.94	2.31	-1.77	-8.38	0.26	461532.15	715174.59	N 32 16 3.27	W 103 46 15.28
	4159.00	0.11	300.55	4158.94	2.17	-1.64	-8.40	0.19	461532.28	715174.57	N 32 16 3.27	W 103 46 15.28
	4255.00	0.06	142.74	4254.94	2.17	-1.63	-8.45	0.17	461532.29	715174.52	N 32 16 3.27	W 103 46 15.28
	4308.00	0.13	2.80	4307.94	2.13	-1.59	-8.43	0.34	461532.33	715174.54	N 32 16 3.27	W 103 46 15.28
	4458.00	0.16	247.05	4457.94	2.05	-1.50	-8.62	0.16	461532.42	715174.36	N 32 16 3.27	W 103 46 15.28
	4648.00	0.13	111.78	4647.94	2.24	-1.69	-8.66	0.14	461532.23	715174.31	N 32 16 3.27	W 103 46 15.28
	4743.00	0.07	338.94	4742.94	2.22	-1.67	-8.58	0.19	461532.25	715174.39	N 32 16 3.27	W 103 46 15.28
	4839.00	0.16	341.11	4838.94	2.04	-1.49	-8.64	0.09	461532.43	715174.33	N 32 16 3.27	W 103 46 15.28
	4934.00	0.08	10.82	4933.94	1.86	-1.30	-8.68	0.10	461532.62	715174.30	N 32 16 3.27	W 103 46 15.28
	5029.00	0.14	145.16	5028.94	1.88	-1.33	-8.60	0.21	461532.59	715174.37	N 32 16 3.27	W 103 46 15.28
	5124.00	0.10	262.14	5123.94	1.99	-1.44	-8.61	0.22	461532.48	715174.36	N 32 16 3.27	W 103 46 15.28
	5219.00	0.14	175.59	5218.94	2.12	-1.57	-8.69	0.18	461532.35	715174.29	N 32 16 3.27	W 103 46 15.28
	5315.00	0.14	237.32	5314.94	2.31	-1.75	-8.78	0.15	461532.17	715174.20	N 32 16 3.27	W 103 46 15.29
	5410.00	0.10	321.17	5409.94	2.31	-1.74	-8.92	0.17	461532.18	715174.05	N 32 16 3.27	W 103 46 15.29
	5505.00	0.10	339.65	5504.94	2.18	-1.60	-9.01	0.03	461532.32	715173.96	N 32 16 3.27	W 103 46 15.29
	5601.00	0.10	72.63	5600.94	2.07	-1.50	-8.95	0.15	461532.42	715174.02	N 32 16 3.27	W 103 46 15.29
	5696.00	0.10	163.92	5695.94	2.12	-1.55	-8.85	0.15	461532.37	715174.12	N 32 16 3.27	W 103 46 15.29
	5790.00	0.12	109.56	5789.94	2.22	-1.66	-8.74	0.11	461532.26	715174.23	N 32 16 3.27	W 103 46 15.29
	5886.00	0.10	174.78	5885.94	2.33	-1.78	-8.63	0.12	461532.14	715174.34	N 32 16 3.27	W 103 46 15.28
	5981.00	0.14	72.25	5980.94	2.37	-1.83	-8.52	0.20	461532.09	715174.45	N 32 16 3.27	W 103 46 15.28
	6077.00	0.12	264.24	6076.94	2.35	-1.80	-8.51	0.27	461532.12	715174.47	N 32 16 3.27	W 103 46 15.28
	6172.00	0.12	340.54	6171.94	2.27	-1.72	-8.64	0.16	461532.20	715174.33	N 32 16 3.27	W 103 46 15.28
	6266.00	0.10	205.00	6265.94	2.26	-1.70	-8.70	0.22	461532.22	715174.27	N 32 16 3.27	W 103 46 15.28
	6362.00	0.15	202.88	6361.94	2.45	-1.89	-8.79	0.05	461532.03	715174.18	N 32 16 3.27	W 103 46 15.29
	6457.00	0.10	220.40	6456.94	2.64	-2.07	-8.89	0.07	461531.85	715174.08	N 32 16 3.27	W 103 46 15.29
	6551.00	0.12	205.17	6550.94	2.79	-2.22	-8.99	0.04	461531.70	715173.98	N 32 16 3.26	W 103 46 15.29
	6645.00	0.10	85.48	6644.94	2.87	-2.30	-8.95	0.20	461531.62	715174.02	N 32 16 3.26	W 103 46 15.29
	6740.00	0.29	156.36	6739.94	3.08	-2.52	-8.77	0.29	461531.40	715174.20	N 32 16 3.26	W 103 46 15.29
	6931.00	0.22	69.63	6930.93	3.36	-2.83	-8.23	0.19	461531.09	715174.74	N 32 16 3.26	W 103 46 15.28
	7025.00	0.28	354.72	7024.93	3.06	-2.54	-8.08	0.33	461531.38			

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (hr)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ° ')	Longitude (E/W ° ° ')
	7119.00	0.18	93.06	7118.53	2.83	-2.32	-7.96	0.38	461531.80	715175.02	N 32 16 3.26 W 103 46 15.28	
	7214.00	0.10	348.60	7213.93	2.75	-2.25	-7.82	0.24	461531.67	715175.15	N 32 16 3.26 W 103 46 15.27	
	7309.00	0.95	306.64	7308.93	2.24	-1.70	-8.47	0.92	461532.22	715174.50	N 32 16 3.27 W 103 46 15.28	
	7404.00	6.09	296.93	7403.72	-0.18	1.06	-13.60	5.43	461534.98	715169.37	N 32 16 3.30 W 103 46 15.34	
	7499.00	10.19	295.97	7497.74	-5.36	7.02	-25.65	4.32	461540.94	715157.32	N 32 16 3.50 W 103 46 15.62	
	7689.00	9.71	296.15	7684.88	-17.86	21.44	-55.14	0.25	461555.36	715127.83	N 32 16 3.65 W 103 46 16.17	
	7879.00	9.72	283.88	7872.18	-26.83	32.35	-85.10	1.09	461566.27	715097.87	N 32 16 3.61 W 103 46 16.17	
	7975.00	9.61	284.44	7966.81	-29.76	36.30	-100.73	0.15	461570.21	715082.25	N 32 16 3.69 W 103 46 16.53	
	8070.00	9.79	284.65	8060.46	-32.77	40.32	-116.22	0.19	461574.23	715066.75	N 32 16 3.73 W 103 46 16.71	
	8165.00	9.48	284.14	8154.12	-35.73	44.27	-131.62	0.34	461578.19	715051.35	N 32 16 3.77 W 103 46 16.89	
	8261.00	9.09	283.38	8248.86	-38.44	47.96	-146.67	0.43	461581.87	715036.31	N 32 16 3.80 W 103 46 17.05	
	8356.00	8.25	280.49	8342.77	-40.52	50.93	-160.67	1.00	461584.85	715022.31	N 32 16 3.82 W 103 46 17.21	
	8452.00	8.36	277.83	8437.77	-41.84	53.14	-174.36	0.42	461587.06	715008.62	N 32 16 3.84 W 103 46 17.37	
	8547.00	8.76	278.58	8531.71	-42.96	55.16	-188.35	0.44	461589.08	714994.63	N 32 16 3.87 W 103 46 17.54	
	8642.00	8.81	284.36	8625.60	-44.92	58.04	-202.55	0.93	461591.96	714980.43	N 32 16 3.91 W 103 46 17.69	
	8738.00	7.59	285.58	8720.61	-47.59	61.57	-215.78	1.28	461595.49	714967.20	N 32 16 3.93 W 103 46 17.83	
	8832.00	7.12	275.02	8813.84	-49.01	63.75	-227.57	1.52	461597.66	714955.42	N 32 16 3.95 W 103 46 18.01	
	8933.00	7.36	280.76	8933.88	-50.14	65.85	-242.65	0.63	461599.77	714940.33	N 32 16 4.01 W 103 46 18.11	
	9022.00	7.67	284.00	9002.29	-51.51	67.79	-251.46	0.76	461601.70	714931.53	N 32 16 4.09 W 103 46 18.47	
	9117.00	9.56	291.33	9096.21	-55.04	72.19	-264.96	2.30	461606.11	714918.02	N 32 16 4.15 W 103 46 18.61	
	9232.00	9.94	294.96	9209.55	-61.53	79.85	-282.85	0.63	461613.77	714900.13	N 32 16 4.22 W 103 46 18.78	
	9308.00	10.21	296.68	9284.38	-66.55	85.65	-294.82	0.53	461619.56	714888.17	N 32 16 4.29 W 103 46 18.95	
	9403.00	9.66	296.28	9377.96	-72.90	92.96	-309.49	0.58	461626.87	714873.50	N 32 16 4.36 W 103 46 19.13	
	9498.00	10.12	295.66	9471.54	-79.09	100.10	-324.16	0.50	461634.01	714858.83	N 32 16 4.44 W 103 46 19.31	
	9593.00	10.14	293.63	9565.06	-85.06	107.07	-339.34	0.38	461640.98	714843.65	N 32 16 4.49 W 103 46 19.48	
	9689.00	9.60	291.28	9659.64	-90.37	113.36	-354.55	0.70	461647.27	714828.44	N 32 16 4.54 W 103 46 19.65	
	9784.00	9.80	292.50	9753.28	-95.37	119.33	-369.40	0.30	461653.24	714813.59	N 32 16 4.60 W 103 46 19.82	
	9879.00	9.45	289.83	9846.95	-100.15	125.07	-384.20	0.60	461658.98	714798.79	N 32 16 4.67 W 103 46 19.99	
	9974.00	9.79	294.60	9940.61	-105.20	131.07	-398.88	0.91	461664.99	714784.11	N 32 16 4.73 W 103 46 20.15	
	10069.00	9.19	293.91	10034.31	-110.71	137.51	-413.16	0.64	461671.42	714769.83	N 32 16 4.87 W 103 46 20.48	
	10164.00	9.60	296.64	10128.04	-116.42	144.14	-427.18	0.64	461678.05	714755.82	N 32 16 4.95 W 103 46 20.66	
	10355.00	9.43	296.13	10316.41	-128.61	158.17	-455.46	0.10	461692.08	714727.53	N 32 16 5.01 W 103 46 20.80	
	10460.00	9.41	298.47	10420.00	-135.49	166.05	-470.73	0.37	461699.96	714712.27	N 32 16 5.07 W 103 46 20.95	
	10547.00	8.99	294.43	10505.88	-140.89	172.25	-483.17	0.89	461706.16	714699.83	N 32 16 5.08 W 103 46 21.12	
	10640.00	8.80	286.95	10597.79	-145.06	177.28	-496.44	1.30	461711.19	714686.56	N 32 16 5.09 W 103 46 21.26	
	10743.00	7.53	273.03	10699.78	-146.75	179.89	-510.55	2.15	461713.80	714672.45	N 32 16 5.08 W 103 46 21.43	
	10830.00	8.37	267.15	10785.94	-145.96	179.87	-522.56	1.34	461713.78	714660.44	N 32 16 5.06 W 103 46 21.60	
	10925.00	9.14	263.69	10879.83	-143.87	178.70	-536.97	0.98	461712.61	714646.03	N 32 16 5.04 W 103 46 21.78	
	11019.00	9.02	260.88	10972.66	-140.94	176.71	-551.67	0.49	461710.62	714631.34	N 32 16 4.99 W 103 46 22.02	
	11114.00	9.76	260.92	11066.38	-137.51	174.26	-566.97	0.78	461708.17	714616.03	N 32 16 4.91 W 103 46 22.21	
	11240.00	9.73	252.06	11190.57	-131.23	169.30	-587.65	1.19	461703.21	714595.36	N 32 16 4.68 W 103 46 22.41	
	11343.00	11.32	235.36	11291.86	-121.75	160.87	-604.25	3.32	461694.78	714578.76	N 32 16 4.47 W 103 46 22.51	
	11438.00	25.26	206.38	11382.00	-97.10	137.25	-621.04	17.10	461671.16	714561.97	N 32 16 4.24 W 103 46 22.60	
KOP Actual	11487.00	30.42	200.06	11425.32	-75.54	116.21	-629.95	12.12	461650.12	714553.06	N 32 16 4.16 W 103 46 22.63	
100' FNL Crossed	11532.00	35.36	195.78	11463.10	-51.86	92.96	-637.40	12.12	461626.88	714545.61	N 32 16 3.68 W 103 46 22.73	
Wolfcamp Intersection	11546.63	35.82	194.25	11475.00	-43.51	84.74	-639.61	6.83	461618.65	714543.40	N 32 16 3.09 W 103 46 22.78	
	11627.00	38.86	186.48	11539.01	4.72	36.96	-648.24	6.83	461570.88	714534.77	N 32 16 2.41 W 103 46 22.80	
	11721.00	41.59	180.92	11610.90	65.24	-23.44	-652.05	4.92	461510.49	714530.95	N 32 16 1.84 W 103 46 22.86	
	11816.00	50.24	181.48	11676.93	133.35	-91.59	-653.51	9.12	461442.33	714529.50	N 32 16 0.79 W 103 46 22.98	
	11911.00	60.76	185.24	11730.68	211.51	-169.61	-658.25	11.54	461364.32	714524.76	N 32 15 59.88 W 103 46 23.09	
	12005.00	72.91	187.66	11767.59	297.66	-255.31	-668.02	13.14	461278.63	714514.99	N 32 15 58.95 W 103 46 23.13	
	12100.00	81.18	183.22	11788.88	390.09	-347.37	-676.73	9.82	461186.57	714506.28	N 32 15 58.42 W 103 46 23.17	
	12195.00	89.02	180.55	11796.99	484.61	-441.89	-679.83	8.71	461092.06	714503.18	N 32 15 57.15 W 103 46 23.10	
	12248.00	89.99	180.13	11797.45	537.52	-494.89	-680.14	1.99	461039.06	714502.87	N 32 15 56.20 W 103 46 23.06	
	12377.00	89.28	178.43	11798.27	606.13	-623.87	-678.52	1.43	460910.09	714504.49	N 32 15 55.27 W 103 46 23.06	
	12473.00	89.69	176.53	11798.57	761.73	-719.83	-675.97	0.64	460814.13	714517.04	N 32 15 54.33 W 103 46 23.04	
	12567.00	88.22	176.45	11800.52	855.16	-813.72	-671.86	2.84	460720.25	714511.15	N 32 15 53.40 W 103 46 23.08	
	12662.00	92.26	181.06	11801.12	948.77	-908.65	-669.79	6.45	460625.32	714513.22	N 32 15 52.46 W 103 46 23.17	
	12756.00	89.88	183.39	11798.36	1043.71	-1002.55	-677.98	1.45	460531.43	714509.57	N 32 15 51.52 W 103 46 23.13	
	12851.00	89.44	182.08	11798.93	1138.69	-1097.44	-677.98	1.92	460431.58	714503.09	N 32 15 50.59 W 103 46 23.20	
	12946.00	89.53	180.26	11799.78	1233.59	-1192.41	-682.07	3.01	460347.62	714500.94	N 32 15 49.66 W 103 46 23.24	
	13040.00	91.42	182.37	11799.00	1327.50	-1286.37	-682.07	3.01	460247.62	714498.00	N 32 15 48.72 W 103 46 23.25	
	13134.00	88.23	181.21	11799.29	1421.43	-1380.31	-685.01	3.61	460153.69	714498.75	N 32 15 47.79 W 103 46 23.25	
	13229.00	88.80	178.33	11801.75	1516.17	-1475.27	-684.63	3.09	460058.74	714496.02	N 32 15 46.85 W 103 46 23.29	
	13323.00	91.30	181.22	11801.67	1609.94	-1569.25	-684.26	4.06	459964.76	714498.75	N 32 15 45.92 W 103 46 23.32	
	13418.00	90.35	182.08	11800.30	1704.86	-1664.20	-686.99	1.35	459869.82	714493.49	N 32 15 44.05 W 103 46 23.31	
	13512.00	90.54	181.00	11799.57	1798.79	-1758.16	-689.52	1.17	459775.86	714493.49	N 32 15 43.11 W 103 46 23.31	
	13607.00	89.12	178.74	11799.85	1893.57	-1853.15	-689.30	2.81	459680.87	714495.29	N 32 15 42.18 W 103 46 23.33	
	13701.00	90.93	179.33	11799.81	1987.26	-1947.14	-687.72	2.03	459586.80	714495.29	N 32 15 41.24 W 103 46 23.34	
	13796.00	91.00	180.35	11798.21	2082.03	-2042.12	-687.45	1.08	459491.92	714494.91	N 32 15 40.30 W 103 46 23.35	
	13890.00	90.26	180.44	11797.18	2175.87	-2136.11	-688.10	0.79	459397.93	714494.91	N 32 15 39.37 W 103 46 23.37	
	13985.00	90.28	180.47	11796.73	2270.72	-2231.11	-688.86	0.04	459302.94	714493.68	N 32 15 38.43 W 103 46 23.39	
	14080.00	90.55	180.10	11796.04	2365.55	-2326.10	-689.33	0.48	459207.95	714493.68	N 32 15 37.49 W 103 46 23.41	
	14174.00	91.16	180.66	11794.64	2459.38	-2420.09	-689.95	0.88	459113.97	714491.66	N 32 15 36.57 W 103 46 23.45	
	14269.00	89.20	181.03	11794.34	2554.26	-2515.08	-691.35	2.10	459018.99	714489.82	N 32 15 35.22 W 103 46 23.49	
	14364.00	90.10	181.18	11794.92	2649.16	-2610.06	-693.19	0.96	458924.02	714487.31	N 32 15 34.69 W 103 46 23.48	
	14458.00	90.34	181.88	11794.56	2743.10	-2704.02	-695.70	0.79	458830.06	714484.95	N 32 15 33.76 W	

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 ° ' ")
	17387.00	89.67	177.89	11783.22	5661.66	-5631.28	-654.02	0.84	455902.95	714528.99	N 32 15 7.60	W 103 46 23.14
	17482.00	89.93	179.54	11783.55	5756.30	-5726.27	-651.89	1.76	455807.99	714531.12	N 32 15 6.66	W 103 46 23.12
	17576.00	90.13	178.57	11783.50	5849.99	-5820.25	-650.34	1.05	455714.01	714532.67	N 32 15 5.73	W 103 46 23.11
	17671.00	90.68	178.31	11782.83	5944.59	-5915.21	-647.76	0.64	455619.05	714535.25	N 32 15 4.79	W 103 46 23.09
	17765.00	90.77	178.88	11781.64	6038.22	-6009.18	-645.45	0.61	455525.09	714537.56	N 32 15 3.86	W 103 46 23.07
	17860.00	90.71	179.01	11780.41	6132.88	-6104.15	-643.70	0.15	455430.12	714539.30	N 32 15 2.92	W 103 46 23.05
	17954.00	92.04	179.54	11778.16	6226.58	-6198.12	-642.51	1.52	455336.16	714540.49	N 32 15 1.99	W 103 46 23.04
	18049.00	90.42	179.64	11776.12	6321.31	-6293.09	-641.83	1.71	455241.20	714541.17	N 32 15 1.05	W 103 46 23.04
	18144.00	91.13	180.89	11774.83	6416.13	-6388.08	-642.27	1.51	455146.21	714540.73	N 32 15 0.11	W 103 46 23.05
	18238.00	91.17	181.25	11772.95	6510.01	-6482.04	-644.03	0.39	455052.26	714538.98	N 32 14 59.18	W 103 46 23.08
	18333.00	89.09	180.07	11772.73	6604.87	-6577.03	-645.12	2.52	454957.27	714537.89	N 32 14 58.24	W 103 46 23.10
	18428.00	90.25	181.16	11773.28	6699.73	-6672.02	-646.14	1.68	454862.29	714536.87	N 32 14 57.30	W 103 46 23.11
	18522.00	89.89	180.50	11773.16	6793.62	-6766.01	-647.50	0.80	454768.31	714535.50	N 32 14 56.37	W 103 46 23.14
	18617.00	88.71	180.02	11774.32	6888.44	-6861.00	-647.93	1.34	454673.32	714535.07	N 32 14 55.43	W 103 46 23.15
	18711.00	88.33	180.27	11776.75	6982.23	-6954.97	-648.17	0.48	454579.36	714534.84	N 32 14 54.50	W 103 46 23.15
	18806.00	89.97	179.86	11778.16	7077.02	-7049.95	-648.28	1.78	454484.38	714534.73	N 32 14 53.56	W 103 46 23.16
	18901.00	90.24	181.04	11777.99	7171.87	-7144.95	-649.03	1.27	454389.39	714533.98	N 32 14 52.62	W 103 46 23.18
	18995.00	90.14	181.61	11777.67	7265.79	-7238.92	-651.20	0.62	454295.42	714531.81	N 32 14 51.69	W 103 46 23.21
	19089.00	89.48	181.30	11777.99	7359.72	-7332.89	-653.59	0.78	454201.46	714529.42	N 32 14 50.76	W 103 46 23.24
	19184.00	89.69	181.70	11778.67	7454.65	-7427.85	-656.07	0.48	454106.50	714526.93	N 32 14 49.82	W 103 46 23.28
	19278.00	90.51	181.38	11778.51	7548.58	-7521.82	-658.60	0.94	454012.54	714524.41	N 32 14 48.89	W 103 46 23.31
	19373.00	88.70	180.66	11779.17	7643.47	-7616.80	-660.29	2.05	453917.57	714522.72	N 32 14 47.95	W 103 46 23.34
	19468.00	90.66	179.79	11779.70	7738.29	-7711.79	-660.66	2.26	453822.58	714522.34	N 32 14 47.01	W 103 46 23.35
	19562.00	89.71	178.92	11779.39	7832.02	-7805.78	-659.61	1.37	453728.59	714523.40	N 32 14 46.08	W 103 46 23.34
	19657.00	90.32	178.68	11779.37	7926.68	-7900.76	-657.62	0.69	453633.62	714525.39	N 32 14 45.14	W 103 46 23.32
	19751.00	90.07	178.91	11779.05	8020.34	-7994.74	-655.64	0.36	453539.65	714527.37	N 32 14 44.21	W 103 46 23.30
	19846.00	89.93	178.66	11779.05	8114.99	-8089.72	-653.62	0.30	453444.67	714528.38	N 32 14 43.27	W 103 46 23.29
	19940.00	88.75	178.64	11780.13	8208.62	-8183.68	-651.41	1.26	453350.71	714531.60	N 32 14 42.34	W 103 46 23.27
	20035.00	90.01	179.05	11781.16	8303.27	-8278.66	-649.50	1.39	453255.75	714533.51	N 32 14 41.40	W 103 46 23.25
	20130.00	90.20	178.79	11780.98	8397.95	-8373.64	-647.71	0.34	453160.77	714535.30	N 32 14 40.46	W 103 46 23.24
	20224.00	90.19	178.96	11780.66	8491.61	-8467.62	-645.86	0.18	453066.79	714537.15	N 32 14 39.53	W 103 46 23.22
	20319.00	89.50	177.88	11780.92	8586.21	-8562.58	-643.24	1.35	452971.84	714539.77	N 32 14 38.59	W 103 46 23.19
	20413.00	90.19	177.88	11781.18	8679.73	-8665.52	-639.76	0.73	452877.91	714543.24	N 32 14 37.66	W 103 46 23.16
	20508.00	90.73	177.62	11780.41	8774.22	-8751.44	-636.03	0.63	452782.99	714546.97	N 32 14 36.72	W 103 46 23.12
	20602.00	90.40	179.01	11779.49	8867.80	-8845.39	-633.27	1.52	452688.04	714549.74	N 32 14 35.79	W 103 46 23.10
	20696.00	91.53	179.72	11777.90	8961.52	-8939.37	-632.23	1.42	452595.07	714550.78	N 32 14 34.86	W 103 46 23.09
	20791.00	90.58	178.88	11776.15	9056.22	-9034.35	-631.07	1.33	452500.10	714551.94	N 32 14 33.92	W 103 46 23.08
	20885.00	90.18	178.68	11775.53	9149.88	-9128.32	-629.07	0.48	452406.13	714553.94	N 32 14 32.99	W 103 46 23.06
	20980.00	89.58	178.52	11775.73	9244.50	-9223.29	-626.75	0.65	452311.16	714556.26	N 32 14 32.05	W 103 46 23.04
	21074.00	90.43	178.50	11775.72	9338.12	-9317.26	-624.30	0.90	452217.20	714558.71	N 32 14 31.12	W 103 46 23.02
	21169.00	90.72	178.90	11774.77	9432.76	-9412.23	-622.15	0.52	452122.24	714560.86	N 32 14 30.18	W 103 46 23.00
	21302.00	90.56	182.83	11773.28	9565.56	-9545.18	-624.15	2.96	451989.30	714558.85	N 32 14 28.87	W 103 46 23.03
	21453.00	86.30	182.06	11777.42	9716.43	-9695.95	-630.59	2.87	451838.53	714552.41	N 32 14 27.38	W 103 46 23.12
	21547.00	88.12	183.21	11781.99	9810.30	-9789.73	-634.91	2.29	451744.76	714548.10	N 32 14 26.45	W 103 46 23.17
	21641.00	90.27	182.44	11783.31	9904.27	-9883.61	-639.54	2.43	451650.89	714543.47	N 32 14 25.52	W 103 46 23.23
330' FSL	21780.00	91.09	182.87	11781.67	10043.24	-10022.45	-645.97	0.66	451512.06	714537.03	N 32 14 24.15	W 103 46 23.32
Crossed	21830.00	91.38	183.02	11780.59	10093.22	-10072.37	-648.54	0.66	451462.14	714534.47	N 32 14 23.65	W 103 46 23.35
Final MWD	21860.00	91.38	183.02	11779.87	10123.21	-10102.32	-650.12	0.00	451432.19	714532.89	N 32 14 23.36	W 103 46 23.37
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	25.000	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 171H Gyro + MWD 0-21860'MD
	1	25.000	25.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 171H Gyro + MWD 0-21860'MD
	1	25.000	599.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 171H
	1	599.000	1967.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5 DEG	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 171H
	1	1967.000	21860.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 171H