

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

☒ AMENDED REPORT
"As Drilled"

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34981	² Pool Code 97232 / 72319 / 71599	³ Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 17033	⁵ Property Name ROSA UNIT	⁶ Well Number 156D
⁷ GRID No. 120782	⁸ Operator Name WILLIAMS PRODUCTION COMPANY	⁹ Elevation 6447'

¹⁰ Surface Location

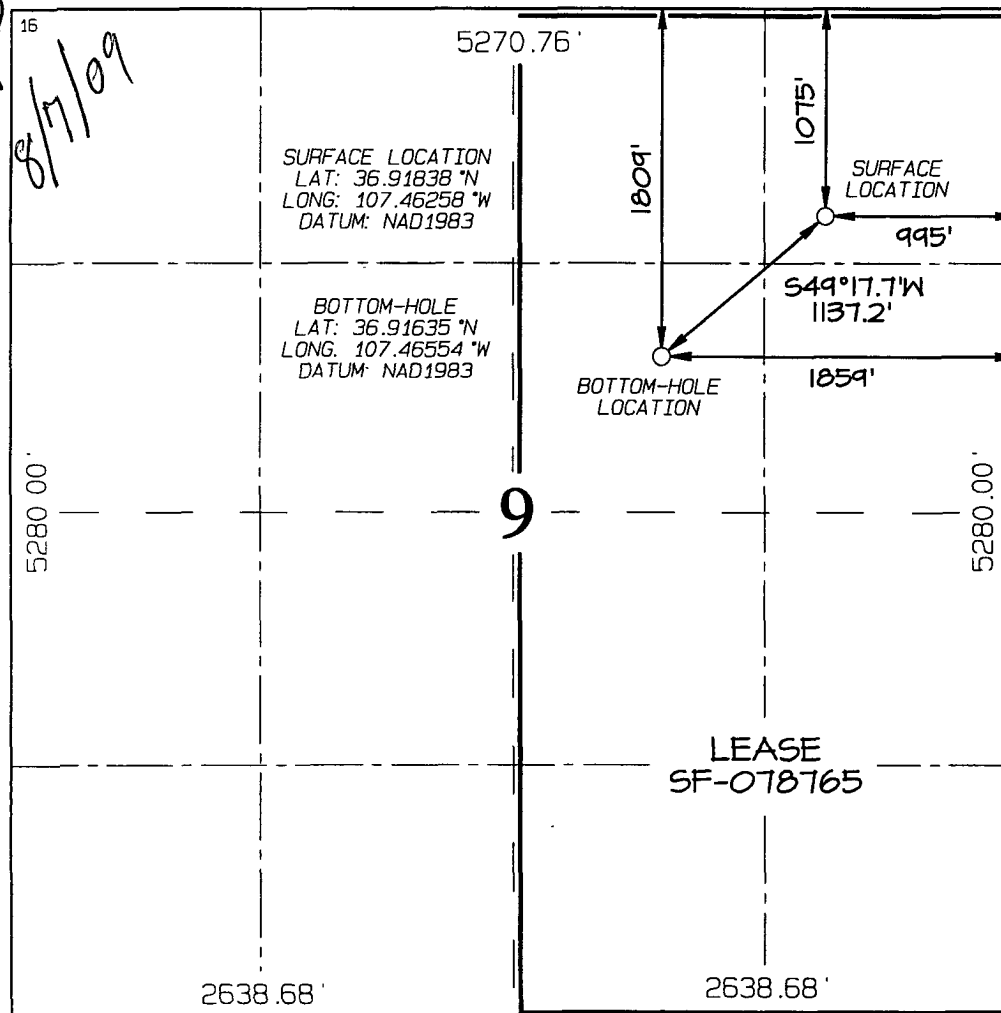
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	31N	6W		1075	NORTH	995	EAST	SAN JUAN

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
G	9	31N	6W		1809	NORTH	1859	EAST	SAN JUAN

¹² Dedicated Acres 320.0 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD AUG 6 '09 OIL CONS. DIV.
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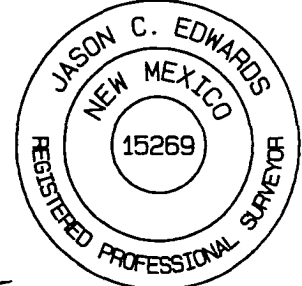
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION **DIST. 3**



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 **8-6-09**
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: FEBRUARY 12, 2009
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

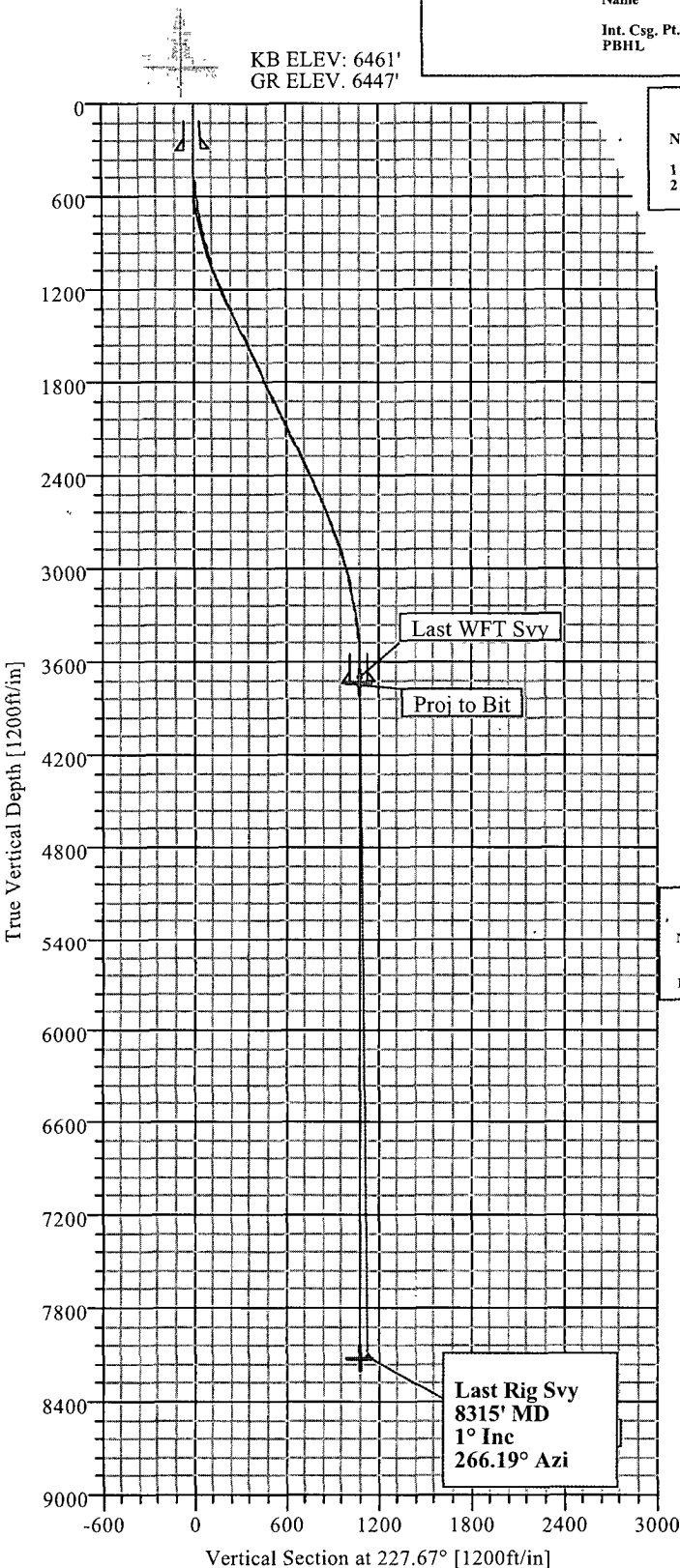


ROSA UNIT #156D
SAN JUAN CO., NEW MEXICO

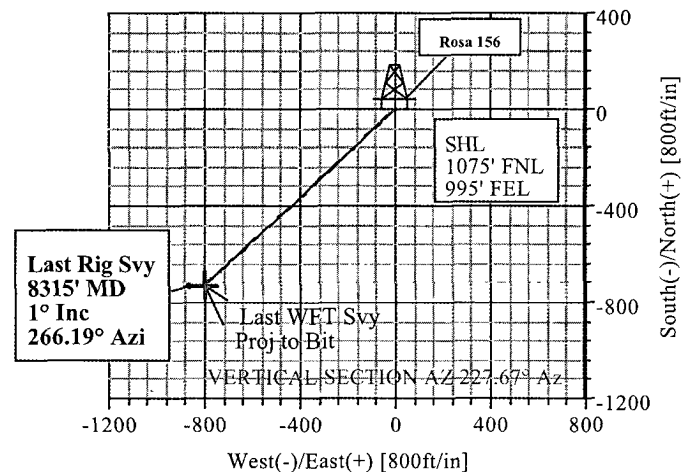
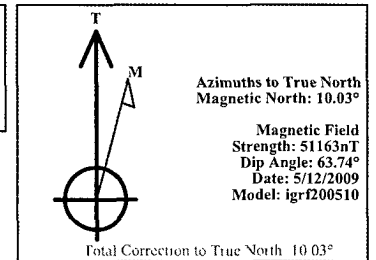
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	227.67	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	227.67	400.00	0.00	0.00	0.00	0.00	0.00	
3	1264.09	25.92	227.67	1234.91	-129.39	-142.07	3.00	227.67	192.16	
4	2652.51	25.92	227.67	2483.64	-538.09	-590.81	0.00	0.00	799.12	
5	3948.64	0.00	227.67	3736.00	-732.17	-803.91	2.00	180.00	1087.36	Int. Csg. Pt.
6	8333.64	0.00	227.67	8121.00	-732.17	-803.91	0.00	227.67	1087.36	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#156D	0.00	0.00	2153832.92	2831475.97	36°55'06.170N	107°27'45.290W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	
Int. Csg. Pt.	3736.00	-732.17	-803.91	36°54'58.930N	107°27'55.190W	Point	
PBHL	8121.00	-732.17	-803.91	36°54'58.930N	107°27'55.190W	Point	



CASING DETAILS				
No.	TVD	MD	Name	Size
1	300.00	300.02	10 3/4"	10.750
2	3736.00	3943.30	7 5/8" Int. Csg.	0.000



Last Rig Svy										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
116	8315.00	1.00	266.19	8107.27	-734.34	-864.18	0.01	0.00	1133.37	

FORMATION TOP DETAILS		
No.	TVDPath	MDPath Formation
1	2436.00	2594.92 Ojo Alamo Ss.
2	2566.00	2737.55 Kirtland Sh.
3	3051.00	3251.70 Frutland Frm.
4	3261.00	3465.81 Pictured Cliffs Ss.
5	3561.00	3768.25 Lewis Sh.
6	5136.00	5343.39 Cliff House Ss. Trans.
7	5451.00	5658.42 Cliff House Ss.
8	5496.00	5703.42 Menefee Fm.
9	5736.00	5943.44 Point Lookout Ss.
10	6056.00	6263.47 Mancos Sh.
11	7066.00	7273.59 Gallup Ss.
12	7786.00	7993.68 Greenhorn Ls.
13	7846.00	8053.69 Graneros Sh.
14	7981.00	8188.71 Dakota Ss.



RCVD AUG 6 2009
OIL CONS. DIV.

Weatherford

Survey: WFT SVY (#156D/1)

Created By: Lindsey Maddux

Date: 7/28/2009



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION Date: 7/28/2009 Time: 10:45:54 Page: 1
 Field: SAN JUAN CO. NM (NAD83) Co-ordinate(NE) Reference: Well: #156D, True North
 Site: Rosa Unit #156D Vertical (TVD) Reference: SITE 6461.0
 Well: #156D Section (VS) Reference: Well (0.00N,0.00E,227.67Azi)
 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 #156D

1075' FNL 995' FEL of SEC 9 T31N R6W

Site Position: Northing: 2153832.92 ft Latitude: 36 55 6.170 N
 From: Geographic Easting: 2831475.97 ft Longitude: 107 27 45.290 W
 Position Uncertainty: 0.00 ft North Reference: True
 Ground Level: 6447.00 ft Grid Convergence: 0.22 deg

Well: #156D

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2153832.92 ft Latitude: 36 55 6.170 N
 +E/-W 0.00 ft Easting: 2831475.97 ft Longitude: 107 27 45.290 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 6461.00 ft
 Magnetic Data: 5/12/2009
 Field Strength: 51163 nT
 Vertical Section: Depth From (TVD) +N/-S
 ft ft
 0.00 0.00 0.00 227.67

Survey: WFT SVY

Start Date: 7/28/2009

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
391.00	1.66	229.37	390.95	-3.69	-4.30	5.66	0.42	0.42	0.00	MWD
422.00	2.63	228.91	421.92	-4.45	-5.18	6.82	3.13	3.13	-1.48	MWD
452.00	3.56	229.41	451.88	-5.51	-6.40	8.44	3.10	3.10	1.67	MWD
482.00	4.38	228.91	481.81	-6.87	-7.97	10.52	2.74	2.73	-1.67	MWD
512.00	5.06	228.41	511.70	-8.50	-9.82	12.98	2.27	2.27	-1.67	MWD
543.00	5.81	227.28	542.57	-10.47	-12.00	15.92	2.44	2.42	-3.65	MWD
572.00	6.50	227.66	571.40	-12.57	-14.29	19.03	2.38	2.38	1.31	MWD
602.00	7.25	227.78	601.18	-14.99	-16.95	22.62	2.50	2.50	0.40	MWD
633.00	8.13	228.78	631.90	-17.74	-20.05	26.77	2.87	2.84	3.23	MWD
663.00	9.19	229.41	661.56	-20.70	-23.46	31.28	3.55	3.53	2.10	MWD
694.00	10.06	228.41	692.12	-24.11	-27.37	36.47	2.86	2.81	-3.23	MWD
725.00	10.69	227.78	722.62	-27.84	-31.52	42.05	2.06	2.03	-2.03	MWD
754.00	11.31	227.78	751.08	-31.56	-35.62	47.58	2.14	2.14	0.00	MWD
785.00	11.97	227.99	781.45	-35.75	-40.26	53.84	2.13	2.13	0.68	MWD
815.00	12.50	225.53	810.77	-40.11	-44.89	60.19	2.48	1.77	-8.20	MWD
846.00	13.19	228.41	840.99	-44.81	-49.93	67.08	3.04	2.23	9.29	MWD
877.00	13.69	228.28	871.14	-49.59	-55.31	74.29	1.62	1.61	-0.42	MWD
907.00	14.44	228.91	900.24	-54.42	-60.78	81.58	2.55	2.50	2.10	MWD
937.00	15.19	229.28	929.24	-59.44	-66.58	89.24	2.52	2.50	1.23	MWD
967.00	16.25	228.16	958.12	-64.80	-72.68	97.37	3.68	3.53	-3.73	MWD
997.00	16.63	227.53	986.89	-70.50	-78.98	105.86	1.40	1.27	-2.10	MWD
1027.00	17.50	225.66	1015.57	-76.55	-85.37	114.66	3.43	2.90	-6.23	MWD
1059.00	18.63	225.66	1046.00	-83.49	-92.47	124.58	3.53	3.53	0.00	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company:	WILLIAMS PRODUCTION	Date:	7/28/2009	Time:	10:45:54	Page:	2
Field:	SAN JUAN CO. NM (NAD83)	Co-ordinate(NE) Reference:	Well: #156D, True North				
Site:	Rosa Unit #156D	Vertical (TVD) Reference:	SITE 6461.0				
Well:	#156D	Section (VS) Reference:	Well: (0.00N,0.00E,227.67Azi)				
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
1089.00	19.63	226.53	1074.34	-90.30	-99.55	134.41	3.47	3.33	2.90	MWD
1119.00	20.50	226.53	1102.52	-97.38	-107.02	144.70	2.90	2.90	0.00	MWD
1150.00	21.38	226.16	1131.47	-105.03	-115.04	155.77	2.87	2.84	-1.19	MWD
1180.00	22.13	226.03	1159.33	-112.74	-123.05	166.89	2.51	2.50	-0.43	MWD
1211.00	23.02	225.82	1187.96	-121.02	-131.60	178.78	2.88	2.87	-0.68	MWD
1242.00	23.94	226.66	1216.39	-129.56	-140.52	191.13	3.16	2.97	2.71	MWD
1274.00	24.50	226.78	1245.57	-138.56	-150.07	204.25	1.76	1.75	0.37	MWD
1305.00	24.69	226.53	1273.76	-147.42	-159.46	217.15	0.70	0.61	-0.81	MWD
1337.00	25.00	226.91	1302.80	-156.64	-169.25	230.60	1.09	0.97	1.19	MWD
1368.00	25.31	227.66	1330.86	-165.57	-178.93	243.77	1.43	1.00	2.42	MWD
1399.00	25.75	227.41	1358.83	-174.59	-188.78	257.14	1.46	1.42	-0.81	MWD
1431.00	26.19	227.53	1387.60	-184.07	-199.11	271.15	1.38	1.37	0.37	MWD
1462.00	25.31	226.91	1415.52	-193.21	-209.00	284.61	2.97	-2.84	-2.00	MWD
1494.00	25.38	227.03	1444.44	-202.56	-219.01	298.31	0.27	0.22	0.37	MWD
1525.00	25.06	226.91	1472.49	-211.57	-228.66	311.52	1.05	-1.03	-0.39	MWD
1557.00	25.60	227.74	1501.41	-220.85	-238.73	325.21	2.02	1.69	2.59	MWD
1587.00	25.00	228.78	1528.53	-229.39	-248.30	338.03	2.49	-2.00	3.47	MWD
1618.00	25.31	229.03	1556.59	-238.05	-258.23	351.20	1.06	1.00	0.81	MWD
1649.00	25.69	228.91	1584.57	-246.81	-268.29	364.55	1.24	1.23	-0.39	MWD
1680.00	25.50	226.91	1612.53	-255.79	-278.23	377.94	2.85	-0.61	-6.45	MWD
1711.00	25.56	227.16	1640.50	-264.89	-288.01	391.30	0.40	0.19	0.81	MWD
1742.00	25.88	227.28	1668.43	-274.03	-297.88	404.75	1.05	1.03	0.39	MWD
1774.00	26.06	226.28	1697.20	-283.62	-308.09	418.76	1.48	0.56	-3.12	MWD
1805.00	25.38	226.53	1725.13	-292.90	-317.84	432.21	2.22	-2.19	0.81	MWD
1865.00	25.31	227.03	1779.36	-310.49	-336.55	457.89	0.38	-0.12	0.83	MWD
1896.00	25.44	227.66	1807.37	-319.49	-346.32	471.17	0.97	0.42	2.03	MWD
1928.00	25.06	228.53	1836.31	-328.61	-356.48	484.82	1.66	-1.19	2.72	MWD
1959.00	25.06	229.41	1864.39	-337.23	-366.39	497.95	1.20	0.00	2.84	MWD
1990.00	25.20	228.92	1892.46	-345.84	-376.35	511.11	0.81	0.45	-1.58	MWD
2021.00	25.50	228.91	1920.47	-354.56	-386.35	524.38	0.97	0.97	-0.03	MWD
2053.00	25.44	228.53	1949.36	-363.64	-396.69	538.14	0.54	-0.19	-1.19	MWD
2084.00	25.50	229.03	1977.35	-372.42	-406.72	551.47	0.72	0.19	1.61	MWD
2114.00	25.63	229.41	2004.41	-380.88	-416.52	564.41	0.70	0.43	1.27	MWD
2145.00	25.94	229.28	2032.32	-389.66	-426.75	577.89	1.02	1.00	-0.42	MWD
2177.00	26.31	228.66	2061.05	-398.91	-437.38	591.97	1.44	1.16	-1.94	MWD
2208.00	26.75	228.91	2088.79	-408.04	-447.80	605.82	1.46	1.42	0.81	MWD
2239.00	27.25	228.28	2116.41	-417.34	-458.35	619.89	1.86	1.61	-2.03	MWD
2270.00	26.50	227.66	2144.06	-426.73	-468.76	633.90	2.58	-2.42	-2.00	MWD
2301.00	26.63	227.53	2171.79	-436.08	-479.00	647.77	0.46	0.42	-0.42	MWD
2332.00	25.94	227.53	2199.58	-445.34	-489.13	661.49	2.23	-2.23	0.00	MWD
2364.00	26.39	226.83	2228.31	-454.94	-499.47	675.60	1.71	1.41	-2.19	MWD
2395.00	25.88	226.53	2256.14	-464.30	-509.41	689.26	1.70	-1.65	-0.97	MWD
2426.00	26.13	226.28	2284.00	-473.68	-519.25	702.85	0.88	0.81	-0.81	MWD
2456.00	26.56	226.28	2310.88	-482.88	-528.87	716.16	1.43	1.43	0.00	MWD
2485.00	26.29	228.77	2336.85	-491.59	-538.39	729.06	3.93	-0.93	8.59	MWD
2546.00	25.69	229.41	2391.68	-509.10	-558.59	755.78	1.09	-0.98	1.05	MWD
2577.00	24.80	228.79	2419.72	-517.75	-568.59	769.00	2.99	-2.87	-2.00	MWD
2607.00	24.44	228.78	2446.99	-525.99	-577.99	781.49	1.20	-1.20	-0.03	MWD
2638.00	24.50	228.66	2475.21	-534.46	-587.64	794.33	0.25	0.19	-0.39	MWD
2669.00	24.75	228.53	2503.39	-543.00	-597.32	807.25	0.83	0.81	-0.42	MWD
2699.00	24.17	227.47	2530.70	-551.31	-606.56	819.67	2.42	-1.93	-3.53	MWD
2730.00	23.38	226.91	2559.07	-559.80	-615.73	832.16	2.65	-2.55	-1.81	MWD
2759.00	23.06	226.41	2585.72	-567.65	-624.04	843.60	1.30	-1.10	-1.72	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company:	WILLIAMS PRODUCTION	Date:	7/28/2009	Time:	10:45:54	Page:	3
Field:	SAN JUAN CO. NM (NAD83)	Co-ordinate(NE) Reference:	Well: #156D, True North				
Site:	Rosa Unit #156D	Vertical (TVD) Reference:	SITE 6461.0				
Well:	#156D	Section (VS) Reference:	Well (0.00N, 0.00E, 227.67Azi)				
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
2790.00	22.81	225.03	2614.27	-576.08	-632.69	855.67	1.91	-0.81	-4.45	MWD
2821.00	22.31	225.28	2642.90	-584.47	-641.12	867.55	1.64	-1.61	0.81	MWD
2852.00	21.38	225.91	2671.67	-592.54	-649.36	879.08	3.09	-3.00	2.03	MWD
2882.00	21.06	227.28	2699.64	-600.01	-657.25	889.93	1.97	-1.07	4.57	MWD
2913.00	20.75	227.78	2728.60	-607.47	-665.41	900.99	1.15	-1.00	1.61	MWD
2945.00	20.63	227.78	2758.53	-615.07	-673.78	912.30	0.37	-0.37	0.00	MWD
2974.00	20.06	227.41	2785.72	-621.87	-681.23	922.38	2.01	-1.97	-1.28	MWD
3005.00	19.44	227.28	2814.90	-628.97	-688.93	932.86	2.01	-2.00	-0.42	MWD
3036.00	18.75	227.53	2844.19	-635.83	-696.40	943.00	2.24	-2.23	0.81	MWD
3067.00	18.44	227.16	2873.57	-642.53	-703.67	952.88	1.07	-1.00	-1.19	MWD
3096.00	17.88	227.78	2901.13	-648.64	-710.33	961.92	2.04	-1.93	2.14	MWD
3125.00	17.38	228.53	2928.77	-654.50	-716.87	970.71	1.89	-1.72	2.59	MWD
3156.00	16.00	229.53	2958.46	-660.34	-723.59	979.61	4.55	-4.45	3.23	MWD
3187.00	15.00	229.66	2988.33	-665.71	-729.90	987.89	3.23	-3.23	0.42	MWD
3218.00	14.44	228.53	3018.32	-670.87	-735.85	995.76	2.03	-1.81	-3.65	MWD
3250.00	13.75	226.78	3049.35	-676.11	-741.61	1003.55	2.53	-2.16	-5.47	MWD
3281.00	12.49	227.19	3079.54	-680.91	-746.75	1010.59	4.08	-4.06	1.32	MWD
3312.00	11.69	229.03	3109.85	-685.25	-751.59	1017.08	2.86	-2.58	5.94	MWD
3344.00	11.38	231.28	3141.21	-689.35	-756.50	1023.47	1.71	-0.97	7.03	MWD
3374.00	10.69	230.03	3170.65	-692.99	-760.94	1029.20	2.43	-2.30	-4.17	MWD
3403.00	10.56	227.91	3199.16	-696.50	-764.97	1034.55	1.42	-0.45	-7.31	MWD
3434.00	10.06	226.91	3229.66	-700.25	-769.06	1040.10	1.71	-1.61	-3.23	MWD
3465.00	9.63	227.03	3260.20	-703.87	-772.93	1045.40	1.39	-1.39	0.39	MWD
3496.00	9.38	227.91	3290.77	-707.33	-776.70	1050.52	0.93	-0.81	2.84	MWD
3527.00	8.94	228.16	3321.38	-710.63	-780.37	1055.45	1.43	-1.42	0.81	MWD
3558.00	8.38	229.03	3352.02	-713.72	-783.87	1060.12	1.86	-1.81	2.81	MWD
3587.00	8.00	228.91	3380.73	-716.43	-786.99	1064.25	1.31	-1.31	-0.41	MWD
3617.00	7.25	227.66	3410.46	-719.08	-789.96	1068.23	2.56	-2.50	-4.17	MWD
3648.00	6.56	226.28	3441.24	-721.62	-792.69	1071.96	2.29	-2.23	-4.45	MWD
3679.00	5.81	224.28	3472.06	-723.97	-795.06	1075.29	2.52	-2.42	-6.45	MWD
3708.00	5.23	224.04	3500.92	-725.97	-797.01	1078.08	2.00	-2.00	-0.83	MWD
3739.00	4.38	225.91	3531.81	-727.81	-798.84	1080.67	2.79	-2.74	6.03	MWD
3770.00	3.00	231.16	3562.75	-729.14	-800.32	1082.66	4.58	-4.45	16.94	MWD
3800.00	1.81	238.53	3592.72	-729.88	-801.34	1083.91	4.09	-3.97	24.57	MWD
3831.00	1.00	255.66	3623.71	-730.20	-802.02	1084.63	2.92	-2.61	55.26	MWD
3863.00	0.63	273.78	3655.71	-730.26	-802.46	1085.00	1.40	-1.16	56.62	MWD
3906.00	0.60	266.19	3698.71	-730.26	-802.92	1085.34	0.20	-0.07	-17.65	Last WFT Svy
3955.00	0.60	266.19	3747.70	-730.29	-803.43	1085.74	0.00	0.00	0.00	Proj to Bit
8315.00	1.00	266.19	8107.27	-734.34	-864.18	1133.37	0.01	0.01	0.00	Last Rig Svy

Annotation

MD ft	TVD ft	
3906.00	3698.71	Last WFT Svy
3955.00	3747.70	Proj to Bit
8315.00	8107.27	Last Rig Svy