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EMNRD-OCD ARTESIA

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

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	Pool Code	Pool Name
30-015-45334	98236	Wildcat Wolfcamp

Property Code	Property Name	Well Number
321632	IRIDIUM MDP1 "28-21" FEDERAL COM	176H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3403.1'

Surface Location

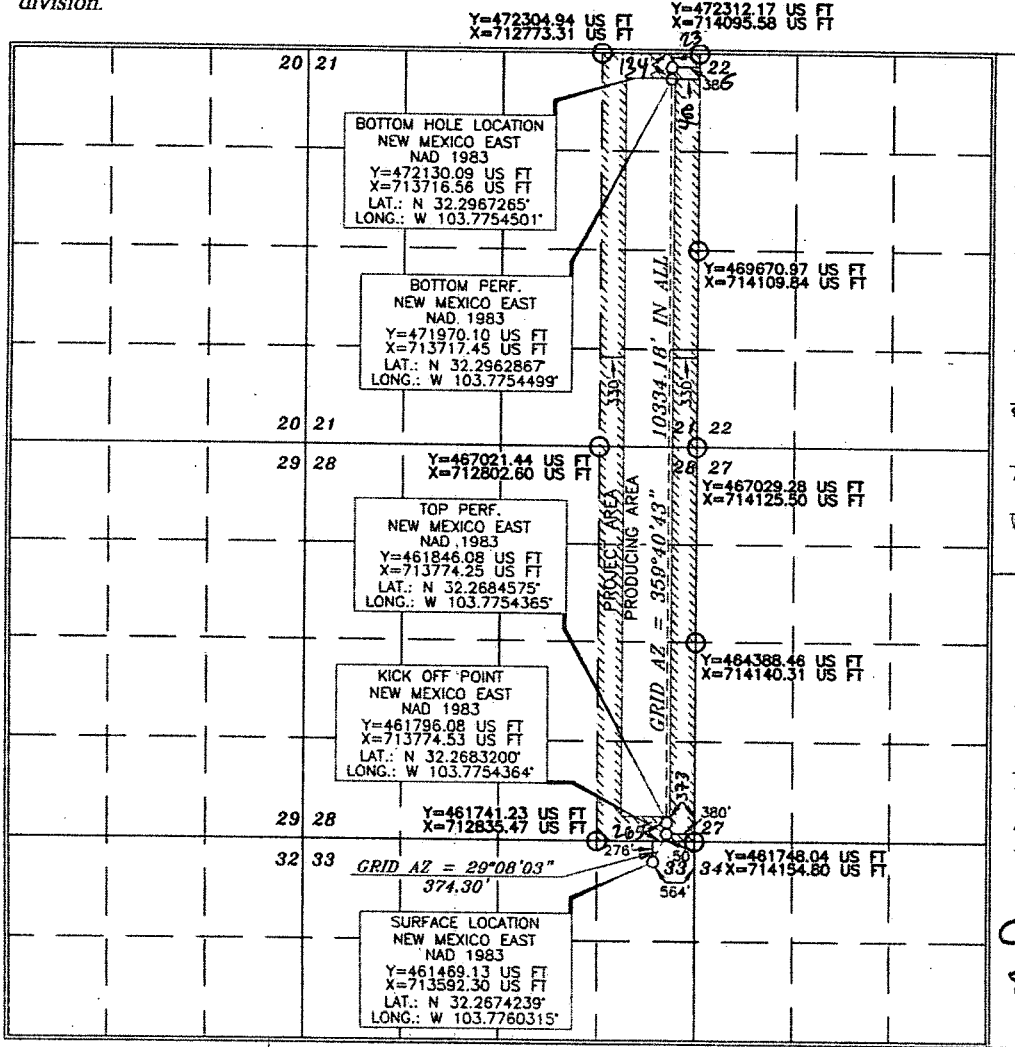
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	33	23 SOUTH	31 EAST, N.M.P.M.		276'	NORTH	564'	EAST	EDDY

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
A	21	23 SOUTH	31 EAST, N.M.P.M.		~~180~~ 23	NORTH	~~380~~ 385	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	~~Order No.~~
320			FTP - 265 FSL 373 FEL (P, Sec. 28) LTP - 134 FNL 400 FEL (A, Sec. 21)

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



OPERATOR CERTIFICATION

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

Signature — Date: 1/21/20

Printed Name: Jana Merdida

E-mail Address: janalyn_merdida@oxy.com

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.

JANUARY 31, 2018

Date of Survey

Signature and Seal of Professional Surveyor

TERRY J. ASEL — NEW MEXICO — 15079 — REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number 15079 — 4/10/2018

WO# 180131WL-f-XY (KA)

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Intent [ ] As Drilled [X]

API #
30-015-45334

Operator Name:	Property Name:	Well Number
OXY USA INC.	IRIDIUM MDP1 28-21 FEDERAL COM	176H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	28	23S	31E		97	S	404	E	EDDY

Latitude	Longitude	NAD
32.26639	-103.77552	NAD83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	28	23S	31E		265	S	373	E	EDDY

Latitude	Longitude	NAD
32.26891	-103.77540	NAD83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	21	23S	31E		134	N	400	E	EDDY

Latitude	Longitude	NAD
32.29685	-103.77532	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 Iridium MDP1 28-21 Federal Com 176H Gyro + MWD 0-22700'MD
Survey Geodetic Report
(Def Survey)

Report Date:	November 14, 2019 - 02:10 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	0.668 ° (Grid North)
Field:	NM Eddy County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Iridium MDP1 28-21 Federal Com 176H / Oxy Iridium MDP1 28-21 Federal Com 176H	**TVD Reference Datum:**	RKB=30'
Well:	Oxy Iridium MDP1 28-21 Federal Com 176H	**TVD Reference Elevation:**	3433.100 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3403.100 ft above MSL
UWI / API#:	Unknown / 30-015-45334	**Magnetic Declination:**	6.754 °
Survey Name:	Oxy Iridium MDP1 28-21 Federal Com 176H Gyro + MWD 0-22700'MD	**Total Gravity Field Strength:**	998.4485mgn (9.80665 Based)
Survey Date:	September 29, 2019	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	351.497 ° / 11690.308 ft / 6.899 / 0.992	**Total Magnetic Field Strength:**	47927.300 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.942 °
Location Lat / Long:	N 32° 16' 2.72617", W 103° 46' 33.71331"	**Declination Date:**	October 28, 2019
Location Grid N/E Y/X:	N 461469.130 ftUS, E 713592.300 ftUS	**Magnetic Declination Model:**	IFR1
CRS Grid Convergence Angle:	0.2975 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99994307	**Grid Convergence Used:**	0.2975 °
Version / Patch:	2.10.782.0	**Total Corr Mag North->Grid North:**	6.4565 °
		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	0.65	0.00	0.00	0.00	0.00	N/A	461469.13	713592.30	N 32 16 2.73	W 103 46 33.71
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	461469.13	713592.30	N 32 16 2.73	W 103 46 33.71
	134.50	0.02	301.19	134.50	0.01	0.01	-0.02	0.02	461469.14	713592.28	N 32 16 2.73	W 103 46 33.71
	164.50	0.03	308.25	164.50	0.02	0.02	-0.03	0.03	461469.15	713592.27	N 32 16 2.73	W 103 46 33.71
	190.50	0.01	294.05	190.50	0.02	0.02	-0.03	0.08	461469.15	713592.27	N 32 16 2.73	W 103 46 33.71
	217.50	0.03	73.91	217.50	0.02	0.03	-0.03	0.14	461469.16	713592.27	N 32 16 2.73	W 103 46 33.71
	248.50	0.06	166.60	248.50	0.01	0.01	-0.02	0.22	461469.14	713592.28	N 32 16 2.73	W 103 46 33.71
	278.50	0.10	103.60	278.50	-0.01	-0.01	0.01	0.30	461469.12	713592.31	N 32 16 2.73	W 103 46 33.71
	310.50	0.13	183.62	310.50	-0.05	-0.05	0.04	0.47	461469.08	713592.34	N 32 16 2.73	W 103 46 33.71
	341.50	0.17	121.62	341.50	-0.11	-0.11	0.07	0.51	461469.02	713592.37	N 32 16 2.73	W 103 46 33.71
	373.50	0.19	138.26	373.50	-0.17	-0.18	0.15	0.17	461468.95	713592.45	N 32 16 2.72	W 103 46 33.71
	408.50	0.25	153.39	408.50	-0.29	-0.29	0.22	0.24	461468.84	713592.52	N 32 16 2.72	W 103 46 33.71
	436.50	0.31	152.24	436.50	-0.41	-0.41	0.28	0.22	461468.72	713592.58	N 32 16 2.72	W 103 46 33.71
	467.50	0.35	147.85	467.50	-0.56	-0.56	0.37	0.15	461468.57	713592.67	N 32 16 2.72	W 103 46 33.71
	499.50	0.38	147.28	499.50	-0.73	-0.74	0.48	0.09	461468.39	713592.78	N 32 16 2.72	W 103 46 33.71
	530.50	0.40	153.65	530.50	-0.91	-0.92	0.59	0.15	461468.21	713592.89	N 32 16 2.72	W 103 46 33.71
Last Gyro	550.50	0.57	166.37	550.50	-1.07	-1.08	0.64	1.00	461468.05	713592.94	N 32 16 2.72	W 103 46 33.71
	665.00	0.08	171.84	664.99	-1.70	-1.71	0.79	0.43	461467.42	713593.09	N 32 16 2.71	W 103 46 33.70
	755.00	0.13	178.79	754.99	-1.87	-1.88	0.80	0.06	461467.25	713593.10	N 32 16 2.71	W 103 46 33.70
	846.00	0.06	158.67	845.99	-2.01	-2.02	0.82	0.08	461467.11	713593.12	N 32 16 2.71	W 103 46 33.70
	936.00	0.08	354.39	935.99	-1.99	-2.00	0.83	0.15	461467.13	713593.13	N 32 16 2.71	W 103 46 33.70
	1027.00	0.01	76.76	1026.99	-1.93	-1.94	0.83	0.09	461467.19	713593.13	N 32 16 2.71	W 103 46 33.70
	1117.00	0.06	130.38	1116.99	-1.96	-1.97	0.87	0.06	461467.16	713593.17	N 32 16 2.71	W 103 46 33.70
	1208.00	0.08	246.74	1207.99	-2.01	-2.02	0.85	0.13	461467.11	713593.15	N 32 16 2.71	W 103 46 33.70
	1298.00	0.05	291.86	1297.99	-2.03	-2.03	0.76	0.06	461467.10	713593.06	N 32 16 2.71	W 103 46 33.70
	1393.00	0.08	193.75	1392.99	-2.08	-2.08	0.70	0.11	461467.05	713593.00	N 32 16 2.71	W 103 46 33.71
	1487.00	0.13	138.08	1486.99	-2.22	-2.23	0.76	0.11	461466.90	713593.06	N 32 16 2.70	W 103 46 33.70
	1582.00	0.12	214.38	1581.99	-2.38	-2.39	0.77	0.16	461466.74	713593.07	N 32 16 2.70	W 103 46 33.70
	1677.00	0.13	76.84	1676.99	-2.44	-2.45	0.82	0.25	461466.68	713593.12	N 32 16 2.70	W 103 46 33.70
	1771.00	0.05	341.21	1770.99	-2.37	-2.38	0.91	0.15	461466.75	713593.21	N 32 16 2.70	W 103 46 33.70
	1866.00	0.14	278.36	1865.99	-2.32	-2.33	0.79	0.13	461466.80	713593.09	N 32 16 2.70	W 103 46 33.70
	1961.00	0.08	54.99	1960.99	-2.26	-2.27	0.73	0.22	461466.86	713593.03	N 32 16 2.70	W 103 46 33.71
	2055.00	0.01	203.72	2054.99	-2.23	-2.24	0.78	0.09	461466.89	713593.08	N 32 16 2.70	W 103 46 33.70
	2150.00	0.05	329.25	2149.99	-2.21	-2.21	0.75	0.06	461466.92	713593.05	N 32 16 2.70	W 103 46 33.70
	2244.00	0.12	329.01	2243.99	-2.09	-2.09	0.68	0.07	461467.04	713592.98	N 32 16 2.71	W 103 46 33.71
	2339.00	0.01	208.92	2338.99	-2.01	-2.02	0.62	0.13	461467.11	713592.92	N 32 16 2.71	W 103 46 33.71
	2433.00	0.09	4.33	2432.99	-1.94	-1.95	0.63	0.11	461467.18	713592.93	N 32 16 2.71	W 103 46 33.71
	2528.00	0.13	66.91	2527.99	-1.82	-1.83	0.73	0.13	461467.30	713593.03	N 32 16 2.71	W 103 46 33.70
	2623.00	0.37	190.87	2622.99	-2.08	-2.09	0.77	0.48	461467.04	713593.07	N 32 16 2.71	W 103 46 33.70
	2717.00	0.80	186.76	2716.99	-3.03	-3.04	0.64	0.46	461466.09	713592.94	N 32 16 2.70	W 103 46 33.71
	2812.00	1.62	195.98	2811.97	-4.99	-4.99	0.19	0.88	461464.14	713592.49	N 32 16 2.68	W 103 46 33.71
	2907.00	2.73	198.80	2906.90	-8.43	-8.42	-0.91	1.17	461460.71	713591.39	N 32 16 2.64	W 103 46 33.72
	3001.00	4.09	197.75	3000.73	-13.77	-13.74	-2.65	1.45	461455.39	713589.65	N 32 16 2.59	W 103 46 33.75
	3096.00	5.31	197.42	3095.41	-21.21	-21.16	-5.00	1.28	461447.97	713587.30	N 32 16 2.52	W 103 46 33.77
	3191.00	5.70	194.84	3189.97	-30.00	-29.91	-7.53	0.49	461439.22	713584.77	N 32 16 2.43	W 103 46 33.80
	3286.00	5.63	190.55	3284.50	-39.16	-39.05	-9.59	0.45	461430.08	713582.71	N 32 16 2.34	W 103 46 33.83
	3380.00	4.42	192.48	3378.14	-47.25	-47.12	-11.21	1.30	461422.01	713581.09	N 32 16 2.26	W 103 46 33.85
	3475.00	3.51	184.71	3472.91	-53.74	-53.60	-12.24	1.11	461415.54	713580.06	N 32 16 2.20	W 103 46 33.86
	3570.00	3.88	167.27	3567.72	-59.76	-59.63	-11.77	1.24	461409.50	713580.53	N 32 16 2.14	W 103 46 33.85
	3664.00	2.03	146.45	3661.59	-64.23	-64.12	-10.15	2.24	461405.01	713582.15	N 32 16 2.09	W 103 46 33.84
	3759.00	0.13	103.81	3756.57	-65.65	-65.55	-9.12	2.04	461403.59	713583.18	N 32 16 2.08	W 103 46 33.82
	3854.00	0.13	94.14	3851.57	-65.68	-65.58	-8.91	0.02	461403.55	713583.39	N 32 16 2.08	W 103 46 33.82
	3948.00	0.12	175.31	3945.57	-65.79	-65.69	-8.79	0.17	461403.45	713583.51	N 32 16 2.08	W 103 46 33.82
	4043.00	0.08	114.40	4040.57	-65.91	-65.81	-8.72	0.11	461403.32	713583.58	N 32 16 2.08	W 103 46 33.82
	4137.00	0.01	324.02	4134.57	-65.93	-65.83	-8.67	0.09	461403.30	713583.63	N 32 16 2.08	W 103 46 33.82
	4232.00	0.12	31.51	4229.57	-65.84	-65.74	-8.62	0.12	461403.39	713583.68	N 32 16 2.08	W 103 46 33.82
	4286.00	0.05	103.11	4283.57	-65.80	-65.70	-8.57	0.21	461403.43	713583.73	N 32 16 2.08	W 103 46 33.82
	4468.00	0.09	162.60	4465.57	-65.95	-65.85	-8.45	0.04	461403.28	713583.85	N 32 16 2.07	W 103 46 33.82
	4499.00	0.12	287.34	4496.57	-65.96	-65.87	-8.47	0.60	461403.27	713583.83	N 32 16 2.07	W 103 46 33.82
	4594.00	0.11	259.61	4591.57	-65.95	-65.85	-8.66	0.06	461403.28	713583.64	N 32 16 2.07	W 103 46 33.82
	4688.00	0.14	295.89	4685.57	-65.92	-65.82	-8.85	0.09	461403.31	713583.45	N 32 16 2.08	W 103 46 33.82
	4783.00	0.14	254.92	4780.57	-65.90	-65.80	-9.07	0.10	461403.33	713583.23	N 32 16 2.08	W 103 46 33.82
	4878.00	0.13	138.29	4875.57	-66.01	-65.91	-9.11	0.24	461403.22	713583.19	N 32 16 2.07	W 103 46 33.82
	4972.00	0.10	64.70	4969.57	-66.06	-65.96	-8.96	0.15	461403.18	713583.34	N 32 16 2.07	W 103 46 33.82
	5067.00	0.12	47.77	5064.57	-65.95	-65.85	-8.81	0.04	461403.28	713583.49	N 32 16 2.08	W 103 46 33.82
	5161.00	0.07	176.82	5158.57	-65.94	-65.84	-8.74	0.18	461403.29	713583.56	N 32 16 2.08	W 103 46 33.82
	5256.00	0.11	87.71	5253.57	-66.00	-65.90	-8.64	0.14	461403.24	713583.66	N 32 16 2.07	W 103 46 33.82
	5351.00	0.11	239.48	5348.57	-66.04	-65.94	-8.63	0.22	461403.19	713583.67	N 32 16 2.07	W 103 46 33.82
	5445.00	0.10	223.34	5442.57	-66.14	-66.05	-8.76	0.03	461403.09	713583.54	N 32 16 2.07	W 103 46 33.82
	5540.00	0.11	342.09	5537.57	-66.12	-66.02	-8.85	0.19	461403.11	713583.45	N 32 16 2.07	W 103 46 33.82
	5635.00	0.12	11.93	5632.57	-65.94	-65.84	-8.86	0.06	461403.30	713583.44	N 32 16 2.08	W 103 46 33.82
	5729.00	0.13	42.30	5726.57	-65.76	-65.66	-8.76	0.07	461403.47	713583.54	N 32 16 2.08	W 103 46 33.82
	5824.00	0.11	92.84	5821.57	-65.68	-65.59	-8.60	0.11	461403.55	713583.70	N 32 16 2.08	W 103 46 33.82
	5919.00	0.10	289.96	5916.57	-65.66	-65.56	-8.59	0.22	461403.57	713583.71	N 32 16 2.08	W 103 46 33.82
	6013.00	0.13	359.58	6010.57	-65.52	-65.43	-8.67	0.14	461403.71	713583.64	N 32 16 2.08	W 103 46 33.82
	6108.00	0.09	89.12	6105.57	-65.41	-65.32	-8.59	0.17	461403.82	713583.71	N 32 16 2.08	W 103 46 33.82
	6203.00	0.12	206.74	6200.57	-65.50	-65.41	-8.56	0.19	461403.73	713583.74	N 32 16 2.08	W 103 46 33.82

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 ° ' ")
	6297.00	0.11	77.41	6294.57	-65.57	-65.47	-8.52	0.22	461403.66	713583.78	N 32 16 2.08	W 103 46 33.82
	6392.00	0.09	278.30	6389.57	-65.54	-65.44	-8.50	0.21	461403.69	713583.80	N 32 16 2.08	W 103 46 33.82
	6487.00	0.23	156.13	6484.57	-65.70	-65.61	-8.50	0.30	461403.53	713583.80	N 32 16 2.08	W 103 46 33.82
	6581.00	0.16	173.83	6578.57	-66.00	-65.91	-8.41	0.10	461403.22	713583.89	N 32 16 2.07	W 103 46 33.82
	6676.00	0.11	192.16	6673.57	-66.23	-66.13	-8.41	0.07	461403.00	713583.89	N 32 16 2.07	W 103 46 33.82
	6770.00	0.08	27.90	6767.57	-66.26	-66.16	-8.40	0.20	461402.97	713583.90	N 32 16 2.07	W 103 46 33.82
	6865.00	0.14	260.53	6862.57	-66.22	-66.12	-8.49	0.21	461403.01	713583.82	N 32 16 2.07	W 103 46 33.82
	6959.00	0.10	309.26	6956.57	-66.19	-66.09	-8.66	0.11	461403.04	713583.64	N 32 16 2.07	W 103 46 33.82
	7054.00	0.07	120.15	7051.57	-66.16	-66.07	-8.68	0.18	461403.07	713583.62	N 32 16 2.07	W 103 46 33.82
	7148.00	0.14	225.45	7145.57	-66.27	-66.18	-8.71	0.18	461402.96	713583.59	N 32 16 2.07	W 103 46 33.82
	7243.00	0.08	118.98	7240.57	-66.39	-66.29	-8.73	0.19	461402.85	713583.57	N 32 16 2.07	W 103 46 33.82
	7338.00	0.08	255.35	7335.57	-66.44	-66.34	-8.74	0.16	461402.80	713583.56	N 32 16 2.07	W 103 46 33.82
	7432.00	0.07	265.62	7429.57	-66.46	-66.36	-8.86	0.02	461402.78	713583.44	N 32 16 2.07	W 103 46 33.82
	7527.00	0.10	203.97	7524.57	-66.54	-66.44	-8.95	0.10	461402.69	713583.35	N 32 16 2.07	W 103 46 33.82
	7622.00	0.11	246.10	7619.57	-66.65	-66.55	-9.07	0.08	461402.58	713583.23	N 32 16 2.07	W 103 46 33.82
	7716.00	0.02	235.83	7713.57	-66.70	-66.60	-9.16	0.10	461402.54	713583.14	N 32 16 2.07	W 103 46 33.82
	7811.00	3.46	217.72	7808.51	-69.00	-68.87	-10.93	3.62	461400.26	713581.37	N 32 16 2.05	W 103 46 33.84
	7905.00	5.46	205.21	7902.22	-75.33	-75.17	-14.57	2.35	461393.97	713577.73	N 32 16 1.98	W 103 46 33.89
	8000.00	5.37	197.72	7996.80	-83.69	-83.49	-17.85	0.75	461385.65	713574.45	N 32 16 1.90	W 103 46 33.93
	8094.00	6.17	185.77	8090.32	-92.93	-92.71	-19.70	1.53	461376.43	713572.60	N 32 16 1.81	W 103 46 33.95
	8189.00	5.77	127.25	8184.89	-100.87	-100.68	-16.41	6.15	461368.45	713575.89	N 32 16 1.73	W 103 46 33.91
	8283.00	5.11	107.79	8278.47	-104.92	-104.82	-8.66	2.07	461364.31	713583.64	N 32 16 1.69	W 103 46 33.82
	8378.00	4.58	118.51	8373.14	-107.93	-107.93	-1.30	1.10	461361.21	713591.00	N 32 16 1.66	W 103 46 33.73
	8472.00	4.96	149.06	8466.83	-113.15	-113.20	4.09	2.70	461355.93	713596.39	N 32 16 1.61	W 103 46 33.67
	8567.00	4.99	159.26	8561.47	-120.49	-120.59	7.66	0.93	461348.55	713599.96	N 32 16 1.53	W 103 46 33.63
	8661.00	4.98	160.32	8655.11	-128.12	-128.25	10.49	0.10	461340.88	713602.79	N 32 16 1.46	W 103 46 33.60
	8756.00	4.47	156.14	8749.79	-135.36	-135.52	13.37	0.65	461333.62	713605.67	N 32 16 1.38	W 103 46 33.57
	8850.00	4.38	143.06	8843.51	-141.53	-141.74	17.01	1.08	461327.40	713609.31	N 32 16 1.32	W 103 46 33.52
	8945.00	5.16	136.43	8938.18	-147.47	-147.74	22.14	1.00	461321.40	713614.44	N 32 16 1.26	W 103 46 33.46
	9039.00	6.68	128.80	9031.68	-153.87	-154.23	29.31	1.82	461314.91	713621.61	N 32 16 1.20	W 103 46 33.38
	9134.00	8.45	124.05	9125.85	-161.13	-161.60	39.40	1.97	461307.54	713631.70	N 32 16 1.13	W 103 46 33.26
	9228.00	8.72	128.27	9218.80	-169.27	-169.88	50.72	0.73	461299.26	713643.02	N 32 16 1.04	W 103 46 33.13
	9323.00	7.98	135.73	9312.79	-178.34	-179.06	60.98	1.38	461290.08	713653.27	N 32 16 0.95	W 103 46 33.01
	9417.00	7.09	140.34	9405.98	-187.38	-188.20	69.23	1.14	461280.94	713661.53	N 32 16 0.86	W 103 46 32.92
	9512.00	6.60	149.41	9500.31	-196.51	-197.41	75.75	1.25	461271.73	713668.05	N 32 16 0.77	W 103 46 32.84
	9606.00	5.82	148.68	9593.76	-205.18	-206.13	80.98	0.83	461263.01	713673.27	N 32 16 0.68	W 103 46 32.78
	9700.00	5.17	154.25	9687.32	-213.01	-214.02	85.30	0.89	461255.12	713677.59	N 32 16 0.60	W 103 46 32.73
	9794.00	5.93	152.69	9780.88	-221.09	-222.15	89.37	0.82	461246.99	713681.66	N 32 16 0.52	W 103 46 32.69
	9889.00	7.05	154.60	9875.27	-230.66	-231.78	94.12	1.20	461237.37	713686.41	N 32 16 0.43	W 103 46 32.63
	9984.00	7.80	161.03	9969.48	-241.97	-243.14	98.71	1.18	461226.01	713691.01	N 32 16 0.32	W 103 46 32.58
	10078.00	7.41	162.84	10062.65	-253.75	-254.96	102.58	0.49	461214.18	713694.87	N 32 16 0.20	W 103 46 32.53
	10173.00	8.02	158.56	10156.79	-265.72	-266.98	106.81	0.88	461202.16	713699.10	N 32 16 0.08	W 103 46 32.49
	10267.00	9.08	157.41	10249.74	-278.61	-279.94	112.05	1.14	461189.21	713704.35	N 32 15 59.95	W 103 46 32.43
	10362.00	10.38	153.93	10343.38	-293.14	-294.55	118.69	1.50	461174.60	713710.99	N 32 15 59.81	W 103 46 32.35
	10456.00	10.21	151.85	10435.86	-308.01	-309.50	126.34	0.43	461159.65	713718.64	N 32 15 59.66	W 103 46 32.26
	10551.00	8.06	147.92	10529.65	-320.99	-322.57	133.86	2.36	461146.58	713726.15	N 32 15 59.53	W 103 46 32.17
	10646.00	7.78	145.13	10623.75	-331.82	-333.49	141.07	0.50	461135.66	713733.36	N 32 15 59.42	W 103 46 32.09
	10740.00	7.00	152.61	10716.97	-342.05	-343.79	147.34	1.32	461125.36	713739.63	N 32 15 59.32	W 103 46 32.02
	10835.00	6.13	156.09	10811.35	-351.77	-353.57	152.06	1.01	461115.58	713744.35	N 32 15 59.22	W 103 46 31.96
	10930.00	6.27	157.08	10905.79	-361.14	-362.98	156.14	0.19	461106.17	713748.43	N 32 15 59.13	W 103 46 31.92
	10992.00	6.79	157.37	10967.39	-367.61	-369.49	158.87	0.84	461099.67	713751.16	N 32 15 59.06	W 103 46 31.89
KOP Actual	11026.00	6.97	158.06	11001.14	-371.36	-373.25	160.41	0.58	461095.90	713752.70	N 32 15 59.02	W 103 46 31.87
	11121.00	8.46	136.72	11095.30	-381.71	-383.69	167.36	3.37	461085.46	713759.65	N 32 15 58.92	W 103 46 31.79
	11215.00	12.09	42.01	11188.30	-379.29	-381.40	178.75	16.26	461087.76	713771.04	N 32 15 58.94	W 103 46 31.65
	11310.00	19.46	13.63	11279.78	-356.33	-358.56	189.17	11.02	461110.59	713781.46	N 32 15 59.17	W 103 46 31.53
	11404.00	23.09	350.79	11367.51	-322.85	-325.08	189.91	9.55	461144.07	713782.20	N 32 15 59.50	W 103 46 31.52
Wolfcamp Intersection	*11472.02*	*31.21*	*344.99*	*11428.00*	*-292.68*	*-294.84*	*183.20*	*12.54*	*461174.31*	*713775.49*	*N 32 15 59.80*	*W 103 46 31.60*
	11499.00	34.48	343.40	11450.66	-278.66	-280.76	179.21	12.54	461188.38	713771.50	N 32 15 59.94	W 103 46 31.64
	11593.00	42.69	350.41	11524.11	-221.77	-223.72	166.27	9.88	461245.42	713758.56	N 32 16 0.50	W 103 46 31.79
	11645.00	50.38	358.04	11559.89	-184.33	-186.23	162.64	18.20	461282.91	713754.93	N 32 16 0.88	W 103 46 31.83
	11689.00	55.06	5.18	11586.55	-149.37	-151.29	163.69	16.72	461317.85	713755.98	N 32 16 1.22	W 103 46 31.82
	11784.00	61.14	4.78	11636.73	-68.98	-70.98	170.68	6.41	461398.16	713762.97	N 32 16 2.02	W 103 46 31.73
	11878.00	70.72	2.39	11675.03	16.63	14.58	175.97	10.45	461483.71	713768.26	N 32 16 2.86	W 103 46 31.66
	11973.00	84.01	1.25	11695.76	109.10	107.02	178.88	14.04	461576.14	713771.17	N 32 16 3.78	W 103 46 31.62
	12068.00	93.88	3.13	11697.51	203.93	201.81	182.51	10.58	461670.93	713774.80	N 32 16 4.71	W 103 46 31.58
LL Crossed	*12144.00*	*94.41*	*1.89*	*11692.02*	*279.69*	*277.54*	*185.83*	*1.77*	*461746.65*	*713778.12*	*N 32 16 5.46*	*W 103 46 31.53*
	12172.00	94.60	1.43	11689.82	307.60	305.44	186.64	1.77	461774.55	713778.93	N 32 16 5.74	W 103 46 31.52
100' FSL Crossed	*12244.00*	*93.75*	*0.91*	*11684.58*	*379.40*	*377.23*	*188.10*	*1.38*	*461846.34*	*713780.39*	*N 32 16 6.45*	*W 103 46 31.50*
	12267.00	93.48	0.74	11683.13	402.36	400.19	188.43	1.38	461869.29	713780.72	N 32 16 6.68	W 103 46 31.49
	12361.00	92.94	1.44	11677.86	496.20	494.02	190.22	0.94	461963.12	713782.51	N 32 16 7.60	W 103 46 31.47
	12456.00	91.39	1.40	11674.28	591.13	588.92	192.57	1.63	462058.02	713784.86	N 32 16 8.54	W 103 46 31.43
	12550.00	87.33	0.04	11675.33	685.10	682.89	193.75	4.55	462151.98	713786.04	N 32 16 9.47	W 103 46 31.42
	12645.00	86.95	358.82	11680.07	779.96	777.76	192.81	1.34	462246.85	713785.10	N 32 16 10.41	W 103 46 31.42
	12740.00	86.73	357.91	11685.30	874.73	872.58	190.10	0.98	462341.66	713782.39	N 32 16 11.35	W 103 46 31.45
	12835.00	89.45	359.75	11688.47	969.62	967.49	188.16	3.46	462436.56	713780.45	N 32 16 12.29	W 103 46 31.46
	12929.00	87.24	358.24	11691.18	1063.53	1061.43	186.52	2.85	462530.50	713778.81	N 32 16 13.22	W 103 46 31.48
	13024.00	87.63	358.94	11695.44	1158.37	1156.30	184.18	0.84	462625.37	713776.47	N 32 16 14.16	W 103 46 31.50
	13118.00	88.10	358.81	11698.94	1252.26	1250.22	182.34	0.52	462719.28	713774.63	N 32 16 15.09	W 103 46 31.51
	13213.00	88.22	358.44	11701.99	1347.15	1345.14	180.06	0.41	462814.20	713772.35	N 32 16 16.03	W 103 46 31.53
	13308.00	90.03	359.49	11703.44	1442.09	1440.11	178.34	2.20	462909.16	713770.63	N 32 16 16.97	W 103 46 31.55
	13402.00	90.87	0.68	11702.70	1536.08	1534.11	178.48	1.55	463003.15	713770.77	N 32 16 17.90	W 103 46 31.54
	13591.00	90.14	358.83	11701.03	1725.04	1723.09	177.67	1.05	463192.12	713769.96	N 32 16 19.77	W 103 46 31.54
	13686.00	88.26	358.69	11702.36	1819.98	1818.05	175.62	1.98	463287.08	713767.91	N 32 16 20.71	W 103 46 31.56
	13780.00	88.59	359.54	11704.94	1913.91	1912.01	174.17	0.97	463381.02	713766.46	N 32 16 21.64	W 103 46 31.57
	13875.00	88.70	359.57	11707.19	2008.86	2006.98	173.43	0.12	463475.99	713765.72	N 32 16 22.58	W 103 46 31.57
	13970.00	89.15	359.44	11708.97	2103.82	2101.96	172.61	0.49	463570.96	713764.90	N 32 16 23.52	W 103 46 31.58
	14065.00	89.57	358.40	11710.03	2198.77	2196.93	170.82	1.18	463665.93	713763.11	N 32 16 24.46	W 103 46 31.59
	14253.00	89.66	358.38	11711.30	2386.62	2384.85	165.54	0.05	463853.84	713757.83	N 32 16 26.32	W 103 46 31.64
	14442.00	89.56	359.09	11712.58	2575.51	2573.80	161.36	0.38	464042.78	713753.65	N 32 16 28.19	W 103 46 31.68
	14536.00	89.80	358.50	11713.11	2669.45	2667.78	159.39	0.68	464136.75	713751.68	N 32 16 29.12	W 103 46 31.70
	14631.00	89.28	359.42	11713.87	2764.41	2762.76	157.66	1.11	464231.73	713749.95	N 32 16 30.06	W 103 46 31.71
	14820.00	87.01	357.31	11719.99	2953.13	2951.56	152.28	1.64	464420.52	713744.57	N 32 16 31.92	W 103 46 31.76
	15010.00	89.89	356.62	11725.13	3142.65	3141.20	142.22	1.56	464610.15	713734.51	N 32 16 33.80	W 103 46 31.87
	15103.00	90.39	359.30	11724.90	3235.53	3234.13	138.91	2.93	464703.07	713731.20	N 32 16 34.72	W 103 46 31.90
	15198.00	90.70	0.27	11724.00	3330.52	3329.13	138.55	1.07	464798.06	713730.85	N 32 16 35.66	W 103 46 31.90
	15387.00	91.30	358.69	11720.70	3519.44	3518.08	136.84	0.89	464987.01	713729.13	N 32 16 37.53	W 103 46 31.91
	15576.00	90.54	2.33	11717.66	3708.38	3707.02	138.52	1.97	465175.93	713730.81	N 32 16 39.40	W 103 46 31.88
	15764.00	89.79	0.80	11717.12	3896.35	3894.94	143.66	0.91	465363.84	713735.95	N 32 16 41.26	W 103 46 31.80
	15859.00	90.34	0.84	11717.01	3991.35	3989.93	145.02	0.58	465458.83	713737.31	N 32 16 42.20	W 103 46 31.78
	15953.00	88.95	358.84	11717.60	4085.33	4083.92	144.75	2.59	465552.81	713737.04	N 32 16 43.13	W 103 46 31.78
	16142.00	90.15	0.58	11719.08	4274.29	4272.90	143.80	1.12	465741.78	713736.09	N 32 16 45.00	W 103 46 31.78
	16331.00	89.34	358.15	11719.92	4463.22	4461.87	141.70	1.36	465930.74	713733.99	N 32 16 46.87	W 103 46 31.79
	16520.00	91.38	2.06	11718.73	4652.16	4650.82	142.05	2.33	466119.68	713734.34	N 32 16 48.74	W 103 46 31.78
	16614.00	88.92	0.19	11718.49	4746.15	4744.79	143.89	3.29	466213.64	713736.18	N 32 16 49.67	W 103 46 31.75
	16804.00	90.04	0.88	11720.21	4936.14	4934.77	145.67	0.69	466403.61	713737.96	N 32 16 51.55	W 103 46 31.72
	16898.00	89.24	0.23	11720.80	5030.13	5028.77	146.58	1.10	466497.60	713738.87	N 32 16 52.48	W 103 46 31.70
	17088.00	89.11	2.13	11723.54	5220.10	5218.70	150.49	1.00	466687.52	713742.78	N 32 16 54.36	W 103 46 31.64

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 ° ' ")
	17182.00	88.75	359.75	11725.29	5314.07	5312.66	152.03	2.56	466781.48	713744.32	N 32 16 55.29	W 103 46 31.62
	17276.00	88.57	359.39	11727.49	5408.03	5406.63	151.33	0.43	466875.44	713743.62	N 32 16 56.22	W 103 46 31.62
	17465.00	88.41	0.30	11732.47	5596.94	5595.56	150.82	0.49	467064.36	713743.11	N 32 16 58.09	W 103 46 31.62
	17555.00	89.44	1.39	11736.04	5786.90	5785.50	153.62	0.79	467254.29	713745.91	N 32 16 59.97	W 103 46 31.57
	17749.00	90.15	1.68	11736.37	5880.89	5879.47	156.14	0.82	467348.25	713748.43	N 32 17 0.90	W 103 46 31.54
	17844.00	89.98	1.63	11736.27	5975.88	5974.43	158.88	0.19	467443.21	713751.17	N 32 17 1.83	W 103 46 31.50
	17939.00	89.49	0.42	11736.71	6070.87	6069.41	160.58	1.37	467538.18	713752.87	N 32 17 2.77	W 103 46 31.48
	18127.00	88.53	354.39	11739.96	6258.45	6257.10	152.07	3.25	467725.86	713744.36	N 32 17 4.63	W 103 46 31.56
	18222.00	89.33	359.32	11741.73	6353.19	6351.91	146.86	5.26	467820.67	713739.16	N 32 17 5.57	W 103 46 31.62
	18317.00	88.80	357.92	11743.28	6448.12	6446.87	144.58	1.58	467915.62	713736.87	N 32 17 6.51	W 103 46 31.64
	18506.00	88.97	356.94	11746.96	6636.78	6635.64	136.10	0.53	468104.38	713728.40	N 32 17 8.38	W 103 46 31.73
	18600.00	86.83	355.07	11750.41	6730.39	6729.34	129.56	3.02	468198.07	713721.85	N 32 17 9.31	W 103 46 31.80
	18694.00	88.36	355.77	11754.35	6823.91	6822.95	122.06	1.79	468291.68	713714.35	N 32 17 10.23	W 103 46 31.88
	18789.00	88.36	354.70	11757.07	6918.45	6917.59	114.17	1.13	468386.31	713706.47	N 32 17 11.17	W 103 46 31.96
	18883.00	88.12	357.49	11759.96	7012.09	7011.31	107.78	2.98	468480.03	713700.07	N 32 17 12.10	W 103 46 32.03
	18977.00	87.93	359.57	11763.20	7105.97	7105.22	105.37	2.22	468573.93	713697.66	N 32 17 13.03	W 103 46 32.06
	19072.00	88.54	359.66	11766.12	7200.91	7200.17	104.73	0.65	468668.88	713697.02	N 32 17 13.97	W 103 46 32.06
	19166.00	90.01	1.51	11767.31	7294.89	7294.15	105.69	2.51	468762.86	713697.98	N 32 17 14.90	W 103 46 32.04
	19261.00	91.95	4.81	11765.69	7389.77	7388.98	110.92	4.03	468857.67	713703.22	N 32 17 15.83	W 103 46 31.97
	19451.00	92.06	2.97	11759.04	7579.35	7578.42	123.80	0.97	469047.10	713716.10	N 32 17 17.71	W 103 46 31.81
	19545.00	89.09	0.65	11758.09	7673.30	7672.35	126.77	4.01	469141.03	713719.06	N 32 17 18.64	W 103 46 31.77
	19640.00	88.78	0.79	11759.86	7768.29	7767.32	127.96	0.36	469236.00	713720.26	N 32 17 19.58	W 103 46 31.75
	19735.00	89.46	1.45	11761.32	7863.27	7862.29	129.82	1.00	469330.96	713722.11	N 32 17 20.52	W 103 46 31.73
	19829.00	89.60	1.08	11762.09	7957.26	7956.27	131.90	0.42	469424.93	713724.19	N 32 17 21.45	W 103 46 31.70
	20018.00	89.11	4.18	11764.22	8146.12	8145.03	140.57	1.66	469613.68	713732.86	N 32 17 23.31	W 103 46 31.58
Exit Target Box	*20098.00*	*93.59*	*5.33*	*11762.33*	*8225.87*	*8224.71*	*147.20*	*5.78*	*469693.36*	*713739.49*	*N 32 17 24.10*	*W 103 46 31.50*
	20113.00	94.43	5.55	11761.29	8240.78	8239.61	148.62	5.78	469708.25	713740.91	N 32 17 24.25	W 103 46 31.48
	20207.00	93.34	3.02	11754.92	8334.37	8333.12	155.62	2.92	469801.76	713747.91	N 32 17 25.17	W 103 46 31.40
	20301.00	92.83	2.38	11749.86	8428.17	8426.88	160.04	0.87	469895.51	713752.33	N 32 17 26.10	W 103 46 31.34
	20396.00	91.65	0.33	11746.14	8523.09	8521.78	162.29	2.49	469990.40	713754.58	N 32 17 27.04	W 103 46 31.31
	20491.00	90.32	359.09	11744.51	8618.06	8616.76	161.81	1.91	470085.38	713754.10	N 32 17 27.98	W 103 46 31.31
	20586.00	88.80	357.64	11745.24	8712.97	8711.71	159.09	2.21	470180.33	713751.39	N 32 17 28.92	W 103 46 31.33
	20680.00	88.07	357.01	11747.81	8806.78	8805.57	154.71	1.03	470274.18	713747.00	N 32 17 29.85	W 103 46 31.38
	20775.00	87.18	355.64	11751.74	8901.42	8900.29	148.63	1.72	470368.90	713740.92	N 32 17 30.79	W 103 46 31.44
	20870.00	86.64	354.63	11756.86	8995.84	8994.81	140.58	1.20	470463.41	713732.87	N 32 17 31.72	W 103 46 31.53
Enter Target Box	*20907.00*	*86.22*	*353.97*	*11759.17*	*9032.54*	*9031.55*	*136.91*	*2.12*	*470500.15*	*713729.21*	*N 32 17 32.09*	*W 103 46 31.57*
	20965.00	85.56	352.93	11763.33	9089.93	9089.03	130.31	2.12	470557.62	713722.61	N 32 17 32.65	W 103 46 31.65
	21059.00	86.11	352.72	11770.15	9182.80	9182.04	118.60	0.63	470650.63	713710.90	N 32 17 33.58	W 103 46 31.78
	21154.00	86.55	353.79	11776.23	9276.81	9276.19	107.47	1.22	470744.77	713699.76	N 32 17 34.51	W 103 46 31.90
	21248.00	89.35	356.46	11779.60	9370.30	9369.77	99.49	4.11	470838.35	713691.78	N 32 17 35.43	W 103 46 31.99
	21343.00	90.27	358.17	11779.91	9465.13	9464.66	95.04	2.04	470933.24	713687.33	N 32 17 36.37	W 103 46 32.03
	21438.00	90.01	358.97	11779.68	9560.06	9559.63	92.67	0.89	471028.20	713684.96	N 32 17 37.31	W 103 46 32.06
	21532.00	91.94	0.83	11778.08	9654.03	9653.61	92.50	2.85	471122.17	713684.80	N 32 17 38.24	W 103 46 32.05
	21627.00	89.34	1.08	11777.02	9749.02	9748.58	94.09	2.75	471217.14	713686.38	N 32 17 39.18	W 103 46 32.03
	21721.00	89.21	1.66	11778.21	9843.00	9842.55	96.34	0.63	471311.10	713688.63	N 32 17 40.11	W 103 46 32.00
	21816.00	91.27	3.35	11777.81	9937.95	9937.45	100.49	2.80	471405.99	713692.78	N 32 17 41.05	W 103 46 31.94
	21911.00	88.94	2.95	11777.64	10032.85	10032.30	105.71	2.49	471500.84	713698.00	N 32 17 41.99	W 103 46 31.87
	22005.00	91.14	3.74	11777.57	10126.74	10126.13	111.19	2.49	471594.67	713703.48	N 32 17 42.92	W 103 46 31.81
	22099.00	89.39	3.51	11777.14	10220.61	10219.94	117.13	1.88	471688.47	713709.43	N 32 17 43.85	W 103 46 31.73
	22192.00	91.26	4.32	11776.61	10313.45	10312.72	123.48	2.19	471781.24	713715.78	N 32 17 44.76	W 103 46 31.65
	22287.00	91.93	5.78	11773.97	10408.14	10407.31	131.84	1.69	471875.82	713724.13	N 32 17 45.70	W 103 46 31.55
	22381.00	92.02	6.11	11770.73	10501.68	10500.75	141.57	0.36	471969.26	713733.86	N 32 17 46.62	W 103 46 31.43
Exit Target Box 2	*22459.00*	*91.92*	*6.07*	*11768.04*	*10579.29*	*10578.26*	*149.84*	*0.14*	*472046.77*	*713742.13*	*N 32 17 47.39*	*W 103 46 31.33*
	22475.00	91.90	6.06	11767.51	10595.21	10594.16	151.53	0.14	472062.67	713743.82	N 32 17 47.55	W 103 46 31.31
	22570.00	92.53	6.71	11763.84	10689.66	10688.50	162.09	0.95	472157.00	713754.38	N 32 17 48.48	W 103 46 31.18
100' FNL Crossed	*22623.00*	*92.62*	*7.26*	*11761.46*	*10742.29*	*10741.05*	*168.52*	*1.04*	*472209.55*	*713760.81*	*N 32 17 49.00*	*W 103 46 31.10*
	22664.00	92.69	7.68	11759.56	10782.96	10781.66	173.85	1.04	472250.16	713766.14	N 32 17 49.40	W 103 46 31.04
Final Survey	22668.00	92.77	7.71	11759.37	10786.92	10785.62	174.38	2.14	472254.12	713766.67	N 32 17 49.44	W 103 46 31.03
Proj to Bit	22700.00	92.77	7.71	11757.82	10818.64	10817.30	178.67	0.00	472285.79	713770.96	N 32 17 49.75	W 103 46 30.98

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 (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	30.000	1/98.425	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Iridium MDP1 28-21 Federal Com 176H Gyro + MWD 0-22700'MD
	1	30.000	30.000	Act Stns	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Iridium MDP1 28-21 Federal Com 176H Gyro + MWD 0-22700'MD
	1	30.000	550.500	Act Stns	30.000	30.000	GYD_GC+DROP+OH	Original Borehole / Oxy Iridium MDP1 28-21 Federal Com 176H
	1	550.500	22700.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Iridium MDP1 28-21 Federal Com 176H Gyro + MWD 0-22700'MD

Final PvA - Rev7

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OXY
EMNRD-OCD ARTESIA

H&P 556 (RKB=30')

Schlumberger

Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Iridium MDP1 28-21 Federal Com 176H	NM Eddy County (NAD 83)	Oxy Iridium MDP1 28-21 Federal Com 176H

Gravity & Magnetic Parameters

Model:	IFR1	Dip:	59.942°	Date:	28-Oct-2019
MagDec:	6.754°	FS:	47927.3nT	Gravity FS:	998.448mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

Lat:	N 32 18 2.73	Northing:	461469.13ftUS	Grid Conv:	0.2975°
Lon:	W 103 46 33.71	Easting:	713592.31ftUS	Scale Fact:	0.99994307

Miscellaneous

Slot: Oxy Iridium MDP1 28-21 Federal Com 176H
TVD Ref: RKB=30'(3433.1ft above MSL)
Plan: Oxy Iridium MDP1 28-21 Federal Com 176H Gyro + MWD 0-22700'MD

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
RKB	0.00	0.00	0.65	0.00	0.00	0.00	0.00	
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00
Last Gyro	550.50	0.57	166.37	550.50	-1.07	-1.08	0.64	1.00
KOP Actual	11026.00	6.97	158.06	11001.14	-371.36	-373.25	160.41	0.58
Wolfcamp Intersection	11472.02	31.21	344.99	11428.00	-292.68	-294.84	183.20	12.54
LL Crossed	12144.00	94.41	1.89	11692.02	279.69	277.54	185.83	1.77
100' FSL Crossed	12244.00	93.75	0.91	11684.58	379.40	377.23	188.10	1.38
Exit Target Box	20098.00	93.59	5.33	11762.33	8225.87	8224.71	147.20	5.78
Enter Target Box	20907.00	86.22	353.97	11759.17	9032.54	9031.55	136.91	2.12
Exit Target Box 2	22459.00	91.92	6.07	11768.04	10579.29	10578.26	149.84	0.14
100' FNL Crossed	22623.00	92.62	7.26	11761.46	10742.29	10741.05	168.52	1.04
Final Survey	22668.00	92.77	7.71	11759.37	10786.92	10785.62	174.38	2.14
Proj to Bit	22700.00	92.77	7.71	11757.82	10818.64	10817.30	178.67	0.00