

RECEIVED

JAN 31 2020

Form C-102

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) 749-1283 Fax: (575) 749-0720

District III
1000 Rio Grande 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
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

BAND-OCDA-ARTESIA

Received August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45233	Pool Code 90220	Pool Name Purple Sage No. 1
Property Code 322245	Property Name PLATINUM MDP1 "34-3" FEDERAL COM	Well Number 176H
OGRID No. 16096	Operator Name OXY USA INC.	Elevation 3442.8'

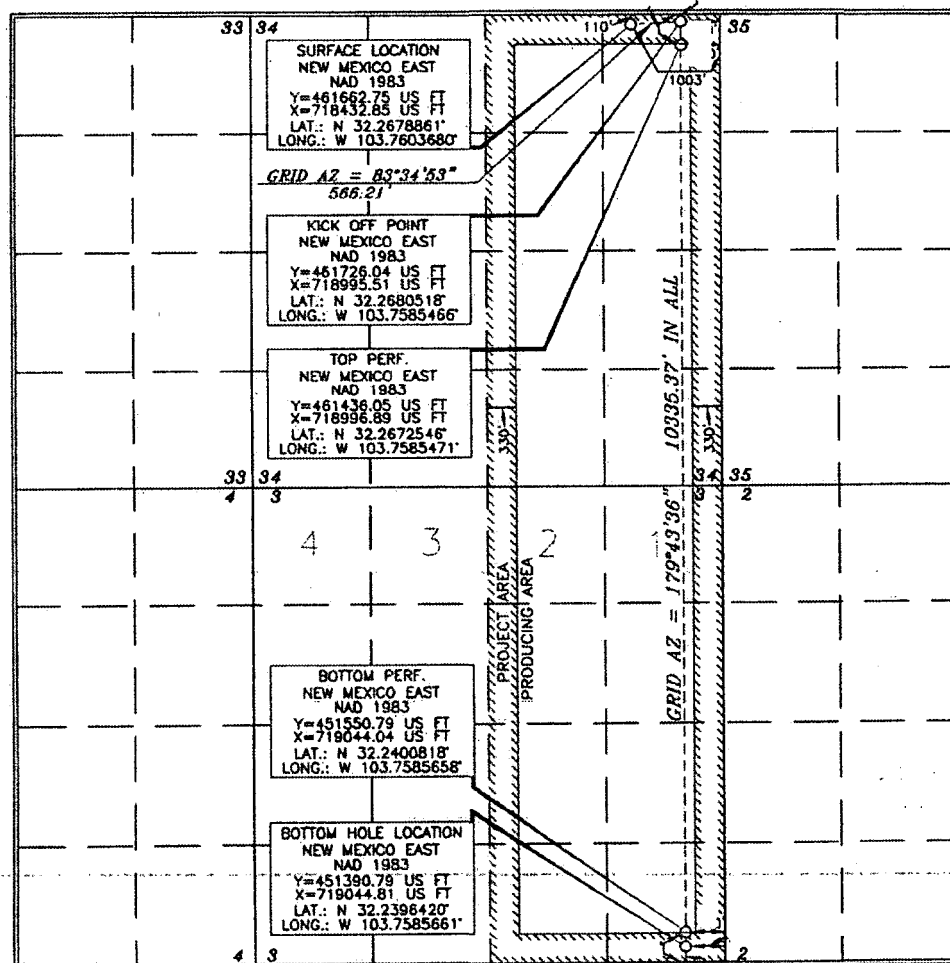
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	23 SOUTH	31 EAST, N.M.P.M.		110'	NORTH	1003'	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	3	24 SOUTH	31 EAST, N.M.P.M.		238	SOUTH	356	EAST	EDDY
Dedicated Acres 6.40	Joint or Infill	Consolidation Code	Order No. NSV# 7840						

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 a leased 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.

Joseph Chapman 9/11/19
Signature Date
Joseph Chapman
Printed Name
Joseph.Chapman@oxy.com
Email Address

SURVEYOR CERTIFICATION

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

JERRY J. ASE
15079
JANUARY 29, 2018
Date of Survey
Signature and Seal of Professional Surveyor

Joseph Chapman 3/7/2018
Certificate Number 15079

WO# 180129WL-d (KA)

Intent ☐ As Drilled ☒

API # 30-015-45233			
Operator Name: Oxy WA Inc.		Property Name: Platinum HDPI 34-3 Federal Com	Well Number: 176H

Kick Off Point (KOP)

UL A	Section 34	Township 23S	Range 31E	Lot	Feet 94	From N/S NORTH	Feet 564	From E/W east	County EDS
Latitude 32.26793					Longitude -103.75895				NAD NAD83

First Take Point (FTP)

UL A	Section 34	Township 23S	Range 31E	Lot	Feet 532	From N/S NORTH	Feet 452	From E/W east	County EDS
Latitude 32.26711					Longitude -103.75859				NAD NAD83

Last Take Point (LTP)

UL P	Section 3	Township 24S	Range 31E	Lot	Feet 345	From N/S South	Feet 384	From E/W east	County EDS
Latitude 32.24009					Longitude -103.75854				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)

Schlumberger

August 9, 2019

Oxy USA Incorporated
5 Greenway Plaza, Suite 110
Houston, TX 77046-0521

RECEIVED

JAN 31 2020

EMNRD-OCD ARTESIA

Re:

34, 23S, 31E, Eddy NM
N 32.2678861 W -103.760368

CLIENT: Oxy USA Incorporated
WELL: Platinum MDP1 34-3 Federal Com 176H
FIELD: Purple Sage-Wolfcamp (GAS)

RIG: HP556
COUNTY: Eddy
API NO: 30-015-45233
JOB NO: 19MLH0227

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>
Tyler Matthews FE	Platinum MDP1 34-3 Federal Com 176H Original Hole	769.00 Ft to 21857.00 Ft	June 25, 2019 to August 1, 2019	SlimPulse Third Party Corrected

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Andrew Salomón
Field Service Manager

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)

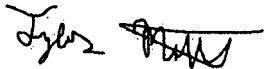
Schlumberger

Well Reference:

34, 23S, 31E, Eddy NM
N 32.2678861 W -103.760368

I, Tyler Matthews certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 25, 2019 through August 01, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 769.00 feet to a depth of 21857.00 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 Platinum MDP1 34-3 Federal Com 176H Well (Original Hole) API No. 30-015-45233 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
Tyler Matthews
FE



Subscribed and Sworn to before me this 13 day of August (month) 2019 (yr)

My Commission expires:

6/14/2023

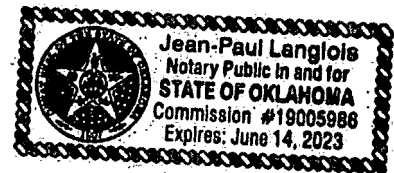


Notary Public

Comanche, Oklahoma

(County State)

(signature)



Schlumberger

OXY



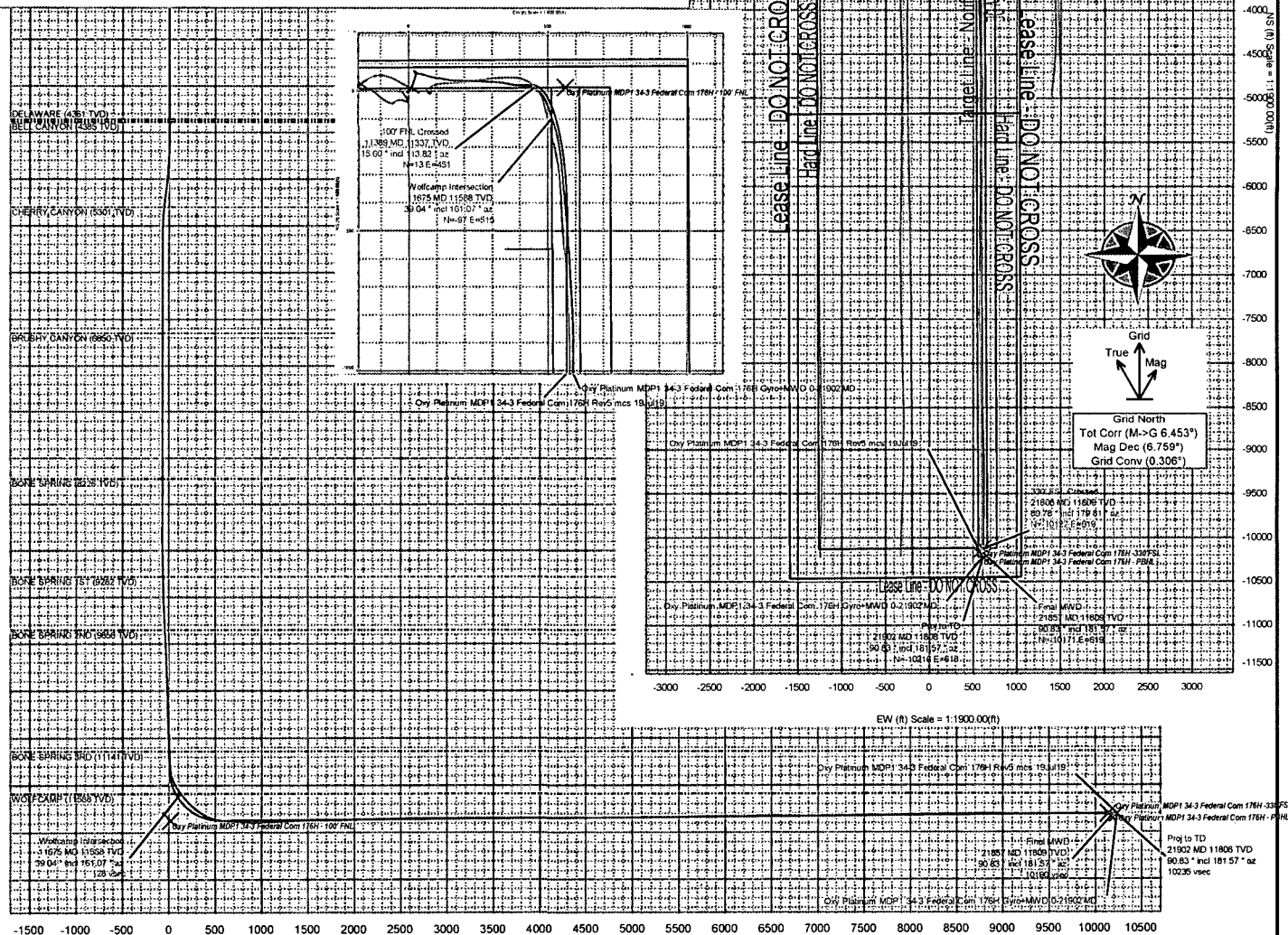
Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Platinum MDP1 34-3 Federal Com 176H	NM Eddy County (NAD 83)	Oxy Platinum MDP1 34-3 Federal Com 176H

Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: IFR1	Lat: N 32 16 4.39	Northings: 481662.758US	Slot: MDP1 34-3 Federal Com
Dip: 59.947°	Lon: W 103 45 37.32	Eastings: 718432.858US	TVD Ref: RKB(3472.8ft above MSL)
Date: 22-Jul-2019		Grid Conv: 0.3059°	Plan: Oxy Platinum MDP1 34-3 Federal Com 176H Gyr+MWD 0-21902 MD
MagDec: 6.759°		Scale Fact: 0.99994501	
FS: 47958.1nT			
Gravity FS: 998.446mg (9.80665 Based)			

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
WRP	0.00	0.00	176.59	0.00	0.00	0.00	0.00	
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	
Last Gyro	685.00	1.07	245.92	684.96	2.51	-2.77	-4.26	0.15
KOP Actual	11338.00	12.93	97.08	11287.33	10.09	16.18	439.11	1.86
100' FNL Crossed	11389.00	15.60	113.82	11336.78	14.27	12.71	451.06	9.59
Wolfcamp Intersection	11674.80	39.04	161.07	11588.00	127.60	-96.97	515.37	3.33
330' FSL Crossed	21808.00	89.78	179.81	11808.89	10140.96	-10122.03	619.46	0.86
Final MWD	21857.00	90.83	181.57	11808.66	10189.83	-10171.02	618.92	4.51
Proj to TD	21902.00	90.83	181.57	11808.01	10234.66	-10216.00	617.69	0.00

TVD (ft) Scale = 1:1800.00(ft)



Vertical Section (ft) Azim = 176.57° Scale = 1:1800.00(ft) Origin = 0N/-S, 0E/-W

Oxy Platinum MDP1 34-3 Federal Com 176H Gyro+MWD 0-21902'MD

Survey Geodetic Report

(Def Survey)



Report Date: August 01, 2019 - 02:11 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Platinum MDP1 34-3 Federal Com 176H / Oxy Platinum MDP1 34-3 Federal Com 176H
Well: Oxy Platinum MDP1 34-3 Federal Com 176H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-45233
Survey Name: Oxy Platinum MDP1 34-3 Federal Com 176H Gyro+MWD 0-21902'MD
Survey Date: June 20, 2019
Tort / AHD / DDI / ERD Ratio: 278.851' / 10817.273 ft / 6.745 / 0.910
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 4.38990", W 103° 45' 37.32479"
Location Grid N/E Y/X: N 461662.750 ftUS, E 718432.850 ftUS
CRS Grid Convergence Angle: 0.3059°
Grid Scale Factor: 0.99994501
Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 176.574° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3472.800 ft above MSL
Seabed / Ground Elevation: 3442.800 ft above MSL
Magnetic Declination: 6.759°
Total Gravity Field Strength: 998.4462mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47958.100 nT
Magnetic Dip Angle: 59.947°
Declination Date: July 22, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.3059°
Total Corr Mag North->Grid North: 6.4531°
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 ° ' ")
WRP	0.00	0.00	176.59	0.00	0.00	0.00	0.00	N/A	461662.75	718432.85	N 32 16 4.39	W 103 45 37.32
SHL	30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	461662.75	718432.85	N 32 16 4.39	W 103 45 37.32
	105.00	0.53	223.97	105.00	0.23	-0.25	-0.24	0.71	461662.50	718432.61	N 32 16 4.39	W 103 45 37.33
	138.00	0.61	228.55	138.00	0.45	-0.48	-0.48	0.28	461662.27	718432.37	N 32 16 4.39	W 103 45 37.33
	221.00	0.58	238.00	220.99	0.92	-0.99	-1.17	0.12	461661.76	718431.68	N 32 16 4.38	W 103 45 37.34
	308.00	0.65	340.44	307.99	0.66	-0.76	-1.70	1.10	461661.99	718431.15	N 32 16 4.38	W 103 45 37.34
	402.00	0.75	240.01	401.99	0.42	-0.56	-2.42	1.15	461662.19	718430.43	N 32 16 4.38	W 103 45 37.35
	497.00	0.76	135.39	496.98	1.17	-1.32	-2.51	1.26	461661.43	718430.34	N 32 16 4.38	W 103 45 37.35
	591.00	0.93	245.17	590.98	1.92	-2.09	-2.77	1.47	461660.66	718430.08	N 32 16 4.37	W 103 45 37.36
	685.00	1.07	245.92	684.96	2.51	-2.77	-4.26	0.15	461659.98	718428.59	N 32 16 4.36	W 103 45 37.37
	769.00	0.45	269.97	768.95	2.76	-3.09	-5.31	0.81	461659.66	718427.54	N 32 16 4.36	W 103 45 37.39
	859.00	0.23	335.68	858.95	2.57	-2.92	-5.73	0.46	461659.83	718427.12	N 32 16 4.36	W 103 45 37.39
	950.00	0.16	317.02	949.95	2.31	-2.66	-5.90	0.10	461660.09	718426.95	N 32 16 4.36	W 103 45 37.39
	1041.00	0.15	255.61	1040.95	2.23	-2.60	-6.10	0.17	461660.15	718426.75	N 32 16 4.36	W 103 45 37.40
	1131.00	0.16	299.60	1130.95	2.18	-2.57	-6.32	0.13	461660.18	718426.53	N 32 16 4.36	W 103 45 37.40
	1221.00	0.08	308.43	1220.95	2.07	-2.47	-6.48	0.09	461660.28	718426.37	N 32 16 4.37	W 103 45 37.40
	1313.00	0.13	276.29	1312.95	2.01	-2.41	-6.63	0.08	461660.34	718426.22	N 32 16 4.37	W 103 45 37.40
	1499.00	0.09	271.61	1498.95	1.96	-2.39	-6.99	0.02	461660.36	718425.86	N 32 16 4.37	W 103 45 37.41
	1593.00	0.09	207.79	1592.95	2.02	-2.45	-7.10	0.10	461660.30	718425.75	N 32 16 4.37	W 103 45 37.41
	1688.00	0.22	165.86	1687.95	2.26	-2.69	-7.09	0.17	461660.06	718425.76	N 32 16 4.36	W 103 45 37.41
	1782.00	0.14	197.30	1781.95	2.55	-2.98	-7.08	0.13	461659.77	718425.77	N 32 16 4.36	W 103 45 37.41
	1971.00	0.09	157.42	1970.95	2.91	-3.34	-7.09	0.05	461659.42	718425.76	N 32 16 4.36	W 103 45 37.41
	2066.00	0.03	104.67	2065.95	2.98	-3.41	-7.04	0.08	461659.34	718425.81	N 32 16 4.36	W 103 45 37.41
	2160.00	0.10	91.91	2159.95	3.00	-3.42	-6.93	0.08	461659.33	718425.92	N 32 16 4.36	W 103 45 37.41
	2255.00	0.08	93.23	2254.95	3.01	-3.43	-6.78	0.02	461659.32	718426.07	N 32 16 4.36	W 103 45 37.40
	2349.00	0.08	69.02	2348.95	3.00	-3.41	-6.66	0.04	461659.34	718426.20	N 32 16 4.36	W 103 45 37.40
	2444.00	0.27	12.62	2443.95	2.77	-3.16	-6.54	0.25	461659.59	718426.31	N 32 16 4.36	W 103 45 37.40
	2633.00	0.30	45.17	2632.95	2.01	-2.38	-6.10	0.09	461660.37	718426.75	N 32 16 4.37	W 103 45 37.40
	2727.00	0.25	60.73	2726.94	1.76	-2.11	-5.74	0.10	461660.64	718427.11	N 32 16 4.37	W 103 45 37.39
	2822.00	0.17	63.48	2821.94	1.61	-1.94	-5.44	0.08	461660.81	718427.41	N 32 16 4.37	W 103 45 37.39
	2916.00	0.06	149.83	2915.94	1.60	-1.92	-5.29	0.19	461660.83	718427.56	N 32 16 4.37	W 103 45 37.39
	3011.00	0.06	23.22	3010.94	1.60	-1.92	-5.24	0.11	461660.83	718427.61	N 32 16 4.37	W 103 45 37.39
	3105.00	0.11	116.21	3104.94	1.60	-1.91	-5.14	0.14	461660.84	718427.71	N 32 16 4.37	W 103 45 37.38
	3200.00	0.13	135.43	3199.94	1.73	-2.03	-4.98	0.05	461660.72	718427.87	N 32 16 4.37	W 103 45 37.38
	3294.00	0.06	45.22	3293.94	1.78	-2.07	-4.87	0.15	461660.68	718427.98	N 32 16 4.37	W 103 45 37.38
	3389.00	0.11	88.74	3388.94	1.75	-2.04	-4.75	0.08	461660.71	718428.10	N 32 16 4.37	W 103 45 37.38
	3483.00	0.16	112.08	3482.94	1.81	-2.08	-4.54	0.08	461660.67	718428.31	N 32 16 4.37	W 103 45 37.38
	3578.00	0.41	155.73	3577.94	2.18	-2.44	-4.27	0.33	461660.31	718428.58	N 32 16 4.37	W 103 45 37.37
	3672.00	0.54	184.19	3671.94	2.94	-3.19	-4.17	0.28	461659.56	718428.68	N 32 16 4.36	W 103 45 37.37
	3767.00	0.18	128.01	3766.94	3.48	-3.73	-4.08	0.49	461659.02	718428.77	N 32 16 4.35	W 103 45 37.37
	3861.00	0.13	150.59	3860.94	3.67	-3.91	-3.91	0.08	461658.84	718428.94	N 32 16 4.35	W 103 45 37.37
	3956.00	0.49	185.46	3955.94	4.17	-4.41	-3.90	0.41	461658.34	718428.95	N 32 16 4.35	W 103 45 37.37
	4050.00	0.51	209.88	4049.93	4.92	-5.17	-4.15	0.23	461657.58	718428.70	N 32 16 4.34	W 103 45 37.37
	4145.00	0.43	182.19	4144.93	5.63	-5.90	-4.37	0.25	461656.85	718428.48	N 32 16 4.33	W 103 45 37.38
	4240.00	0.38	167.22	4239.93	6.29	-6.56	-4.31	0.12	461656.19	718428.54	N 32 16 4.33	W 103 45 37.38
	4334.00	0.25	139.76	4333.92	6.76	-7.02	-4.11	0.21	461655.73	718428.74	N 32 16 4.32	W 103 45 37.37
	4352.00	0.20	157.80	4351.92	6.82	-7.08	-4.08	0.48	461655.67	718428.77	N 32 16 4.32	W 103 45 37.37
	4552.00	0.92	43.19	4551.92	6.05	-6.23	-2.84	0.51	461655.52	718430.01	N 32 16 4.33	W 103 45 37.36
	4663.00	2.96	44.86	4662.85	3.53	-3.55	-0.21	1.84	461659.20	718432.64	N 32 16 4.35	W 103 45 37.33
	4756.00	3.86	35.28	4755.68	-0.51	0.71	3.29	1.14	461663.46	718435.14	N 32 16 4.40	W 103 45 37.29
	4850.00	4.80	28.89	4849.41	-6.30	0.73	7.02	1.12	461668.48	718439.87	N 32 16 4.46	W 103 45 37.24
	4945.00	5.49	25.21	4944.03	-13.65	14.32	10.87	0.80	461677.07	718443.72	N 32 16 4.53	W 103 45 37.20
	5135.00	7.69	19.36	5132.77	-33.35	34.54	18.96	1.21	461697.29	718451.81	N 32 16 4.73	W 103 45 37.10
	5229.00	7.93	16.66	5225.89	-45.24	46.69	22.90	0.47	461709.44	718455.75	N 32 16 4.85	W 103 45 37.06
	5324.00	5.87	11.34	5320.20	-56.09	57.73	25.74	2.27	461720.48	718458.59	N 32 16 4.96	W 103 45 37.02
	5418.00	3.82	352.50	5413.87	-63.86	65.55	26.27	2.73	461728.30	718459.12	N 32 16 5.04	W 103 45 37.01
	5513.00	2.74	317.71	5508.72	-68.79	70.37	24.33	2.33	461733.11	718457.18	N 32 16 5.08	W 103 45 37.04
	5607.00	2.34	271.08	5602.64	-70.69	72.07	20.90	2.17	461734.81	718453.75	N 32 16 5.10	W 103 45 37.08
	5702.00	0.08	148.25	5697.61	-70.78	72.05	19.00	2.51	461734.79	718451.85	N 32 16 5.10	W 103 45 37.10
	5796.00	0.05	318.46	5791.61	-70.76	72.02	19.00	0.14	461734.77	718451.85	N 32 16 5.10	W 103 45 37.10
	5895.00	0.09	181.81	5890.61	-70.67	71.94	18.95	0.07	461734.68	718451.79	N 32 16 5.10	W 103 45 37.10
	6080.00	0.09	291.62	6075.61	-70.63	71.89	18.87	0.16	461734.63	718451.72	N 32 16 5.10	W 103 45 37.10
	6175.00	0.06	117.44	6170.61	-70.64	71.89	18.85	0.16	461734.64	718451.70	N 32 16 5.10	W 103 45 37.10
	6269.00	0.08	154.71	6264.61	-70.55	71.81	18.92	0.05	461734.56	718451.77	N 32 16 5.10	W 103 45 37.10
	6364.00	0.04	233.26	6359.61	-70.47	71.73	18.92	0.09	461734.48	718451.77	N 32 16 5.10	W 103 45 37.10
	6459.00	0.06	192.95	6454.61	-70.41	71.66	18.88	0.04	461734.41	718451.73	N 32 16 5.10	W 103 45 37.10
	6553.00	0.12	250.50	6548.61	-70.33	71.58	18.78	0.11	461734.33	718451.63	N 32 16 5.10	W 103 45 37.10
	6648.00	0.05	232.73	6643.61	-70.28	71.52	18.65	0.08	461734.27	718451.50	N 32 16 5.10	W 103 45 37.10
	6742.00	0.12	257.75	6737.61	-70.24	71.48	18.52	0.08	461734.22	718451.37	N 32 16 5.10	W 103 45 37.10
	6837.00	0.11	247.61	6832.61	-70.20	71.42	18.34	0.02	461734.17	718451.19	N 32 16 5.10	W 103 45 37.11
	7027.00	0.06	138.04	7022.61	-70.06	71.28	18.24	0.07	461734.02	718451.09	N 32 16 5.09	W 103 45 37.11
	7216.00	0.32	271.11	7211.61	-70.03	71.21	17.78	0.19	461733.96	718450.63	N 32 16 5.09	W 103 45 37.11
	7405.00	0.06	350.24	7400.61	-70.17	71.32	17.23	0.17	461734.07	718450.08	N 32 16 5.09	W 103 45 37.12
	7500.00	0.09	315.24	7495.61	-70.27	71.42	17.17	0.06	461734.17	718450.02	N 32 16 5.10	W 103 45 37.12
	7594.00	0.08	53.85	7589.61	-70.36	71.52	17.17	0.14	461734.26	718450.02	N 32 16 5.10	W 103 45 37.12
	7689.00	0.09	190.39	7684.61	-70.32	71.4						

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 ° ' ")
	7973.00	0.09	255.55	7968.61	-70.21	71.35	16.82	0.05	461734.09	718449.67	N 32 16 5.09 W	103 45 37.12
	8068.00	0.08	323.04	8063.61	-70.25	71.38	16.71	0.10	461734.13	718449.56	N 32 16 5.10 W	103 45 37.13
	8162.00	0.01	308.89	8157.61	-70.31	71.44	16.66	0.07	461734.18	718449.51	N 32 16 5.10 W	103 45 37.13
	8257.00	0.10	93.97	8252.61	-70.31	71.44	16.74	0.11	461734.18	718449.59	N 32 16 5.10 W	103 45 37.13
	8352.00	0.29	137.63	8347.61	-70.11	71.25	16.98	0.24	461734.00	718449.83	N 32 16 5.09 W	103 45 37.12
	8541.00	0.22	93.31	8536.60	-69.70	70.88	17.67	0.11	461733.63	718450.52	N 32 16 5.09 W	103 45 37.11
	8636.00	0.76	54.59	8631.60	-70.01	71.23	18.36	0.64	461733.98	718451.21	N 32 16 5.09 W	103 45 37.11
	8731.00	0.98	47.91	8726.59	-70.85	72.14	19.48	0.25	461734.89	718452.33	N 32 16 5.10 W	103 45 37.09
	8825.00	0.35	357.59	8820.58	-71.64	72.97	20.06	0.85	461735.72	718452.91	N 32 16 5.11 W	103 45 37.09
	8920.00	1.19	155.68	8915.58	-71.01	72.36	20.46	1.60	461735.11	718453.31	N 32 16 5.10 W	103 45 37.08
	9014.00	1.74	149.15	9009.55	-68.83	70.25	21.59	0.61	461732.99	718454.44	N 32 16 5.08 W	103 45 37.07
	9109.00	1.80	135.93	9104.50	-66.42	67.94	23.37	0.43	461730.68	718456.22	N 32 16 5.06 W	103 45 37.05
	9204.00	3.07	122.35	9199.41	-63.80	65.50	26.56	1.46	461728.25	718459.41	N 32 16 5.04 W	103 45 37.01
	9298.00	3.42	101.71	9293.27	-61.59	63.59	31.43	1.29	461726.33	718464.28	N 32 16 5.02 W	103 45 36.95
	9393.00	4.13	99.63	9388.06	-60.08	62.44	37.58	0.76	461725.19	718470.42	N 32 16 5.01 W	103 45 36.88
	9487.00	5.38	99.90	9481.73	-58.30	61.11	45.26	1.33	461723.86	718478.10	N 32 16 4.99 W	103 45 36.79
	9582.00	6.81	106.73	9576.20	-55.33	58.73	55.04	1.69	461721.47	718487.88	N 32 16 4.97 W	103 45 36.68
	9677.00	7.28	108.91	9670.48	-51.10	55.16	66.13	0.57	461717.90	718498.97	N 32 16 4.93 W	103 45 36.55
	9772.00	9.04	103.77	9764.51	-46.61	51.43	79.07	2.00	461714.18	718511.92	N 32 16 4.89 W	103 45 36.40
	9866.00	11.26	99.60	9857.04	-42.36	48.14	95.29	2.49	461710.89	718528.14	N 32 16 4.86 W	103 45 36.21
	9961.00	13.47	100.03	9949.83	-37.69	44.67	115.34	2.33	461707.41	718548.18	N 32 16 4.83 W	103 45 35.98
	10055.00	15.07	99.12	10040.93	-32.49	40.82	138.18	1.72	461703.57	718571.03	N 32 16 4.79 W	103 45 35.71
	10150.00	14.62	92.83	10132.76	-28.50	38.27	162.35	1.76	461701.02	718595.19	N 32 16 4.76 W	103 45 35.43
	10245.00	13.43	90.32	10224.93	-26.47	37.62	185.36	1.41	461700.37	718618.20	N 32 16 4.75 W	103 45 35.16
	10339.00	14.83	92.03	10316.08	-24.61	37.13	208.30	1.55	461699.88	718641.14	N 32 16 4.75 W	103 45 34.90
	10434.00	15.19	92.63	10407.84	-22.15	36.13	232.88	0.41	461698.88	718665.72	N 32 16 4.74 W	103 45 34.61
	10623.00	15.17	92.51	10590.25	-16.98	33.91	282.32	0.02	461696.66	718715.16	N 32 16 4.71 W	103 45 34.03
	10718.00	14.75	92.70	10682.03	-14.40	32.80	306.82	0.45	461695.54	718739.66	N 32 16 4.70 W	103 45 33.75
	10812.00	12.92	96.84	10773.30	-11.25	30.98	329.21	2.21	461693.73	718762.04	N 32 16 4.68 W	103 45 33.49
	10907.00	11.62	100.09	10866.13	-7.12	28.04	349.18	1.55	461690.79	718782.01	N 32 16 4.65 W	103 45 33.26
	10959.00	10.77	101.39	10917.14	-4.65	26.16	359.10	1.71	461688.91	718791.93	N 32 16 4.63 W	103 45 33.14
	11053.00	10.61	100.74	11009.51	-0.29	22.82	376.21	0.21	461685.56	718809.04	N 32 16 4.60 W	103 45 32.94
	11148.00	12.25	96.33	11102.62	3.56	20.07	394.82	1.95	461682.82	718827.65	N 32 16 4.57 W	103 45 32.73
	11243.00	14.49	93.54	11195.04	6.71	18.23	416.70	2.45	461680.98	718849.53	N 32 16 4.55 W	103 45 32.47
	11338.00	12.93	97.08	11287.33	10.09	16.18	439.11	1.86	461678.93	718871.94	N 32 16 4.53 W	103 45 32.21
KOP Actual 100' FNL Crossed	11389.00	15.60	113.82	11336.78	14.27	12.71	451.06	9.59	461675.46	718883.88	N 32 16 4.49 W	103 45 32.07
	11432.00	18.56	123.66	11377.88	21.05	6.58	462.05	9.59	461669.33	718894.87	N 32 16 4.43 W	103 45 31.94
	11526.00	26.21	150.76	11464.96	48.87	-19.94	484.73	13.47	461642.81	718917.56	N 32 16 4.17 W	103 45 31.68
	11621.00	37.25	160.79	11545.69	95.60	-65.57	504.52	12.84	461597.19	718937.34	N 32 16 3.71 W	103 45 31.45
Wolfcamp Intersection	11674.80	39.04	161.07	11588.00	127.60	-96.97	515.37	3.33	461565.79	718948.19	N 32 16 3.40 W	103 45 31.33
	11715.00	40.37	161.26	11618.93	152.35	-121.27	523.66	3.33	461541.48	718956.48	N 32 16 3.16 W	103 45 31.23
	11810.00	45.24	170.18	11688.67	215.64	-183.74	539.32	8.18	461479.02	718972.14	N 32 16 2.54 W	103 45 31.06
	11904.00	52.93	173.87	11750.20	286.39	-254.03	549.04	8.70	461408.74	718981.85	N 32 16 1.85 W	103 45 30.95
	11999.00	59.23	175.02	11803.19	365.13	-332.45	556.63	6.71	461330.32	718989.45	N 32 16 1.07 W	103 45 30.86
	12094.00	68.99	174.64	11844.62	450.45	-417.47	564.34	10.28	461245.31	718997.16	N 32 16 0.23 W	103 45 30.78
	12188.00	81.74	176.13	11868.33	541.19	-507.93	571.61	13.65	461154.85	719004.42	N 32 15 59.33 W	103 45 30.70
	12283.00	87.78	176.40	11877.00	635.75	-602.29	577.76	6.36	461060.49	719010.58	N 32 15 58.40 W	103 45 30.63
	12354.00	86.08	176.11	11880.80	706.64	-673.04	582.40	2.43	460989.75	719015.21	N 32 15 57.70 W	103 45 30.58
	12449.00	86.67	177.19	11886.81	801.45	-767.68	587.94	1.29	460895.11	719020.75	N 32 15 56.76 W	103 45 30.53
	12543.00	89.14	178.58	11890.24	895.35	-861.55	591.40	3.01	460801.25	719024.22	N 32 15 55.83 W	103 45 30.49
	12638.00	91.76	180.03	11889.50	990.23	-956.52	592.55	3.15	460706.28	719025.37	N 32 15 54.89 W	103 45 30.48
	12733.00	92.24	181.19	11886.18	1084.94	-1051.46	591.54	1.32	460611.35	719024.36	N 32 15 53.95 W	103 45 30.50
	12828.00	92.55	182.81	11882.21	1179.42	-1146.32	588.23	1.73	460516.50	719021.05	N 32 15 53.02 W	103 45 30.55
	12922.00	92.83	183.77	11877.80	1272.67	-1240.06	582.84	1.06	460422.76	719015.66	N 32 15 52.09 W	103 45 30.61
	13017.00	91.90	182.46	11873.98	1366.97	-1334.83	577.68	1.69	460327.99	719010.50	N 32 15 51.15 W	103 45 30.68
	13111.00	91.93	180.77	11870.74	1460.55	-1428.74	575.04	1.80	460234.09	719007.85	N 32 15 50.22 W	103 45 30.72
	13206.00	89.80	179.09	11869.30	1555.37	-1523.72	575.15	2.86	460139.12	719007.97	N 32 15 49.28 W	103 45 30.72
	13300.00	88.80	176.23	11870.45	1649.34	-1617.62	578.89	3.22	460045.22	719011.81	N 32 15 48.35 W	103 45 30.68
	13395.00	90.21	176.96	11871.27	1744.33	-1712.45	584.63	1.67	459950.40	719017.45	N 32 15 47.41 W	103 45 30.62
	13489.00	92.14	179.89	11869.34	1838.25	-1806.38	587.22	3.73	459856.47	719020.03	N 32 15 46.48 W	103 45 30.60
	13584.00	92.24	181.40	11865.71	1932.93	-1901.30	586.15	1.59	459781.56	719018.96	N 32 15 45.55 W	103 45 30.62
	13678.00	91.59	180.03	11862.57	2026.63	-1995.24	584.97	1.61	459667.63	719017.79	N 32 15 44.62 W	103 45 30.64
	13773.00	91.66	180.40	11859.88	2121.40	-2090.20	584.62	0.40	459572.67	719017.43	N 32 15 43.68 W	103 45 30.65
	13867.00	92.14	181.60	11856.76	2215.07	-2184.13	582.98	1.37	459478.74	719015.80	N 32 15 42.75 W	103 45 30.67
	13962.00	90.69	178.34	11854.42	2309.86	-2279.09	583.03	3.75	459383.79	719015.85	N 32 15 41.81 W	103 45 30.68
	14056.00	91.28	180.37	11852.80	2403.73	-2373.06	584.09	2.25	459289.82	719016.90	N 32 15 40.88 W	103 45 30.67
	14151.00	91.04	180.39	11850.88	2498.50	-2468.04	583.46	0.25	459194.85	719016.27	N 32 15 39.94 W	103 45 30.68
	14245.00	91.00	180.31	11849.20	2592.28	-2562.02	582.88	0.10	459100.87	719015.70	N 32 15 39.01 W	103 45 30.70
	14339.00	91.00	182.64	11847.56	2685.92	-2655.97	580.46	2.48	459006.93	719013.28	N 32 15 38.08 W	103 45 30.73
	14434.00	90.62	181.63	11846.22	2780.46	-2750.89	576.93	1.14	458912.01	719009.74	N 32 15 37.14 W	103 45 30.78
	14529.00	90.31	181.59	11845.45	2875.09	-2845.85	574.26	0.33	458817.06	719007.07	N 32 15 36.20 W	103 45 30.81
	14623.00	90.21	181.07	11845.02	2968.76	-2939.83	572.07	0.56	458723.09	719004.89	N 32 15 35.27 W	103 45 30.85
	14812.00	90.31	181.90	11844.16	3157.07	-3128.76	567.18	0.44	458534.17	718999.99	N 32 15 33.40 W	103 45 30.91
	15001.00	90.14	181.27	11843.42	3345.34	-3317.68	561.95	0.35	458345.25	718994.77	N 32 15 31.53 W	103 45 30.99
	15096.00	90.42	180.55	11842.96	3440.07	-3412.67	560.44	0.81	458250.27	718993.26	N 32 15 30.59 W	103 45 31.01
	15190.00	90.31	180.49	11842.36	3533.84	-3506.67	559.59	0.13	458156.28	718992.41	N 32 15 29.66 W	103 45 31.03
	15285.00	90.14	181.42	11841.99	3628.56	-3601.65	558.00	1.00	458061.31	718990.82	N	

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 ° ° '")
	18594.00	90.00	180.60	11824.52	6931.60	-6909.20	581.46	0.55	454753.95	719014.27	N 32 14 55.99	W 103 45 30.98
	18688.00	90.80	181.09	11823.86	7025.33	-7003.18	580.07	1.00	454659.97	719012.89	N 32 14 55.06	W 103 45 31.01
	18763.00	90.73	181.37	11822.60	7120.01	-7098.15	578.03	0.30	454565.00	719010.85	N 32 14 54.12	W 103 45 31.04
	18878.00	89.94	180.02	11822.04	7214.76	-7193.14	576.88	1.65	454470.02	719009.70	N 32 14 53.18	W 103 45 31.05
	18972.00	90.62	180.46	11821.58	7308.57	-7287.14	576.49	0.86	454376.03	719009.30	N 32 14 52.25	W 103 45 31.07
	19067.00	90.59	180.58	11820.58	7403.33	-7382.13	575.62	0.13	454281.04	719008.44	N 32 14 51.31	W 103 45 31.08
	19162.00	91.55	178.64	11818.80	7498.18	-7477.10	576.27	2.28	454186.07	719009.09	N 32 14 50.37	W 103 45 31.08
	19256.00	90.90	178.29	11816.79	7592.11	-7571.05	578.79	0.79	454092.13	719011.60	N 32 14 49.44	W 103 45 31.06
	19351.00	90.55	178.41	11815.59	7687.05	-7666.00	581.52	0.39	453997.19	719014.34	N 32 14 48.50	W 103 45 31.03
	19445.00	90.24	178.81	11814.94	7780.99	-7759.97	583.80	0.54	453903.22	719016.62	N 32 14 47.57	W 103 45 31.01
	19540.00	90.59	178.06	11814.26	7875.94	-7854.93	586.40	0.87	453808.27	719019.21	N 32 14 46.63	W 103 45 30.99
	19634.00	90.49	178.21	11813.37	7969.90	-7948.88	589.46	0.19	453714.33	719022.27	N 32 14 45.70	W 103 45 30.96
	19729.00	91.24	178.72	11811.94	8064.83	-8043.83	592.00	0.95	453619.38	719024.82	N 32 14 44.77	W 103 45 30.93
	19918.00	90.66	178.29	11808.80	8253.70	-8232.74	596.93	0.38	453430.48	719029.75	N 32 14 42.90	W 103 45 30.89
	20013.00	90.35	177.99	11807.97	8348.66	-8327.69	600.01	0.45	453335.54	719032.83	N 32 14 41.96	W 103 45 30.86
	20202.00	91.52	179.73	11804.88	8537.47	-8516.61	603.77	1.11	453146.62	719036.59	N 32 14 40.09	W 103 45 30.82
	20296.00	90.73	178.54	11803.04	8631.36	-8610.58	605.19	1.52	453052.66	719038.01	N 32 14 39.16	W 103 45 30.81
	20390.00	90.42	177.66	11802.09	8725.32	-8704.52	608.31	0.99	452958.72	719041.12	N 32 14 38.23	W 103 45 30.78
	20485.00	90.76	178.02	11801.11	8820.29	-8799.45	611.89	0.52	452863.80	719044.70	N 32 14 37.29	W 103 45 30.75
	20675.00	87.01	177.41	11804.81	9010.18	-8989.23	619.46	2.00	452674.03	719052.28	N 32 14 35.41	W 103 45 30.67
	20769.00	89.69	178.29	11807.52	9104.11	-9083.12	622.99	3.00	452580.15	719055.80	N 32 14 34.48	W 103 45 30.64
	20959.00	90.42	180.73	11807.33	9293.85	-9273.09	624.61	1.34	452390.19	719057.42	N 32 14 32.60	W 103 45 30.63
	21054.00	90.21	180.42	11806.81	9388.61	-9368.09	623.66	0.39	452295.20	719056.47	N 32 14 31.66	W 103 45 30.65
	21243.00	90.45	180.98	11805.72	9577.12	-9557.07	621.35	0.32	452106.23	719054.16	N 32 14 29.79	W 103 45 30.68
	21337.00	88.59	180.10	11806.51	9670.89	-9651.06	620.46	2.19	452012.24	719053.28	N 32 14 28.86	W 103 45 30.70
	21527.00	89.73	180.10	11809.30	9860.50	-9841.03	620.13	0.60	451822.28	719052.95	N 32 14 26.98	W 103 45 30.72
	21716.00	90.42	180.27	11809.05	10049.13	-10030.03	619.52	0.38	451633.29	719052.34	N 32 14 25.11	W 103 45 30.74
330' FSL Crossed	21808.00	89.78	179.81	11808.89	10140.96	-10122.03	619.46	0.86	451541.30	719052.27	N 32 14 24.20	W 103 45 30.74
	21811.00	89.76	179.79	11808.90	10143.95	-10125.03	619.47	0.86	451538.30	719052.29	N 32 14 24.17	W 103 45 30.74
Final MWD	21857.00	90.83	181.57	11808.66	10189.83	-10171.02	618.92	4.51	451492.31	719051.74	N 32 14 23.72	W 103 45 30.75
Proj to TD	21902.00	90.83	181.57	11808.01	10234.66	-10216.00	617.69	0.00	451447.33	719050.51	N 32 14 23.27	W 103 45 30.77

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	30.000	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 176H Gyro+MWD 0-21902'MD
	1	30.000	30.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 176H Gyro+MWD 0-21902'MD
	1	30.000	658.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 176H
	1	658.000	21902.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Platinum MDP1 34-3 Federal Com 176H