

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 26 2019

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 Bravo 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

RECEIVED

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45232	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code 322245	Property Name PLATINUM MDP1 "34-3" FEDERAL COM	Well Number 174H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3424.2'

Surface Location

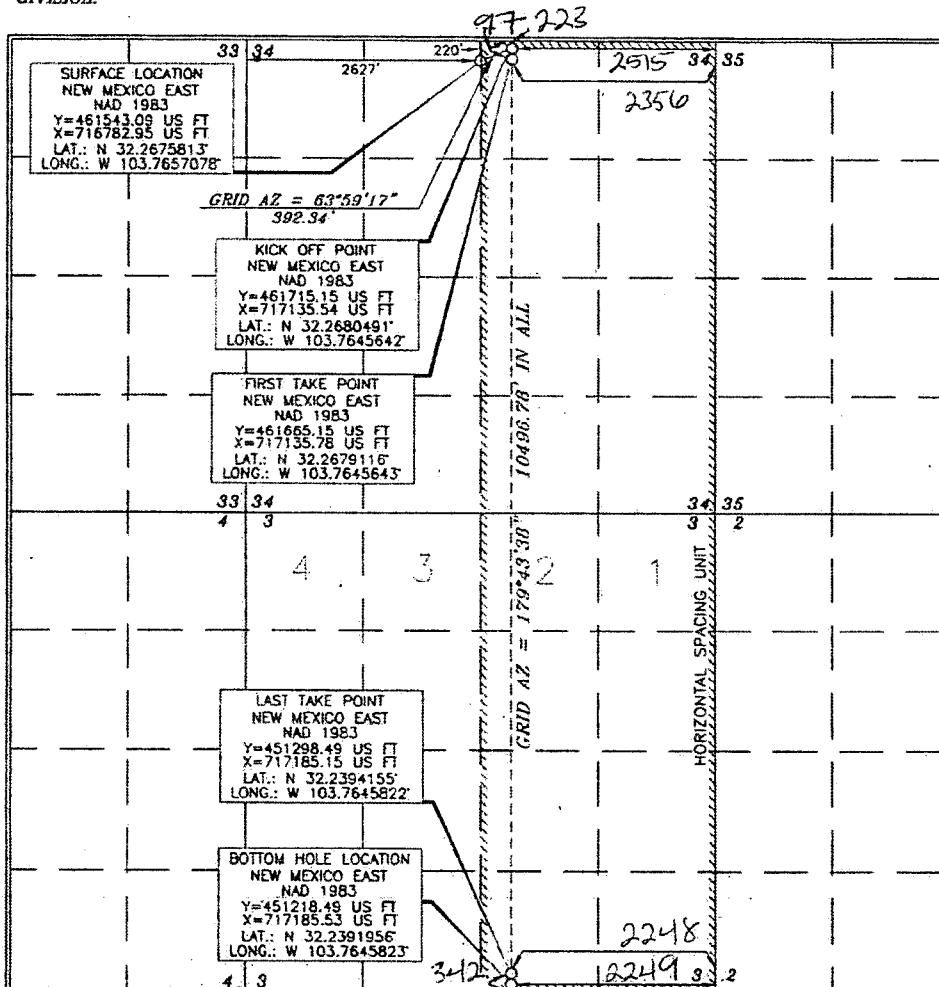
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	34	23 SOUTH	31 EAST, N.M.P.M.		220'	NORTH	2627'	WEST	EDDY

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
0	3	24 SOUTH	31 EAST, N.M.P.M.		197	SOUTH	2249	EAST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No. Approved NSL # 7838
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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 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 9/12/19
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.

15079
JANUARY 15, 2018
Date of Survey

Signature and Seal of
Professional Surveyor

15079
Certificate Number

SEP 26 2019

Intent ☐ As Drilled ☒

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API # 30-015-45232		
Operator Name: OXY USA Inc.	Property Name: Platinum HDPI 34-3 Federal Com	Well Number 174H

Kick Off Point (KOP)

UL B	Section 34	Township 23S	Range 31E	Lot	Feet 97	From N/S North	Feet 2515	From E/W east	County EDDY
Latitude 32.26792					Longitude -103.76526			NAD NAD83	

First Take Point (FTP)

UL B	Section 34	Township 23S	Range 31E	Lot	Feet 223	From N/S North	Feet 2356	From E/W east	County EDDY
Latitude 32.26759					Longitude -103.76474			NAD NAD83	

Last Take Point (LTP)

UL D	Section 3	Township 24S	Range 31E	Lot	Feet 342	From N/S South	Feet 2248	From E/W east	County EDDY
Latitude 32.24008					Longitude -103.76457			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

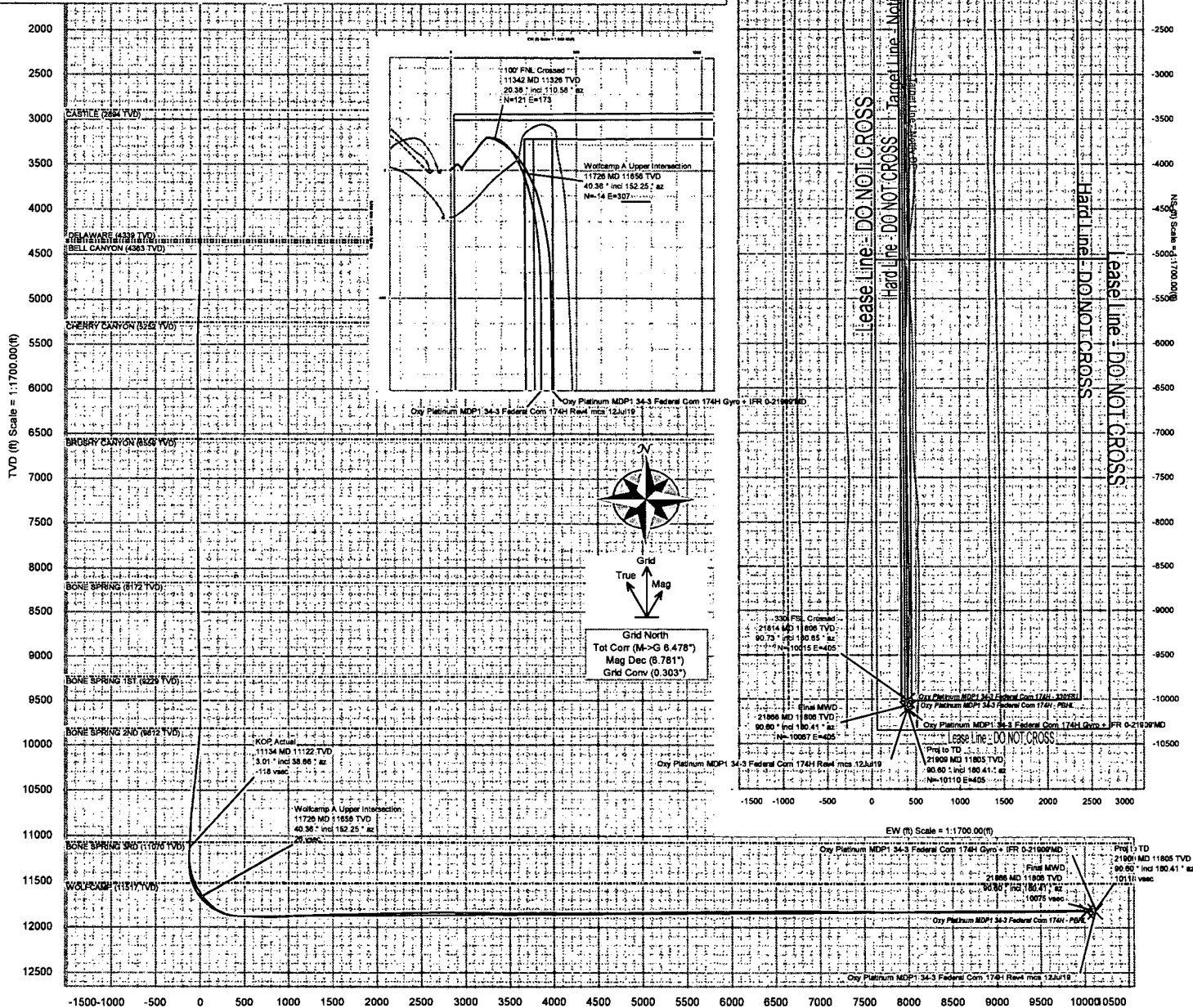
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Platinum MDP1 34-3 Federal Com 174H	NM Eddy County (NAD 83)	Oxy Platinum MDP1 34-3 Federal Com 174H

Gravity & Magnetic Parameters				Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous	
Model: IFR1	Dip: 58.977°	Date: 25-Jun-2019		Lat: N 32 16 3.29	Northing: 461643.091US	Grid Conv: 0.303°		Slot: MDP1 34-3 Federal Com	TVD Ref: RKB=26.5' (3450.76 above MSL)
MagDec: 6.781°	FS: 47967.3nT	Gravity FS: 988.448mgN (8.80465 Based)		Lon: W 103 46 56.66	Easting: 716782.968US	Scale Fact: 0.99994434		Plan: Oxy Platinum MDP1 34-3 Federal Com 174H Gyro + IFR 0-21909' MD	

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)	DLS
RKB	0.00	0.00	177.77	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	
Last Gyro	645.50	0.64	250.71	645.48	0.89	-1.06	-4.23	0.67
KOP Actual	11134.00	3.01	38.66	11122.49	-117.77	123.33	137.56	0.68
100' FNL Crossed	11342.00	20.36	110.58	11326.13	-114.11	121.09	173.27	7.85
Wolfcamp A Upper Intersection	11726.32	40.36	152.25	11656.00	25.71	-13.54	306.77	9.77
330' FSL Crossed	21814.00	90.73	180.65	11806.29	10022.71	-10014.52	405.26	0.89
Final MWD	21866.00	90.60	180.41	11805.62	10074.65	-10066.51	404.81	1.06
Proj to TD	21909.00	90.60	180.41	11805.17	10117.60	-10109.51	404.50	0.00



Vertical Section (ft) Azim = 177.72° Scale = 1:1700.00(ft) Origin = 0N-S, 0E-W

Oxy Platinum MDP1 34-3 Federal Com 174H Gyro + IFR 0-21909' MD Survey Geodetic Report (Def Survey)



NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 26 2019

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Report Date: July 23, 2019 - 09:08 AM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Platinum MDP1 34-3 Federal Com 174H / Oxy Platinum MDP1 34-3 Federal Com 174H Well: Oxy Platinum MDP1 34-3 Federal Com 174H Borehole: Original Borehole UWI / API#: Unknown / 30-015-45232 Survey Name: Oxy Platinum MDP1 34-3 Federal Com 174H Gyro + IFR 0-21909' MD Survey Date: June 21, 2019 Tort / AHD / DDI / ERD Ratio: 233.638 * / 10591.868 ft / 6.659 / 0.891 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 16' 3.29256", W 103° 45' 56.54816" Location Grid N/E Y/X: N 461543.090 NUS, E 716782.950 NUS CRS Grid Convergence Angle: 0.3030 * Grid Scale Factor: 0.99994434 Version / Patch: 2.10.760.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 177.724 * (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB=26.5' TVD Reference Elevation: 3450.700 ft above MSL Seabed / Ground Elevation: 3424.200 ft above MSL Magnetic Declination: 6.781 * Total Gravity Field Strength: 998.4477mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 47967.300 nT Magnetic Dip Angle: 59.977 * Declination Date: June 25, 2019 Magnetic Declination Model: IFR1 North Reference: Grid North Grid Convergence Used: 0.3030 * Total Corr Mag North->Grid North: 6.4780 * Local Coord Referenced To: Well Head	
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Comments	MD (ft)	Incl (°)	Azin Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
RKB	0.00	0.00	177.77	0.00	0.00	0.00	0.00	N/A	461543.09	716782.95	N 32 16 3.29	W 103 45 56.55
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461543.09	716782.95	N 32 16 3.29	W 103 45 56.55
	130.80	0.19	349.31	130.80	-0.17	0.17	-0.03	0.18	461543.26	716782.92	N 32 16 3.29	W 103 45 56.55
	159.90	0.16	333.19	159.90	-0.26	0.25	-0.06	0.20	461543.34	716782.89	N 32 16 3.30	W 103 45 56.55
	187.30	0.29	284.38	187.30	-0.31	0.30	-0.14	0.80	461543.39	716782.81	N 32 16 3.30	W 103 45 56.55
	216.60	0.39	277.48	216.60	-0.35	0.34	-0.31	0.37	461543.43	716782.64	N 32 16 3.30	W 103 45 56.55
	243.20	0.42	280.28	243.20	-0.39	0.37	-0.50	0.14	461543.46	716782.45	N 32 16 3.30	W 103 45 56.55
	300.60	0.52	261.01	300.60	-0.40	0.36	-0.96	0.32	461543.45	716781.99	N 32 16 3.30	W 103 45 56.56
	332.10	0.57	254.30	332.09	-0.35	0.30	-1.26	0.26	461543.39	716781.69	N 32 16 3.30	W 103 45 56.56
	363.60	0.70	249.36	363.59	-0.25	0.19	-1.59	0.45	461543.28	716781.36	N 32 16 3.29	W 103 45 56.57
	395.10	0.64	260.20	395.09	-0.17	0.09	-1.94	0.44	461543.18	716781.01	N 32 16 3.29	W 103 45 56.57
	426.70	0.60	247.19	426.69	-0.09	0.00	-2.27	0.46	461543.09	716780.68	N 32 16 3.29	W 103 45 56.57
	458.20	0.67	240.91	458.19	0.06	-0.16	-2.58	0.31	461542.93	716780.37	N 32 16 3.29	W 103 45 56.58
	489.70	0.58	247.81	489.69	0.19	-0.31	-2.89	0.37	461542.78	716780.06	N 32 16 3.29	W 103 45 56.58
	521.20	0.59	236.63	521.18	0.33	-0.46	-3.17	0.36	461542.63	716779.78	N 32 16 3.29	W 103 45 56.59
	552.70	0.54	242.09	552.68	0.48	-0.62	-3.44	0.23	461542.47	716779.51	N 32 16 3.29	W 103 45 56.59
	584.30	0.57	239.93	584.28	0.62	-0.76	-3.71	0.12	461542.33	716779.24	N 32 16 3.29	W 103 45 56.59
	615.90	0.53	234.56	615.88	0.77	-0.93	-3.96	0.21	461542.16	716778.99	N 32 16 3.28	W 103 45 56.59
	645.50	0.64	250.71	645.48	0.89	-1.06	-4.23	0.67	461542.03	716778.72	N 32 16 3.28	W 103 45 56.60
	697.00	0.42	251.76	696.98	1.03	-1.22	-4.68	0.43	461541.87	716778.27	N 32 16 3.28	W 103 45 56.60
	787.00	0.10	150.54	786.97	1.19	-1.39	-4.95	0.50	461541.70	716778.00	N 32 16 3.28	W 103 45 56.61
	877.00	0.11	137.43	876.97	1.33	-1.52	-4.86	0.03	461541.57	716778.09	N 32 16 3.28	W 103 45 56.60
	969.00	0.06	41.90	968.97	1.36	-1.55	-4.77	0.14	461541.54	716778.19	N 32 16 3.28	W 103 45 56.60
	1058.00	0.05	93.83	1057.97	1.33	-1.52	-4.70	0.06	461541.57	716778.25	N 32 16 3.28	W 103 45 56.60
	1250.00	0.05	266.89	1249.97	1.34	-1.53	-4.70	0.05	461541.56	716778.25	N 32 16 3.28	W 103 45 56.60
	1422.00	0.05	267.12	1421.97	1.34	-1.53	-4.85	0.00	461541.56	716778.11	N 32 16 3.28	W 103 45 56.60
	1517.00	0.02	192.45	1516.97	1.36	-1.55	-4.89	0.05	461541.54	716778.06	N 32 16 3.28	W 103 45 56.61
	1611.00	0.05	278.63	1610.97	1.37	-1.56	-4.93	0.06	461541.53	716778.02	N 32 16 3.28	W 103 45 56.61
	1706.00	0.05	29.18	1705.97	1.32	-1.52	-4.96	0.09	461541.57	716778.00	N 32 16 3.28	W 103 45 56.61
	1801.00	0.05	258.17	1800.97	1.29	-1.49	-4.98	0.10	461541.60	716777.97	N 32 16 3.28	W 103 45 56.61
	1895.00	0.07	101.01	1894.97	1.31	-1.51	-4.96	0.13	461541.58	716777.99	N 32 16 3.28	W 103 45 56.61
	1990.00	0.06	311.12	1989.97	1.29	-1.49	-4.94	0.13	461541.60	716778.01	N 32 16 3.28	W 103 45 56.61
	2084.00	0.05	189.91	2083.97	1.30	-1.50	-4.98	0.10	461541.59	716777.97	N 32 16 3.28	W 103 45 56.61
	2179.00	0.05	341.67	2178.97	1.30	-1.50	-5.00	0.10	461541.59	716777.95	N 32 16 3.28	W 103 45 56.61
	2273.00	0.02	114.74	2272.97	1.27	-1.47	-5.00	0.07	461541.62	716777.95	N 32 16 3.28	W 103 45 56.61
	2368.00	0.10	323.26	2367.97	1.21	-1.41	-5.04	0.12	461541.68	716777.91	N 32 16 3.28	W 103 45 56.61
	2463.00	0.04	346.50	2462.97	1.11	-1.31	-5.09	0.07	461541.78	716777.86	N 32 16 3.28	W 103 45 56.61
	2558.00	0.14	17.11	2557.97	0.96	-1.17	-5.07	0.11	461541.92	716777.88	N 32 16 3.28	W 103 45 56.61
	2652.00	0.13	357.88	2651.97	0.75	-0.95	-5.04	0.05	461542.14	716777.91	N 32 16 3.28	W 103 45 56.61
	2747.00	0.11	295.88	2746.97	0.60	-0.80	-5.12	0.13	461542.29	716777.83	N 32 16 3.28	W 103 45 56.61
	2841.00	0.13	208.60	2840.97	0.65	-0.86	-5.26	0.18	461542.23	716777.69	N 32 16 3.28	W 103 45 56.61
	2936.00	0.02	218.72	2935.97	0.75	-0.96	-5.32	0.12	461542.13	716777.63	N 32 16 3.28	W 103 45 56.61
	3030.00	0.07	260.66	3029.97	0.77	-0.99	-5.38	0.06	461542.10	716777.57	N 32 16 3.28	W 103 45 56.61
	3125.00	0.16	192.86	3124.97	0.91	-1.13	-5.47	0.16	461541.96	716777.48	N 32 16 3.28	W 103 45 56.61
	3219.00	0.18	207.14	3218.97	1.16	-1.38	-5.57	0.05	461541.71	716777.38	N 32 16 3.28	W 103 45 56.61
	3314.00	0.10	237.88	3313.97	1.33	-1.56	-5.71	0.11	461541.53	716777.24	N 32 16 3.28	W 103 45 56.61
	3409.00	0.02	230.51	3408.97	1.39	-1.62	-5.79	0.08	461541.47	716777.16	N 32 16 3.28	W 103 45 56.62
	3598.00	0.28	127.30	3597.97	1.70	-1.92	-5.45	0.15	461541.17	716777.50	N 32 16 3.27	W 103 45 56.61
	3693.00	0.27	126.65	3692.97	1.99	-2.19	-5.08	0.01	461540.90	716777.87	N 32 16 3.27	W 103 45 56.61
	3788.00	0.07	278.61	3787.97	2.12	-2.32	-4.96	0.35	461540.77	716777.99	N 32 16 3.27	W 103 45 56.61
	3977.00	0.07	200.95	3976.97	2.21	-2.41	-5.12	0.05	461540.68	716777.83	N 32 16 3.27	W 103 45 56.61
	4072.00	0.06	103.13	4071.97	2.27	-2.48	-5.09	0.10	461540.61	716777.86	N 32 16 3.27	W 103 45 56.61
	4167.00	0.23	149.44	4166.97	2.46	-2.65	-4.94	0.20	461540.44	716778.01	N 32 16 3.27	W 103 45 56.61
	4262.00	0.02	268.84	4261.97	2.62	-2.82	-4.86	0.25	461540.27	716778.09	N 32 16 3.26	W 103 45 56.60
	4368.00	0.02	352.15	4367.97	2.60	-2.80	-4.88	0.03	461540.29	716778.07	N 32 16 3.27	W 103 45 56.61
	4502.00	0.21	34.88	4501.97	2.36	-2.55	-4.79	0.14	461540.54	716778.16	N 32 16 3.27	W 103 45 56.60
	4597.00	0.32	34.83	4596.97	1.99	-2.17	-4.57	0.13	461540.92	716778.38	N 32 16 3.27	W 103 45 56.60
	4786.00	2.69	44.41	4785.89	-1.47	1.43	-1.17	1.26	461544.52	716781.78	N 32 16 3.31	W 103 45 56.56
	4881.00	3.50	47.67	4880.75	-4.87	4.97	2.54	0.87	461548.06	716785.49	N 32 16 3.34	W 103 45 56.52
	4976.00	4.31	51.17	4975.53	-8.86	9.17	7.46	0.89	461552.26	716790.41	N 32 16 3.38	W 103 45 56.46
	5070.00	5.06	53.88	5069.21	-13.27	13.82	13.56	0.83	461556.91	716796.51	N 32 16 3.43	W 103 45 56.39
	5165.00	4.30	51.13	5163.90	-17.73	18.53	19.72	0.83	461561.62	716802.67	N 32 16 3.47	W 103 45 56.32
	5259.00	2.97	44.83	5257.71	-21.49	22.47	24.18	1.48	461565.56	716807.13	N 32 16 3.51	W 103 45 56.27
	5354.00	1.54	33.07	5352.63	-24.21	25.28	26.61	1.57	461568.37	716809.56	N 32 16 3.54	W 103 45 56.24
	5449.00	0.12	329.01	5447.62	-25.33	26.44	27.26	1.57	461569.53	716810.20	N 32 16 3.55	W 103 45 56.23
	5543.00	0.09	177.60	5541.62	-25.35	26.45	27.21	0.22	461569.54	716810.16	N 32 16 3.55	W 103 45 56.23
	5638.00	0.11	87.64	5636.62	-25.27	26.38	27.30	0.15	461569.47	716810.25	N 32 16 3.55	W 103 45 56.23
	5732.00	0.09	82.12	5730.62	-25.28	26.39	27.47	0.02	461569.48	716810.41	N 32 16 3.55	W 103 45 56.23
	5827.00	0.11	333.50	5825.62	-25.37	26.48	27.50	0.17	461569.57	716810.45	N 32 16 3.55	W 103 45 56.23
	5922.00	0.11	268.39	5920.62	-25.45	26.56	27.37	0.12	461569.65	716810.32	N 32 16 3.55	W 103 45 56.23
	6016.00	0.11	195.58	6014.62	-25.37	26.47	27.25	0.14	461569.56	716810.20	N 32 16 3.55	W 103 45 56.23
	6111.00	0.09	71.61	6109.62	-25.30	26.41	27.30	0.19	461569.50	716810.25	N 32 16 3.55	W 103 45 56.23</

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ')	Longitude (E/W ° ° ')
	6961.00	0.11	114.81	6959.62	-24.99	26.13	26.00	0.03	461569.21	716810.95	N 32 16 3.55 W	103 45 56.22
	7056.00	0.11	6.30	7054.62	-25.04	26.13	26.09	0.19	461569.27	716811.04	N 32 16 3.55 W	103 45 56.22
	7245.00	0.18	62.68	7243.62	-25.35	26.49	28.38	0.08	461569.58	716811.32	N 32 16 3.55 W	103 45 56.22
	7339.00	0.18	318.79	7337.62	-25.52	26.67	28.41	0.30	461569.76	716811.36	N 32 16 3.56 W	103 45 56.22
	7529.00	0.06	159.66	7527.62	-25.66	26.80	28.25	0.12	461569.89	716811.20	N 32 16 3.56 W	103 45 56.22
	7718.00	0.40	186.52	7716.61	-24.92	26.06	28.21	0.18	461569.15	716811.15	N 32 16 3.55 W	103 45 56.22
	7907.00	0.49	236.99	7905.61	-23.85	24.96	27.45	0.21	461568.05	716810.40	N 32 16 3.54 W	103 45 56.23
	8096.00	0.25	220.93	8094.61	-23.14	24.21	26.51	0.14	461567.30	716809.45	N 32 16 3.53 W	103 45 56.24
	8284.00	0.19	347.23	8282.60	-23.15	24.20	26.17	0.21	461567.29	716809.12	N 32 16 3.53 W	103 45 56.24
	8473.00	0.94	151.72	8471.60	-22.06	23.14	26.83	0.59	461566.23	716809.78	N 32 16 3.52 W	103 45 56.23
	8663.00	1.52	127.80	8661.55	-19.04	20.23	29.56	0.40	461563.32	716812.51	N 32 16 3.49 W	103 45 56.20
	8757.00	1.55	129.11	8755.52	-17.39	18.66	31.53	0.05	461561.75	716814.48	N 32 16 3.48 W	103 45 56.18
	8946.00	2.22	141.55	8944.42	-12.75	14.18	35.79	0.41	461557.27	716818.74	N 32 16 3.43 W	103 45 56.13
	9041.00	2.02	152.29	9039.35	-9.75	11.26	37.72	0.47	461554.35	716820.67	N 32 16 3.40 W	103 45 56.11
	9136.00	2.23	155.97	9134.29	-6.52	8.09	39.25	0.26	461551.18	716822.20	N 32 16 3.37 W	103 45 56.09
	9230.00	2.39	158.88	9228.21	-2.97	4.59	40.70	0.21	461547.68	716823.65	N 32 16 3.34 W	103 45 56.07
	9324.00	0.95	145.08	9322.17	-0.46	2.12	41.85	1.58	461545.21	716824.80	N 32 16 3.31 W	103 45 56.06
	9514.00	0.40	179.12	9512.16	1.53	0.17	42.76	0.35	461543.26	716825.71	N 32 16 3.29 W	103 45 56.05
	9608.00	0.62	238.66	9606.15	2.11	-0.43	42.33	0.58	461542.66	716825.28	N 32 16 3.29 W	103 45 56.06
	9703.00	0.48	323.45	9701.15	2.03	-0.37	41.66	0.79	461542.72	716824.61	N 32 16 3.29 W	103 45 56.06
	9797.00	3.16	20.99	9795.10	-0.68	2.36	42.35	3.12	461545.45	716825.30	N 32 16 3.31 W	103 45 56.05
	9892.00	5.36	30.07	9889.83	-6.83	8.65	45.51	2.42	461551.74	716828.46	N 32 16 3.38 W	103 45 56.02
	9987.00	6.13	31.64	9984.35	-14.79	16.81	50.40	0.83	461559.90	716833.34	N 32 16 3.46 W	103 45 55.96
	10081.00	6.75	33.71	10077.76	-23.43	25.67	56.10	0.70	461568.76	716839.04	N 32 16 3.54 W	103 45 55.89
	10176.00	7.22	37.23	10172.05	-32.55	35.07	62.81	0.67	461578.16	716845.75	N 32 16 3.64 W	103 45 55.81
	10293.00	8.64	45.54	10287.94	-44.13	47.08	73.53	1.56	461590.17	716856.47	N 32 16 3.75 W	103 45 55.69
	10365.00	9.36	44.62	10359.05	-51.76	55.04	81.50	1.02	461598.12	716864.45	N 32 16 3.83 W	103 45 55.60
	10476.00	8.77	38.59	10468.66	-64.33	68.08	93.12	1.01	461611.16	716876.06	N 32 16 3.96 W	103 45 55.46
	10554.00	8.12	37.08	10545.82	-73.08	77.12	100.15	0.88	461620.21	716883.09	N 32 16 4.05 W	103 45 55.38
	10649.00	7.79	36.82	10639.90	-83.27	87.63	108.05	0.35	461630.71	716891.00	N 32 16 4.15 W	103 45 55.28
	10743.00	7.41	37.96	10733.08	-92.84	97.51	115.60	0.43	461640.59	716898.54	N 32 16 4.25 W	103 45 55.11
	10838.00	6.27	40.97	10827.40	-101.29	106.25	122.77	1.26	461649.34	716905.71	N 32 16 4.34 W	103 45 55.20
	10933.00	5.00	39.79	10921.94	-108.15	113.35	128.82	1.34	461656.43	716911.76	N 32 16 4.41 W	103 45 55.04
	11028.00	3.70	41.04	11016.66	-113.45	118.84	133.48	1.37	461661.93	716916.43	N 32 16 4.46 W	103 45 54.99
	11072.00	3.27	44.75	11060.58	-115.34	120.81	135.30	1.10	461663.89	716918.24	N 32 16 4.48 W	103 45 54.97
	11134.00	3.01	38.66	11122.49	-117.77	123.33	137.56	0.68	461666.42	716920.50	N 32 16 4.51 W	103 45 54.94
	11228.00	7.90	78.40	11216.06	-120.69	126.56	145.44	6.28	461669.65	716928.38	N 32 16 4.54 W	103 45 54.85
	11322.00	19.45	106.96	11307.33	-116.56	123.28	166.83	13.88	461666.36	716949.77	N 32 16 4.50 W	103 45 54.60
100' FNL Crossed	11342.00	20.36	110.58	11326.13	-114.11	121.09	173.27	7.65	461664.17	716956.21	N 32 16 4.48 W	103 45 54.52
	11417.00	24.30	121.62	11395.53	-100.43	108.40	198.64	7.65	461651.48	716981.58	N 32 16 4.35 W	103 45 54.23
	11511.00	28.95	130.84	11479.57	-74.06	83.36	232.36	6.60	461626.44	717015.30	N 32 16 4.11 W	103 45 53.84
	11605.00	35.23	140.00	11559.22	-37.01	47.65	267.05	8.44	461590.74	717049.99	N 32 16 3.75 W	103 45 53.44
	11700.00	37.92	150.97	11635.59	10.79	1.08	298.87	7.43	461544.17	717081.80	N 32 16 3.29 W	103 45 53.07
Wolfcamp A Upper Intersection	11726.32	40.36	152.25	11656.00	25.71	-13.54	306.77	9.77	461529.55	717089.70	N 32 16 3.14 W	103 45 52.98
	11794.00	46.89	155.04	11705.05	68.26	-55.30	327.38	9.77	461487.79	717110.31	N 32 16 2.73 W	103 45 52.74
	11888.00	50.58	165.72	11767.26	135.46	-121.63	350.82	9.47	461421.47	717133.75	N 32 16 2.07 W	103 45 52.47
	11983.00	62.77	167.24	11819.36	213.18	-198.67	369.27	12.90	461344.43	717152.19	N 32 16 1.31 W	103 45 52.26
	12077.00	73.19	171.75	11854.57	299.30	-284.23	385.00	11.94	461258.87	717167.93	N 32 16 0.46 W	103 45 52.08
	12171.00	83.80	176.85	11873.30	391.09	-375.73	394.06	12.47	461167.38	717176.99	N 32 16 0.55 W	103 45 51.98
	12265.00	87.42	179.48	11880.50	484.78	-469.39	397.05	4.76	461073.73	717179.98	N 32 16 0.86 W	103 45 51.95
	12401.00	87.78	178.90	11886.19	620.62	-605.25	398.97	0.50	460937.87	717181.90	N 32 16 0.57 W	103 45 51.94
	12495.00	86.22	178.90	11889.47	714.54	-699.18	400.78	0.47	460843.95	717183.70	N 32 16 0.56 W	103 45 51.92
	12589.00	91.49	178.87	11889.71	808.49	-793.16	401.79	3.63	460749.98	717184.71	N 32 16 0.55 W	103 45 51.92
	12684.00	92.97	178.12	11886.01	903.37	-888.08	402.62	1.75	460655.06	717185.55	N 32 16 0.54 W	103 45 51.91
	12796.00	92.76	178.93	11880.42	1015.17	-999.93	403.55	0.75	460543.21	717186.48	N 32 16 0.53 W	103 45 51.91
	12872.00	92.21	182.20	11877.12	1090.96	-1075.84	402.14	3.07	460467.31	717185.07	N 32 16 0.52 W	103 45 51.93
	13061.00	92.01	183.88	11870.16	1279.02	-1264.44	392.12	0.89	460278.72	717175.05	N 32 16 0.50 W	103 45 52.06
	13250.00	92.21	182.95	11863.20	1466.96	-1452.88	380.87	0.50	460090.20	717163.80	N 32 16 0.48 W	103 45 52.20
	13439.00	90.46	176.19	11858.80	1655.61	-1641.65	378.00	2.68	459901.33	717161.92	N 32 16 0.47 W	103 45 52.24
	13628.00	91.77	181.38	11855.12	1844.42	-1830.79	379.71	0.82	459712.41	717162.63	N 32 16 0.45 W	103 45 52.24
	13816.00	90.84	180.13	11850.84	2032.11	-2018.72	377.23	0.83	459524.49	717160.16	N 32 16 0.43 W	103 45 52.28
	14005.00	91.49	181.16	11846.99	2220.82	-2207.66	375.10	0.64	459335.55	717158.03	N 32 16 0.41 W	103 45 52.32
	14099.00	91.59	180.88	11844.47	2314.63	-2301.61	373.43	0.32	459241.61	717156.36	N 32 16 0.40 W	103 45 52.34
	14288.00	90.91	178.38	11840.34	2503.46	-2490.55	374.65	1.37	459052.68	717157.58	N 32 16 0.37 W	103 45 52.34
	14476.00	91.18	178.28	11836.91	2691.42	-2679.44	380.13	0.15	458864.81	717163.06	N 32 16 0.36 W	103 45 52.29
	14664.00	89.19	177.98	11836.31	2879.41	-2866.33	386.26	1.07	458676.93	717169.19	N 32 16 0.34 W	103 45 52.23
	14853.00	89.87	179.35	11837.86	3068.37	-3055.26	390.67	0.81	458488.00	717173.59	N 32 16 0.33 W	103 45 52.19
	14948.00	89.60	180.02	11838.30	3163.31	-3150.26	391.19	0.76	458393.01	717174.12	N 32 16 0.32 W	103 45 52.19
	15136.00	89.26	179.55	11840.17	3351.18	-3338.25	391.89	0.31	458205.03	717174.82	N 32 16 0.30 W	103 45 52.19
	15325.00	89.98	179.28	11841.42	3540.09	-3527.23	393.82	0.41	458016.06	717176.75	N 32 16 0.28 W	103 45 52.18
	15420.00	89.81	179.63	11841.59	3635.05	-3622.23	394.73	0.41	457921.07	717177.65	N 32 16 0.27 W	103 45 52.17
	15608.00	90.12	179.19	11841.71	3822.97	-3810.22	396.66	0.29	457733.09	717179.59	N 32 16 0.25 W	103 45 52.16
	15703.00	90.01	180.16	11841.60	3917.91	-3905.22	397.20	1.03	457638.10	717180.13	N 32 16 0.24 W	103 45 52.16
	15891.00	89.39	178.66	11842.59	4105.82	-4093.20	399.14	0.86	457450.13	717182.06	N 32 16 0.22 W	103 45 52.15
	15985.00	89.84	178.77	11843.22	4199.80	-4187.17	401.24	0.49	457356.16	717184.17	N 32 16 0.21 W	103 45 52.13
	16080.00	90.46	179.67	11842.97	4294.77	-4282.16	402.54	1.15	457261.18	717185.46	N 32 16 0.20 W	103 45 52.12
	16269.00	90.80	179.51	11840.89	4483.66	-4471.14	403.89	0.20	457072.20	717186.82	N 32 16 0.19 W	103 45 52.12
	16458.00	89.43	177.20									

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 ° ' ")
	20901.00	90.50	180.72	11817.14	9111.37	-9101.78	422.39	0.04	452441.84	717205.32	N 32 14 33.21	W 103 45 52.19
	21090.00	90.32	180.37	11815.62	9300.14	-9290.76	420.59	0.24	452252.86	717203.52	N 32 14 31.34	W 103 45 52.22
	21185.00	91.11	181.20	11814.43	9394.99	-9385.75	419.29	1.21	452157.89	717202.22	N 32 14 30.40	W 103 45 52.24
	21279.00	90.56	180.91	11813.06	9488.82	-9479.72	417.56	0.86	452063.92	717200.49	N 32 14 29.47	W 103 45 52.27
	21374.00	90.70	180.77	11812.02	9583.68	-9574.70	416.17	0.21	451968.94	717199.09	N 32 14 28.53	W 103 45 52.29
	21469.00	91.08	182.01	11810.54	9678.47	-9669.66	413.86	1.37	451873.99	717196.79	N 32 14 27.59	W 103 45 52.32
	21563.00	90.67	181.74	11809.11	9772.21	-9763.60	410.79	0.52	451780.05	717193.71	N 32 14 26.66	W 103 45 52.37
	21753.00	90.60	181.05	11807.00	9961.81	-9953.53	406.16	0.36	451590.13	717189.09	N 32 14 24.78	W 103 45 52.43
330' FSL Crossed	21814.00	90.73	180.65	11806.29	10022.71	-10014.52	405.26	0.69	451529.15	717188.19	N 32 14 24.18	W 103 45 52.45
	21847.00	90.80	180.43	11805.85	10055.67	-10047.52	404.95	0.69	451496.15	717187.88	N 32 14 23.85	W 103 45 52.45
Final MWD	21866.00	90.60	180.41	11805.62	10074.65	-10066.51	404.81	1.06	451477.16	717187.74	N 32 14 23.66	W 103 45 52.45
Proj to TD	21909.00	90.60	180.41	11805.17	10117.60	-10109.51	404.50	0.00	451434.16	717187.43	N 32 14 23.24	W 103 45 52.46

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	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 174H Gyro + IFR 0-21909'MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 174H Gyro + IFR 0-21909'MD
	1	26.500	645.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 174H
	1	645.500	21909.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 174H