

District II
301 W. Grand Avenue, Artesia, NM 88210Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesDistrict III
1000 Rio Brazos Rd., Aztec, NM 87410OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505District IV
1220 S St. Francis Dr., Santa Fe, NM 87505☒ AMENDED REPORT
"As DRILLED"

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34988	*Pool Code 97232 / 72319 / 71599	*Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 1800
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6402'

¹⁰ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	31N	6W		935	SOUTH	1935	WEST	SAN JUAN

¹¹ 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
K	9	31N	6W		2303	SOUTH	1863	WEST	SAN JUAN

¹² Dedicated Acres 320.0 Acres - (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD SEP 25 09 OIL CONS. DIV.
--	-------------------------------	----------------------------------	---

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 **DIST. 3**

¹⁶ LEASE SF-078765 5280.00' 1863' 2303' 1935' 2638.68' 5270.76' 5280.00' BOTTOM-HOLE LAT: 36.91317°N LONG: 107.47083°W DATUM: NAD1983 SURFACE LOCATION LAT: 36.90940°N LONG: 107.47059°W DATUM: NAD1983	¹⁷ 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 Date LARRY HIGGINS Printed Name
	¹⁸ 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 Revised: SEPTEMBER 21, 2009 Date of Survey: MARCH 16, 2009 Signature and Seal of Professional Surveyor JASON C. EDWARDS Certificate Number 15269

18



ROSA UNIT #180D
SAN JUAN CO., NEW MEXICO
API# 30-045-34988

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	354.38	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	354.38	400.00	0.00	0.00	0.00	0.00	0.00	
3	1303.63	36.15	354.38	1244.87	274.37	-27.01	4.00	354.38	275.70	
4	2234.10	36.15	354.38	1996.25	820.56	-80.78	0.00	0.00	824.52	
5	4041.36	0.00	354.38	3686.00	1369.30	-134.80	2.00	180.00	1375.92	Int. Csg. Pt.
6	8426.36	0.00	354.38	8071.00	1369.30	-134.80	0.00	354.38	1375.92	PBHL

WELL DETAILS

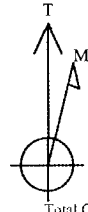
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#180D	0.00	0.00	2150554.40	2829147.39	36°54'33.840N	107°28'14.120W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Int. Csg. Pt.	3686.00	1369.30	-134.80	2151923.18	2829007.38	36°54'47.380N	107°28'15.780W	Point
PBHL	8071.00	-2675.90	-134.82	2147878.00	2829022.74	36°54'07.380N	107°28'15.780W	Point

FORMATION TOP DETAILS

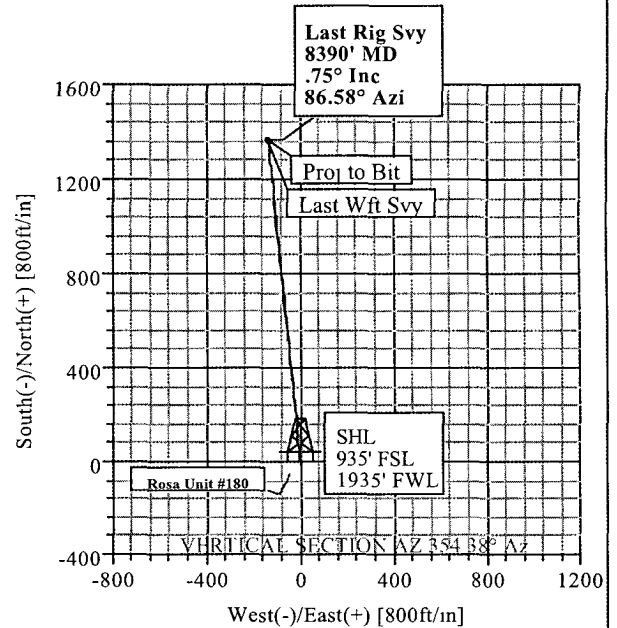
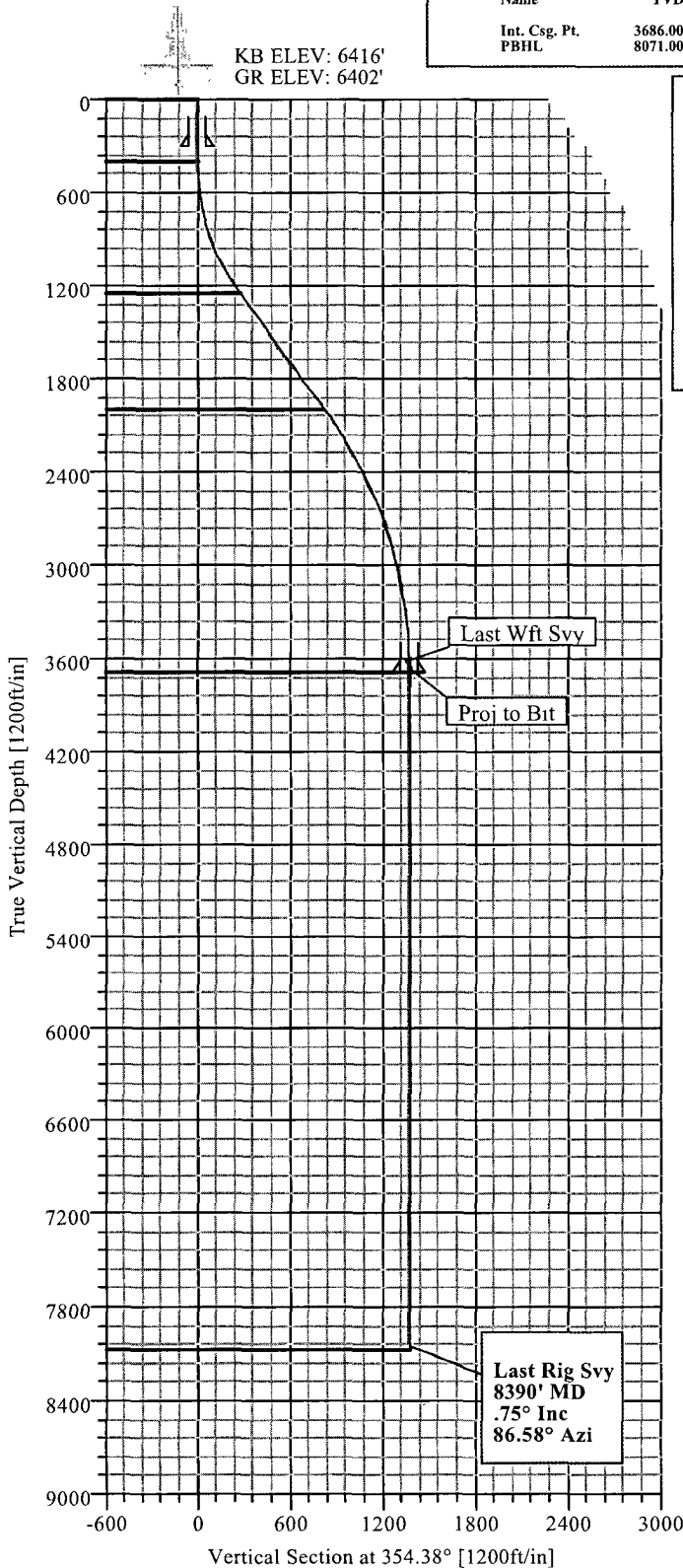
No.	TVDPath	MDPath	Formation
1	2366.00	2669.53	Ojo Alamo Ss.
2	2481.00	2797.66	Kirtland Sh.
3	2931.00	3277.33	Fruitland Fm.
4	3211.00	3564.16	Pictured Cliffs Ss.
5	3506.00	3861.24	Lewis Sh.
6	5091.00	5446.36	Cliff House Ss. Trans.
7	5421.00	5776.36	Cliff House Ss.
8	5466.00	5821.36	Menefee Fm.
9	5696.00	6051.36	Point Lookout Ss.
10	6001.00	6356.36	Mancos Sh.
11	7026.00	7381.36	Gallup Ss.
12	7746.00	8101.36	Greenhorn Ls.
13	7806.00	8161.36	Graneros Sh.
14	7936.00	8291.36	Dakota Ss.



Azimuths to True North
Magnetic North 10 04°

Magnetic Field
Strength: 51163nT
Dip Angle 63 73°
Date 4/19/2009
Model igrf200510

Total Correction to True North 10 04°



ROVD SEP 25 '09
OIL CONS. DIV.
DIST. 3



Weatherford

CASING DETAILS

No.	TVD	MD	Name	Size
1	300.00	300.00	10 3/4"	10.750
2	3686.00	4041.36	7 5/8" Int. Csg.	0.000

Plan. Plan #1 (#180D/1)

Created By: Lindsey Maddux

Date: 9/17/2009



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION Date: 9/17/2009 Time: 14:56:46 Page: 1
 Field: SAN JUAN CO. NM (NAD83) Co-ordinate(NE) Reference: Well: #180D, True North
 Site: Rosa Unit #180D Vertical (TVD) Reference: SITE 6416.0
 Well: #180D Section (VS) Reference: Well (0.00N,0.00E,354.38Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: SAN JUAN CO. NM (NAD83)

Map System: US State Plane Coordinate System 1983
 Geo Datum: GRS 1980
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Western Zone
 Coordinate System: Well Centre
 Geomagnetic Model: igrf200510

Site: Rosa Unit #180D

935' FSL 1935' FWL of SEC 9 T31N R6W

Site Position: Northing: 2150554.40 ft Latitude: 36 54 33.840 N
 From: Geographic Easting: 2829147.39 ft Longitude: 107 28 14.120 W
 Position Uncertainty: 0.00 ft North Reference: True
 Ground Level: 6402.00 ft Grid Convergence: 0.22 deg

Well: #180D

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2150554.40 ft Latitude: 36 54 33.840 N
 +E/-W 0.00 ft Easting: 2829147.39 ft Longitude: 107 28 14.120 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 6416.00 ft
 Magnetic Data: 4/19/2009
 Field Strength: 51163 nT
 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 ft ft ft deg
 0.00 0.00 0.00 354.38

Survey: WFT SVY

Start Date: 9/2/2009

Company: Weatherford International, Inc
 Tool: MWD;MWD - Standard

Engineer: Lindsey Maddux
 Tied-to: From Surface

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
390.00	0.90	107.22	389.98	-0.91	2.93	-1.19	0.23	0.23	0.00	MWD
420.00	1.00	41.24	419.98	-0.78	3.32	-1.10	3.46	0.33	-219.93	MWD
450.00	2.56	10.87	449.97	0.08	3.62	-0.28	5.90	5.20	-101.23	MWD
481.00	4.06	0.87	480.91	1.85	3.77	1.47	5.17	4.84	-32.26	MWD
511.00	5.56	354.99	510.81	4.36	3.66	3.98	5.26	5.00	-19.60	MWD
541.00	6.63	351.12	540.64	7.52	3.26	7.17	3.82	3.57	-12.90	MWD
573.00	7.99	349.72	572.38	11.53	2.58	11.23	4.29	4.25	-4.37	MWD
603.00	9.19	352.62	602.04	15.96	1.90	15.70	4.25	4.00	9.67	MWD
633.00	10.13	354.12	631.61	20.96	1.32	20.73	3.24	3.13	5.00	MWD
663.00	11.00	358.74	661.11	26.45	0.99	26.22	4.05	2.90	15.40	MWD
693.00	12.13	358.74	690.50	32.46	0.86	32.22	3.77	3.77	0.00	MWD
724.00	13.19	358.37	720.74	39.25	0.69	39.00	3.43	3.42	-1.19	MWD
754.00	14.25	356.99	749.89	46.36	0.40	46.10	3.70	3.53	-4.60	MWD
785.00	15.19	356.24	779.87	54.23	-0.07	53.97	3.09	3.03	-2.42	MWD
814.00	16.25	355.12	807.78	62.06	-0.67	61.83	3.80	3.66	-3.86	MWD
846.00	17.69	353.62	838.39	71.35	-1.59	71.16	4.70	4.50	-4.69	MWD
876.00	18.81	352.37	866.88	80.68	-2.74	80.56	3.95	3.73	-4.17	MWD
907.00	20.06	351.12	896.11	90.88	-4.22	90.86	4.25	4.03	-4.03	MWD
937.00	21.19	352.12	924.19	101.34	-5.76	101.41	3.95	3.77	3.33	MWD
966.00	22.69	351.74	951.09	112.07	-7.28	112.24	5.20	5.17	-1.31	MWD
997.00	24.31	353.12	979.52	124.32	-8.90	124.59	5.52	5.23	4.45	MWD
1027.00	25.44	354.99	1006.73	136.87	-10.21	137.21	4.59	3.77	6.23	MWD
1057.00	26.19	354.87	1033.74	149.88	-11.36	150.27	2.51	2.50	-0.40	MWD



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION Date: 9/17/2009 Time: 14:56:46 Page: 2
 Field: SAN JUAN CO. NM (NAD83) Co-ordinate(NE) Reference: Well: #180D, True North
 Site: Rosa Unit #180D Vertical (TVD) Reference: SITE 6416.0
 Well: #180D Section (VS) Reference: Well (0.00N,0.00E,354.38Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1087.00	27.38	353.99	1060.52	163.34	-12.67	163.79	4.18	3.97	-2.93	MWD
1117.00	28.56	353.99	1087.02	177.33	-14.15	177.86	3.93	3.93	0.00	MWD
1149.00	29.91	354.80	1114.94	192.88	-15.67	193.49	4.40	4.22	2.53	MWD
1179.00	31.19	353.74	1140.77	208.05	-17.20	208.74	4.63	4.27	-3.53	MWD
1210.00	32.56	354.37	1167.10	224.33	-18.89	225.11	4.55	4.42	2.03	MWD
1241.00	33.69	353.37	1193.06	241.18	-20.70	242.05	4.05	3.65	-3.23	MWD
1272.00	34.31	352.49	1218.76	258.38	-22.84	259.37	2.55	2.00	-2.84	MWD
1303.00	35.25	353.12	1244.22	275.92	-25.05	277.05	3.25	3.03	2.03	MWD
1332.00	35.69	353.24	1267.84	292.63	-27.05	293.87	1.54	1.52	0.41	MWD
1363.00	35.69	352.12	1293.02	310.57	-29.35	311.95	2.11	0.00	-3.61	MWD
1393.00	35.71	353.34	1317.38	327.93	-31.57	329.45	2.37	0.07	4.07	MWD
1424.00	35.94	353.49	1342.52	345.96	-33.65	347.59	0.79	0.74	0.48	MWD
1455.00	36.06	352.24	1367.60	364.04	-35.91	365.81	2.40	0.39	-4.03	MWD
1485.00	34.88	353.87	1392.03	381.32	-38.02	383.21	5.04	-3.93	5.43	MWD
1515.00	34.31	353.62	1416.72	398.25	-39.88	400.24	1.96	-1.90	-0.83	MWD
1545.00	34.19	353.99	1441.52	415.03	-41.70	417.12	0.80	-0.40	1.23	MWD
1575.00	33.50	355.62	1466.44	431.67	-43.21	433.83	3.80	-2.30	5.43	MWD
1607.00	33.25	355.49	1493.16	449.22	-44.58	451.43	0.81	-0.78	-0.41	MWD
1638.00	34.13	355.37	1518.95	466.36	-45.95	468.62	2.85	2.84	-0.39	MWD
1668.00	35.19	355.74	1543.63	483.37	-47.27	485.68	3.60	3.53	1.23	MWD
1699.00	36.00	355.24	1568.84	501.36	-48.69	503.72	2.78	2.61	-1.61	MWD
1730.00	36.31	355.12	1593.87	519.59	-50.22	522.01	1.03	1.00	-0.39	MWD
1761.00	35.88	354.62	1618.92	537.78	-51.86	540.27	1.68	-1.39	-1.61	MWD
1792.00	35.77	356.10	1644.05	555.86	-53.33	558.41	2.82	-0.35	4.77	MWD
1823.00	36.50	355.37	1669.09	574.09	-54.69	576.68	2.73	2.35	-2.35	MWD
1854.00	36.69	354.87	1693.98	592.50	-56.26	595.16	1.14	0.61	-1.61	MWD
1885.00	36.38	355.49	1718.89	610.89	-57.81	613.62	1.55	-1.00	2.00	MWD
1916.00	37.13	354.87	1743.72	629.38	-59.37	632.16	2.70	2.42	-2.00	MWD
1947.00	37.13	354.49	1768.44	648.01	-61.10	650.88	0.74	0.00	-1.23	MWD
1978.00	36.81	354.99	1793.21	666.57	-62.81	669.52	1.42	-1.03	1.61	MWD
2007.00	37.50	355.37	1816.32	684.03	-64.28	687.03	2.51	2.38	1.31	MWD
2038.00	37.31	354.62	1840.95	702.78	-65.93	705.86	1.59	-0.61	-2.42	MWD
2069.00	37.25	354.62	1865.61	721.48	-67.69	724.64	0.19	-0.19	0.00	MWD
2098.00	37.69	354.74	1888.63	739.04	-69.32	742.28	1.54	1.52	0.41	MWD
2128.00	38.19	353.24	1912.29	757.39	-71.26	760.72	3.50	1.67	-5.00	MWD
2157.00	38.13	352.62	1935.09	775.17	-73.46	778.64	1.34	-0.21	-2.14	MWD
2188.00	38.63	353.37	1959.39	794.27	-75.81	797.88	2.20	1.61	2.42	MWD
2219.00	37.19	353.87	1983.85	813.20	-77.93	816.92	4.75	-4.65	1.61	MWD
2250.00	35.44	354.24	2008.83	831.46	-79.83	835.28	5.69	-5.65	1.19	MWD
2280.00	33.81	354.12	2033.51	848.42	-81.56	852.33	5.44	-5.43	-0.40	MWD
2312.00	32.99	354.80	2060.23	865.95	-83.26	869.94	2.82	-2.56	2.12	MWD
2343.00	32.00	355.12	2086.37	882.54	-84.72	886.59	3.24	-3.19	1.03	MWD
2375.00	31.31	354.37	2113.61	899.26	-86.26	903.39	2.48	-2.16	-2.34	MWD
2406.00	31.32	355.31	2140.10	915.31	-87.71	919.50	1.58	0.03	3.03	MWD
2437.00	30.31	354.49	2166.72	931.12	-89.12	935.38	3.53	-3.26	-2.65	MWD
2467.00	30.00	354.87	2192.66	946.13	-90.51	950.45	1.21	-1.03	1.27	MWD
2498.00	30.06	354.62	2219.50	961.58	-91.94	965.96	0.45	0.19	-0.81	MWD
2529.00	30.38	354.37	2246.29	977.11	-93.43	981.56	1.11	1.03	-0.81	MWD
2559.00	30.56	354.62	2272.14	992.25	-94.89	996.78	0.73	0.60	0.83	MWD
2589.00	30.81	354.99	2297.94	1007.50	-96.28	1012.08	1.04	0.83	1.23	MWD
2620.00	30.44	354.24	2324.62	1023.22	-97.76	1027.88	1.72	-1.19	-2.42	MWD
2651.00	30.50	353.49	2351.34	1038.85	-99.44	1043.59	1.24	0.19	-2.42	MWD
2683.00	30.25	353.12	2378.95	1054.92	-101.33	1059.77	0.98	-0.78	-1.16	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company:	WILLIAMS PRODUCTION	Date:	9/17/2009	Time:	14:56:46	Page:	3
Field:	SAN JUAN CO. NM (NAD83)	Co-ordinate(NE) Reference:	Well: #180D, True North				
Site:	Rosa Unit #180D	Vertical (TVD) Reference:	SITE 6416.0				
Well:	#180D	Section (VS) Reference:	Well (0.00N,0.00E,354.38Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2714.00	29.81	353.12	2405.78	1070.32	-103.18	1075.28	1.42	-1.42	0.00	MWD
2745.00	28.69	353.12	2432.83	1085.36	-105.00	1090.43	3.61	-3.61	0.00	MWD
2777.00	27.62	352.47	2461.04	1100.34	-106.89	1105.52	3.48	-3.34	-2.03	MWD
2808.00	27.13	352.62	2488.57	1114.47	-108.74	1119.77	1.60	-1.58	0.48	MWD
2839.00	26.50	352.74	2516.24	1128.34	-110.52	1133.74	2.04	-2.03	0.39	MWD
2870.00	25.88	352.37	2544.06	1141.91	-112.29	1147.42	2.07	-2.00	-1.19	MWD
2902.00	24.56	353.12	2573.01	1155.44	-114.02	1161.05	4.24	-4.12	2.34	MWD
2933.00	23.06	353.99	2601.37	1167.87	-115.43	1173.56	4.97	-4.84	2.81	MWD
2963.00	21.50	356.49	2629.13	1179.20	-116.38	1184.93	6.08	-5.20	8.33	MWD
2995.00	20.26	357.91	2659.03	1190.59	-116.94	1196.32	4.19	-3.87	4.44	MWD
3026.00	19.13	356.87	2688.21	1201.03	-117.41	1206.75	3.82	-3.65	-3.35	MWD
3056.00	18.56	355.62	2716.60	1210.70	-118.05	1216.44	2.33	-1.90	-4.17	MWD
3087.00	18.19	353.62	2746.02	1220.43	-118.96	1226.21	2.36	-1.19	-6.45	MWD
3119.00	17.56	350.87	2776.48	1230.16	-120.28	1236.02	3.29	-1.97	-8.59	MWD
3148.00	16.69	350.62	2804.19	1238.58	-121.65	1244.54	3.01	-3.00	-0.86	MWD
3177.00	16.00	350.74	2832.02	1246.64	-122.98	1252.69	2.38	-2.38	0.41	MWD
3208.00	15.50	351.24	2861.86	1254.95	-124.29	1261.09	1.67	-1.61	1.61	MWD
3239.00	15.06	353.87	2891.76	1263.05	-125.35	1269.25	2.65	-1.42	8.48	MWD
3271.00	14.50	356.62	2922.70	1271.18	-126.04	1277.41	2.80	-1.75	8.59	MWD
3302.00	14.31	355.74	2952.73	1278.87	-126.55	1285.12	0.94	-0.61	-2.84	MWD
3333.00	14.31	355.24	2982.77	1286.51	-127.15	1292.78	0.40	0.00	-1.61	MWD
3365.00	14.06	354.62	3013.79	1294.32	-127.84	1300.62	0.91	-0.78	-1.94	MWD
3396.00	13.13	355.74	3043.92	1301.58	-128.46	1307.91	3.12	-3.00	3.61	MWD
3427.00	12.13	357.37	3074.17	1308.35	-128.87	1314.68	3.42	-3.23	5.26	MWD
3456.00	11.00	357.37	3102.58	1314.16	-129.14	1320.49	3.90	-3.90	0.00	MWD
3485.00	10.50	355.87	3131.07	1319.56	-129.45	1325.89	1.98	-1.72	-5.17	MWD
3516.00	10.25	352.99	3161.57	1325.11	-129.99	1331.47	1.86	-0.81	-9.29	MWD
3548.00	9.50	350.87	3193.09	1330.54	-130.76	1336.95	2.60	-2.34	-6.62	MWD
3579.00	8.63	350.12	3223.70	1335.36	-131.56	1341.83	2.83	-2.81	-2.42	MWD
3609.00	7.63	353.24	3253.40	1339.56	-132.19	1346.06	3.64	-3.33	10.40	MWD
3641.00	6.76	355.54	3285.15	1343.54	-132.58	1350.07	2.86	-2.72	7.19	MWD
3672.00	6.19	356.62	3315.95	1347.03	-132.82	1353.56	1.88	-1.84	3.48	MWD
3703.00	5.81	356.24	3346.78	1350.27	-133.02	1356.80	1.23	-1.23	-1.23	MWD
3734.00	5.44	350.74	3377.63	1353.28	-133.36	1359.84	2.11	-1.19	-17.74	MWD
3764.00	5.00	349.19	3407.51	1355.97	-133.84	1362.56	1.54	-1.47	-5.17	MWD
3795.00	4.38	346.74	3438.40	1358.45	-134.36	1365.08	2.10	-2.00	-7.90	MWD
3825.00	3.69	344.99	3468.33	1360.50	-134.87	1367.16	2.34	-2.30	-5.83	MWD
3854.00	3.19	342.37	3497.28	1362.17	-135.36	1368.87	1.81	-1.72	-9.03	MWD
3883.00	2.06	351.24	3526.25	1363.45	-135.68	1370.18	4.13	-3.90	30.59	MWD
3914.00	0.94	13.74	3557.24	1364.25	-135.71	1370.98	4.01	-3.61	72.58	MWD
3946.00	0.69	66.99	3589.23	1364.58	-135.47	1371.29	2.39	-0.78	166.41	MWD
3962.00	0.88	86.58	3605.23	1364.62	-135.26	1371.31	2.04	1.19	122.44	Last Wft Svy
4012.00	0.88	86.58	3655.23	1364.67	-134.49	1371.28	0.00	0.00	0.00	Proj to Bit
8390.00	0.75	86.58	8032.78	1368.38	-72.33	1368.89	0.00	0.00	0.00	Last Rig Svy

Annotation

MD ft	TVD ft	
3962.00	3605.23	Last Wft Svy
4012.00	3655.23	Proj to Bit
8390.00	8032.78	Last Rig Svy