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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 30-015-45388	Pool Code 98220/98236	Pool Name PURPLE SAGE WOLFCAMP/WC-015 G-08 S233135D; WOLFCAMP
Property Code 322740	Property Name STERLING SILVER MDP1 "33-4" FEDERAL COM	Well Number 175H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3400.6'

Surface Location

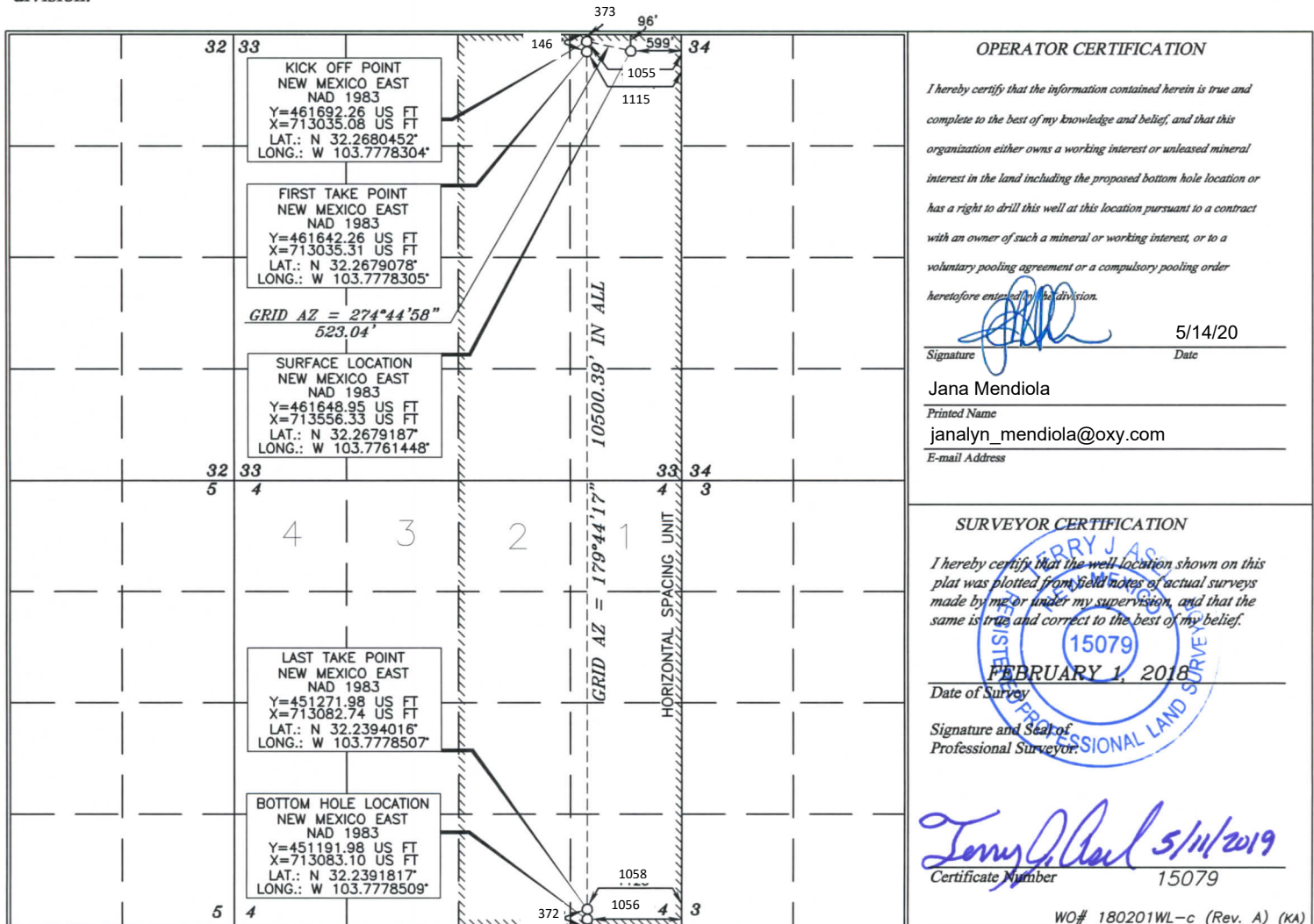
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	33	23 SOUTH	31 EAST, N.M.P.M.		96'	NORTH	599'	EAST	EDDY

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
P	4	24 SOUTH	31 EAST, N.M.P.M.		253	SOUTH	1056	EAST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No. NSL-7843
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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.



Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

September 17, 2019

OXY USA, Inc.
5 Greenway Plaza, Suite 110
Houston, TX 77046

S33, T23S, R31E Eddy, NM
N 32.2679187 W -103.7761448

Re:

CLIENT: OXY USA, Inc.
WELL: Sterling Silver MDP1 33-4 Fed Com 175H
FIELD: Purple Sage (Wolfcamp)

RIG: H&P 635
COUNTY: Eddy
API NO: 30-015-45388
JOB NO: 19MLH0240

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
JOSEPH AJAYI FE	STERLING SILVER MDP1 33-4 FED Original Hole	593.00 Ft to 21932.00 Ft	July 31, 2019 to August 30, 2019	TelePacer/SlimPulse Third Party Corrected

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
S33, T23S, R31E Eddy, NM
N 32.2679187 W -103.7761448

I, JOSEPH AJAYI certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of July 31, 2019 through August 30, 2019, conduct or supervise the taking of the TelePacer, SlimPulse & Third Party Corrected surveys from a depth of 593.00 feet to a depth of 21932.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA, Inc. for the STERLING SILVER MDP1 33-4 FED COM 175H Well (Original Hole) API No. 3001545388 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
JOSEPH AJAYI
FE

J. Ajayi

Subscribed and Sworn to before me this 19 day of September (month) 2019 (yr)

My Commission expires:

6/14/2023

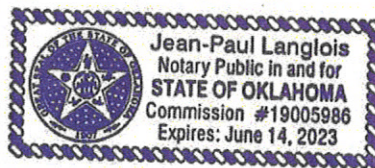
Jean-Paul Langlois

Notary Public

Comanche, Oklahoma

(County State)

(signature)





Critical Points										
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(°)/S(-)	E(°)/W(-)	DLS		
RKB	0.00	0.00	0.00	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	521.50	0.61	246.32	521.49	-0.46	0.55	-1.93	0.03		
KOP Actual	10906.00	6.28	242.54	10853.96	-447.56	469.12	-455.52	2.45		
Wolfcamp Intersection	11591.81	64.56	177.40	11404.00	-115.60	140.07	-526.16	8.80		
LL Crossed	11643.00	67.63	176.54	11424.45	-68.92	93.22	-523.57	2.73		
100' FNL Crossed	11750.00	70.42	177.43	11462.68	30.44	-6.52	-517.58	3.93		
330' FSL Crossed	21902.00	89.54	179.10	11630.40	10157.08	-10146.74	-458.25	0.14		
Final MWD	21932.00	89.50	179.11	11630.65	10187.02	-10176.74	-457.78	0.14		
Proj to TD	21975.00	89.50	179.11	11631.02	10229.94	-10219.73	-457.11	0.00		



Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975'MD

Survey Geodetic Report

(Def Survey)



Report Date: September 04, 2019 - 10:51 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Sterling Silver MDP1 33-4 Federal Com 175H / Oxy Sterling Silver MDP1 33-4 Federal Com 175H
 Well: Oxy Sterling Silver MDP1 33-4 Federal Com 175H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-45388
 Survey Name: Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975'MD
 Survey Date: July 26, 2019
 Tort / AHD / DDI / ERD Ratio: 249.316' / 11439.261 ft / 6.731 / 0.984
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 4.50743", W 103° 46' 34.12137"
 Location Grid N/E Y/X: N 461648.950 RUS, E 713556.330 RUS
 CRS Grid Convergence Angle: 0.2975°
 Grid Scale Factor: 0.99994306
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 182.649° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3427.100 ft above MSL
 Seabed / Ground Elevation: 3400.600 ft above MSL
 Magnetic Declination: 6.777°
 Total Gravity Field Strength: 998.4491mgN (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47948.400 nT
 Magnetic Dip Angle: 59.948°
 Declination Date: August 18, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.2975°
 Total Corr Mag North->Grid North: 6.4795°
 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	0.00	0.00	0.00	0.00	0.00	N/A	461648.95	713556.33	N 32 16 4.51	W 103 46 34.12
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461648.95	713556.33	N 32 16 4.51	W 103 46 34.12
	71.50	0.18	34.36	71.50	-0.06	0.06	0.04	0.40	461649.01	713556.37	N 32 16 4.51	W 103 46 34.12
	121.50	0.29	4.83	121.50	-0.25	0.25	0.09	0.32	461649.20	713556.42	N 32 16 4.51	W 103 46 34.12
	321.50	0.28	301.79	321.50	-1.00	1.01	-0.28	0.15	461649.96	713556.05	N 32 16 4.52	W 103 46 34.12
	421.50	0.59	248.33	421.49	-0.90	0.95	-0.96	0.48	461649.90	713555.67	N 32 16 4.52	W 103 46 34.13
	521.50	0.61	246.32	521.49	-0.46	0.55	-1.93	0.03	461649.50	713554.40	N 32 16 4.51	W 103 46 34.14
	593.00	0.41	221.05	592.99	-0.09	0.20	-2.45	0.41	461649.15	713553.88	N 32 16 4.51	W 103 46 34.15
	777.00	0.11	293.74	776.98	0.37	-0.23	-3.04	0.21	461648.72	713553.29	N 32 16 4.51	W 103 46 34.16
	962.00	0.08	1.70	961.98	0.17	-0.02	-3.20	0.06	461648.93	713553.13	N 32 16 4.51	W 103 46 34.16
	1054.00	0.11	74.22	1053.98	0.08	0.06	-3.11	0.12	461649.01	713553.22	N 32 16 4.51	W 103 46 34.16
	1237.00	0.13	268.91	1236.98	0.04	0.11	-3.15	0.13	461649.06	713553.18	N 32 16 4.51	W 103 46 34.16
	1330.00	0.06	125.99	1329.98	0.07	0.08	-3.22	0.20	461649.03	713553.11	N 32 16 4.51	W 103 46 34.16
	1427.00	0.06	273.32	1426.98	0.10	0.05	-3.23	0.12	461649.00	713553.10	N 32 16 4.51	W 103 46 34.16
	1518.00	0.13	53.32	1517.98	0.03	0.11	-3.19	0.20	461649.06	713553.14	N 32 16 4.51	W 103 46 34.16
	1612.00	0.13	224.31	1611.98	0.05	0.10	-3.18	0.28	461649.05	713553.15	N 32 16 4.51	W 103 46 34.16
	1801.00	0.06	319.00	1800.98	0.13	0.02	-3.40	0.08	461648.97	713552.94	N 32 16 4.51	W 103 46 34.16
	1990.00	0.13	318.95	1989.98	-0.09	0.26	-3.60	0.04	461649.21	713552.73	N 32 16 4.51	W 103 46 34.16
	2084.00	0.13	87.68	2083.98	-0.18	0.34	-3.56	0.25	461649.29	713552.77	N 32 16 4.51	W 103 46 34.16
	2179.00	0.08	288.28	2178.98	-0.21	0.37	-3.52	0.22	461649.32	713552.81	N 32 16 4.51	W 103 46 34.16
	2273.00	0.13	306.40	2272.98	-0.28	0.45	-3.67	0.06	461649.40	713552.66	N 32 16 4.51	W 103 46 34.16
	2368.00	0.06	40.41	2367.98	-0.38	0.55	-3.72	0.15	461649.50	713552.61	N 32 16 4.51	W 103 46 34.16
	2462.00	0.08	138.83	2461.98	-0.37	0.54	-3.65	0.11	461649.49	713552.68	N 32 16 4.51	W 103 46 34.16
	2651.00	0.11	357.13	2650.98	-0.46	0.62	-3.57	0.10	461649.57	713552.76	N 32 16 4.51	W 103 46 34.16
	2745.00	0.13	354.26	2744.98	-0.65	0.82	-3.58	0.02	461649.77	713552.75	N 32 16 4.52	W 103 46 34.16
	2839.00	0.08	67.07	2838.98	-0.79	0.95	-3.53	0.14	461649.90	713552.75	N 32 16 4.52	W 103 46 34.16
	2934.00	0.08	144.75	2933.98	-0.76	0.92	-3.44	0.11	461649.87	713552.80	N 32 16 4.52	W 103 46 34.16
	3123.00	0.08	26.54	3122.98	-0.78	0.93	-3.30	0.07	461649.88	713552.89	N 32 16 4.52	W 103 46 34.16
	3217.00	0.08	212.45	3216.98	-0.78	0.94	-3.31	0.17	461649.89	713553.02	N 32 16 4.52	W 103 46 34.16
	3311.00	0.06	125.25	3310.98	-0.70	0.85	-3.30	0.10	461649.80	713553.03	N 32 16 4.52	W 103 46 34.16
	3406.00	0.08	7.06	3405.98	-0.74	0.89	-3.25	0.13	461649.84	713553.08	N 32 16 4.52	W 103 46 34.16
	3500.00	0.18	133.02	3499.98	-0.71	0.86	-3.14	0.25	461649.81	713553.19	N 32 16 4.52	W 103 46 34.16
	3595.00	0.13	77.99	3594.98	-0.64	0.78	-2.92	0.16	461649.73	713553.41	N 32 16 4.52	W 103 46 34.16
	3689.00	0.06	202.47	3688.98	-0.62	0.75	-2.84	0.18	461649.70	713553.49	N 32 16 4.52	W 103 46 34.15
	3787.00	0.06	30.13	3787.98	-0.62	0.75	-2.82	0.06	461649.70	713553.51	N 32 16 4.51	W 103 46 34.15
	3972.00	0.17	100.64	3971.98	-0.64	0.76	-2.66	0.17	461649.71	713553.67	N 32 16 4.52	W 103 46 34.15
	4066.00	0.13	75.17	4065.98	-0.65	0.77	-2.42	0.08	461649.72	713553.91	N 32 16 4.52	W 103 46 34.15
	4161.00	0.13	88.88	4160.98	-0.69	0.80	-2.21	0.03	461649.75	713554.12	N 32 16 4.52	W 103 46 34.15
	4255.00	0.06	145.78	4254.98	-0.66	0.76	-2.08	0.12	461649.71	713554.25	N 32 16 4.52	W 103 46 34.15
	4282.00	0.08	263.04	4281.98	-0.65	0.74	-2.09	0.44	461649.69	713554.24	N 32 16 4.51	W 103 46 34.15
	4419.00	0.23	153.40	4418.98	-0.39	0.49	-2.06	0.20	461649.44	713554.27	N 32 16 4.51	W 103 46 34.15
	4609.00	0.12	71.02	4608.98	-0.13	0.21	-1.70	0.13	461649.16	713554.63	N 32 16 4.51	W 103 46 34.14
	4704.00	0.20	343.47	4703.98	-0.32	0.40	-1.65	0.24	461649.35	713554.68	N 32 16 4.51	W 103 46 34.14
	4799.00	0.08	228.85	4798.98	-0.43	0.52	-1.75	0.26	461649.47	713554.58	N 32 16 4.51	W 103 46 34.14
	4893.00	0.08	160.27	4892.98	-0.33	0.41	-1.78	0.10	461649.36	713554.55	N 32 16 4.51	W 103 46 34.14
	4988.00	0.07	337.92	4987.98	-0.32	0.40	-1.78	0.16	461649.35	713554.55	N 32 16 4.51	W 103 46 34.14
	5083.00	0.07	298.51	5082.98	-0.40	0.48	-1.85	0.05	461649.43	713554.48	N 32 16 4.51	W 103 46 34.14
	5178.00	0.07	93.26	5177.98	-0.42	0.51	-1.84	0.14	461649.46	713554.49	N 32 16 4.51	W 103 46 34.14
	5273.00	0.10	34.67	5272.98	-0.49	0.57	-1.74	0.09	461649.52	713554.59	N 32 16 4.51	W 103 46 34.14
	5368.00	0.12	5.84	5367.98	-0.66	0.74	-1.68	0.06	461649.69	713554.65	N 32 16 4.51	W 103 46 34.14
	5463.00	3.50	352.25	5462.92	-3.61	3.71	-2.06	3.56	461652.66	713554.27	N 32 16 4.54	W 103 46 34.15
	5558.00	7.70	352.02	5557.44	-12.73	12.89	-3.34	4.42	461661.84	713552.99	N 32 16 4.64	W 103 46 34.16
	5653.00	10.59	350.60	5651.23	-27.52	27.81	-5.65	3.05	461676.76	713550.68	N 32 16 4.78	W 103 46 34.19
	5748.00	13.66	352.14	5744.10	-47.09	47.54	-8.61	3.25	461696.49	713547.72	N 32 16 4.98	W 103 46 34.22
	5843.00	13.44	339.49	5838.47	-68.28	69.00	-14.01	3.12	461717.94	713542.32	N 32 16 5.19	W 103 46 34.28
	5938.00	12.24	334.64	5929.10	-87.32	88.44	-22.19	1.70	461737.38	713534.14	N 32 16 5.38	W 103 46 34.37
	6033.00	10.77	331.18	6022.19	-103.78	105.32	-30.78	1.71	461754.26	713525.55	N 32 16 5.55	W 103 46 34.47
	6128.00	10.09	333.44	6115.62	-118.62	120.54	-38.78	0.84	461769.48	713517.55	N 32 16 5.70	W 103 46 34.57
	6222.00	10.15	332.38	6208.16	-132.96	135.24	-46.31	0.21	461784.18	713510.03	N 32 16 5.85	W 103 46 34.65
	6317.00	10.42	332.90	6301.63	-147.65	150.31	-54.10	0.30	461799.25	713502.23	N 32 16 6.00	W 103 46 34.74
	6412.00	9.87	333.88	6395.14	-162.24	165.27	-61.60	0.61	461814.21	713494.73	N 32 16 6.15	W 103 46 34.83
	6507.00	9.89	333.37	6488.73	-176.49	179.87	-68.84	0.09	461828.81	713487.49	N 32 16 6.29	W 103 46 34.91
	6602.00	9.85	333.92	6582.33	-190.74	194.46	-76.07	0.11	461843.40	713480.26	N 32 16 6.44	W 103 46 35.00
	6697.00	9.99	324.69	6675.91	-204.36	208.48	-84.41	1.68	461857.42	713471.93	N 32 16 6.57	W 103 46 35.09
	6887.00	9.89	321.94	6863.06	-229.72	234.78	-103.99	0.26	461883.72	713452.35	N 32 16 6.84	W 103 46 35.32
	7077.00	9.83	312.60	7050.27	-252.51	258.61	-125.99	0.84	461907.54	713430.35	N 32 16 7.07	W 103 46 35.57
	7171.00	7.89	312.82	7143.14	-261.82	268.42	-145.23	2.06	461917.36	713419.71	N 32 16 7.17	W 103 46 35.70
	7266.00	6.26	312.56	7237.42	-269.35	276.36	-160.06	1.72	461925.29	713411.11	N 32 16 7.25	W 103 46 35.80
	7456.00	5.92	312.68	7426.34	-282.30	290.01	-174.09	0.18	461938.94	713396.28	N 32 16 7.39	W 103 46 35.97
	7646.00	5.20	307.53	7615.45	-293.53	301.90	-181.61	0.46	461950.83	713382.25	N 32 16 7.50	W 103 46 36.13
	7741.00	5.92	303.09	7710.00	-298.47	307.19	-189.87	0.88	461956.13	713374.73	N 32 16 7.56	W 103 46 36.22
	7836.00	5.71	298.56	7804.51	-303.02	312.13	-198.02	0.53	461961.06	713368.32	N 32 16 7.61	W 103 46 36.31
	7931.00	5.44	297.17	7899.06	-306.95	316.44	-215.03	0.32	461965.37	713358.32	N 32 16 7.65	W 103 46 36.41
	8121.00	5.69	287.25	8088.17	-313.06	323.35	-223.89	0.52	461972.28	713341.31	N 32 16 7.72	W 103 46 36.46
	8216.00	5.29	274.87	8182.74	-314.42	325.12	-223.89	1.31	461974.05	713332.45		

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8596.00	5.77	279.20	8560.72	-314.38	326.89	-262.93	1.25	461975.82	713293.41	N 32 16 7.76 W	103 46 37.16
	8691.00	5.51	290.24	8655.26	-316.31	329.23	-271.93	1.17	461978.16	713284.42	N 32 16 7.78 W	103 46 37.27
	8786.00	5.15	298.16	8749.85	-319.52	332.82	-279.97	0.86	461981.75	713276.38	N 32 16 7.82 W	103 46 37.36
	8881.00	4.09	301.74	8844.54	-323.00	336.61	-286.61	1.16	461985.54	713269.74	N 32 16 7.85 W	103 46 37.44
	8976.00	3.78	289.32	8939.32	-325.55	339.43	-292.44	0.95	461988.36	713263.90	N 32 16 7.88 W	103 46 37.51
	9071.00	3.23	279.08	9034.14	-326.75	340.89	-298.04	0.87	461989.82	713258.31	N 32 16 7.90 W	103 46 37.57
	9165.00	2.91	275.47	9128.01	-327.16	341.53	-303.03	0.40	461990.46	713253.32	N 32 16 7.90 W	103 46 37.63
	9260.00	4.75	279.95	9222.79	-327.40	342.06	-309.35	1.94	461990.99	713246.99	N 32 16 7.91 W	103 46 37.70
	9450.00	5.74	282.02	9411.99	-328.84	344.30	-326.56	0.59	461993.23	713229.79	N 32 16 7.93 W	103 46 37.90
	9545.00	7.07	285.17	9500.71	-330.40	346.34	-336.96	1.42	461995.27	713219.39	N 32 16 7.95 W	103 46 38.02
	9640.00	6.82	305.21	9690.04	-333.51	349.96	-347.78	1.69	461998.89	713208.57	N 32 16 7.99 W	103 46 38.15
	9735.00	6.79	317.56	9783.46	-338.69	355.60	-357.47	1.25	462004.52	713198.88	N 32 16 8.04 W	103 46 38.26
	9830.00	7.26	326.32	9877.39	-345.95	363.26	-368.11	1.66	462012.19	713190.24	N 32 16 8.12 W	103 46 38.36
	9925.00	8.27	334.93	9977.39	-357.78	373.38	-373.95	1.63	462022.31	713182.40	N 32 16 8.22 W	103 46 38.45
	10020.00	9.00	337.19	10070.19	-381.17	389.48	-380.89	1.56	462034.72	713175.46	N 32 16 8.34 W	103 46 38.53
	10114.00	9.33	346.11	10163.86	-395.96	414.52	-391.91	0.52	462048.41	713169.39	N 32 16 8.48 W	103 46 38.60
	10209.00	9.91	344.50	10257.47	-411.41	430.18	-396.01	1.68	462063.44	713164.44	N 32 16 8.63 W	103 46 38.66
	10304.00	9.72	331.35	10351.17	-425.60	444.65	-401.84	0.35	462079.10	713160.34	N 32 16 8.78 W	103 46 38.71
	10399.00	9.31	316.84	10445.06	-436.98	456.43	-410.25	2.32	462093.58	713154.51	N 32 16 8.93 W	103 46 38.77
	10494.00	8.35	303.75	10539.19	-444.85	464.75	-419.89	2.54	462105.35	713146.11	N 32 16 9.04 W	103 46 38.87
	10589.00	7.16	287.23	10633.45	-449.43	469.83	-430.59	2.23	462113.67	713136.47	N 32 16 9.13 W	103 46 38.98
	10684.00	7.32	273.21	10727.73	-451.01	471.95	-442.05	1.88	462118.76	713125.76	N 32 16 9.18 W	103 46 39.11
	10779.00	6.88	249.42	10822.14	-449.10	470.52	-452.39	2.93	462120.87	713114.30	N 32 16 9.20 W	103 46 39.24
	10874.00	6.01	242.54	10853.96	-447.56	469.12	-455.52	2.46	462119.44	713103.96	N 32 16 9.19 W	103 46 39.36
	10969.00	6.28	218.45	10997.10	-431.34	453.64	-471.94	4.65	462118.04	713100.84	N 32 16 9.17 W	103 46 39.40
	11051.00	12.00	213.32	11087.95	-408.23	431.23	-487.73	2.46	462102.56	713084.41	N 32 16 9.02 W	103 46 39.59
	11146.00	21.61	202.38	11173.63	-371.09	394.91	-506.29	9.65	462080.16	713068.63	N 32 16 8.80 W	103 46 39.78
	11241.00	29.50	189.29	11251.51	-318.29	342.70	-520.22	13.83	462043.83	713050.07	N 32 16 8.44 W	103 46 39.99
	11336.00	40.35	182.46	11318.14	-250.87	275.51	-526.78	11.85	461991.63	713036.14	N 32 16 7.93 W	103 46 40.16
	11431.00	50.51	179.30	11372.90	-173.40	198.01	-527.86	9.36	461924.45	713029.58	N 32 16 7.26 W	103 46 40.24
	11526.00	59.02							461846.95	713028.50	N 32 16 6.49 W	103 46 40.26
Wolfcamp Intersection	11591.81	64.56	177.40	11404.00	-115.60	140.07	-526.16	8.80	461789.01	713030.20	N 32 16 5.92 W	103 46 40.24
LL Crossed	11621.00	67.03	176.62	11415.97	-89.10	113.48	-524.78	8.80	461762.43	713031.59	N 32 16 5.66 W	103 46 40.23
	11643.00	67.63	176.54	11424.45	-68.92	93.22	-523.57	2.73	461742.16	713032.80	N 32 16 5.46 W	103 46 40.21
	11716.00	69.61	176.30	11451.06	-1.35	25.38	-519.32	2.73	461674.33	713037.04	N 32 16 4.79 W	103 46 40.17
100' FNL Crossed	11750.00	70.42	177.43	11462.68	30.44	-6.52	-517.58	3.93	461642.43	713038.78	N 32 16 4.47 W	103 46 40.15
	11811.00	71.88	179.44	11482.39	88.01	-64.23	-516.01	3.93	461584.73	713040.35	N 32 16 3.90 W	103 46 40.13
	11906.00	81.57	179.31	11504.18	180.21	-156.57	-515.00	10.20	461492.39	713041.36	N 32 16 2.98 W	103 46 40.13
	12001.00	88.62	181.34	11512.30	274.72	-251.16	-515.54	7.72	461397.81	713040.82	N 32 16 2.05 W	103 46 40.14
	12151.00	88.74	183.30	11515.76	424.67	-400.99	-521.61	1.31	461247.99	713034.75	N 32 16 0.57 W	103 46 40.22
	12246.00	90.01	184.02	11516.79	519.65	-495.79	-527.68	1.54	461153.19	713028.68	N 32 16 59.63 W	103 46 40.30
	12341.00	89.70	183.64	11517.03	614.63	-590.57	-534.02	0.52	461058.41	713022.34	N 32 16 58.69 W	103 46 40.38
	12436.00	90.26	183.36	11517.06	709.61	-685.39	-539.82	0.66	460963.60	713016.54	N 32 16 57.75 W	103 46 40.45
	12531.00	89.57	182.78	11517.21	804.61	-780.26	-544.91	0.95	460868.74	713011.45	N 32 16 56.81 W	103 46 40.51
	12626.00	87.57	181.34	11519.58	899.57	-875.16	-548.32	2.59	460773.84	713008.04	N 32 16 55.88 W	103 46 40.56
	12721.00	86.68	180.17	11524.34	994.39	-970.03	-549.57	1.55	460678.98	713006.79	N 32 16 54.94 W	103 46 40.58
	12816.00	87.95	181.37	11528.79	1089.24	-1064.91	-550.85	1.84	460584.10	713005.51	N 32 16 54.00 W	103 46 40.60
	13006.00	88.47	179.87	11534.73	1279.02	-1254.80	-552.91	0.84	460394.22	713003.46	N 32 16 52.12 W	103 46 40.64
	13098.00	88.07	179.91	11537.50	1370.87	-1346.76	-552.73	0.44	460302.27	713003.63	N 32 16 51.21 W	103 46 40.64
	13193.00	88.18	179.75	11540.61	1465.70	-1441.71	-552.45	0.20	460207.33	713003.92	N 32 16 50.27 W	103 46 40.64
	13383.00	88.45	180.12	11546.20	1655.41	-1631.63	-552.23	0.24	460017.42	713004.13	N 32 16 48.39 W	103 46 40.65
	13478.00	88.66	178.62	11548.60	1750.22	-1726.59	-551.19	1.59	459922.46	713005.18	N 32 16 47.45 W	103 46 40.64
	13573.00	88.69	177.97	11550.79	1844.92	-1821.52	-548.36	0.68	459827.54	713008.00	N 32 16 46.51 W	103 46 40.62
	13763.00	89.21	178.28	11554.27	2034.29	-2011.38	-542.15	0.32	459637.68	713014.22	N 32 16 44.63 W	103 46 40.56
	13953.00	89.31	176.70	11556.73	2223.50	-2201.18	-533.83	0.83	459447.90	713022.54	N 32 16 42.75 W	103 46 40.47
	14048.00	90.34	176.73	11557.02	2317.99	-2296.02	-528.38	1.08	459353.06	713027.98	N 32 16 41.82 W	103 46 40.41
	14143.00	89.00	178.41	11557.57	2412.61	-2390.93	-524.35	2.26	459258.16	713032.01	N 32 16 40.88 W	103 46 40.37
	14333.00	88.73	177.63	11561.33	2601.95	-2580.78	-517.79	0.43	459068.32	713038.57	N 32 16 39.00 W	103 46 40.31
	14523.00	89.93	177.06	11563.55	2791.12	-2770.56	-508.99	0.70	458878.56	713047.37	N 32 16 37.12 W	103 46 40.22
	14618.00	90.21	177.29	11563.43	2885.69	-2865.44	-504.31	0.38	458783.68	713052.05	N 32 16 36.18 W	103 46 40.17
	14808.00	89.41	177.80	11564.06	3074.93	-3055.26	-496.17	0.50	458593.87	713060.19	N 32 16 34.30 W	103 46 40.08
	14998.00	89.28	179.47	11566.24	3264.45	-3245.19	-491.64	0.88	458403.95	713064.71	N 32 16 32.42 W	103 46 40.04
	15187.00	88.45	180.35	11569.98	3453.19	-3434.15	-491.35	0.64	458215.00	713065.01	N 32 16 30.55 W	103 46 40.05
	15282.00	89.52	180.34	11571.66	3648.10	-3529.13	-491.92	1.13	458120.03	713064.44	N 32 16 29.61 W	103 46 40.06
	15377.00	90.43	181.31	11571.71	3843.05	-3624.12	-493.29	1.40	458025.04	713063.07	N 32 16 28.67 W	103 46 40.08
	15472.00	89.09	182.61	11572.10	3738.04	-3719.06	-496.54	1.97	457930.11	713059.82	N 32 16 27.73 W	103 46 40.13
	15567.00	90.50	183.42	11572.44	3833.03	-3813.92	-501.53	1.71	457835.25	713054.83	N 32 16 26.79 W	103 46 40.19
	15661.00	91.50	184.01	11570.80	3927.00	-3907.71	-507.62	1.24	457741.47	713048.74	N 32 16 25.87 W	103 46 40.27
	15756.00	91.15	181.74	11568.61	4021.96	-4002.56	-512.39	2.42	457646.63	713043.97	N 32 16 24.93 W	103 46 40.33
	15851.00	90.91	181.75	11566.90	4116.94	-4097.50	-515.28	0.25	457551.69	713041.08	N 32 16 23.99 W	103 46 40.37
	16042.00	91.46	180.16	11562.95	4307.81	-4288.42	-518.46	0.88	457360.78	713037.90	N 32 16 22.10 W	103 46 40.42
	16136.00	91.12	179.69	11560.83	4401.68	-4478.40	-518.25	0.62	457268.81	713038.02	N 32 16 21.17 W	103 46 40.43
	16232.00	89.74	180.21	11560.11	4497.56	-4573.39	-518.55	1.54	457170.82	713038.11	N 32 16 20.22 W	103 46 40.42
	16327.00	89.74	180.15	11560.54	4592.47	-4668.38	-519.32	0.06	457075.83	713037.81	N 32 16 19.28 W	103 46 40.44
	16422.00	89.02	180.77	11561.57	4687.40	-4763.37	-519.46	1.00	456980.84	713037.05	N 32 16 18.34 W	103 46 40.45
	16517.00	88.92	179.41	11563.28	4782.29	-4857.34	-519.19	1.44	456885.86	713036.90	N 32 16 17.40 W	103 46 40.46
	16611.00	88.71	180.25									

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 ° ' ")
	20313.00	90.02	179.35	11606.47	8571.92	-8558.41	-490.35	0.63	453091.05	713066.01	N 32 14 39.85	W 103 46 40.35
	20503.00	89.61	179.60	11607.09	8761.63	-8748.40	-488.61	0.25	452901.07	713067.75	N 32 14 37.97	W 103 46 40.34
	20598.00	90.88	178.88	11606.88	8856.46	-8843.39	-487.35	1.54	452806.09	713069.01	N 32 14 37.03	W 103 46 40.33
	20692.00	87.75	178.15	11607.80	8950.20	-8937.33	-484.91	3.42	452712.14	713071.45	N 32 14 36.10	W 103 46 40.31
	20787.00	88.33	178.34	11611.05	9044.86	-9032.23	-482.00	0.64	452617.25	713074.35	N 32 14 35.16	W 103 46 40.28
	20877.00	88.61	179.03	11616.13	9234.34	-9222.11	-477.65	0.39	452427.38	713078.71	N 32 14 33.28	W 103 46 40.24
	21072.00	88.37	179.52	11618.63	9329.14	-9317.07	-476.44	0.57	452332.43	713079.91	N 32 14 32.34	W 103 46 40.23
	21262.00	89.19	177.48	11622.68	9518.59	-9506.95	-471.47	1.16	452142.56	713084.89	N 32 14 30.46	W 103 46 40.19
	21357.00	89.33	179.14	11623.90	9613.30	-9601.90	-468.67	1.75	452047.61	713087.69	N 32 14 29.52	W 103 46 40.16
	21452.00	89.57	179.18	11624.81	9708.12	-9696.89	-467.28	0.26	451952.63	713089.08	N 32 14 28.58	W 103 46 40.15
	21642.00	89.50	178.96	11626.36	9897.74	-9886.86	-464.19	0.12	451762.88	713092.16	N 32 14 26.70	W 103 46 40.12
	21737.00	88.30	178.06	11628.18	9992.48	-9981.80	-461.72	1.58	451667.74	713094.63	N 32 14 25.76	W 103 46 40.10
	21833.00	89.64	179.09	11629.91	10088.21	-10077.75	-459.34	1.76	451571.79	713097.02	N 32 14 24.81	W 103 46 40.08
330' FSL	21902.00	89.54	179.10	11630.40	10157.08	-10146.74	-458.25	0.14	451502.80	713098.11	N 32 14 24.13	W 103 46 40.07
Crossed												
Final MWD	21932.00	89.50	179.11	11630.65	10187.02	-10176.74	-457.78	0.14	451472.81	713098.57	N 32 14 23.83	W 103 46 40.07
Proj to TD	21975.00	89.50	179.11	11631.02	10229.94	-10219.73	-457.11	0.00	451429.82	713099.24	N 32 14 23.41	W 103 46 40.06

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	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975MD
	1	26.500	26.500	Act Stns	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975MD
	1	26.500	521.500	Act Stns	30.000	30.000	GYD_GC+DROP+OH	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975MD
	1	521.500	5178.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975MD
	1	5178.000	12001.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975MD
	1	12001.000	13006.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975MD
	1	13006.000	21975.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 175H Gyro + MWD 0-21975MD