

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 30-039-30690	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 165D
⁷ OGRID No. 120782	⁸ Operator Name WILLIAMS PRODUCTION COMPANY	⁹ Elevation 6403'

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
C	25	31N	6W		1280	NORTH	1635	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

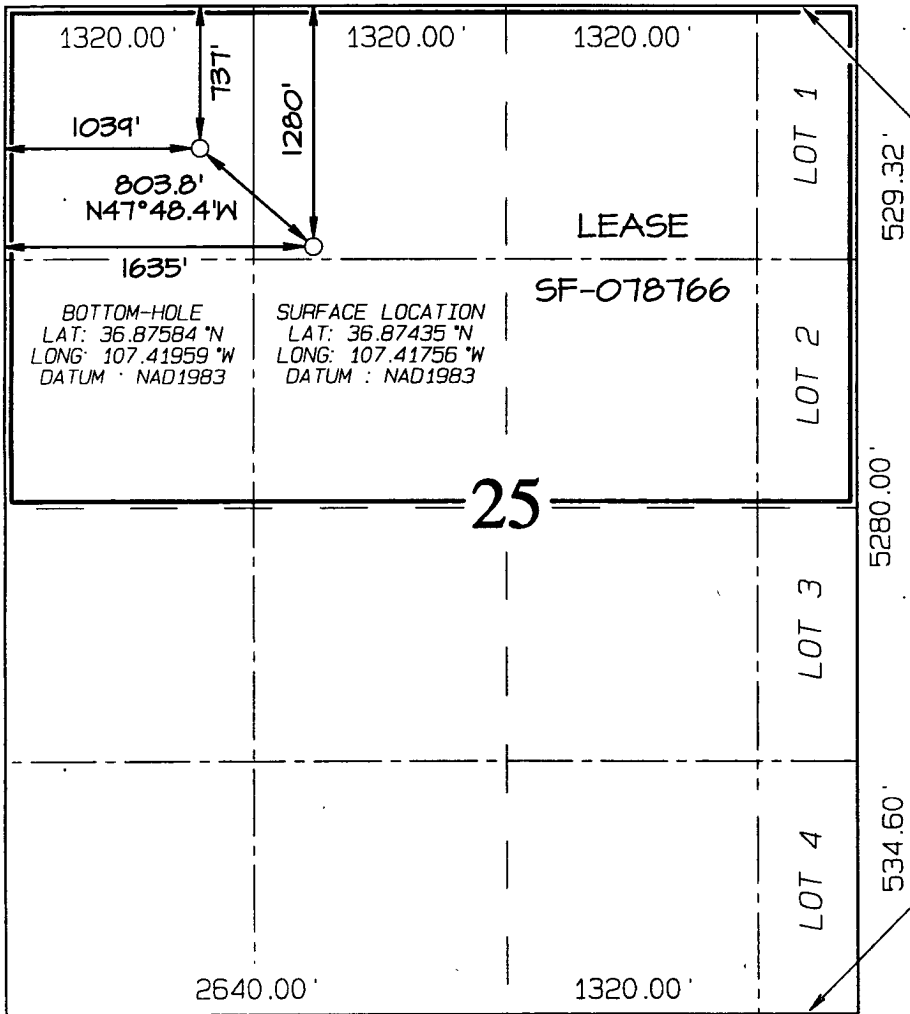
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	31N	6W		737	NORTH	1039	WEST	RIO ARRIBA

¹² Dedicated Acres 272.16 Acres - N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No RCVD OCT 16 '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

10/16/09



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 10-14-09
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.

Date Revised: OCTOBER 13, 2009
Date of Survey: MAY 17, 2009

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269



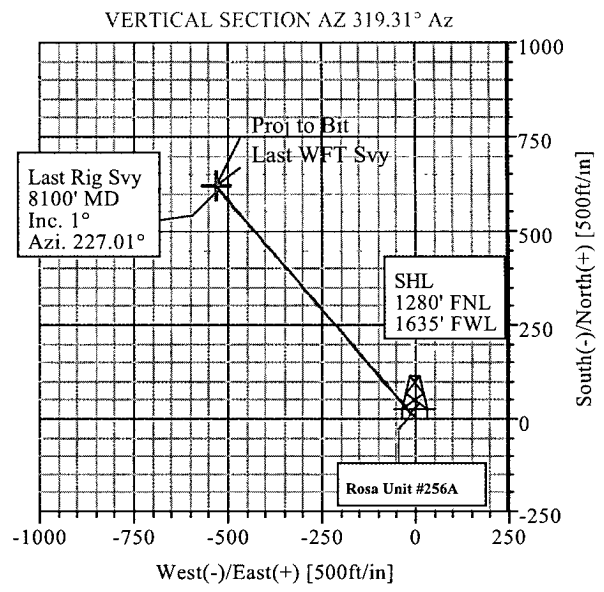
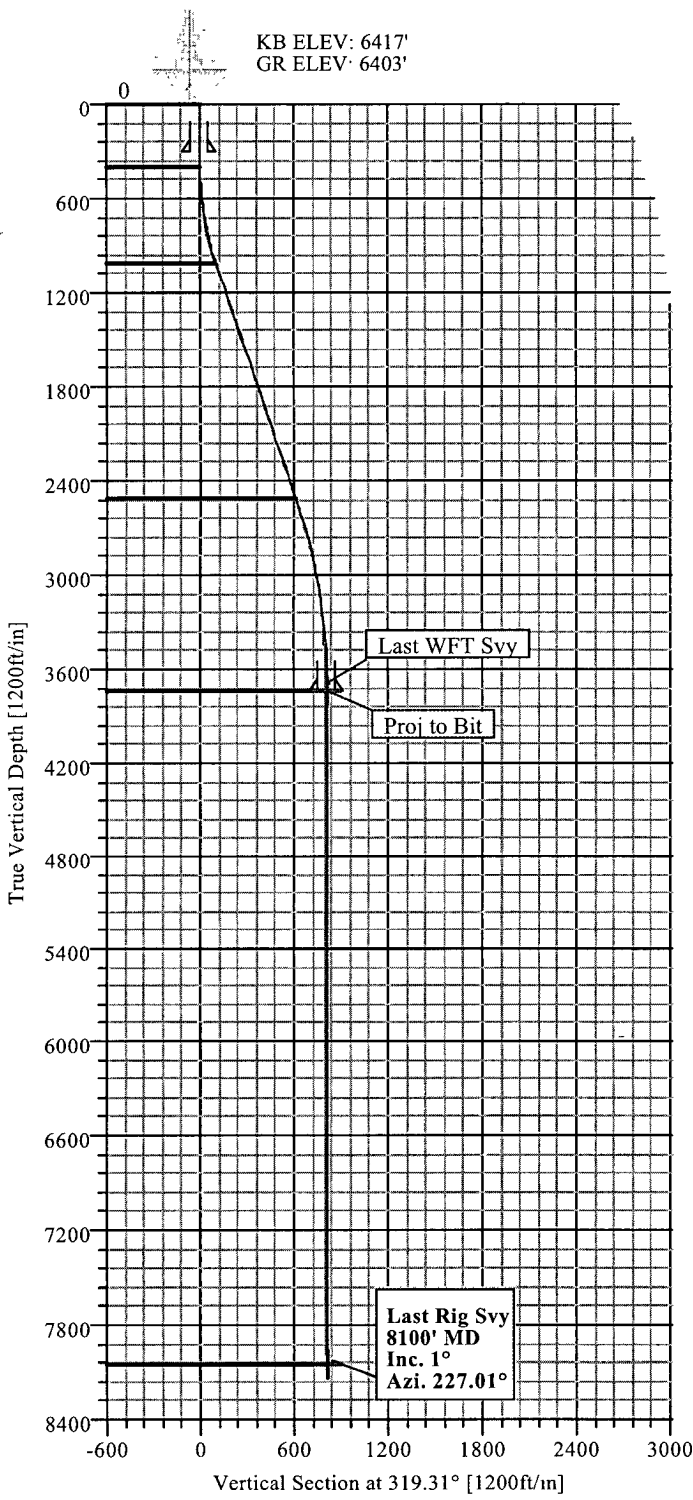
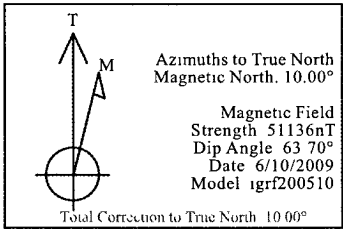
ROSA UNIT #165D
 RIO ARRIBA CO., NEW MEXICO
 API #: 30-039-30690

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	319.31	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	319.31	400.00	0.00	0.00	0.00	0.00	0.00	
3	1028.41	18.85	319.31	1017.14	77.69	-66.80	3.00	319.31	102.46	
4	2603.50	18.85	319.31	2507.73	463.61	-398.62	0.00	0.00	611.42	
5	3860.33	0.00	319.31	3742.00	618.98	-532.22	1.50	180.00	816.33	Int. Csg. Pt.
6	8170.33	0.00	319.31	8052.00	618.98	-532.22	0.00	319.31	816.33	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#165D	0.00	0.00	2139644.84	1298920.77	36°52'27.660N	107°25'03.220W	N/A

TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Int. Csg. Pt.	3742.00	618.98	-532.22	2140270.28	1298396.16	36°52'33.780N	107°25'09.770W	Point
PBHL	8052.00	618.98	-532.22	2140270.28	1298396.16	36°52'33.780N	107°25'09.770W	Point

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	2497.00	2592.17	Ojo Alamo Ss.
2	2612.00	2713.16	Kirtland Sh.
3	2992.00	3105.43	Fruitland Fm.
4	3267.00	3384.10	Pictured Cliffs Ss.
5	3552.00	3670.25	Lewis Sh.
6	5107.00	5225.33	Cliff House Ss. Trans.
7	5422.00	5540.33	Cliff House Ss.
8	5467.00	5585.33	Menefee Fm.
9	5692.00	5810.33	Point Lookout Ss.
10	6047.00	6165.33	Mancos Sh.
11	7007.00	7125.33	Gallup Ss.
12	7717.00	7835.33	Greenhorn Ls.
13	7772.00	7890.33	Graneros Ss.
14	7897.00	8015.33	Dakota Ss.



RCVD OCT 16 '09
 OIL CONS. DIV.
 DIST. 3



CASING DETAILS				
No.	TVD	MD	Name	Size
1	300.00	300.00	10 3/4"	10.750
2	3742.00	3860.33	7 5/8" Int. Csg.	0.000

Plan: Plan #1 (#165D/1)
 Created By: Lindsey Maddux Date: 10/5/2009



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 10/5/2009	Time: 10:34:42	Page: 1
Field: RIO ARRIBA CO. NM (NAD 83)	Co-ordinate(NE) Reference: Well: #165D, True North		
Site: Rosa Unit #165D	Vertical (TVD) Reference: SITE 6417.0		
Well: #165D	Section (VS) Reference: Well (0.00N,0.00E,319.31Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: RIO ARRIBA CO. NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Central Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf200510

Site: Rosa Unit #165D		
1280' FNL 1635' FWL of SEC 25 T31N R6W		
Site Position:	Northing: 2139644.84 ft	Latitude: 36 52 27.660 N
From: Geographic	Easting: 1298920.77 ft	Longitude: 107 25 3.220 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6403.00 ft		Grid Convergence: -0.70 deg

Well: #165D	Slot Name:
Well Position:	
+N/-S 0.00 ft	Northing: 2139644.84 ft
+E/-W 0.00 ft	Easting: 1298920.77 ft
Position Uncertainty: 0.00 ft	
	Latitude: 36 52 27.660 N
	Longitude: 107 25 3.220 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 6/10/2009	Above System Datum: Mean Sea Level
Field Strength: 51136 nT	Declination: 10.00 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.70 deg
ft	+N/-S
	ft
0.00	0.00
	+E/-W
	ft
	0.00
	Direction
	deg
	319.31

Survey: WFT SVY	Start Date: 9/17/2009
Company: Weatherford International, Inc	Engineer: Lindsey Maddux
Tool: MWD, MWD - Standard	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
357.00	0.83	287.55	356.99	0.78	-2.47	2.20	0.23	0.23	0.00	MWD
388.00	0.94	302.67	387.98	0.98	-2.89	2.63	0.83	0.35	48.77	MWD
419.00	1.55	307.29	418.98	1.38	-3.44	3.29	1.99	1.97	14.90	MWD
449.00	2.71	324.51	448.96	2.20	-4.18	4.39	4.37	3.87	57.40	MWD
480.00	3.31	329.25	479.91	3.57	-5.06	6.00	2.09	1.94	15.29	MWD
511.00	4.19	326.88	510.85	5.28	-6.14	8.01	2.88	2.84	-7.65	MWD
540.00	5.50	329.63	539.74	7.37	-7.42	10.42	4.59	4.52	9.48	MWD
571.00	6.44	329.63	570.57	10.15	-9.05	13.60	3.03	3.03	0.00	MWD
602.00	7.06	328.38	601.36	13.27	-10.92	17.19	2.06	2.00	-4.03	MWD
633.00	7.94	327.75	632.09	16.71	-13.07	21.19	2.85	2.84	-2.03	MWD
664.00	8.44	325.00	662.78	20.38	-15.51	25.57	2.05	1.61	-8.87	MWD
694.00	9.19	322.00	692.42	24.07	-18.25	30.15	2.93	2.50	-10.00	MWD
724.00	9.63	319.50	722.02	27.87	-21.36	35.05	2.00	1.47	-8.33	MWD
755.00	10.17	319.59	752.56	31.92	-24.81	40.38	1.74	1.74	0.29	MWD
786.00	10.31	318.36	783.06	36.08	-28.43	45.89	0.84	0.45	-3.97	MWD
817.00	11.00	319.11	813.53	40.39	-32.21	51.63	2.27	2.23	2.42	MWD
848.00	11.94	320.11	843.91	45.09	-36.20	57.79	3.10	3.03	3.23	MWD
879.00	13.44	320.61	874.15	50.33	-40.55	64.60	4.85	4.84	1.61	MWD
909.00	14.63	320.61	903.25	55.95	-45.16	71.87	3.97	3.97	0.00	MWD
939.00	15.56	320.73	932.22	62.00	-50.11	79.68	3.10	3.10	0.40	MWD
970.00	16.63	319.86	962.00	68.61	-55.61	88.27	3.54	3.45	-2.81	MWD
1000.00	17.25	318.86	990.70	75.24	-61.30	97.02	2.28	2.07	-3.33	MWD
1031.00	18.19	318.73	1020.23	82.34	-67.52	106.45	3.03	3.03	-0.42	MWD



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 10/5/2009	Time: 10:34:42	Page: 2
Field: RIO ARRIBA CO. NM (NAD 83)	Co-ordinate(NE) Reference: Well: #165D True North		
Site: Rosa Unit #165D	Vertical (TVD) Reference: SITE 6417.0		
Well: #165D	Section (VS) Reference: Well (0.00N,0.00E,319.31Azi)		
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
1061.00	19.13	318.61	1048.65	89.54	-73.85	116.05	3.14	3.13	-0.40	MWD
1092.00	19.15	318.83	1077.94	97.18	-80.56	126.21	0.24	0.06	0.71	MWD
1123.00	19.63	318.11	1107.18	104.89	-87.38	136.50	1.73	1.55	-2.32	MWD
1154.00	19.81	317.86	1136.36	112.66	-94.39	146.96	0.64	0.58	-0.81	MWD
1184.00	19.50	317.23	1164.62	120.10	-101.20	157.05	1.25	-1.03	-2.10	MWD
1216.00	19.75	316.86	1194.76	127.97	-108.52	167.78	0.87	0.78	-1.16	MWD
1247.00	19.00	317.11	1224.00	135.49	-115.54	178.06	2.43	-2.42	0.81	MWD
1279.00	18.55	318.81	1254.30	143.14	-122.43	188.36	2.21	-1.41	5.31	MWD
1310.00	18.38	321.61	1283.70	150.68	-128.72	198.17	2.91	-0.55	9.03	MWD
1342.00	18.52	322.90	1314.06	158.69	-134.92	208.28	1.35	0.44	4.03	MWD
1373.00	18.56	321.61	1343.45	166.48	-140.95	218.13	1.33	0.13	-4.16	MWD
1405.00	18.56	320.61	1373.79	174.41	-147.34	228.31	0.99	0.00	-3.12	MWD
1437.00	18.69	320.11	1404.11	182.28	-153.86	238.52	0.64	0.41	-1.56	MWD
1469.00	19.00	319.23	1434.39	190.16	-160.55	248.86	1.31	0.97	-2.75	MWD
1501.00	18.94	317.73	1464.66	197.94	-167.45	259.26	1.54	-0.19	-4.69	MWD
1532.00	19.69	316.73	1493.91	205.47	-174.41	269.51	2.64	2.42	-3.23	MWD
1563.00	18.88	316.73	1523.17	212.92	-181.43	279.74	2.61	-2.61	0.00	MWD
1595.00	18.00	316.98	1553.53	220.31	-188.35	289.85	2.76	-2.75	0.78	MWD
1627.00	18.15	317.36	1583.95	227.59	-195.10	299.77	0.60	0.47	1.19	MWD
1659.00	18.31	318.11	1614.34	235.00	-201.83	309.78	0.89	0.50	2.34	MWD
1691.00	18.81	317.98	1644.68	242.57	-208.64	319.96	1.57	1.56	-0.41	MWD
1723.00	19.19	317.93	1674.94	250.31	-215.62	330.37	1.19	1.19	-0.16	MWD
1755.00	18.25	317.86	1705.24	257.93	-222.51	340.64	2.94	-2.94	-0.22	MWD
1787.00	18.06	317.73	1735.65	265.32	-229.20	350.61	0.61	-0.59	-0.41	MWD
1818.00	18.35	317.97	1765.10	272.50	-235.70	360.29	0.97	0.94	0.77	MWD
1850.00	18.44	318.11	1795.46	280.00	-242.46	370.39	0.31	0.28	0.44	MWD
1882.00	18.75	317.98	1825.79	287.59	-249.28	380.59	0.98	0.97	-0.41	MWD
1914.00	19.13	317.86	1856.06	295.30	-256.24	390.97	1.19	1.19	-0.37	MWD
1946.00	18.57	318.22	1886.34	302.99	-263.15	401.31	1.79	-1.75	1.12	MWD
1978.00	17.56	318.36	1916.76	310.40	-269.75	411.23	3.16	-3.16	0.44	MWD
2010.00	17.56	319.23	1947.27	317.66	-276.11	420.88	0.82	0.00	2.72	MWD
2042.00	17.44	319.98	1977.79	324.99	-282.35	430.50	0.80	-0.37	2.34	MWD
2073.00	17.81	320.23	2007.34	332.19	-288.37	439.89	1.22	1.19	0.81	MWD
2105.00	18.13	320.36	2037.78	339.79	-294.68	449.76	1.01	1.00	0.41	MWD
2137.00	18.69	320.86	2068.14	347.60	-301.09	459.86	1.82	1.75	1.56	MWD
2169.00	18.88	321.23	2098.43	355.61	-307.57	470.16	0.70	0.59	1.16	MWD
2200.00	18.21	321.70	2127.82	363.32	-313.71	480.02	2.21	-2.16	1.52	MWD
2231.00	18.69	320.73	2157.23	370.97	-319.86	489.82	1.84	1.55	-3.13	MWD
2263.00	18.94	320.04	2187.52	378.92	-326.44	500.14	1.05	0.78	-2.16	MWD
2294.00	19.00	319.73	2216.84	386.62	-332.93	510.22	0.38	0.19	-1.00	MWD
2326.00	19.50	319.48	2247.05	394.66	-339.77	520.77	1.58	1.56	-0.78	MWD
2357.00	19.13	319.48	2276.30	402.45	-346.43	531.02	1.19	-1.19	0.00	MWD
2389.00	18.75	319.61	2306.57	410.36	-353.17	541.41	1.19	-1.19	0.41	MWD
2421.00	18.88	319.98	2336.86	418.24	-359.83	551.73	0.55	0.41	1.16	MWD
2453.00	19.19	320.73	2367.11	426.28	-366.49	562.16	1.23	0.97	2.34	MWD
2485.00	18.81	319.86	2397.37	434.29	-373.14	572.58	1.48	-1.19	-2.72	MWD
2516.00	18.84	320.73	2426.71	441.99	-379.53	582.58	0.91	0.10	2.81	MWD
2548.00	18.50	319.36	2457.03	449.84	-386.11	592.82	1.73	-1.06	-4.28	MWD
2580.00	18.56	318.98	2487.37	457.53	-392.76	602.99	0.42	0.19	-1.19	MWD
2612.00	18.13	318.73	2517.74	465.12	-399.39	613.06	1.37	-1.34	-0.78	MWD
2644.00	17.31	318.61	2548.22	472.43	-405.82	622.80	2.57	-2.56	-0.37	MWD
2676.00	17.31	318.46	2578.77	479.57	-412.12	632.32	0.14	0.00	-0.47	MWD
2707.00	16.75	318.23	2608.41	486.35	-418.16	641.40	1.82	-1.81	-0.74	MWD



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 10/5/2009	Time: 10:34:42	Page: 3
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Well: #165D	Section (VS) Reference: Well: (0:00N;0:00E;319.31Azi)		
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
2738.00	16.31	317.73	2638.13	492.90	-424.06	650.22	1.49	-1.42	-1.61	MWD
2769.00	16.31	317.23	2667.88	499.32	-429.94	658.92	0.45	0.00	-1.61	MWD
2801.00	16.38	317.48	2698.59	505.94	-436.05	667.92	0.31	0.22	0.78	MWD
2832.00	16.56	317.86	2728.32	512.44	-441.96	676.70	0.68	0.58	1.23	MWD
2863.00	16.36	318.31	2758.05	518.98	-447.83	685.49	0.77	-0.65	1.45	MWD
2895.00	15.44	317.98	2788.82	525.51	-453.68	694.25	2.89	-2.87	-1.03	MWD
2926.00	14.38	318.86	2818.78	531.47	-458.98	702.22	3.50	-3.42	2.84	MWD
2958.00	14.04	320.53	2849.80	537.46	-464.06	710.08	1.66	-1.06	5.22	MWD
2990.00	13.56	321.23	2880.88	543.38	-468.87	717.71	1.59	-1.50	2.19	MWD
3021.00	13.13	318.48	2911.04	548.85	-473.48	724.86	2.47	-1.39	-8.87	MWD
3052.00	12.88	316.23	2941.25	553.98	-478.21	731.83	1.82	-0.81	-7.26	MWD
3083.00	12.08	315.11	2971.51	558.78	-482.89	738.52	2.70	-2.58	-3.61	MWD
3113.00	11.06	316.48	3000.90	563.09	-487.08	744.52	3.52	-3.40	4.57	MWD
3145.00	11.06	319.23	3032.31	567.64	-491.20	750.66	1.65	0.00	8.59	MWD
3176.00	10.75	322.23	3062.75	572.18	-494.91	756.52	2.09	-1.00	9.68	MWD
3207.00	9.81	323.73	3093.25	576.59	-498.25	762.04	3.15	-3.03	4.84	MWD
3238.00	8.36	323.29	3123.86	580.53	-501.16	766.92	4.68	-4.68	-1.42	MWD
3270.00	7.38	324.11	3155.56	584.06	-503.75	771.29	3.08	-3.06	2.56	MWD
3301.00	6.94	320.86	3186.32	587.12	-506.10	775.15	1.93	-1.42	-10.48	MWD
3333.00	5.44	323.23	3218.13	589.84	-508.23	778.59	4.75	-4.69	7.41	MWD
3365.00	3.99	329.87	3250.02	592.02	-509.70	781.20	4.83	-4.53	20.75	MWD
3397.00	3.00	336.00	3281.96	593.74	-510.60	783.10	3.30	-3.09	19.16	MWD
3428.00	4.00	339.36	3312.90	595.50	-511.31	784.89	3.29	3.23	10.84	MWD
3458.00	3.81	339.36	3342.83	597.41	-512.03	786.81	0.63	-0.63	0.00	MWD
3490.00	4.06	335.86	3374.76	599.44	-512.87	788.89	1.08	0.78	-10.94	MWD
3520.00	4.31	325.34	3404.68	601.33	-513.94	791.03	2.69	0.83	-35.07	MWD
3552.00	4.19	320.73	3436.59	603.23	-515.37	793.40	1.13	-0.37	-14.41	MWD
3583.00	4.31	313.36	3467.51	604.90	-516.93	795.69	1.80	0.39	-23.77	MWD
3615.00	4.13	304.98	3499.42	606.39	-518.75	798.00	2.01	-0.56	-26.19	MWD
3646.00	4.03	304.58	3530.34	607.65	-520.56	800.14	0.34	-0.32	-1.29	MWD
3678.00	3.44	296.86	3562.27	608.72	-522.34	802.11	2.42	-1.84	-24.12	MWD
3710.00	2.19	278.48	3594.23	609.24	-523.80	803.46	4.77	-3.91	-57.44	MWD
3741.00	1.31	263.48	3625.22	609.29	-524.74	804.11	3.18	-2.84	-48.39	MWD
3772.00	1.56	243.86	3656.21	609.07	-525.47	804.41	1.77	0.81	-63.29	MWD
3810.00	1.54	227.01	3694.20	608.49	-526.31	804.52	1.20	-0.05	-44.34	Last WFT Svy
3860.00	1.54	227.01	3744.18	607.57	-527.29	804.47	0.00	0.00	0.00	Proj to Bit
8100.00	1.00	227.01	7983.12	543.49	-596.03	800.70	0.01	-0.01	0.00	Last Rig Svy

Annotation

MD ft	TVD ft	
3810.00	3694.20	Last WFT Svy
3860.00	3744.18	Proj to Bit
8100.00	7983.12	Last Rig Svy