

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 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 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) 476-3450 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 - Wilkd

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45112	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code 318142	Property Name SUNRISE MDP1 "8-5" FEDERAL COM	Well Number 174H
OGRID No. 16096	Operator Name OXY USA INC.	Elevation 3546.9'

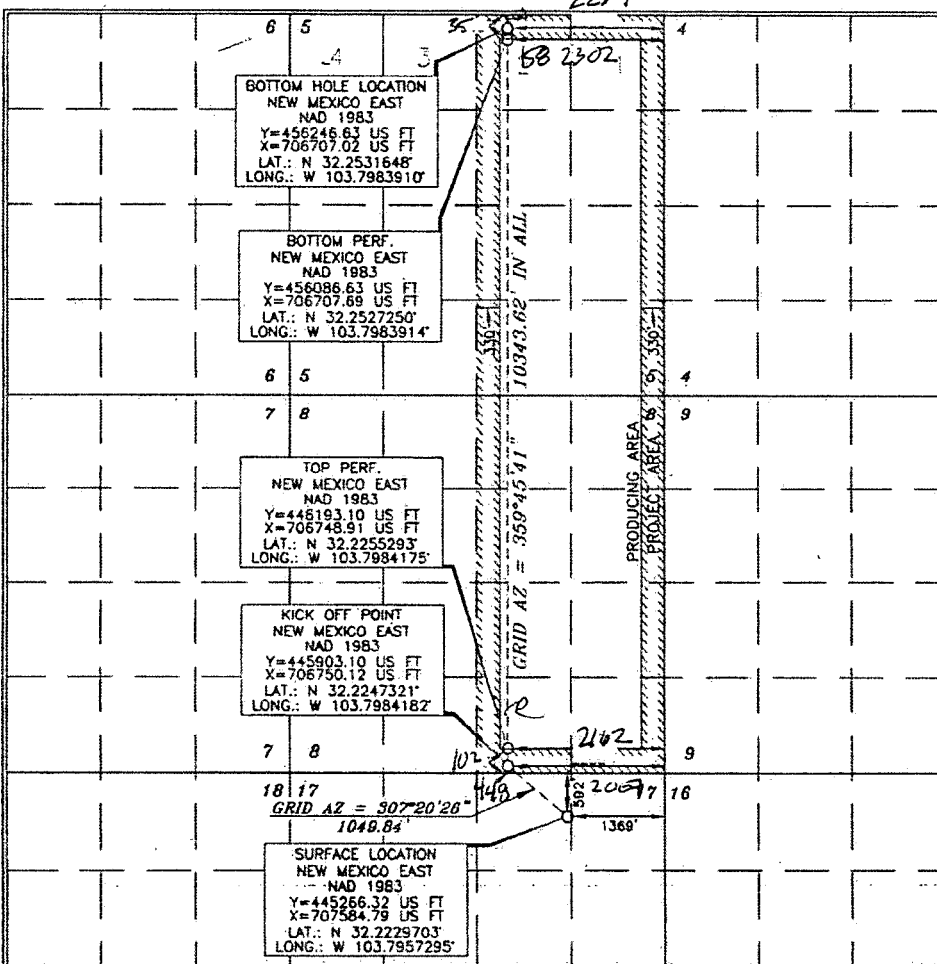
Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
B	17	24 SOUTH	31 EAST, N.M.P.M.		592'	NORTH	1369'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
2	5	24 SOUTH	31 EAST, N.M.P.M.		35	NORTH	2284	EAST	EDDY
Dedicated Acres 640		Joint or Infill	Consolidation Code	Order No. NSL Approval # 7814 ✓					

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 as a voluntary pooling agreement or a compulsory pooling order therefore entered by the division.

Signature: *[Signature]* Date: 9/9/19

Printed Name: Sarah Chapman

E-mail Address: sarah_chapman@oxy.com

SURVEYOR CERTIFICATION

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

Signature: *[Signature]* Date of Survey: NOVEMBER 2, 2017

Professional Surveyor

Signature: *[Signature]* Certificate Number: 15079

SEP 10 2019

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Intent ☐ As Drilled ☒

API #
30-015-45112

Operator Name: Oxy USA Inc.	Property Name: Sunrise MDA S-5 Federal Com	Well Number: 174H
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Kick Off Point (KOP)

UL B	Section 17	Township 24S	Range 31E	Lot	Feet 448	From N/S North	Feet 2007	From E/W East	County EDDY
Latitude 32.2238					Longitude -103.79779			NAD NA83	

First Take Point (FTP)

UL N	Section 8	Township 24S	Range 31E	Lot	Feet 102	From N/S South	Feet 2162	From E/W East	County EDDY
Latitude 32.22489					Longitude -103.79828			NAD NA83	

Last Take Point (LTP)

UL 2	Section 5	Township 24S	Range 31E	Lot	Feet 158	From N/S North	Feet 2302	From E/W East	County EDDY
Latitude 32.25324					Longitude -103.79857			NAD NA83	

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

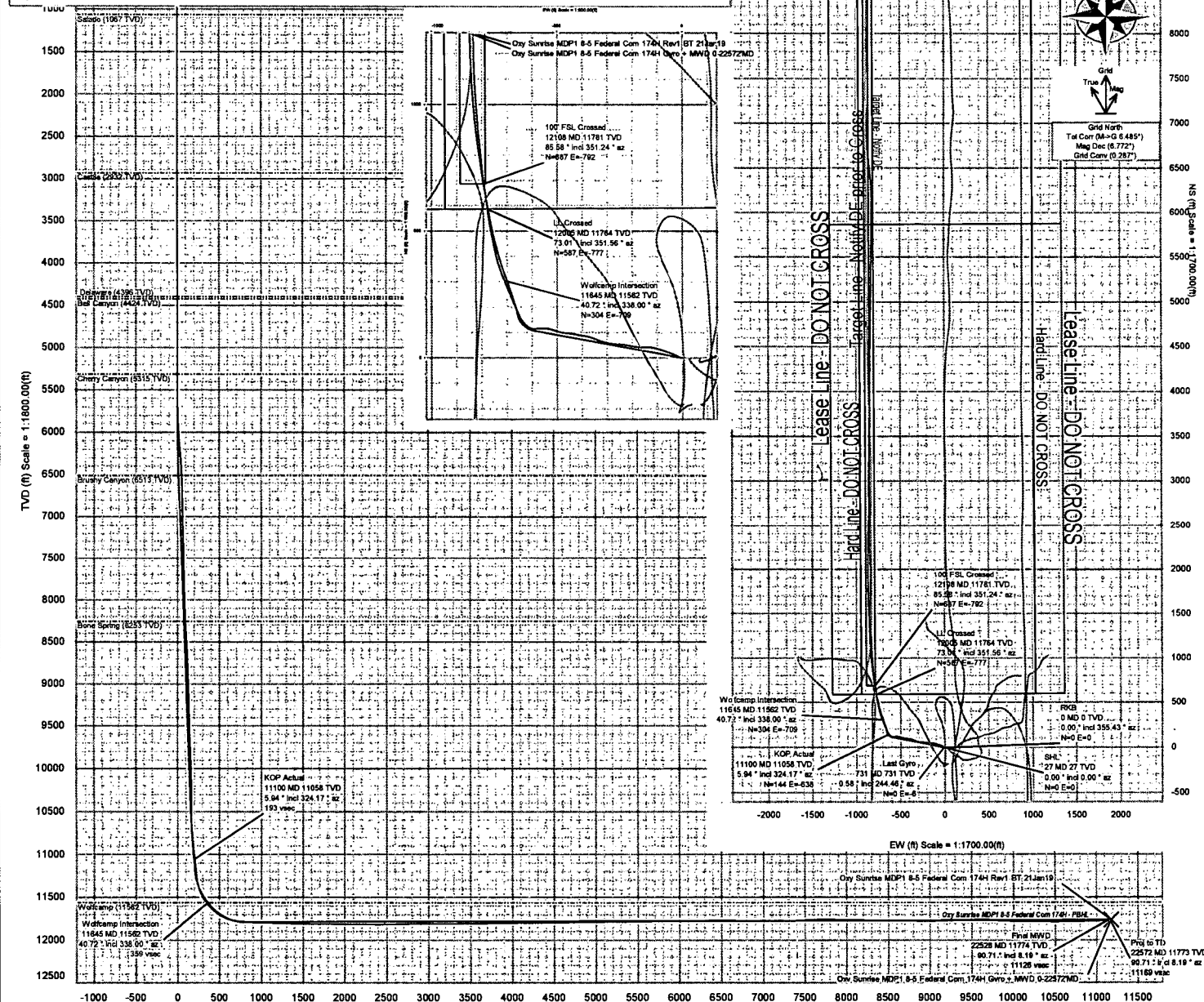
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Sunrise MDP1 8-5 Federal Com 174H	NM Eddy County (NAD 83)	Oxy Sunrise MDP1 8-5 Federal Com 174H

Gravity & Magnetic Parameters					Surface Location					Miscellaneous					
NAD83 New Mexico State Plane, Eastern Zone, US Feet															
Model:	IPR1	Dip:	58.913°	Date:	10-May-2018	Lat:	N 32 13 22.68	Northing:	445266.321US	Grid Conv:	0.2867	Slot:	MDP1 8-5	TVD Ref:	RKB=26.5'(3573.4ft above MSL)
MagDec:	6.772°	FS:	47936.7nT	Gravity FS:	998.427mgn (8.80665 Based)	Lon:	W 103 47 44.63	Easting:	707584.781US	Scale Fact:	0.9994074	Plan:	Oxy Sunrise MDP1 8-5 Federal Com 174H Gyro + MWD 0-22572MD		

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)	DLS
RKB	0.00	0.00	355.43	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	731.19	0.58	244.46	731.16	0.69	0.23	-5.90	0.08
KOP Actual	11100.00	5.94	324.17	11057.82	193.25	143.62	-637.51	0.89
Wolfcamp Intersection	11645.09	40.72	338.00	11562.40	358.79	304.03	-709.09	4.87
LL Crossed	12005.00	73.01	351.56	11763.51	646.54	587.32	-777.11	13.65
100' FSL Crossed	12108.00	85.58	351.24	11781.45	747.48	687.35	-792.29	1.31
Exit Target Box	21421.00	89.42	355.00	11780.01	10026.39	9984.72	-923.24	2.38
Enter Target Box	22489.00	91.16	8.25	11774.47	11088.28	11049.57	-927.46	1.07
100' FNL Crossed	22500.00	91.11	8.36	11774.25	11099.00	11060.45	-925.87	1.07
Final MWD	22528.00	90.71	8.19	11773.80	11126.30	11088.15	-921.83	1.81
Proj to TD	22572.00	90.71	8.19	11773.25	11169.22	11131.70	-915.56	0.00



Vertical Section (ft) Azim = 355.50° Scale = 1:1800.00(ft) Origin = 0N/S, 0E/W

Oxy Sunrise MDP1 8-5 Federal Com 174H Gyro + MWD 0-22572MD Survey Geodetic Report (Def Survey)



NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2019
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Report Date: July 26, 2019 - 02:47 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Sunrise MDP1 8-5 Federal Com 174H / Oxy Sunrise MDP1 8-5 Federal Com 174H
Well: Oxy Sunrise MDP1 8-5 Federal Com 174H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-45112
Survey Name: Oxy Sunrise MDP1 8-5 Federal Com 174H Gyro + MWD 0-22572MD
Survey Date: May 10, 2019
Tort / AHD / DDI / ERD Ratio: 274.362' / 11703.514 ft / 6.788' / 0.991
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 13' 22.69306" W 103° 47' 44.62606"
Location Grid N/E Y/X: N 445266.320 RUS, E 707584.790 RUS
CRS Grid Convergence Angle: 0.2867°
Grid Scale Factor: 0.99994074
Version / Patch: 2.10.760.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 355.485° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3573.400 ft above MSL
Seabed / Ground Elevation: 3546.900 ft above MSL
Magnetic Declination: 6.772°
Total Gravity Field Strength: 998.4271mgN (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47930.700 nT
Magnetic Dip Angle: 59.913°
Declination Date: May 10, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2867°
Total Corr Mag North->Grid North: 6.4853°
Local Coord Referenced To: Well Head

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	355.43	0.00	0.00	0.00	0.00	N/A	445266.32	707584.79	N 32 13 22.69	W 103 47 44.63
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445266.32	707584.79	N 32 13 22.69	W 103 47 44.63
	98.12	0.37	338.21	98.12	0.22	0.21	-0.09	0.52	445266.53	707584.70	N 32 13 22.70	W 103 47 44.63
	185.49	0.46	309.25	185.49	0.73	0.70	-0.46	0.26	445267.02	707584.33	N 32 13 22.70	W 103 47 44.63
	274.49	0.57	289.84	274.49	1.16	1.07	-1.16	0.23	445267.39	707583.63	N 32 13 22.70	W 103 47 44.64
	369.28	0.62	271.41	369.27	1.41	1.25	-2.11	0.21	445267.57	707582.68	N 32 13 22.71	W 103 47 44.65
	464.19	0.59	254.82	464.17	1.37	1.13	-3.10	0.19	445267.45	707581.69	N 32 13 22.70	W 103 47 44.67
	559.18	0.68	259.55	559.16	1.22	0.90	-4.12	0.11	445267.22	707580.67	N 32 13 22.70	W 103 47 44.67
	653.89	0.84	245.40	653.86	0.98	0.58	-5.16	0.16	445266.80	707579.63	N 32 13 22.70	W 103 47 44.69
Last Gyro	731.19	0.58	244.46	731.16	0.69	0.23	-5.90	0.08	445266.55	707578.89	N 32 13 22.70	W 103 47 44.69
	839.00	0.81	238.99	838.96	0.16	-0.40	-7.05	0.22	445265.92	707577.74	N 32 13 22.69	W 103 47 44.71
	930.00	0.09	358.09	929.96	-0.06	-0.66	-7.60	0.94	445265.66	707577.19	N 32 13 22.69	W 103 47 44.71
	1020.00	0.10	237.21	1019.96	-0.02	-0.63	-7.67	0.18	445265.69	707577.12	N 32 13 22.69	W 103 47 44.72
	1202.00	0.11	185.75	1201.96	-0.27	-0.89	-7.82	0.05	445265.43	707576.97	N 32 13 22.68	W 103 47 44.72
	1293.00	0.09	199.74	1292.96	-0.42	-1.04	-7.85	0.03	445265.28	707576.94	N 32 13 22.68	W 103 47 44.72
	1475.00	0.06	173.45	1474.96	-0.65	-1.27	-7.89	0.02	445265.05	707576.90	N 32 13 22.68	W 103 47 44.72
	1567.00	0.09	76.66	1566.96	-0.68	-1.30	-7.81	0.12	445265.02	707576.98	N 32 13 22.68	W 103 47 44.72
	1658.00	0.10	48.41	1657.96	-0.63	-1.23	-7.69	0.05	445265.09	707577.10	N 32 13 22.68	W 103 47 44.72
	1750.00	0.13	104.51	1749.96	-0.61	-1.21	-7.52	0.12	445265.11	707577.27	N 32 13 22.68	W 103 47 44.71
	1930.00	0.09	297.04	1929.96	-0.60	-1.19	-7.45	0.12	445265.13	707577.34	N 32 13 22.68	W 103 47 44.71
	2022.00	0.13	203.39	2021.95	-0.66	-1.26	-7.56	0.18	445265.06	707577.23	N 32 13 22.68	W 103 47 44.71
	2114.00	0.09	132.87	2113.95	-0.80	-1.40	-7.55	0.14	445264.92	707577.24	N 32 13 22.68	W 103 47 44.71
	2209.00	0.09	167.47	2208.95	-0.93	-1.52	-7.48	0.06	445264.80	707577.31	N 32 13 22.68	W 103 47 44.71
	2399.00	0.02	125.05	2398.95	-1.10	-1.69	-7.42	0.04	445264.63	707577.37	N 32 13 22.68	W 103 47 44.71
	2493.00	0.09	93.86	2492.95	-1.12	-1.70	-7.33	0.08	445264.62	707577.46	N 32 13 22.68	W 103 47 44.71
	2588.00	0.10	282.95	2587.95	-1.11	-1.69	-7.34	0.20	445264.63	707577.45	N 32 13 22.68	W 103 47 44.71
	2683.00	0.06	50.26	2682.95	-1.06	-1.64	-7.38	0.15	445264.68	707577.41	N 32 13 22.68	W 103 47 44.71
	2777.00	0.13	70.20	2776.95	-1.00	-1.57	-7.24	0.08	445264.75	707577.55	N 32 13 22.68	W 103 47 44.71
	2872.00	0.10	262.23	2871.95	-0.98	-1.55	-7.22	0.24	445264.77	707577.57	N 32 13 22.68	W 103 47 44.71
	2967.00	0.12	122.28	2966.95	-1.04	-1.61	-7.22	0.22	445264.71	707577.57	N 32 13 22.68	W 103 47 44.71
	3061.00	0.01	159.84	3060.95	-1.11	-1.67	-7.13	0.12	445264.65	707577.66	N 32 13 22.68	W 103 47 44.71
	3251.00	0.18	22.48	3250.95	-0.86	-1.41	-7.01	0.10	445264.91	707577.78	N 32 13 22.68	W 103 47 44.71
	3345.00	0.05	318.13	3344.95	-0.69	-1.24	-6.98	0.18	445265.08	707577.81	N 32 13 22.68	W 103 47 44.71
	3440.00	0.16	282.37	3439.95	-0.62	-1.19	-7.14	0.13	445265.13	707577.65	N 32 13 22.68	W 103 47 44.71
	3630.00	0.12	60.87	3629.95	-0.46	-1.03	-7.23	0.14	445265.29	707577.56	N 32 13 22.68	W 103 47 44.71
	3724.00	0.10	102.73	3723.95	-0.44	-1.00	-7.06	0.09	445265.32	707577.73	N 32 13 22.68	W 103 47 44.71
	3818.00	0.15	121.09	3817.95	-0.54	-1.08	-6.88	0.07	445265.24	707577.91	N 32 13 22.68	W 103 47 44.71
	3913.00	0.08	280.70	3912.95	-0.59	-1.14	-6.83	0.24	445265.18	707577.96	N 32 13 22.68	W 103 47 44.71
	4007.00	0.01	238.45	4006.95	-0.58	-1.13	-6.91	0.08	445265.19	707577.88	N 32 13 22.68	W 103 47 44.71
	4102.00	0.15	223.70	4101.95	-0.67	-1.22	-7.00	0.15	445265.10	707577.79	N 32 13 22.68	W 103 47 44.71
	4196.00	0.10	245.04	4195.95	-0.78	-1.35	-7.16	0.07	445264.97	707577.63	N 32 13 22.68	W 103 47 44.71
	4385.00	0.15	354.08	4384.95	-0.59	-1.17	-7.33	0.11	445265.15	707577.46	N 32 13 22.68	W 103 47 44.71
	4479.00	0.07	20.74	4478.95	-0.41	-0.99	-7.33	0.10	445265.33	707577.46	N 32 13 22.68	W 103 47 44.71
	4574.00	0.06	250.84	4573.95	-0.37	-0.95	-7.35	0.12	445265.37	707577.44	N 32 13 22.68	W 103 47 44.71
	4669.00	0.06	74.36	4668.95	-0.38	-0.96	-7.35	0.13	445265.36	707577.44	N 32 13 22.68	W 103 47 44.71
	4763.00	0.05	109.84	4762.95	-0.38	-0.96	-7.27	0.04	445265.36	707577.53	N 32 13 22.68	W 103 47 44.71
	4858.00	0.10	330.43	4857.95	-0.33	-0.90	-7.27	0.15	445265.42	707577.52	N 32 13 22.68	W 103 47 44.71
	4953.00	0.06	263.88	4952.95	-0.25	-0.83	-7.36	0.10	445265.49	707577.43	N 32 13 22.69	W 103 47 44.71
	5046.00	0.10	260.94	5045.95	-0.26	-0.85	-7.49	0.04	445265.47	707577.30	N 32 13 22.69	W 103 47 44.71
	5235.00	0.07	56.11	5234.95	-0.22	-0.81	-7.55	0.09	445265.51	707577.24	N 32 13 22.69	W 103 47 44.71
	5329.00	0.10	279.30	5328.95	-0.17	-0.77	-7.59	0.17	445265.55	707577.20	N 32 13 22.69	W 103 47 44.71
	5519.00	0.13	44.26	5518.95	0.01	-0.59	-7.60	0.11	445265.73	707577.19	N 32 13 22.69	W 103 47 44.71
	5613.00	0.08	77.44	5612.95	0.09	-0.50	-7.48	0.09	445265.82	707577.31	N 32 13 22.69	W 103 47 44.71
	5708.00	0.66	309.06	5707.95	0.47	-0.14	-7.85	0.74	445266.18	707576.94	N 32 13 22.69	W 103 47 44.72
	5802.00	2.78	302.01	5801.90	2.20	1.41	-10.21	2.26	445267.73	707574.58	N 32 13 22.71	W 103 47 44.74
	5897.00	5.04	297.87	5896.67	5.81	4.58	-15.85	2.40	445270.90	707568.94	N 32 13 22.74	W 103 47 44.81
	5992.00	6.89	296.55	5991.16	10.98	9.08	-24.64	1.95	445275.40	707560.15	N 32 13 22.78	W 103 47 44.91
	6086.00	8.14	291.50	6084.35	16.81	14.04	-35.87	1.50	445280.35	707548.92	N 32 13 22.83	W 103 47 45.04
	6181.00	9.54	290.01	6178.22	23.03	19.19	-49.53	1.49	445285.51	707535.26	N 32 13 22.89	W 103 47 45.20
	6275.00	11.67	289.61	6270.61	30.14	25.05	-65.81	2.27	445291.37	707518.99	N 32 13 22.94	W 103 47 45.39
	6465.00	11.02	285.00	6456.90	44.06	36.20	-101.45	0.59	445302.52	707483.35	N 32 13 23.06	W 103 47 45.80
	6559.00	9.91	279.78	6549.33	49.05	39.90	-116.10	1.55	445306.22	707466.70	N 32 13 23.09	W 103 47 46.00
	6654.00	8.70	274.26	6643.08	52.17	41.82	-133.32	1.58	445308.14	707451.48	N 32 13 23.11	W 103 47 46.18
	6749.00	6.66	265.69	6737.23	53.28	41.94	-145.98	2.46	445308.26	707438.82	N 32 13 23.12	W 103 47 46.32
	6843.00	6.56	267.50	6830.60	53.49	41.30	-156.78	0.25	445307.62	707428.02	N 32 13 23.11	W 103 47 46.45
	6937.00	6.46	271.80	6924.00	54.25	41.23	-167.43	0.53	445307.55	707417.37	N 32 13 23.11	W 103 47 46.57
	7032.00	6.52	275.33	7018.39	55.76	41.90	-178.14	0.42	445308.22	707406.66	N 32 13 23.12	W 103 47 46.70
	7126.00	6.73	279.56	7111.76	58.01	43.31	-188.89	0.57	445309.63	707395.91	N 32 13 23.13	W 103 47 46.82
	7221.00	6.69	280.36	7206.11	60.79	45.23	-199.82	0.11	445311.55	707384.98	N 32 13 23.15	W 103 47 46.95
	7410.00	6.81	279.44	7393.80	66.31	49.05	-221.70	0.09	445315.36	707363.10	N 32 13 23.19	W 103 47 47.20
	7504.00	6.71	279.16	7487.15	68.95	50.84	-232.62	0.11	445317.15	707352.18	N 32 13 23.21	W 103 47 47.33
	7599.00	6.85	276.45	7581.49	71.34	52.36	-243.73	0.37	445318.67	707341.07	N 32 13 23.22	W 103 47 47.46
	7694.00	6.74	273.23	7675.82	73.17	53.31	-254.93	0.42	445319.62	707329.88	N 32 13 23.23	W 103 47 47.59

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	8357.00	6.99	289.27	8334.18	93.55	67.71	-331.63	0.60	445334.03	707253.18	N 32 13 23.38	W 103 47 48.48
	8546.00	7.16	293.97	8521.74	103.80	76.29	-353.25	0.32	445342.61	707231.56	N 32 13 23.47	W 103 47 48.73
	8640.00	7.29	288.34	8615.00	108.91	80.55	-364.26	0.77	445346.86	707220.55	N 32 13 23.51	W 103 47 48.86
	8735.00	7.24	283.11	8709.23	113.06	83.80	-375.81	0.70	445350.12	707209.00	N 32 13 23.54	W 103 47 49.00
	8829.00	7.36	279.44	8802.47	116.31	86.13	-387.52	0.51	445352.45	707197.29	N 32 13 23.56	W 103 47 49.13
	8924.00	7.17	277.19	8896.71	118.97	87.87	-399.41	0.36	445354.19	707185.41	N 32 13 23.58	W 103 47 49.27
	9018.00	7.19	280.28	8989.97	121.66	89.66	-411.02	0.41	445355.97	707173.80	N 32 13 23.60	W 103 47 49.41
	9113.00	7.50	282.54	9084.19	125.00	92.07	-422.92	0.45	445358.38	707161.90	N 32 13 23.62	W 103 47 49.54
	9208.00	7.51	281.51	9178.38	128.53	94.65	-435.05	0.14	445360.96	707149.76	N 32 13 23.65	W 103 47 49.68
	9302.00	7.34	274.34	9271.59	131.15	96.33	-447.06	1.00	445362.64	707137.76	N 32 13 23.67	W 103 47 49.82
	9397.00	7.49	271.12	9365.80	132.69	96.91	-459.30	0.46	445363.22	707125.52	N 32 13 23.67	W 103 47 49.97
	9492.00	7.32	281.33	9460.01	134.95	98.22	-471.43	1.39	445364.53	707113.39	N 32 13 23.69	W 103 47 50.11
	9586.00	7.04	282.20	9553.27	138.24	100.61	-482.93	0.32	445366.93	707101.89	N 32 13 23.71	W 103 47 50.24
	9776.00	7.32	288.59	9741.79	146.33	106.93	-505.78	0.45	445373.25	707079.04	N 32 13 23.78	W 103 47 50.51
	9871.00	7.00	287.26	9836.05	150.85	110.58	-517.05	0.38	445376.89	707067.77	N 32 13 23.81	W 103 47 50.84
	9965.00	6.64	285.30	9929.38	154.62	113.71	-527.76	0.46	445380.03	707057.06	N 32 13 23.84	W 103 47 50.76
	10155.00	7.22	269.62	10118.01	159.40	116.53	-550.30	1.04	445382.85	707034.53	N 32 13 23.87	W 103 47 51.02
	10249.00	6.65	266.96	10211.32	159.96	116.21	-561.64	0.70	445382.52	707023.19	N 32 13 23.87	W 103 47 51.16
	10344.00	7.30	266.38	10305.62	160.20	115.53	-573.15	0.89	445381.85	707011.67	N 32 13 23.86	W 103 47 51.29
	10438.00	6.22	264.94	10398.96	160.24	114.71	-584.19	1.16	445381.02	707000.64	N 32 13 23.86	W 103 47 51.42
	10533.00	5.51	265.23	10493.47	160.49	114.19	-593.87	0.88	445380.50	706990.95	N 32 13 23.85	W 103 47 51.53
	10627.00	4.75	261.62	10587.09	161.86	114.82	-602.20	1.42	445381.23	706982.63	N 32 13 23.86	W 103 47 51.63
	10722.00	4.96	303.83	10681.76	165.50	117.89	-609.46	1.98	445384.31	706975.36	N 32 13 23.89	W 103 47 51.71
	10826.00	6.06	309.12	10780.08	174.80	126.43	-620.76	0.82	445392.74	706964.06	N 32 13 23.97	W 103 47 51.84
	10910.00	5.73	310.70	10868.86	177.74	129.13	-623.99	0.90	445395.44	706960.83	N 32 13 24.00	W 103 47 51.88
	11005.00	6.18	316.50	10963.35	185.08	135.93	-631.11	0.79	445400.24	706953.72	N 32 13 24.07	W 103 47 51.96
	11100.00	5.94	324.17	11057.82	193.25	143.62	-637.51	0.89	445408.94	706947.32	N 32 13 24.15	W 103 47 52.04
	11191.00	6.81	329.46	11148.26	202.13	152.09	-643.01	1.15	445418.40	706941.82	N 32 13 24.23	W 103 47 52.10
	11245.00	7.78	331.36	11201.82	208.34	158.05	-646.38	1.85	445424.37	706938.45	N 32 13 24.29	W 103 47 52.14
	11339.00	14.17	335.54	11294.05	224.98	174.13	-654.21	6.85	445440.44	706930.62	N 32 13 24.45	W 103 47 52.23
	11434.00	22.31	337.11	11384.21	253.06	201.37	-666.05	8.58	445467.68	706918.78	N 32 13 24.72	W 103 47 52.37
	11529.00	31.08	337.16	11469.00	283.53	240.66	-682.62	9.23	445506.96	706902.21	N 32 13 25.11	W 103 47 52.56
	11623.00	39.74	337.31	11545.54	345.21	290.84	-703.67	9.21	445557.14	706881.17	N 32 13 25.61	W 103 47 52.80
Wolfcamp Intersection	11645.09	40.72	338.00	11562.40	358.79	304.03	-709.09	4.87	445570.33	706875.74	N 32 13 25.74	W 103 47 52.86
	11718.00	43.98	340.09	11616.28	405.89	349.90	-726.63	4.87	445616.20	706858.21	N 32 13 26.09	W 103 47 53.06
	11812.00	54.67	348.06	11677.51	475.64	418.36	-745.75	13.05	445684.65	706839.09	N 32 13 26.87	W 103 47 53.28
	11907.00	62.93	348.93	11726.68	556.23	497.92	-761.91	8.73	445764.21	706822.92	N 32 13 27.66	W 103 47 53.47
	12001.00	72.46	351.58	11762.32	642.73	583.54	-776.55	10.47	445849.82	706808.29	N 32 13 28.51	W 103 47 53.63
LL Crossed	12005.00	73.01	351.56	11763.51	646.54	587.32	-777.11	13.65	445853.60	706807.73	N 32 13 28.54	W 103 47 53.64
	12096.00	85.42	351.22	11780.51	735.53	675.53	-790.47	13.65	445941.81	706794.37	N 32 13 29.42	W 103 47 53.79
100' FSL Crossed	12108.00	85.58	351.24	11781.45	747.46	687.35	-792.29	1.31	445953.63	706792.55	N 32 13 29.53	W 103 47 53.81
	12226.00	87.12	351.39	11788.97	864.90	803.76	-810.08	1.31	446070.03	706774.76	N 32 13 30.69	W 103 47 54.01
	12320.00	87.33	353.63	11793.52	958.66	896.84	-822.31	2.39	446163.10	706762.53	N 32 13 31.61	W 103 47 54.15
	12414.00	88.57	354.57	11796.88	1052.57	990.28	-831.97	1.65	446256.54	706752.87	N 32 13 32.53	W 103 47 54.25
	12509.00	88.26	356.29	11799.51	1147.53	1084.94	-839.54	1.84	446351.19	706745.31	N 32 13 33.47	W 103 47 54.34
	12604.00	88.67	358.31	11802.05	1242.44	1179.79	-844.01	2.17	446446.04	706740.83	N 32 13 34.41	W 103 47 54.38
	12665.00	88.59	358.16	11803.51	1303.35	1240.75	-845.89	0.28	446506.99	706738.95	N 32 13 35.01	W 103 47 54.40
	12855.00	89.11	357.30	11807.33	1493.17	1430.56	-853.41	0.53	446696.79	706731.43	N 32 13 36.89	W 103 47 54.48
	13044.00	89.73	357.11	11809.24	1682.07	1619.32	-862.63	0.34	446885.54	706722.22	N 32 13 38.76	W 103 47 54.57
	13233.00	89.59	359.08	11810.36	1870.87	1808.20	-868.91	1.04	447074.41	706715.93	N 32 13 40.63	W 103 47 54.64
	13293.00	89.67	1.07	11810.75	1930.67	1868.20	-868.83	3.32	447134.40	706716.01	N 32 13 41.22	W 103 47 54.63
	13387.00	89.78	358.92	11811.20	2024.37	1962.19	-868.84	2.29	447228.39	706716.00	N 32 13 42.15	W 103 47 54.63
	13481.00	89.47	0.77	11811.82	2118.10	2056.19	-869.09	2.00	447322.38	706715.75	N 32 13 43.08	W 103 47 54.62
	13670.00	89.43	0.37	11813.63	2306.35	2245.17	-867.21	0.21	447511.35	706717.63	N 32 13 44.95	W 103 47 54.59
	13765.00	89.95	0.27	11814.14	2401.01	2340.16	-866.68	0.56	447606.34	706718.16	N 32 13 45.89	W 103 47 54.58
	13954.00	91.60	3.26	11811.59	2588.83	2529.03	-860.85	1.81	447795.19	706723.98	N 32 13 47.76	W 103 47 54.50
	14143.00	90.77	0.67	11807.68	2776.57	2717.86	-854.39	1.44	447984.01	706730.46	N 32 13 49.63	W 103 47 54.41
	14238.00	89.71	357.75	11807.28	2871.36	2812.84	-855.70	3.27	448078.99	706729.15	N 32 13 50.57	W 103 47 54.42
	14427.00	90.33	0.27	11807.21	3059.99	3001.79	-858.96	1.37	448267.93	706725.88	N 32 13 52.44	W 103 47 54.45
	14521.00	89.98	0.53	11806.96	3153.64	3095.79	-858.30	0.46	448361.92	706726.54	N 32 13 53.37	W 103 47 54.44
	14616.00	90.36	0.13	11806.68	3248.30	3190.79	-857.76	0.58	448456.81	706727.08	N 32 13 54.31	W 103 47 54.43
	14710.00	91.39	1.92	11805.24	3341.85	3284.76	-856.08	2.20	448550.88	706728.77	N 32 13 55.24	W 103 47 54.40
	14805.00	89.74	359.62	11804.30	3436.43	3379.73	-854.80	2.98	448645.85	706730.04	N 32 13 56.18	W 103 47 54.38
	14899.00	90.67	0.98	11803.97	3530.10	3473.73	-854.31	1.75	448739.84	706730.53	N 32 13 57.11	W 103 47 54.37
	14994.00	90.60	0.78	11802.92	3624.67	3568.71	-852.85	0.22	448834.81	706731.99	N 32 13 58.05	W 103 47 54.35
	15133.00	90.66	0.34	11801.39	3763.12	3707.70	-851.49	0.32	448973.79	706733.35	N 32 13 59.42	W 103 47 54.32
	15322.00	90.42	0.57	11799.61	3951.41	3896.68	-849.99	0.18	449162.76	706734.85	N 32 14 1.29	W 103 47 54.29
	15416.00	90.59	0.97	11798.78	4045.00	3990.67	-848.73	0.46	449256.75	706736.11	N 32 14 2.22	W 103 47 54.27
	15511.00	90.32	0.71	11798.02	4139.59	4085.66	-847.33	0.39	449351.73	706737.51	N 32 14 3.16	W 103 47 54.25
	15700.00	90.63	0.60	11796.46	4327.82	4274.64	-845.17	0.17	449450.70	706739.67	N 32 14 5.03	W 103 47 54.22
	15795.00	90.56	0.62	11795.47	4422.43	4369.63	-844.16	0.08	449635.68	706740.68	N 32 14 5.97	W 103 47 54.20
	15895.00	91.38	1.21	11792.25	4611.55	4559.57	-841.13	0.53	449825.61	706743.71	N 32 14 7.85	W 103 47 54.15
	16080.00	92.42	0.66	11789.10	4706.07	4654.51	-839.58	1.24	449920.54	706745.26	N 32 14 8.79	W 103 47 54.13
	16174.00	90.87	0.71	11788.40	4799.64	4748.46	-838.46	1.65	450014.49	706746.39	N 32 14 9.72	W 103 47 54.11
	16269.00	90.42	0.56	11785.34	4894.26	4843.45	-837.40	0.50	450109.47	706747.44	N 32 14 10.66	W 103 47 54.09
	16364.00	90.28	0.40	11784.76	4988.90	4938.44	-836.61	0.22	45			

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (*/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	19857.00	89.81	3.50	11770.95	8470.01	8427.82	-868.63	2.12	453693.62	706716.22	N 32 14 46.13	W 103 47 54.25
	19952.00	91.08	5.75	11770.21	8563.79	8522.50	-860.97	2.72	453788.30	706723.88	N 32 14 47.07	W 103 47 54.15
	20141.00	87.64	4.26	11772.32	8750.15	8710.73	-844.48	1.98	453976.52	706740.36	N 32 14 48.93	W 103 47 53.95
	20235.00	88.95	1.41	11775.12	8843.33	8804.56	-839.84	3.34	454070.35	706745.01	N 32 14 49.86	W 103 47 53.89
	20330.00	89.77	1.59	11776.18	8937.80	8899.53	-837.35	0.88	454165.30	706747.49	N 32 14 50.80	W 103 47 53.86
	20519.00	91.63	358.60	11773.87	9126.15	9088.48	-837.03	1.86	454354.24	706747.81	N 32 14 52.66	W 103 47 53.84
	20708.00	91.66	356.98	11768.44	9314.91	9277.26	-844.32	0.86	454543.01	706740.52	N 32 14 54.53	W 103 47 53.92
	20802.00	91.70	356.38	11765.69	9408.85	9371.06	-849.76	0.64	454636.80	706735.08	N 32 14 55.46	W 103 47 53.97
	20897.00	91.11	354.86	11763.36	9503.82	9465.75	-857.01	1.72	454731.49	706727.83	N 32 14 56.40	W 103 47 54.05
	20991.00	90.98	354.66	11761.64	9597.80	9559.34	-865.60	0.25	454825.07	706719.25	N 32 14 57.33	W 103 47 54.15
	21180.00	84.61	349.26	11768.92	9786.13	9746.18	-891.97	4.42	455011.90	706692.87	N 32 14 59.18	W 103 47 54.44
	21275.00	87.20	352.32	11775.70	9880.55	9839.70	-907.13	4.21	455105.42	706677.72	N 32 15 0.10	W 103 47 54.62
Exit Target Box	21421.00	89.42	355.00	11780.01	10028.39	9984.72	-923.24	2.38	455250.43	706661.61	N 32 15 1.54	W 103 47 54.79
	21465.00	90.09	355.81	11780.20	10070.39	10028.58	-926.76	2.38	455294.28	706658.09	N 32 15 1.97	W 103 47 54.83
	21853.00	89.13	354.66	11781.48	10258.38	10215.92	-942.36	0.80	455481.61	706642.47	N 32 15 3.83	W 103 47 55.00
	21748.00	89.06	358.05	11782.98	10353.34	10310.70	-948.42	3.57	455576.39	706636.43	N 32 15 4.76	W 103 47 55.07
	21842.00	89.68	358.19	11784.01	10447.24	10404.64	-951.50	0.68	455670.33	706633.35	N 32 15 5.69	W 103 47 55.10
	22031.00	90.99	358.26	11782.90	10636.01	10593.55	-957.35	0.69	455859.22	706627.50	N 32 15 7.56	W 103 47 55.16
	22126.00	90.44	358.93	11781.72	10730.87	10688.51	-959.68	0.91	455954.17	706625.17	N 32 15 8.50	W 103 47 55.18
	22219.00	90.37	3.13	11781.06	10823.41	10781.47	-958.01	4.52	456047.13	706626.84	N 32 15 9.42	W 103 47 55.15
	22314.00	91.92	6.55	11779.16	10917.11	10876.10	-950.00	3.95	456141.75	706634.85	N 32 15 10.36	W 103 47 55.05
	22489.00	91.16	8.25	11774.47	11088.28	11049.57	-927.46	1.07	456315.21	706657.38	N 32 15 12.07	W 103 47 54.78
Enter Target Box												
100' FNL Crossed	22500.00	91.11	8.36	11774.25	11099.00	11060.45	-925.87	1.07	456326.09	706658.97	N 32 15 12.18	W 103 47 54.76
Final MWD	22528.00	90.71	8.19	11773.80	11126.30	11088.15	-921.83	1.81	456353.79	706663.02	N 32 15 12.46	W 103 47 54.71
Proj to TD	22572.00	90.71	8.19	11773.25	11169.22	11131.70	-915.56	0.00	456397.34	706669.29	N 32 15 12.89	W 103 47 54.64

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 Sunrise MDP1 8-5 Federal Com 174H Gyro + MWD 0-22572MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 174H Gyro + MWD 0-22572MD
	1	26.500	731.190	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 174H
	1	731.190	10910.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 174H
	1	10910.000	11191.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 174H
	1	11191.000	22572.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 174H

...Original Borehole/Oxy Sunrise MDP1 8-5 Federal Com 174H Gyro + MWD 0-22572MD