

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 21 2019

Form C-102

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

Revised August 1, 2011

Submit one copy to appropriate

RECEIVED

District Office

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

AMENDED REPORT
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45387	Pool Code 98220 / 98236	Pool Name PURPLE SAGE WOLFCAMP / WOLF CAMP.
Property Code 322740	Property Name STERLING SILVER MDP1 "33-4" FEDERAL COM	Well Number 8H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3386.2'

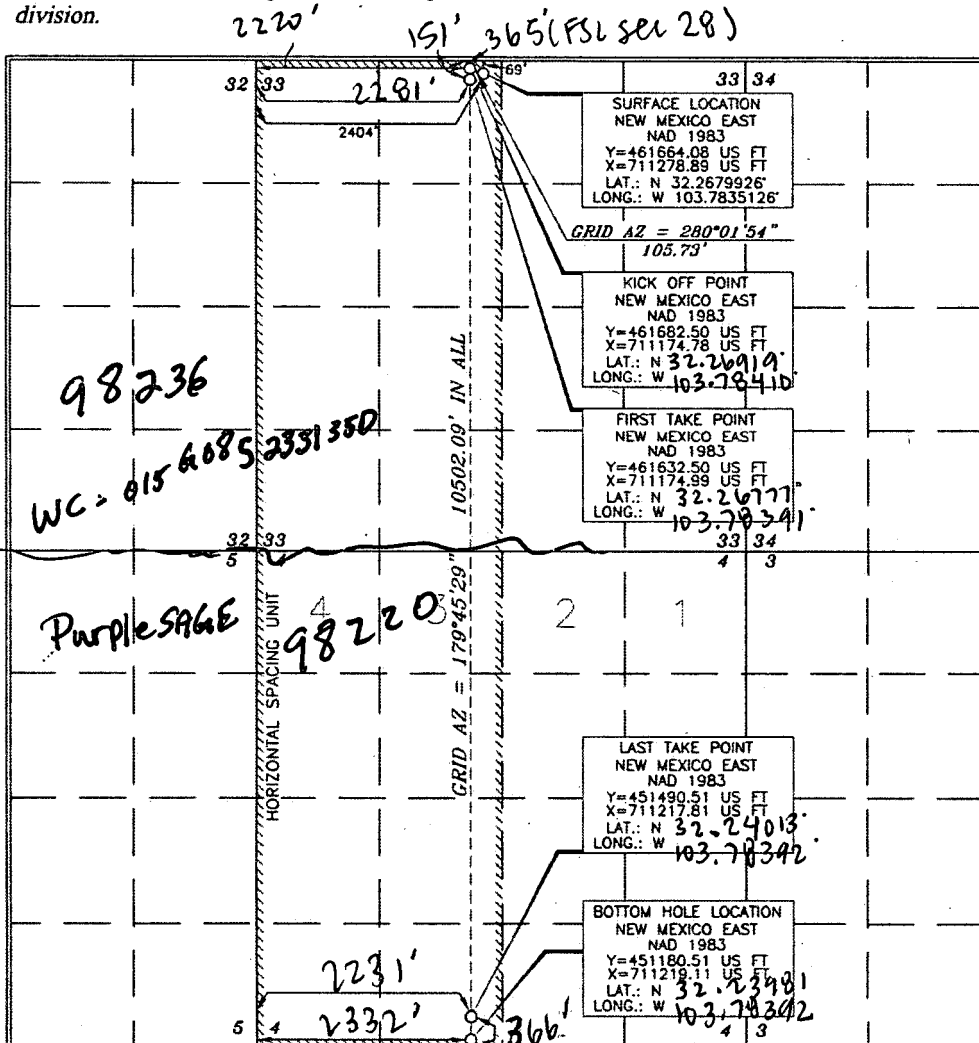
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	33	23 SOUTH	31 EAST, N.M.P.M.		69'	NORTH	2404'	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
N	4	24 SOUTH	31 EAST, N.M.P.M.		250'	SOUTH	2332'	WEST	EDDY
Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.						

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: Garry Messer Date: _____

Printed Name: EMILY MESSER
E-mail Address: EMILY_MESSER@OXY.COM

SURVEYOR CERTIFICATION

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

Date of Survey: FEBRUARY 2, 2018

Signature and Seal: [Signature]
Professional Surveyor

Certificate Number: 15079

Allocate Prod. for Reporting Dual Pool Completion.

NM OIL CONSERVATION

ARTESIA DISTRICT

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Intent As Drilled

API #
30-015-45387

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Operator Name: OXY USA INC.	Property Name: STERLING SILVER MDP1 33-4 FED COM	Well Number 8H
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Kick Off Point (KOP)

UL N	Section 28	Township 23S	Range 31E	Lot	Feet 365	From N/S NORTH	Feet 2200	From E/W WEST	County EDDY
Latitude 32.26919					Longitude -103.78410			NAD NAD83	

First Take Point (FTP)

UL C	Section 33	Township 23S	Range 31E	Lot	Feet 151	From N/S NORTH	Feet 2281	From E/W WEST	County EDDY
Latitude 32.26777					Longitude -103.78391			NAD NAD83	

Last Take Point (LTP)

UL N	Section 4	Township 24S	Range 31E	Lot	Feet 366	From N/S SOUTH	Feet 2331	From E/W WEST	County EDDY
Latitude 32.24013					Longitude -103.78392			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

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)



September 13, 2019

OXY USA Incorporated
P.O. BOX 2289
Houston, TX 77252

Re:

S33, T23S, R31E, Eddy NM
N 32.26799 W -103.7835126

CLIENT: OXY USA Incorporated
WELL: Sterling Silver MDP1 33-4 Fed Com 8H
FIELD: Ingle Wells

RIG: H&P 657
COUNTY: Eddy
API NO: 30-015-45387
JOB NO: 19MLH0275

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>
J. Sousa FE	Sterling Silver MDP1 33-4 FED COM 8H Original Hole	599.00 Ft to 21917.00 Ft	July 31, 2019 to September 9, 2019	SlimPulse Third Party Corrected

Gilfield 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 32.26799 W -103.7835126

I, J. Sousa 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 September 09, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 599.00 feet to a depth of 21917.00 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 Incorporated for the Sterling Silver MDP1 33-4 FED COM 8H Well (Original Hole) API No. 30-015-45387 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
Jessica Sousa *jsousa*
FE

Subscribed and Sworn to before me this 25 day of September (month) 2019 (yr)

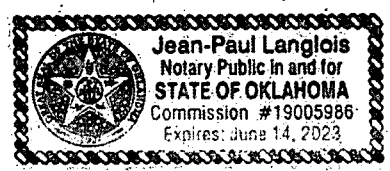
My Commission expires:
6/14/2023

Jean-Paul Langlois

(signature)

Notary Public
Cowanche Oklahoma

(County State)





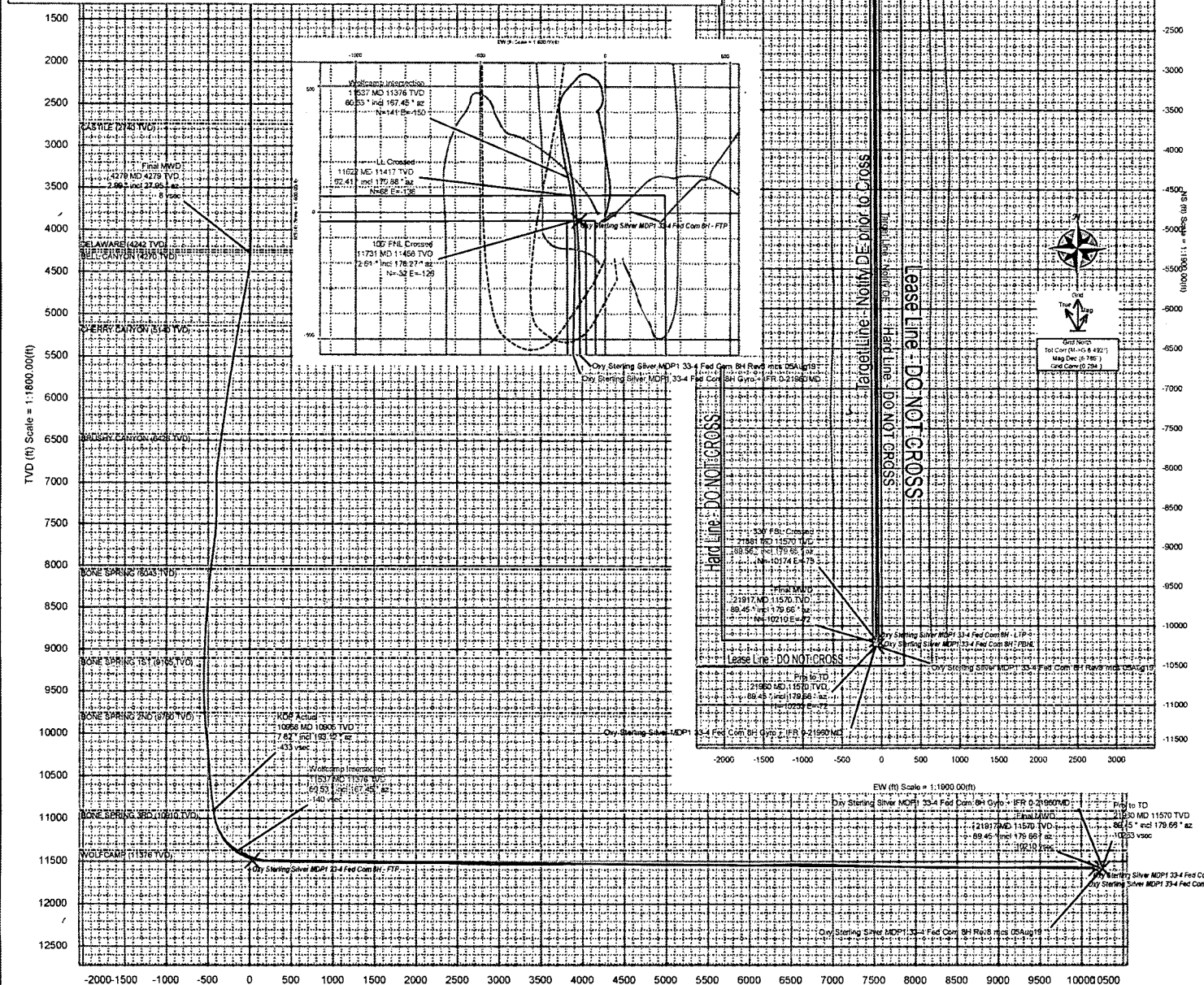
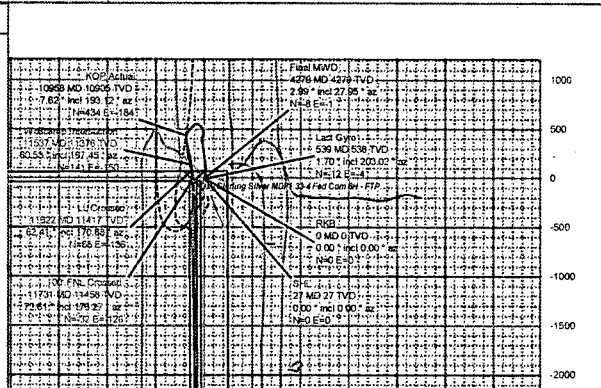
OXY



Borehole: Original Borehole	Well: Sterling Silver MDP1 33-4 Fed Com 8H	Field: NM Eddy County (NAD 83)	Structure: Oxy Sterling Silver MDP1 33-4 Federal Com 8H
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Gravity & Magnetic Parameters		Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet			Miscellaneous	
Model: IFR1	Dip: 59.949°	Date: 30-Aug-2019	Lat: N 32 16 4.77	Northing: 461864.08NUS	Grid Conv: 0.2936'	Slot: Oxy Sterling Silver MDP1 33-4 TVD Ref: RKB=26.5'(3412.7ft above MSL)
MagDec: 6.786°	FS: 47943.1nT	Gravity FS: 988.45mgN (9.80665 Based)	Lon: W 103 47 0.65	Easting: 711278.89NUS	Scale Fact: 0.99994217	Plan: Oxy Sterling Silver MDP1 33-4 Fed Com 8H Gyro + IFR 0-21960'MD

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	0.00
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	538.60	1.70	203.02	538.44	11.78	-11.76	-4.06	0.43
Final MWD	4279.00	2.99	27.95	4278.64	7.97	-7.97	-0.81	0.87
KOP Actual	10958.00	7.82	193.12	10959.01	-433.07	434.17	-183.61	1.27
Wolfcamp Intersection	11537.36	60.53	167.45	11376.00	-140.40	141.30	-150.45	3.78
LL Crossed	11622.00	62.41	170.88	11416.73	-67.64	68.46	-136.44	11.38
100' FNL Crossed	11731.00	72.61	176.27	11457.80	32.50	-31.75	-125.88	6.21
330' FSL Crossed	21881.00	89.56	179.65	11569.68	10174.30	-10174.05	-72.58	0.30
Final MWD	21917.00	89.45	179.66	11569.99	10210.30	-10210.05	-72.37	0.30
Proj to TD	21960.00	89.45	179.66	11570.40	10253.30	-10253.05	-72.11	0.00



Vertical Section (ft) Azim = 180.34° Scale = 1:1800.00(ft) Origin = 0N/-S, 0E/-W

Oxy Sterling Silver MDP1 33-4 Fed Com 8H Gyro + IFR 0-21960 MD Survey Geodetic Report (Def Survey)



NM OIL CONSERVATION ARTESIA DISTRICT

OCT 21 2019

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Report Date: September 11, 2019 - 10:40 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Sterling Silver MDP1 33-4 Federal Com 8H / Oxy Sterling Silver MDP1 33-4 Federal Com 8H
Well: Sterling Silver MDP1 33-4 Fed Com 8H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-45387
Survey Name: Oxy Sterling Silver MDP1 33-4 Fed Com 8H Gyro + IFR 0-21960 MD
Survey Date: July 11, 2019
Tort / AHD / DDI / ERD Ratio: 283.538 * / 11506.667 ft / 6.792 / 0.994
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 4.77338", W 103° 47' 0.64536"
Location Grid N/E Y/X: N 461664.080 IJUS, E 711278.690 IJUS
CRS Grid Convergence Angle: 0.2935°
Grid Scale Factor: 0.99994217
Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 180.341° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3412.700 ft above MSL
Seabed / Ground Elevation: 3386.200 ft above MSL
Magnetic Declination: 6.786°
Total Gravity Field Strength: 998.4500mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47943.100 nT
Magnetic Dip Angle: 59.949°
Declination Date: August 30, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2935°
Total Corr Mag North->Grid North: 6.4925°
Local Coord Referenced To: Well Head

Table with columns: Comments, MD (ft), Incl (°), Azim Grid (°), TVD (ft), VSEC (ft), NS (ft), EW (ft), DLS (°/100ft), Northing (IJUS), Easting (IJUS), Latitude (N/S ° ' "), Longitude (E/W ° ' "). Rows include RKB, SHL, Last Gyro, and Final MWD.

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 °'")
	19131.00	88.35	179.49	11552.91	7425.35	-7425.06	-70.85	0.70	454239.46	711208.04	N 32 14 51.31	W 103 47 1.91
	19226.00	88.31	179.59	11556.68	7520.30	-7520.02	-70.09	0.11	454144.51	711208.80	N 32 14 50.37	W 103 47 1.91
	19320.00	88.48	179.50	11558.31	7614.25	-7613.98	-69.35	0.20	454050.56	711209.55	N 32 14 49.44	W 103 47 1.91
	19414.00	87.76	179.04	11561.40	7708.19	-7707.92	-68.15	0.91	453956.62	711210.75	N 32 14 48.51	W 103 47 1.90
	19509.00	89.34	180.14	11563.80	7803.14	-7802.88	-67.47	2.03	453861.67	711211.42	N 32 14 47.57	W 103 47 1.90
	19604.00	88.79	180.07	11565.35	7898.13	-7897.87	-67.64	0.58	453766.69	711211.25	N 32 14 46.63	W 103 47 1.91
	19793.00	87.52	179.61	11571.44	8087.02	-8086.76	-67.12	0.71	453577.80	711211.78	N 32 14 44.76	W 103 47 1.91
	19888.00	88.69	179.29	11574.58	8181.95	-8181.71	-66.20	1.28	453482.86	711212.69	N 32 14 43.82	W 103 47 1.90
	19983.00	89.86	179.49	11575.78	8276.93	-8276.69	-65.19	1.25	453387.88	711213.70	N 32 14 42.88	W 103 47 1.90
	20077.00	90.27	180.44	11575.67	8370.93	-8370.69	-65.14	1.10	453293.89	711213.76	N 32 14 41.95	W 103 47 1.90
	20172.00	90.51	179.25	11575.03	8465.92	-8465.69	-64.88	1.28	453198.90	711214.01	N 32 14 41.01	W 103 47 1.91
	20361.00	90.93	180.25	11572.65	8654.89	-8654.67	-64.05	0.57	453009.93	711214.84	N 32 14 39.14	W 103 47 1.91
	20456.00	89.62	178.47	11572.20	8749.87	-8749.65	-62.99	2.33	452914.95	711215.90	N 32 14 38.20	W 103 47 1.90
	20550.00	88.38	177.96	11573.84	8843.79	-8843.59	-60.07	1.43	452821.02	711216.83	N 32 14 37.27	W 103 47 1.87
	20645.00	90.44	179.19	11574.81	8938.73	-8938.55	-57.70	2.53	452726.07	711221.19	N 32 14 36.33	W 103 47 1.85
	20739.00	90.89	180.06	11573.72	9032.72	-9032.54	-57.09	1.04	452632.08	711221.80	N 32 14 35.40	W 103 47 1.85
	20834.00	92.23	180.40	11571.14	9127.68	-9127.50	-57.47	1.46	452537.12	711221.42	N 32 14 34.46	W 103 47 1.86
	20929.00	90.00	179.44	11569.29	9222.65	-9222.48	-57.34	2.56	452442.16	711221.56	N 32 14 33.52	W 103 47 1.86
	21024.00	90.75	180.42	11568.67	9317.65	-9317.47	-57.22	1.30	452347.17	711221.67	N 32 14 32.58	W 103 47 1.87
	21118.00	90.17	181.51	11567.91	9411.64	-9411.45	-58.80	1.31	452253.19	711220.09	N 32 14 31.65	W 103 47 1.89
	21213.00	90.31	183.18	11567.51	9506.58	-9506.37	-62.69	1.76	452158.28	711218.20	N 32 14 30.71	W 103 47 1.94
	21403.00	89.76	182.79	11567.40	9696.37	-9696.11	-72.58	0.35	451968.55	711208.31	N 32 14 28.83	W 103 47 2.07
	21498.00	89.79	180.24	11567.77	9791.34	-9791.07	-75.10	2.68	451873.60	711203.80	N 32 14 27.89	W 103 47 2.10
	21687.00	89.62	179.20	11568.74	9980.33	-9980.06	-74.17	0.56	451684.61	711204.72	N 32 14 26.02	W 103 47 2.10
	21782.00	89.86	179.63	11569.18	10075.31	-10075.06	-73.20	0.52	451589.63	711205.69	N 32 14 25.08	W 103 47 2.10
330' FSL Crossed	21881.00	89.56	179.65	11569.68	10174.30	-10174.05	-72.58	0.30	451490.64	711206.31	N 32 14 24.11	W 103 47 2.10
Final MWD	21917.00	89.45	179.66	11569.99	10210.30	-10210.05	-72.37	0.30	451454.64	711206.53	N 32 14 23.75	W 103 47 2.10
Proj to TD	21960.00	89.45	179.66	11570.40	10253.30	-10253.05	-72.11	0.00	451411.65	711206.78	N 32 14 23.32	W 103 47 2.10

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	26.500	1/98.425	30.000	30.000	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Sterling Silver MDP1 33-4 Fed Com 8H Gyro + IFR 0-21960'MD
	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 Fed Com 8H Gyro + IFR 0-21960'MD
	1	26.500	538.600	Act Stns	30.000	30.000	GYD_GC+DROP+OH	Original Borehole / Oxy Sterling Silver MDP1 33-4 Fed Com 8H
	1	538.600	4279.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	Original Borehole / Oxy Sterling Silver MDP1 33-4 Fed Com 8H
	1	4279.000	21960.000	Act Stns	30.000	30.000	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Sterling Silver MDP1 33-4 Fed Com 8H Gyro + IFR 0-21960'MD