

District I
1625 N French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RCVD AUG 27 '08

☒ AMENDED REPORT
OIL CONS. DIV.

"As Drilled"

WELL LOCATION AND ACREAGE DEDICATION PLAT

DIST. 3

¹ API Number 39-30152	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 17033	⁵ Property Name ROSA UNIT	⁶ Well Number 378A
⁷ OGRIID No. 120782	⁸ Operator Name WILLIAMS PRODUCTION COMPANY	⁹ Elevation 6758'

¹⁰ Surface Location

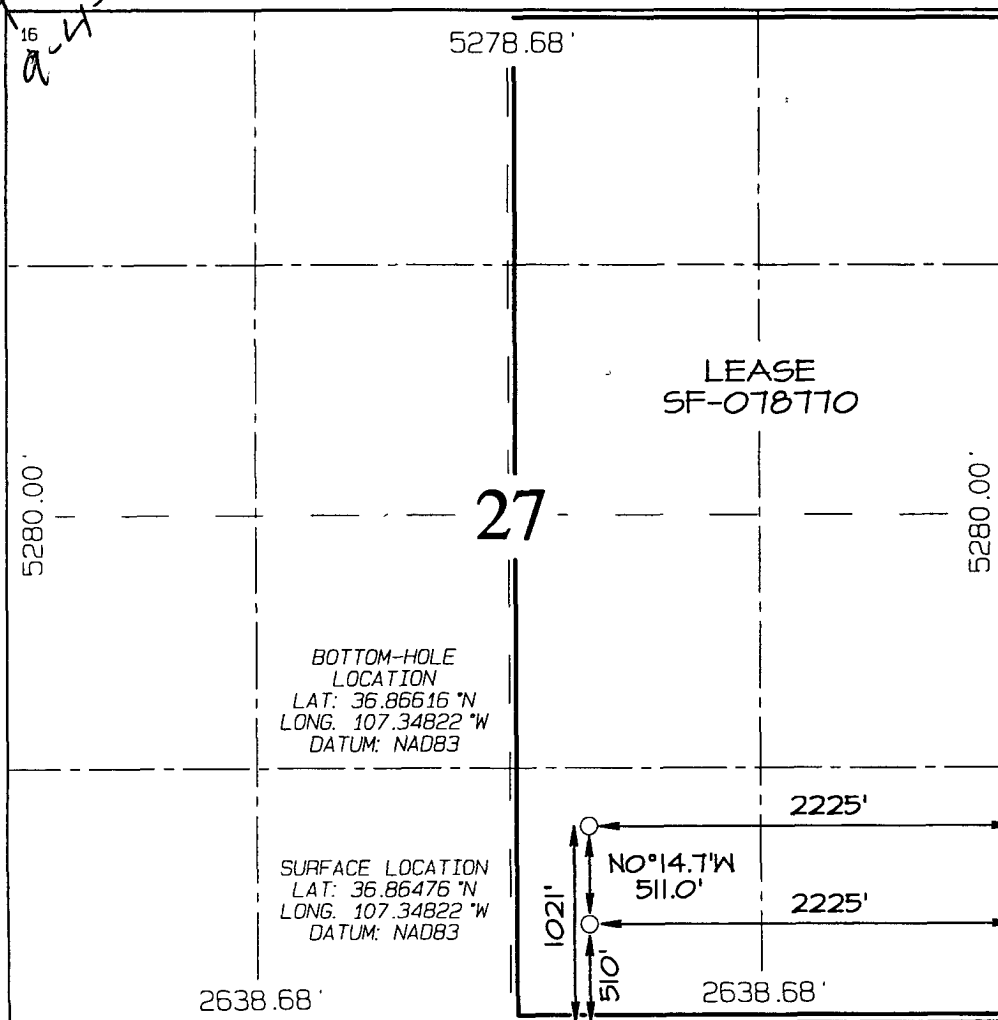
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	27	31N	5W		510	SOUTH	2225	EAST	RIO ARriba

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
0	27	31N	5W		1021	SOUTH	2225	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



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.

Larry Higgins 8-26-08
Signature Date

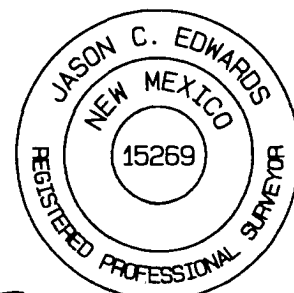
LARRY HIGGINS
Printed Name

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

Survey Date: OCTOBER 13, 2005

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

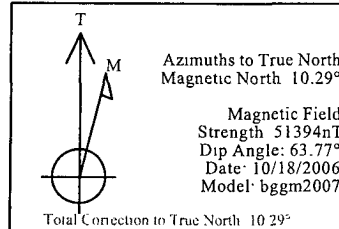


ROSA UNIT #378A
RIO ARriba COUNTY, NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.76	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	359.76	400.00	0.00	0.00	0.00	0.00	0.00	
3	711.29	9.34	359.76	709.91	25.31	-0.11	3.00	359.76	25.31	
4	3525.68	9.34	359.76	3487.00	482.00	-2.02	0.00	0.00	482.00	P2

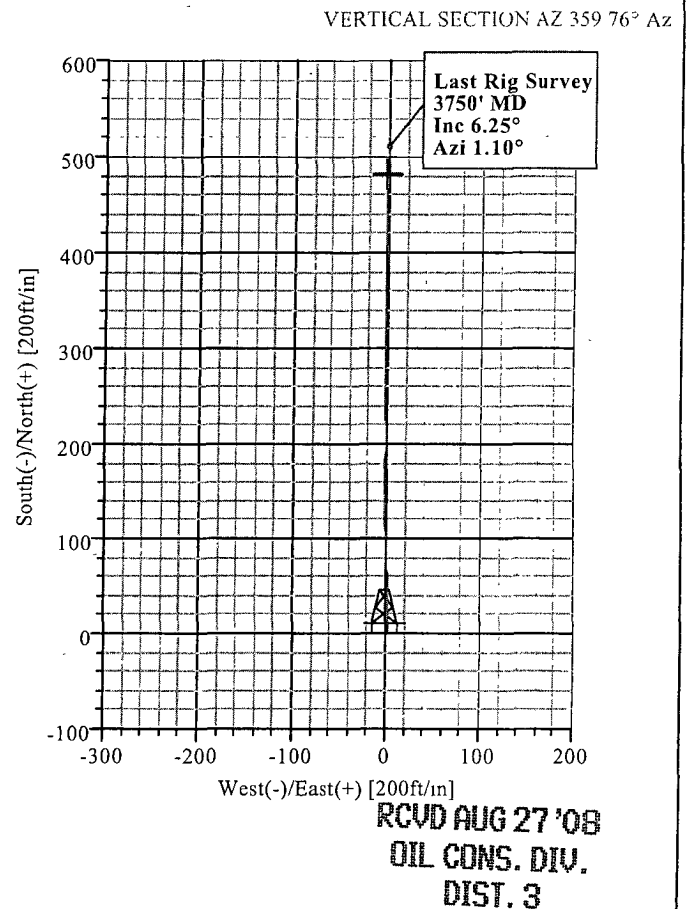
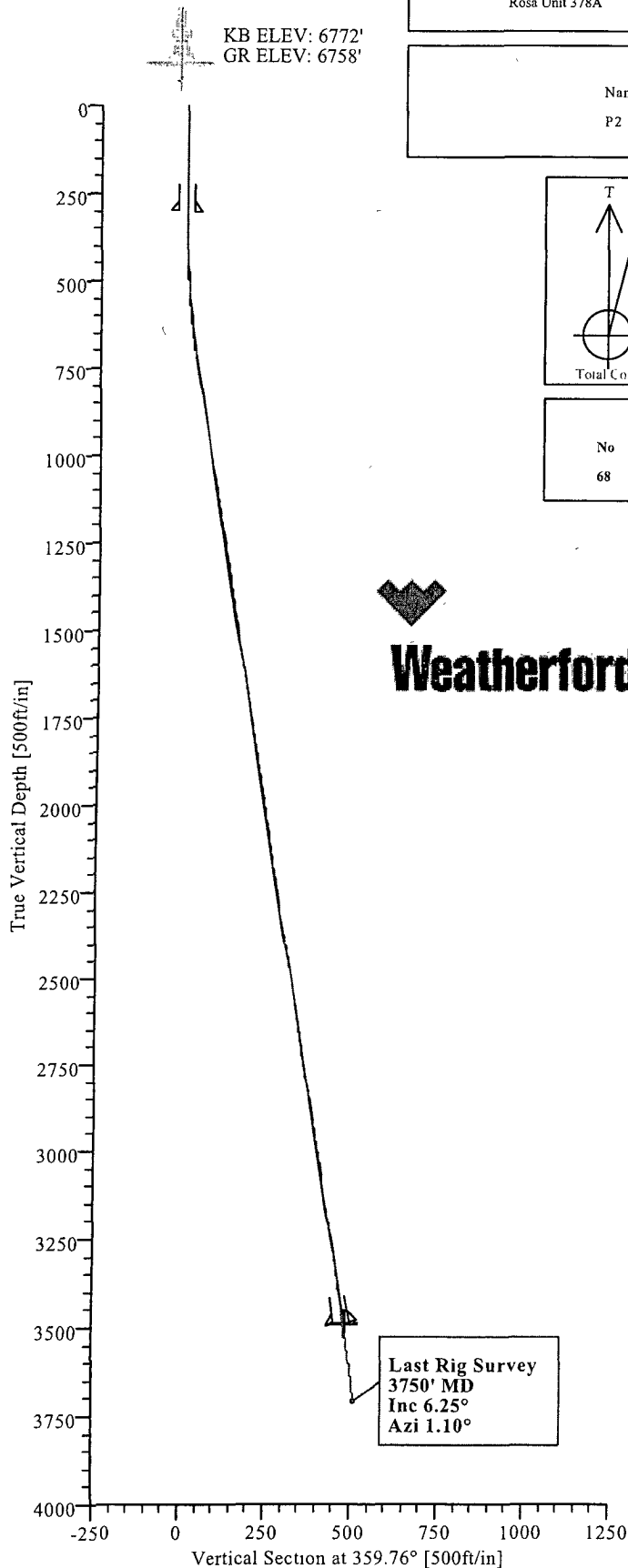
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rosa Unit 378A	0.00	0.00	2134461.45	2865005.56	36°51'53.136N	107°20'53.590W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
P2	3487.00	482.00	-2.02	2134943.43	2865001.09	Point



FORMATION TOP DETAILS			
No	TVDPath	MDPath	Formation
1	1682.00	1696.41	Nacimiento
2	2897.00	2927.81	Ojo Alamo
3	3002.00	3034.31	Kirtland
4	3352.00	3388.75	Fruitland
5	3507.00	3545.56	Top Coal Interval
6	3612.00	3651.66	Base Coal

Last Rig Survey: WFT SVY (Rosa Unit 378A/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
68	3750.00	6.25	1.10	3709.62	510.64	-0.20	1.33	180.00	510.64



LEGEND	
	Rosa Unit 378A, 1, Plan #2
	WFT SVY

Survey: WFT SVY (Rosa Unit 378A/1)
Created By: Lindsey Maddux
Date: 8/7/2008



Weatherford International, Inc.

Survey Report

Company: WILLIAMS PRODUCTION Date: 8/7/2008 Time: 13:12:19 Page: 1
Field: Rio Arriba County (NAD 83) Co-ordinate(NE) Reference: Well: Rosa Unit 378A, True North
Site: Rosa Unit 378A Vertical (TVD) Reference: SITE 6772.0
Well: Rosa Unit 378A Section (VS) Reference: Well (0.00N,0.00E,359.76Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Rio Arriba County (NAD 83)

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: bggm2007

Site: Rosa Unit 378 A
Well Pad 27
Rio Arriba County, NM

Site Position: Northing: 2134461.45 ft Latitude: 36 51 53.136 N
From: Geographic Easting: 2865005.56 ft Longitude: 107 20 53.590 W
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 6758.00 ft Grid Convergence: 0.29 deg

Well: Rosa Unit 378A
510' FSL & 2225' FEL

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2134461.45 ft Latitude: 36 51 53.136 N
+E/-W 0.00 ft Easting: 2865005.56 ft Longitude: 107 20 53.590 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Section 27 T 31N R 5W

Current Datum: SITE

Height 6772.00 ft

Magnetic Data: 10/18/2006

Field Strength: 51394 nT

Vertical Section: Depth From (TVD)
ft

+N/-S
ft

Drilled From: Surface

Tie-on Depth: 0.00 ft

Above System Datum: Mean Sea Level

Declination: 10.29 deg

Mag Dip Angle: 63.77 deg

+E/-W
ft

Direction
deg

0.00

0.00

0.00

359.76

Survey: WFT SVY

Start Date: 7/7/2008

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
350.00	0.38	90.54	350.00	-0.01	1.16	-0.02	0.11	0.11	0.00	MWD
390.00	0.69	41.04	390.00	0.17	1.45	0.16	1.32	0.77	-123.75	MWD
421.00	1.75	19.79	420.99	0.76	1.73	0.75	3.66	3.42	-68.55	MWD
451.00	2.88	14.92	450.96	1.91	2.08	1.91	3.82	3.77	-16.23	MWD
481.00	3.63	10.29	480.91	3.58	2.45	3.57	2.65	2.50	-15.43	MWD
510.00	3.94	4.54	509.85	5.47	2.69	5.46	1.69	1.07	-19.83	MWD
541.00	4.69	359.92	540.76	7.80	2.77	7.79	2.66	2.42	-14.90	MWD
572.00	5.50	358.79	571.64	10.56	2.74	10.54	2.63	2.61	-3.65	MWD
603.00	6.00	359.29	602.48	13.66	2.69	13.65	1.62	1.61	1.61	MWD
633.00	6.50	359.29	632.31	16.93	2.65	16.92	1.67	1.67	0.00	MWD
662.00	6.75	358.29	661.11	20.27	2.58	20.26	0.95	0.86	-3.45	MWD
693.00	7.06	359.42	691.89	24.00	2.50	23.99	1.09	1.00	3.65	MWD
723.00	8.25	0.04	721.62	27.99	2.49	27.98	3.98	3.97	2.07	MWD
753.00	9.06	358.92	751.28	32.51	2.44	32.50	2.76	2.70	-3.73	MWD
783.00	9.56	358.54	780.88	37.36	2.33	37.35	1.68	1.67	-1.27	MWD
813.00	9.63	358.54	810.46	42.36	2.21	42.35	0.23	0.23	0.00	MWD
843.00	9.88	358.54	840.03	47.44	2.08	47.43	0.83	0.83	0.00	MWD
874.00	10.17	358.68	870.56	52.84	1.95	52.83	0.94	0.94	0.45	MWD
904.00	9.81	356.29	900.10	58.03	1.72	58.03	1.83	-1.20	-7.97	MWD
935.00	9.81	354.42	930.65	63.30	1.29	63.29	1.03	0.00	-6.03	MWD
966.00	10.19	355.42	961.18	68.66	0.82	68.66	1.35	1.23	3.23	MWD
996.00	9.75	357.42	990.72	73.84	0.49	73.84	1.87	-1.47	6.67	MWD
1027.00	9.69	358.29	1021.28	79.07	0.29	79.07	0.51	-0.19	2.81	MWD



Weatherford International, Inc.

Survey Report

Company:	WILLIAMS PRODUCTION	Date:	8/7/2008	Time:	13:12:19	Page:	2
Field:	Rio Arriba County (NAD 83)	Co-ordinate(NE) Reference:	Well: Rosa Unit 378A, True North				
Site:	Rosa Unit 378 A	Vertical(TVD) Reference:	SITE 6772.0				
Well:	Rosa Unit 378A	Section (VS) Reference:	Well (0.00N;0.00E;359.76Azi)				
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
1057.00	9.69	355.79	1050.85	84.11	0.03	84.11	1.40	0.00	-8.33	MWD
1118.00	10.00	356.92	1110.95	94.52	-0.63	94.52	0.60	0.51	1.85	MWD
1180.00	9.56	359.67	1172.05	105.05	-0.95	105.05	1.03	-0.71	4.44	MWD
1240.00	9.00	358.67	1231.27	114.72	-1.08	114.72	0.97	-0.93	-1.67	MWD
1303.00	9.13	359.67	1293.48	124.64	-1.23	124.65	0.32	0.21	1.59	MWD
1367.00	8.63	359.29	1356.71	134.52	-1.32	134.53	0.79	-0.78	-0.59	MWD
1430.00	9.13	0.29	1418.96	144.25	-1.35	144.25	0.83	0.79	1.59	MWD
1493.00	8.94	358.04	1481.18	154.14	-1.49	154.14	0.64	-0.30	-3.57	MWD
1556.00	8.94	0.04	1543.41	163.93	-1.66	163.93	0.49	0.00	3.17	MWD
1619.00	9.25	0.67	1605.62	173.88	-1.59	173.89	0.52	0.49	1.00	MWD
1682.00	9.38	4.79	1667.79	184.06	-1.10	184.07	1.08	0.21	6.54	MWD
1745.00	10.00	2.29	1729.89	194.64	-0.46	194.65	1.19	0.98	-3.97	MWD
1806.00	10.25	1.42	1789.94	205.36	-0.11	205.36	0.48	0.41	-1.43	MWD
1869.00	9.56	357.42	1852.00	216.19	-0.21	216.19	1.55	-1.10	-6.35	MWD
1933.00	9.75	353.54	1915.10	226.89	-1.06	226.89	1.06	0.30	-6.06	MWD
1996.00	9.56	355.79	1977.20	237.40	-2.04	237.41	0.67	-0.30	3.57	MWD
2059.00	8.50	358.17	2039.42	247.28	-2.57	247.28	1.78	-1.68	3.78	MWD
2122.00	8.25	0.42	2101.75	256.45	-2.69	256.46	0.65	-0.40	3.57	MWD
2186.00	8.63	359.67	2165.06	265.84	-2.68	265.85	0.62	0.59	-1.17	MWD
2249.00	9.06	1.29	2227.31	275.53	-2.60	275.54	0.79	0.68	2.57	MWD
2272.00	8.75	7.42	2250.03	279.07	-2.33	279.08	4.34	-1.35	26.65	MWD
2312.00	9.44	1.79	2289.53	285.37	-1.84	285.38	2.81	1.72	-14.07	MWD
2375.00	9.63	2.42	2351.66	295.80	-1.45	295.80	0.34	0.30	1.00	MWD
2438.00	9.31	356.67	2413.80	306.15	-1.53	306.15	1.58	-0.51	-9.13	MWD
2501.00	9.56	358.67	2475.95	316.47	-1.94	316.47	0.65	0.40	3.17	MWD
2565.00	9.44	357.79	2539.07	327.03	-2.27	327.03	0.29	-0.19	-1.37	MWD
2628.00	9.44	358.92	2601.22	337.35	-2.57	337.36	0.29	0.00	1.79	MWD
2691.00	8.63	5.04	2663.44	347.23	-2.25	347.24	1.99	-1.29	9.71	MWD
2753.00	9.06	6.92	2724.70	356.71	-1.25	356.71	0.84	0.69	3.03	MWD
2816.00	9.63	0.79	2786.86	366.90	-0.58	366.90	1.82	0.90	-9.73	MWD
2879.00	10.06	0.17	2848.94	377.67	-0.49	377.67	0.70	0.68	-0.98	MWD
2942.00	10.06	359.29	2910.97	388.68	-0.54	388.68	0.24	0.00	-1.40	MWD
3005.00	9.31	356.79	2973.07	399.27	-0.90	399.27	1.36	-1.19	-3.97	MWD
3068.00	9.13	0.04	3035.26	409.35	-1.18	409.36	0.87	-0.29	5.16	MWD
3099.00	9.19	359.54	3065.86	414.29	-1.20	414.29	0.32	0.19	-1.61	MWD
3129.00	9.06	358.04	3095.48	419.05	-1.30	419.05	0.90	-0.43	-5.00	MWD
3192.00	8.94	357.54	3157.71	428.89	-1.68	428.90	0.23	-0.19	-0.79	MWD
3254.00	9.19	358.79	3218.93	438.66	-1.99	438.66	0.51	0.40	2.02	MWD
3318.00	9.13	359.92	3282.12	448.84	-2.10	448.85	0.30	-0.09	1.77	MWD
3381.00	8.88	1.79	3344.34	458.70	-1.96	458.71	0.61	-0.40	2.97	MWD
3444.00	8.25	3.92	3406.64	468.07	-1.50	468.07	1.12	-1.00	3.38	MWD
3476.00	8.63	4.54	3438.29	472.76	-1.15	472.76	1.22	1.19	1.94	LAST WFT SVY
3526.00	9.22	1.10	3487.68	480.50	-0.78	480.50	1.59	1.18	-6.88	PROJ TO BIT
3750.00	6.25	1.10	3709.62	510.64	-0.20	510.64	1.33	-1.33	0.00	LAST RIG SVY

Annotation

MD ft	TVD ft	
3476.00	3438.29	LAST WFT SVY
3526.00	3487.68	PROJ TO BIT
3750.00	3709.62	LAST RIG SVY