

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
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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

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 30-025-45872	Pool Code 98252	Pool Name Mesa Verde; Wolfcamp
Property Code 320829	Property Name MESA VERDE WC UNIT	Well Number 10H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3568.3'

Surface Location

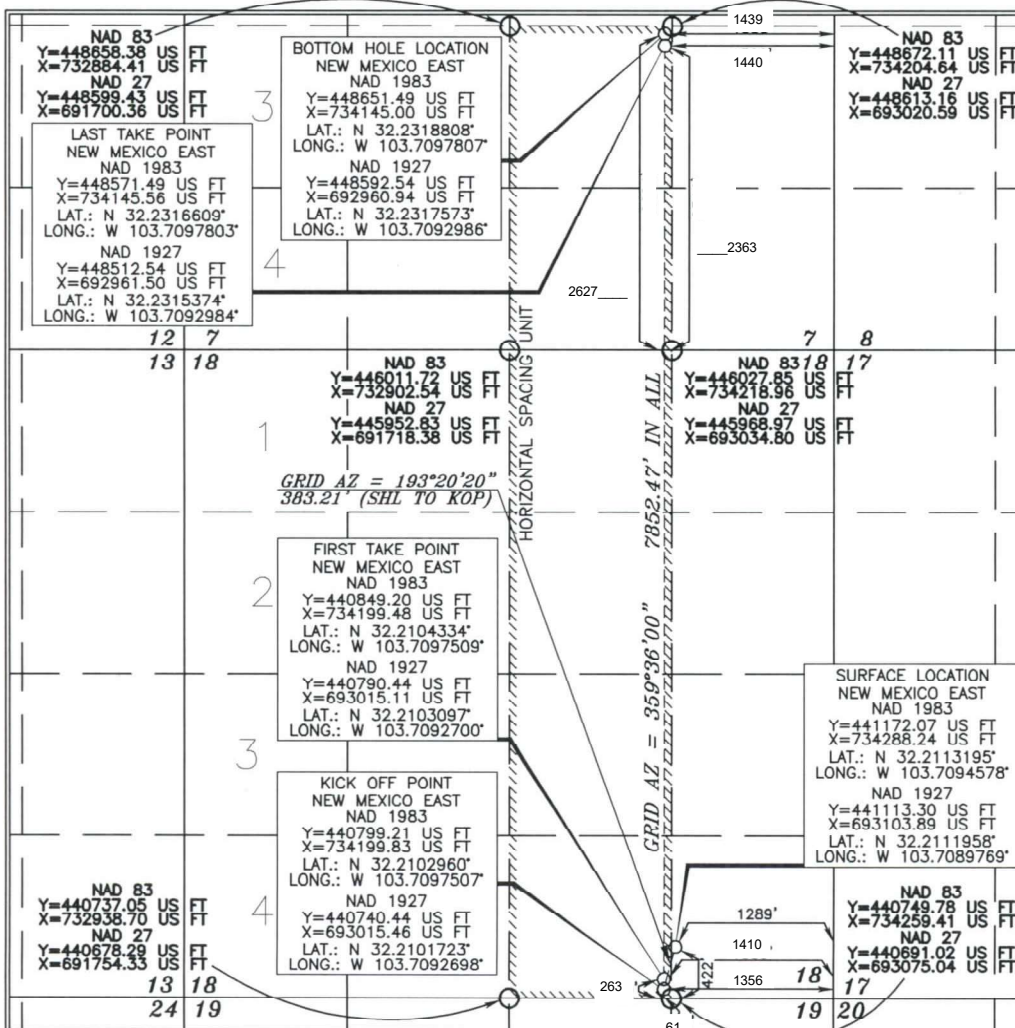
UT. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	24 SOUTH	32 EAST, N.M.P.M.		422'	SOUTH	1289'	EAST	LEA

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
J	7	24 SOUTH	32 EAST, N.M.P.M.		2627'	SOUTH	1439'	EAST	LEA

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No. FTP- 263' FSL 1410' FEL LTP- 2363' FSL 1440' FEL
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by this division.

Signature: *[Signature]* Date: 10/7/2020
JANA MENDIOLA
Printed Name
janalyn_mendiola@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

Date of Survey: *[Signature]*
Signature and Seal of Professional Surveyor
15079
DECEMBER 27, 2015

Certificate Number: 15079
10/31/2020

Intent ☐ As Drilled ☒API #
30-025-45872

Operator Name: OXY USA INC.	Property Name: MESA VERDE WOLFCAMP UNIT	Well Number 10H
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Kick Off Point (KOP)

UL O	Section 18	Township 24S	Range 32E	Lot	Feet 61	From N/S S	Feet 1356	From E/W E	County LEA
Latitude 32.21033					Longitude -103.70968				NAD NAD83

First Take Point (FTP)

UL O	Section 18	Township 24S	Range 32E	Lot	Feet 263	From N/S S	Feet 1410	From E/W E	County LEA
Latitude 32.21088					Longitude -103.70985				NAD NAD83

Last Take Point (LTP)

UL J	Section 7	Township 24S	Range 32E	Lot	Feet 2363	From N/S S	Feet 1440	From E/W E	County LEA
Latitude 32.23116					Longitude -103.70981				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
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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)

KZ

March 23, 2020

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

Re:

S18, T24S, R32E Lea, NM
N 32.2113195 W -103.7094578

CLIENT: Oxy USA Incorporated
WELL: Mesa Verde WC Unit 10H
FIELD: Mesa Verde Wolfcamp

RIG: H&P 656
COUNTY: Lea
API NO: 30-025-45872
JOB NO: 20MLH0445

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>
Chris Heimann FE	Mesa Verde WC Unit 10H Original Hole	994.00 Ft to 19657.00 Ft	February 22, 2020 to March 14, 2020	SlimPulse 3rd 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)
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REC'D 10/7/2020 - NMOCD

Schlumberger

Well Reference:
S18, T24S, R32E Lea, NM
N 32.2113195 W -103.7094578

I, Chris Heimann certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 22, 2020 through March 14, 2020, conduct or supervise the taking of the SlimPulse & 3rd Party Corrected surveys from a depth of 994.00 feet to a depth of 19657.00 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 Mesa Verde WC Unit 10H Well (Original Hole) API No. 30-025-45872 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.

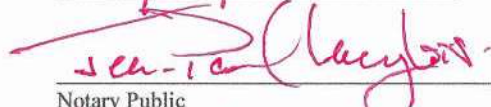
By
Chris Heimann
FE



Subscribed and Sworn to before me this 23 day of March (month) 2020 (yr)

My Commission expires:

6/14/23



Notary Public

Comanche, Oklahoma

(County State)

(signature)





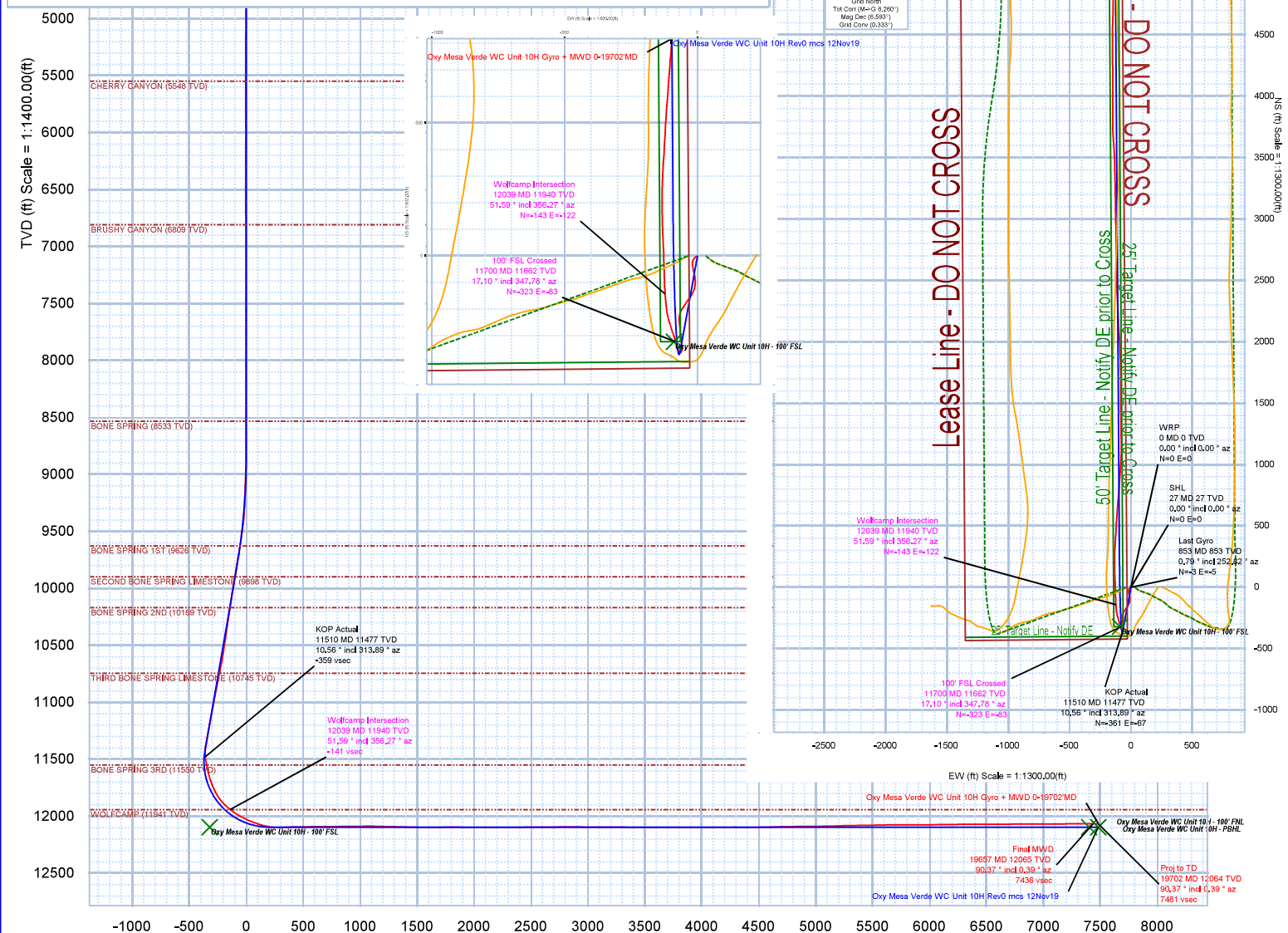
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Mesa Verde WC Unit 10H	NM Lea County (NAD 83)	Oxy Mesa Verde WC Unit 10H

Gravity & Magnetic Parameters				Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous	
Model: IFR1	Dip: 59.819°	Date: 08-Mar-2020		Lat: N 32 12 40.75	Northing: 441172.07RUS	Grid Conv: 0.3326°		Slot: Oxy Mesa Verde WC Unit 10H	TVD Ref: RKB = 26.5'(3594.8ft above MSL)
MagDec: 6.593°	FS: 47819nT	Gravity FS: 998.43mgm (9.80665 Based)		Lon: W 103 42 34.05	Easting: 734288.24RUS	Scale Fact: 0.99995173		Plan: Oxy Mesa Verde WC Unit 10H Gyro + MWD 0-19702MD	

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
WRP	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	
Last Gyro	852.60	0.79	252.82	852.57	-2.51	-2.61	-5.10	1.00
KOP Actual	11510.00	10.56	313.89	11477.25	-359.38	-360.73	-66.77	19.17
100' FSL Crossed	11700.00	17.10	347.78	11662.49	-321.26	-322.91	-82.87	6.03
Wolfcamp Intersection	12039.11	51.59	356.27	11940.00	-140.68	-143.04	-122.05	8.52
100' FNL Crossed	19622.00	90.40	0.19	12065.00	7401.09	7399.56	-150.55	0.59
Final MWD	19657.00	90.37	0.39	12064.76	7436.07	7434.56	-150.37	0.59
Proj to TD	19702.00	90.37	0.39	12064.47	7481.06	7479.56	-150.07	0.00



Vertical Section (ft) Azim = 358.90° Scale = 1:1400.00(ft) Origin = 0N/-S, 0E/-W



Oxy Mesa Verde WC Unit 10H Gyro + MWD 0-19702' MD Survey Geodetic Report

(Def Survey)

Report Date: March 15, 2020 - 10:39 AM
Client: OXY
Field: NM Lea County (NAD 83)
Structure / Slot: Oxy Mesa Verde WC Unit 10H / Oxy Mesa Verde WC Unit 10H
Well: Oxy Mesa Verde WC Unit 10H
Borehole: Original Borehole
UWI / API#: Unknown / 30-025-45872
Survey Name: Oxy Mesa Verde WC Unit 10H Gyro + MWD 0-19702' MD
Survey Date: February 08, 2020
Tort / AHD / DDI / ERD Ratio: 240,849' / 8259,976 ft / 6.511 / 0.683
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 12' 40.75019", W 103° 42' 34.04828"
Location Grid N/E Y/X: N 441172.070 RUS, E 734288.240 RUS
CRS Grid Convergence Angle: 0.3326 °
Grid Scale Factor: 0.99995173
Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 358,903 ° (Grid North)
Vertical Section Origin: 0,000 ft, 0,000 ft
TVD Reference Datum: RKB = 26.5'
TVD Reference Elevation: 3584,800 ft above MSL
Seabed / Ground Elevation: 3568,300 ft above MSL
Magnetic Declination: 6,593 °
Total Gravity Field Strength: 988.4299mgn (9,80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47819,000 nT
Magnetic Dip Angle: 59,819 °
Declination Date: March 08, 2020
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.3326 °
Total Corr Mag North->Grid North: 6.2604 °
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	0.00	0.00	0.00	0.00	0.00	N/A	441172.07	734288.24	N 32 12 40.75	W 103 42 34.05
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	441172.07	734288.24	N 32 12 40.75	W 103 42 34.05
	43.40	0.24	240.32	43.40	-0.02	-0.02	-0.03	1.42	441172.05	734288.21	N 32 12 40.75	W 103 42 34.05
	71.70	0.25	201.42	71.70	-0.10	-0.10	-0.10	0.58	441171.97	734288.14	N 32 12 40.75	W 103 42 34.05
	104.40	0.39	183.27	104.40	-0.28	-0.28	-0.14	0.52	441171.79	734288.10	N 32 12 40.75	W 103 42 34.05
	133.70	0.34	188.47	133.70	-0.46	-0.47	-0.16	0.20	441171.60	734288.08	N 32 12 40.75	W 103 42 34.05
	162.60	0.37	202.27	162.60	-0.63	-0.64	-0.20	0.31	441171.43	734288.04	N 32 12 40.74	W 103 42 34.05
	189.40	0.41	209.50	189.40	-0.80	-0.80	-0.28	0.24	441171.27	734287.96	N 32 12 40.74	W 103 42 34.05
	214.40	0.40	212.17	214.40	-0.95	-0.95	-0.37	0.09	441171.12	734287.87	N 32 12 40.74	W 103 42 34.05
	242.50	0.38	221.14	242.50	-1.10	-1.11	-0.49	0.23	441170.96	734287.75	N 32 12 40.74	W 103 42 34.05
	271.50	0.37	230.01	271.50	-1.23	-1.24	-0.62	0.20	441170.83	734287.62	N 32 12 40.74	W 103 42 34.06
	303.00	0.36	233.56	302.99	-1.35	-1.36	-0.78	0.08	441170.71	734287.46	N 32 12 40.74	W 103 42 34.06
	334.50	0.33	236.59	334.49	-1.45	-1.47	-0.94	0.11	441170.60	734287.30	N 32 12 40.74	W 103 42 34.06
	366.00	0.33	241.39	365.99	-1.54	-1.57	-1.09	0.09	441170.50	734287.15	N 32 12 40.73	W 103 42 34.06
	397.50	0.33	248.36	397.49	-1.62	-1.64	-1.25	0.13	441170.43	734286.99	N 32 12 40.73	W 103 42 34.06
	429.00	0.31	254.04	428.99	-1.67	-1.70	-1.42	0.12	441170.37	734286.82	N 32 12 40.73	W 103 42 34.06
	460.50	0.32	251.92	460.49	-1.72	-1.75	-1.59	0.05	441170.32	734286.65	N 32 12 40.73	W 103 42 34.07
	492.00	0.33	255.08	491.99	-1.77	-1.80	-1.76	0.07	441170.27	734286.48	N 32 12 40.73	W 103 42 34.07
	523.50	0.40	256.68	523.49	-1.81	-1.85	-1.95	0.22	441170.22	734286.29	N 32 12 40.73	W 103 42 34.07
	555.00	0.46	265.39	554.99	-1.84	-1.89	-2.19	0.28	441170.18	734286.05	N 32 12 40.73	W 103 42 34.07
	586.60	0.48	265.11	586.59	-1.86	-1.91	-2.44	0.06	441170.16	734285.80	N 32 12 40.73	W 103 42 34.08
	618.10	0.49	260.80	618.09	-1.89	-1.94	-2.71	0.12	441170.13	734285.53	N 32 12 40.73	W 103 42 34.08
	649.60	0.58	260.49	649.59	-1.93	-1.99	-3.00	0.29	441170.08	734285.24	N 32 12 40.73	W 103 42 34.08
	681.10	0.60	256.44	681.09	-1.99	-2.05	-3.32	0.15	441170.02	734284.92	N 32 12 40.73	W 103 42 34.09
	712.60	0.59	252.99	712.58	-2.07	-2.14	-3.63	0.12	441169.93	734284.61	N 32 12 40.73	W 103 42 34.09
	744.10	0.63	252.91	744.08	-2.16	-2.24	-3.95	0.13	441169.83	734284.29	N 32 12 40.73	W 103 42 34.09
	775.60	0.62	251.77	775.58	-2.26	-2.34	-4.28	0.05	441169.73	734283.96	N 32 12 40.73	W 103 42 34.10
	807.10	0.61	249.90	807.08	-2.36	-2.45	-4.60	0.07	441169.62	734283.64	N 32 12 40.73	W 103 42 34.10
	838.60	0.65	253.69	838.58	-2.47	-2.56	-4.93	0.18	441169.51	734283.31	N 32 12 40.73	W 103 42 34.11
	852.60	0.79	252.82	852.57	-2.51	-2.61	-5.10	1.00	441169.46	734283.14	N 32 12 40.72	W 103 42 34.11
	994.00	0.64	222.70	993.96	-3.35	-3.48	-6.56	0.28	441168.59	734281.68	N 32 12 40.72	W 103 42 34.12
	1176.00	0.07	37.95	1175.96	-4.00	-4.14	-7.18	0.39	441167.93	734281.06	N 32 12 40.71	W 103 42 34.13
	1268.00	0.07	68.80	1267.96	-3.94	-4.07	-7.10	0.04	441168.00	734281.04	N 32 12 40.71	W 103 42 34.13
	1448.00	0.07	123.63	1447.96	-3.96	-4.09	-6.90	0.04	441167.98	734281.34	N 32 12 40.71	W 103 42 34.13
	1539.00	0.07	113.75	1538.96	-4.02	-4.15	-6.81	0.01	441167.92	734281.43	N 32 12 40.71	W 103 42 34.13
	1634.00	0.07	271.87	1633.96	-4.04	-4.17	-6.81	0.14	441167.90	734281.43	N 32 12 40.71	W 103 42 34.13
	1729.00	0.07	344.89	1728.96	-3.98	-4.11	-6.88	0.09	441167.96	734281.36	N 32 12 40.71	W 103 42 34.13
	1918.00	0.07	297.91	1917.96	-3.81	-3.95	-7.02	0.03	441168.12	734281.22	N 32 12 40.71	W 103 42 34.13
	2108.00	0.06	75.28	2107.96	-3.73	-3.87	-7.02	0.06	441168.20	734281.22	N 32 12 40.71	W 103 42 34.13
	2298.00	0.07	170.22	2297.96	-3.82	-3.96	-6.91	0.05	441168.11	734281.33	N 32 12 40.71	W 103 42 34.13
	2393.00	0.10	129.48	2392.96	-3.93	-4.07	-6.83	0.07	441168.00	734281.41	N 32 12 40.71	W 103 42 34.13
	2488.00	0.07	240.91	2487.96	-4.02	-4.15	-6.82	0.15	441167.92	734281.42	N 32 12 40.71	W 103 42 34.13
	2678.00	0.07	343.83	2677.96	-3.96	-4.09	-6.95	0.06	441167.98	734281.29	N 32 12 40.71	W 103 42 34.13
	2773.00	0.06	321.66	2772.96	-3.86	-4.00	-7.00	0.03	441168.07	734281.24	N 32 12 40.71	W 103 42 34.13
	2868.00	0.06	11.61	2867.96	-3.77	-3.91	-7.02	0.05	441168.16	734281.22	N 32 12 40.71	W 103 42 34.13
	2963.00	0.07	63.60	2962.96	-3.70	-3.83	-6.96	0.06	441168.24	734281.28	N 32 12 40.71	W 103 42 34.13
	3057.00	0.10	85.17	3056.96	-3.67	-3.80	-6.83	0.05	441168.27	734281.41	N 32 12 40.71	W 103 42 34.13
	3152.00	0.10	249.39	3151.96	-3.69	-3.82	-6.82	0.21	441168.25	734281.42	N 32 12 40.71	W 103 42 34.13
	3247.00	0.10	91.96	3246.96	-3.72	-3.86	-6.82	0.21	441168.21	734281.42	N 32 12 40.71	W 103 42 34.13
	3342.00	0.13	109.21	3341.96	-3.77	-3.89	-6.63	0.05	441168.18	734281.61	N 32 12 40.71	W 103 42 34.13
	3437.00	0.06	35.82	3436.96	-3.76	-3.89	-6.50	0.13	441168.18	734281.74	N 32 12 40.71	W 103 42 34.12
	3532.00	0.37	141.20	3531.96	-3.97	-4.09	-6.28	0.41	441167.98	734281.96	N 32 12 40.71	W 103 42 34.12
	3627.00	0.17	57.65	3626.96	-4.14	-4.25	-5.97	0.41	441167.82	734282.27	N 32 12 40.71	W 103 42 34.12
	3722.00	0.02	63.17	3721.96	-4.06	-4.17	-5.83	0.16	441167.90	734282.41	N 32 12 40.71	W 103 42 34.12
	3817.00	0.09	77.78	3816.96	-4.03	-4.15	-5.75	0.07	441167.92	734282.49	N 32 12 40.71	W 103 42 34.12
	3912.00	0.09	29.70	3911.96	-3.96	-4.07	-5.64	0.08	441168.01	734282.60	N 32 12 40.71	W 103 42 34.11
	4007.00	0.07	341.54	4006.96	-3.84	-3.95	-5.62	0.07	441168.13	734282.62	N 32 12 40.71	W 103 42 34.11
	4102.00	0.17	111.29	4101.96	-3.84	-3.94	-5.50	0.23	441168.13	734282.74	N 32 12 40.71	W 103 42 34.11
	4197.00	0.10	145.10	4196.96	-3.96	-4.06	-5.33	0.11	441168.01	734282.91	N 32 12 40.71	W 103 42 34.11
	4292.00	0.10	296.39	4291.96	-3.99	-4.09	-5.35	0.20	441167.98	734282.89	N 32 12 40.71	W 103 42 34.11
	4387.00	0.06	132.70	4386.96	-3.98	-4.09	-5.39	0.17	441167.98	734282.85	N 32 12 40.71	W 103 42 34.11
	4482.00	0.03	325.45	4481.96	-4.00	-4.10	-5.37	0.09	441167.97	734282.87	N 32 12 40.71	W 103 42 34.11
	4577.00	0.19	46.19	4576.96	-3.87	-3.97	-5.27	0.20	441168.10	734282.97	N 32 12 40.71	W 103 42 34.11
	4672.00	0.07	340.59	4671.96	-3.71	-3.81	-5.17	0.18	441168.26	734283.07	N 32 12 40.71	W 103 42 34.11
	4767.00	0.07	191.74	4766.96	-3.71	-3.81	-5.20	0.14	441168.26	734283.04	N 32 12 40.71	W 103 42 34.11
	4861.00	0.10	96.33	4860.96	-3.78	-3.88	-5.14	0.14	441168.19	734283.11	N 32 12 40.71	W 103 42 34.11
	4956.00	0.06	108.73	4955.96	-3.80	-3.90	-5.01	0.05	441168.17	734283.23	N 32 12 40.71	W 103 42 34.11
	5051.00	0.07	212.54	5050.96	-3.87	-3.97	-4.99	0.11	441168.10	734283.25	N 32 12 40.71	W 103 42 34.11
	5146.00	0.09	171.44	5145.96	-3.99	-4.09	-5.01	0.06	441167.98	734283.23	N 32 12 40.71	W 103 42 34.11
	5241.00	0.06	49.23	5240.96	-4.03	-4.13	-4.96	0.14	441167.94	734283.28	N 32 12 40.71	W 103 42 34.11
	5336.00	0.10	252.25	5335.96	-4.03	-4.12	-5.00	0.17	441167.95	734283.24	N 32 12 40.71	W 103 42 34.11
	5431.00	0.10	230.04	5430.96	-4.10	-4.20	-5.14	0.04	441167.87	734283.10	N 32 12 40.71	W 103 42 34.11
	5526.00	0.02	174.42	5525.96	-4.17	-4.27	-5.21	0.09	441167.80	734283.03	N 32 12 40.71	W 103 42 34.11
	5621.00	0.10	1.21	5620.96	-4.10	-4.20	-5.20	0.13	441167.87	734283.04	N 32 12 40.71	W 103 42 34.11
	5716.00	0.06	104.23	5715.96	-4.03	-4.13	-5.15	0.13	4411			

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 ° ' ")
	6571.00	0.07	47.70	6570.96	-4.09	-4.18	-4.46	0.12	441167.89	734283.78	N 32 12 40.71	W 103 42 34.10
	6665.00	0.07	347.51	6664.96	-4.00	-4.08	-4.43	0.07	441167.99	734283.81	N 32 12 40.71	W 103 42 34.10
	6760.00	0.06	318.37	6759.96	-3.90	-3.99	-4.47	0.04	441168.08	734283.77	N 32 12 40.71	W 103 42 34.10
	6855.00	0.06	139.22	6854.96	-3.91	-3.99	-4.47	0.13	441168.08	734283.77	N 32 12 40.71	W 103 42 34.10
	6950.00	0.08	4.34	6949.96	-3.88	-3.96	-4.44	0.14	441168.11	734283.80	N 32 12 40.71	W 103 42 34.10
	7045.00	0.05	209.31	7044.96	-3.85	-3.93	-4.45	0.13	441168.14	734283.79	N 32 12 40.71	W 103 42 34.10
	7140.00	0.07	314.33	7139.96	-3.84	-3.93	-4.51	0.10	441168.14	734283.73	N 32 12 40.71	W 103 42 34.10
	7235.00	0.07	300.93	7234.96	-3.77	-3.86	-4.60	0.02	441168.21	734283.64	N 32 12 40.71	W 103 42 34.10
	7330.00	0.06	48.65	7329.96	-3.71	-3.80	-4.62	0.11	441168.27	734283.62	N 32 12 40.71	W 103 42 34.10
	7520.00	0.07	319.61	7519.96	-3.55	-3.64	-4.62	0.05	441168.43	734283.62	N 32 12 40.71	W 103 42 34.10
	7615.00	0.05	196.02	7614.96	-3.55	-3.64	-4.67	0.11	441168.43	734283.57	N 32 12 40.71	W 103 42 34.10
	7709.00	0.06	200.65	7708.96	-3.63	-3.72	-4.70	0.01	441168.35	734283.54	N 32 12 40.71	W 103 42 34.10
	7804.00	0.07	280.68	7803.95	-3.67	-3.76	-4.77	0.09	441168.31	734283.47	N 32 12 40.71	W 103 42 34.10
	7899.00	0.07	336.98	7898.95	-3.60	-3.69	-4.85	0.07	441168.38	734283.39	N 32 12 40.71	W 103 42 34.10
	7994.00	0.07	264.99	7993.95	-3.55	-3.65	-4.93	0.09	441168.42	734283.31	N 32 12 40.71	W 103 42 34.11
	8089.00	0.06	94.78	8088.95	-3.56	-3.66	-4.94	0.14	441168.42	734283.30	N 32 12 40.71	W 103 42 34.11
	8184.00	0.07	81.12	8183.95	-3.56	-3.65	-4.83	0.02	441168.42	734283.41	N 32 12 40.71	W 103 42 34.10
	8279.00	0.10	17.36	8278.95	-3.47	-3.56	-4.75	0.10	441168.51	734283.49	N 32 12 40.72	W 103 42 34.10
	8374.00	0.06	124.32	8373.95	-3.42	-3.51	-4.68	0.14	441168.56	734283.56	N 32 12 40.72	W 103 42 34.10
	8469.00	0.06	224.93	8468.95	-3.48	-3.57	-4.68	0.10	441168.50	734283.56	N 32 12 40.72	W 103 42 34.10
	8564.00	0.05	20.21	8563.95	-3.48	-3.57	-4.70	0.11	441168.50	734283.54	N 32 12 40.72	W 103 42 34.10
	8658.00	0.07	352.44	8657.95	-3.38	-3.48	-4.69	0.04	441168.59	734283.55	N 32 12 40.72	W 103 42 34.10
	8753.00	0.10	333.54	8752.95	-3.25	-3.34	-4.74	0.04	441168.73	734283.50	N 32 12 40.72	W 103 42 34.10
	8848.00	0.64	309.31	8847.95	-2.63	-2.93	-5.18	0.58	441169.14	734283.06	N 32 12 40.72	W 103 42 34.11
	8943.00	2.24	225.34	8942.93	-3.77	-3.90	-6.92	2.38	441168.17	734281.33	N 32 12 40.71	W 103 42 34.13
	9038.00	3.07	222.71	9037.82	-6.88	-7.08	-9.96	0.88	441164.99	734278.28	N 32 12 40.68	W 103 42 34.16
	9133.00	2.63	228.45	9132.70	-10.13	-10.39	-13.32	0.55	441161.88	734274.92	N 32 12 40.65	W 103 42 34.20
	9228.00	2.15	196.04	9227.63	-13.25	-13.55	-15.44	1.49	441158.52	734272.80	N 32 12 40.62	W 103 42 34.23
	9323.00	4.00	204.32	9322.49	-17.95	-18.28	-17.30	2.00	441153.79	734270.94	N 32 12 40.57	W 103 42 34.25
	9513.00	8.12	172.85	9511.43	-37.29	-37.65	-18.36	2.71	441134.42	734269.88	N 32 12 40.38	W 103 42 34.28
	9701.00	9.98	165.96	9697.09	-66.37	-66.63	-12.75	1.14	441105.44	734275.49	N 32 12 40.09	W 103 42 34.20
	9796.00	9.89	172.05	9790.66	-82.50	-82.70	-9.63	1.11	441089.38	734278.61	N 32 12 39.93	W 103 42 34.17
	9891.00	9.74	181.07	9884.28	-98.63	-98.81	-8.65	1.62	441073.26	734279.59	N 32 12 39.77	W 103 42 34.16
	9986.00	9.41	188.09	9977.96	-114.33	-114.54	-9.89	1.28	441057.54	734278.35	N 32 12 39.62	W 103 42 34.17
	10081.00	9.37	200.86	10071.70	-129.17	-129.45	-13.74	2.19	441042.62	734274.50	N 32 12 39.47	W 103 42 34.22
	10271.00	10.17	216.68	10258.97	-156.77	-157.36	-29.27	1.47	441014.71	734258.97	N 32 12 39.19	W 103 42 34.40
	10366.00	9.99	212.75	10352.51	-170.25	-171.02	-38.74	0.75	441001.06	734249.50	N 32 12 39.06	W 103 42 34.51
	10461.00	10.01	213.47	10446.06	-183.89	-184.84	-47.75	0.13	440987.24	734240.49	N 32 12 38.92	W 103 42 34.62
	10556.00	10.55	214.77	10539.54	-197.74	-198.87	-57.26	0.62	440973.21	734230.98	N 32 12 38.79	W 103 42 34.73
	10651.00	11.44	199.30	10632.81	-213.62	-214.91	-65.34	3.23	440957.17	734222.91	N 32 12 38.63	W 103 42 34.82
	10746.00	11.95	182.04	10725.87	-232.28	-233.64	-68.80	3.71	440938.45	734219.44	N 32 12 38.44	W 103 42 34.86
	10840.00	11.02	174.43	10817.99	-250.95	-252.30	-68.28	1.89	440919.78	734219.97	N 32 12 38.26	W 103 42 34.86
	11031.00	10.95	174.47	11005.49	-287.24	-288.53	-64.76	0.04	440883.55	734223.49	N 32 12 37.90	W 103 42 34.82
	11125.00	10.60	171.67	11097.84	-304.72	-305.97	-62.64	0.67	440866.11	734225.60	N 32 12 37.73	W 103 42 34.80
	11220.00	10.77	173.13	11191.19	-322.21	-323.43	-60.32	0.34	440848.66	734227.93	N 32 12 37.55	W 103 42 34.77
	11315.00	10.72	178.41	11284.53	-339.88	-341.07	-59.01	1.04	440831.01	734229.23	N 32 12 37.38	W 103 42 34.76
	11415.00	9.72	185.88	11382.94	-357.56	-358.77	-59.62	1.66	440813.32	734228.63	N 32 12 37.20	W 103 42 34.77
	11510.00	10.56	313.89	11477.25	-359.38	-360.73	-66.77	19.17	440811.36	734221.47	N 32 12 37.18	W 103 42 34.85
	11605.00	11.76	339.26	11570.51	-344.10	-345.63	-76.48	5.27	440826.46	734211.76	N 32 12 37.33	W 103 42 34.96
KOP Actual	11700.00	17.10	347.78	11662.49	-321.26	-322.91	-82.87	6.03	440849.18	734205.37	N 32 12 37.56	W 103 42 35.03
100' FSL Crossed	11794.00	25.23	340.29	11750.09	-288.65	-290.48	-92.57	9.10	440881.61	734195.67	N 32 12 37.88	W 103 42 35.15
	11889.00	34.49	343.50	11832.40	-243.43	-245.53	-107.07	9.89	440926.55	734181.18	N 32 12 38.33	W 103 42 35.31
	11984.00	47.26	353.88	11904.16	-182.43	-184.73	-118.49	15.19	440987.35	734169.76	N 32 12 38.93	W 103 42 35.44
Wolfcamp Intersection	12039.11	51.59	356.27	11940.00	-140.68	-143.04	-122.05	8.52	441029.04	734166.19	N 32 12 39.34	W 103 42 35.48
	12079.00	54.76	357.82	11963.91	-108.76	-111.15	-123.69	8.52	441060.92	734164.55	N 32 12 39.66	W 103 42 35.50
	12174.00	63.33	358.49	12012.73	-27.38	-29.80	-126.29	9.04	441142.27	734161.95	N 32 12 40.46	W 103 42 35.52
	12269.00	69.23	357.29	12050.93	59.54	57.07	-129.51	6.32	441229.14	734158.73	N 32 12 41.32	W 103 42 35.55
	12364.00	74.26	358.76	12080.68	149.72	147.21	-132.60	5.49	441319.27	734155.64	N 32 12 42.21	W 103 42 35.58
	12459.00	86.45	0.81	12096.56	243.18	240.68	-132.92	13.01	441412.74	734155.32	N 32 12 43.14	W 103 42 35.58
	12537.00	92.82	3.39	12097.06	321.01	318.58	-130.07	8.81	441490.64	734158.18	N 32 12 43.91	W 103 42 35.54
	12597.00	91.78	3.46	12094.65	380.78	378.43	-126.49	1.74	441550.48	734161.76	N 32 12 44.50	W 103 42 35.49
	12692.00	90.54	2.98	12092.73	475.49	473.25	-121.15	1.40	441645.30	734167.09	N 32 12 45.44	W 103 42 35.43
	12787.00	90.78	4.52	12091.64	570.14	568.04	-114.94	1.64	441740.08	734173.31	N 32 12 46.38	W 103 42 35.35
	12882.00	90.23	3.83	12090.80	664.73	662.78	-108.02	0.93	441834.82	734180.22	N 32 12 47.31	W 103 42 35.26
	12977.00	90.68	5.05	12090.04	759.28	757.49	-100.67	1.37	441929.53	734187.58	N 32 12 48.25	W 103 42 35.17
	13072.00	90.74	4.27	12088.87	853.79	851.79	-92.95	0.82	442024.20	734195.29	N 32 12 49.19	W 103 42 35.07
	13166.00	90.37	3.78	12087.96	947.41	945.94	-86.35	0.65	442117.96	734201.89	N 32 12 50.12	W 103 42 34.99
	13261.00	90.78	3.27	12087.00	1042.10	1040.75	-80.51	0.69	442212.77	734207.73	N 32 12 51.05	W 103 42 34.92
	13356.00	88.89	359.61	12087.28	1136.99	1135.70	-78.13	4.34	442307.71	734210.12	N 32 12 51.99	W 103 42 34.88
	13451.00	88.41	358.58	12089.51	1231.96	1230.66	-79.63	1.20	442402.67	734208.62	N 32 12 52.93	W 103 42 34.89
	13546.00	88.75	359.88	12091.87	1326.93	1325.62	-80.90	1.41	442497.62	734207.34	N 32 12 53.87	W 103 42 34.90
	13641.00	88.17	359.51	12094.42	1421.88	1420.58	-81.41	0.72	442592.58	734206.84	N 32 12 54.81	W 103 42 34.90
	13736.00	89.30	0.13	12096.52	1516.84	1515.56	-81.71	1.36	442687.55	734206.54	N 32 12 55.75	W 103 42 34.90
	13839.00	89.27	359.09	12097.80	1619.63	1618.55	-82.41	1.01	442790.53	734205.64	N 32 12 56.77	W 103 42 34.90
	13926.00	92.02	359.96	12096.83	1706.81	1705.53	-83.13	3.32	442877.51	734205.12	N 32 12 57.63	W 103 42 34.90
	14020.00	89.47	359.16	12095.60	1800.78	1799.51	-83.85	2.84	442971.49	734204.39	N 32 12 58.56	W 103 42 34.90
	14115.00	89.40	357.38	12096.54	1895.77	1894.46	-86.72	1.88	443066.43	734201.53	N 32 12 59.50	W 103 42 34.93
	14210.00	89.30	356.78									

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 ° ' ")
	17342.00	91.29	0.23	12085.92	5121.61	5119.81	-143.04	0.64	446291.62	734145.21	N 32 13 31.42	W 103 42 35.37
	17437.00	91.91	359.97	12083.27	5216.55	5214.77	-142.87	0.71	446386.58	734145.37	N 32 13 32.36	W 103 42 35.36
	17532.00	91.09	359.86	12080.78	5311.50	5309.74	-143.01	0.87	446481.54	734145.23	N 32 13 33.30	W 103 42 35.35
	17627.00	90.61	359.53	12079.37	5406.48	5404.73	-143.52	0.61	446576.53	734144.73	N 32 13 34.24	W 103 42 35.35
	17722.00	91.23	359.41	12077.85	5501.47	5499.71	-144.40	0.66	446671.50	734143.85	N 32 13 35.18	W 103 42 35.36
	17817.00	91.23	359.87	12075.81	5596.44	5594.69	-145.00	0.48	446766.48	734143.25	N 32 13 36.12	W 103 42 35.36
	17912.00	90.47	0.53	12074.40	5691.40	5689.67	-144.66	1.06	446861.46	734143.58	N 32 13 37.06	W 103 42 35.35
	18007.00	89.47	359.40	12074.45	5786.38	5784.67	-144.72	1.59	446956.45	734143.53	N 32 13 38.00	W 103 42 35.34
	18101.00	90.26	359.99	12074.67	5880.37	5878.67	-145.22	1.05	447050.44	734143.03	N 32 13 38.93	W 103 42 35.34
	18196.00	90.61	359.66	12073.95	5975.36	5973.67	-145.51	0.51	447145.44	734142.74	N 32 13 39.87	W 103 42 35.34
	18291.00	90.78	359.65	12072.80	6070.34	6068.66	-146.08	0.18	447240.42	734142.16	N 32 13 40.81	W 103 42 35.34
	18386.00	90.68	0.24	12071.59	6165.32	6163.65	-146.18	0.63	447335.41	734142.07	N 32 13 41.75	W 103 42 35.33
	18481.00	90.37	359.59	12070.72	6260.30	6258.64	-146.32	0.76	447430.40	734141.93	N 32 13 42.69	W 103 42 35.33
	18576.00	90.50	359.28	12069.99	6355.29	6353.64	-147.25	0.35	447525.39	734140.99	N 32 13 43.63	W 103 42 35.33
	18671.00	89.95	359.02	12069.62	6450.29	6448.63	-148.66	0.64	447620.37	734139.59	N 32 13 44.57	W 103 42 35.34
	18766.00	90.20	359.38	12069.50	6545.29	6543.62	-149.99	0.46	447715.36	734138.26	N 32 13 45.51	W 103 42 35.35
	18861.00	90.40	0.56	12069.00	6640.27	6638.61	-150.04	1.26	447810.35	734138.21	N 32 13 46.45	W 103 42 35.35
	18956.00	90.33	0.21	12068.39	6735.23	6733.61	-149.40	0.38	447905.34	734138.85	N 32 13 47.39	W 103 42 35.33
	19051.00	90.33	0.48	12067.85	6830.20	6828.60	-148.83	0.28	448000.33	734139.42	N 32 13 48.33	W 103 42 35.32
	19146.00	89.34	358.58	12068.12	6925.19	6923.60	-149.61	2.26	448095.32	734138.64	N 32 13 49.27	W 103 42 35.32
	19241.00	90.33	359.57	12068.39	7020.19	7018.58	-151.14	1.47	448190.30	734137.11	N 32 13 50.21	W 103 42 35.33
	19336.00	91.12	0.48	12067.19	7115.16	7113.57	-151.10	1.27	448285.28	734137.15	N 32 13 51.15	W 103 42 35.33
	19431.00	90.26	359.99	12066.05	7210.13	7208.56	-150.71	1.04	448380.27	734137.54	N 32 13 52.09	W 103 42 35.32
	19526.00	90.30	0.01	12065.58	7305.11	7303.56	-150.71	0.05	448475.26	734137.54	N 32 13 53.03	W 103 42 35.31
	19621.00	90.40	0.18	12065.00	7400.09	7398.56	-150.55	0.21	448570.26	734137.70	N 32 13 53.97	W 103 42 35.30
100' FNL Crossed	19622.00	90.40	0.19	12065.00	7401.09	7399.56	-150.55	0.59	448571.26	734137.70	N 32 13 53.98	W 103 42 35.30
Final MWD	19657.00	90.37	0.39	12064.76	7436.07	7434.56	-150.37	0.59	448606.25	734137.87	N 32 13 54.32	W 103 42 35.30
Proj to TD	19702.00	90.37	0.39	12064.47	7481.06	7479.56	-150.07	0.00	448651.25	734138.18	N 32 13 54.77	W 103 42 35.29

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	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Mesa Verde WC Unit 10H Gyro + MWD 0-19702MD
	1	26.500	26.500	Act Stns	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Mesa Verde WC Unit 10H Gyro + MWD 0-19702MD
	1	26.500	852.600	Act Stns	26.400	26.400	GYD_GC+DROP+OH	Original Borehole / Oxy Mesa Verde WC Unit 10H Gyro + MWD Original Borehole / Oxy Mesa
	1	852.600	19702.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	Verde WC Unit 10H Gyro + MWD 0-19702MD