

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 06 2009

FORM APPROVED
Budget Bureau No 1004-0135
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT TO DRILL" for permit for such proposals.

5. Lease Designation and Serial No.

NMSF-078766

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Rosa Unit

8. Well Name and No.
Rosa Unit 145D

9. API Well No.
30-045-35002

10. Field and Pool, or Exploratory Area
BLANCO MV/BASIN DK/BASIN MC

11. County or Parish, State
San Juan, New Mexico

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

X Subsequent Report

Final Abandonment

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

X Other Completion

Change of Plans

New Construction

Non-Routine Fracturing

Water Shut-Off

Conversion to Injection

Dispose Water

(Note Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-2-09 - RU BWWC and run CBL, TOC @ 4010' ✓

10-3-09 - MIRU AWS #880 to prep for rigless frac

10-4-09 - Pressure test production csg to 1500 PSI for 30 min, no leak off. ✓ DO cement & FC to PBTD @ 8257'. RDMO AWS #880

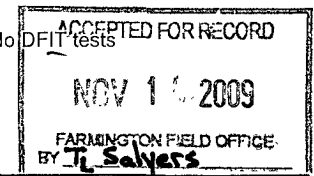
10-8-09 - Rigless - Perf Dakota, 8098'-8235', with 69, 0.34" holes

10-9-09 - Frac Dakota with 6076# 100 mesh BASF followed with 120,743# 40/70 BASF Set Flo-thru BP @ 7670'. Perf lower Mancos, 7334'-7486', with 66, 0.34" holes. Frac lower Mancos with 5049# 100 mesh BASF followed with 76,729# 40/70 BASF. Set Flo-thru BP @ 7296'. Perf upper Mancos, 6990'-7230', with 75, 0.34" holes Frac upper Mancos with 4925# 100 mesh BASF followed with 101,090# 40/70 BASF

10-20-09 - Rigless - Set CBP @ 6330'. Perf Mesaverde formation 6047'-6074', 5890'-5928', 5688'-5692' & 5592'-5596' and do DFIT tests

10-25-09 - MIRU AWS #753 to finish DFIT tests and Mesaverde completion

RCVD NOV 13 '09
OIL CONS. DIV.
DIST. 3



14. I hereby certify that the foregoing is true and correct

Signed Larry Higgins
Larry Higgins

Title Drilling COM Date 11-6-09

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any

NMOCD

Rosa Unit #145D – Page 2

10-28-09 – Perf lower Mesaverde, 5854'-6174', with 48, 0.34" holes. Frac lower Mesaverde with 79,500# 20/40 mesh BASF. Set Flo-thru BP @ 5846'. Perf upper Mesaverde, 5590'-5822', with 55, 0.34" holes. Frac upper Mesaverde with 80,700# 20/40 BASF ✓

10-29-09 – DO Flo-thru BP @ 5846'

11-2-09 – DO CBP @ 6330'. DO Flo-thru BP @ 7296'. DO Flo-thru BP @ 7670'

11-5-09 – FLOW TEST: Duration = 2 hr, Test Method, choke = 1/2", MCF/D = 3473, Csg Psi = 580 lbs, Tbg Psi = 0 psi, Gas Type = wet, Gas Disposition = non flaring. Land 2 3/8" 4.7# EUE mixed string as follows top down: 2 3/8" tbg hanger, 122 jts N-80, 133 jts J-55, 1.78" F-Npl @ 8131', 1 jt J-55, 1/2 muleshoe @ 8165' ✓

ROSA UNIT #145D ✓

Spud: 09/17/09

BLANCO MV / BASIN MC / BASIN DK

Completed: 11/0509

Surface Location: ✓

610' FNL and 610' FEL
NE/4 NE/4 Sec 16 (A), T31N, R06W
San Juan, NM

Bottom Hole Location: ✓

1768' FNL and 392' FEL
SE/4 NE/4 Sec 16 (H), T31N, R06W
San Juan, NM

Elevation: 6324' GR

API # 30-045-35002

Top	MD Depth	TVD Depth
Lewis	3701'	3454'
Cliffhouse Ss.	5579'	5331'
Point Lookout	5881'	5633'
Mancos	6351'	6103'
Graneros	7969'	7721'
Dakota	8096'	7848'

Upper MV: 5590'-5822' (55, 0.34" holes) Frac with
80,700# 20/40 mesh BASF

Lower MV: 5854'-6174' (48, 0.34" holes) Frac with
79,500# 20/40 mesh BASF

Upper Mancos: 6990'-7230' (75, 0.34" holes) Frac with
4925# 100 mesh BASF followed w/101,090# 40/70 BASF

Lower Mancos: 7334'-7486' (66, 0.34" holes) Frac with
5049# 100 mesh BASF followed with 76,729# 40/70
BASF

Dakota: 8098'-8235' (69, 0.34" holes) Frac with 6076#
100 mesh BASF followed with 120,743# 40/70 BASF

7 jts 10-3/4", 40.5#, J-55, ST&C @ 312'.

99 jts 7-5/8", 26.4#, K-55, LT&C @ 4060'.

RCVD NOV 13 '09
OIL CONS. DIV.
DIST. 3

Land 2 3/8" 4.7# EUE mixed string as
follows top down. 2 3/8" tbg hanger, 122 jts
N-80, 133 jts J-55, 1.78" F-Npl @ 8131', 1
jt J-55, 1/2 muleshoe @ 8165'

204 jts 4-1/2",
11.6#, N-80
LT&C csg set
@ 8260'.

TD @ 8261' MD
TD @ 8013' TVD
PBTD @ 8257' MD
PBTD @ 8009' TVD

Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	522 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	625 sxs	1551 cu.ft.	Surface
6-3/4"	4-1/2", 11.6#	570 sxs	798cu.ft.	4010' CBL



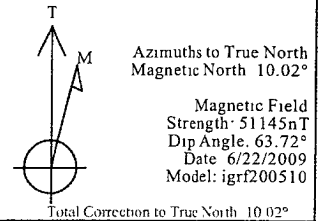
ROSA UNIT #145D
SAN JUAN CO., NEW MEXICO
API #: 30-045-35002

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	169.83	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	169.83	400.00	0.00	0.00	0.00	0.00	0.00	
3	1068.74	26.75	169.83	1044.71	-150.88	27.05	4.00	169.83	153.29	
4	2736.05	26.75	169.83	2533.59	-889.54	159.50	0.00	0.00	903.73	
5	4073.52	0.00	169.83	3823.00	-1191.31	213.60	2.00	180.00	1210.31	Int. Csg. Pt
6	8263.52	0.00	169.83	8013.00	-1191.31	213.60	0.00	169.83	1210.31	PBHL

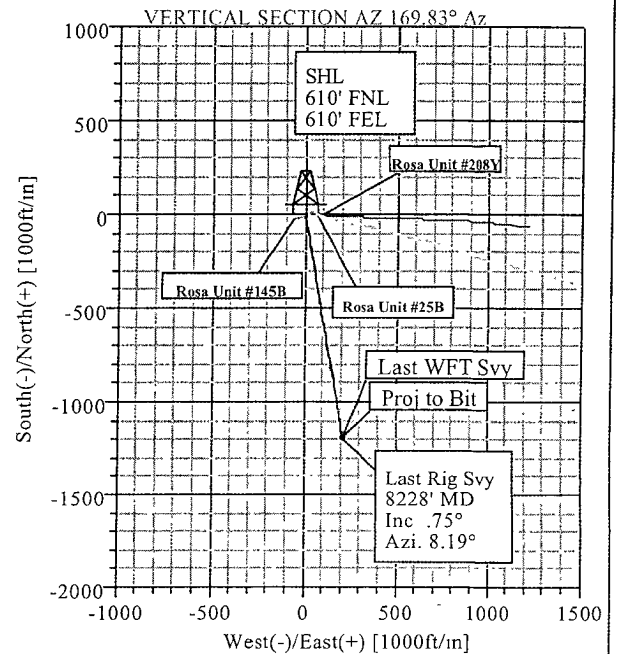
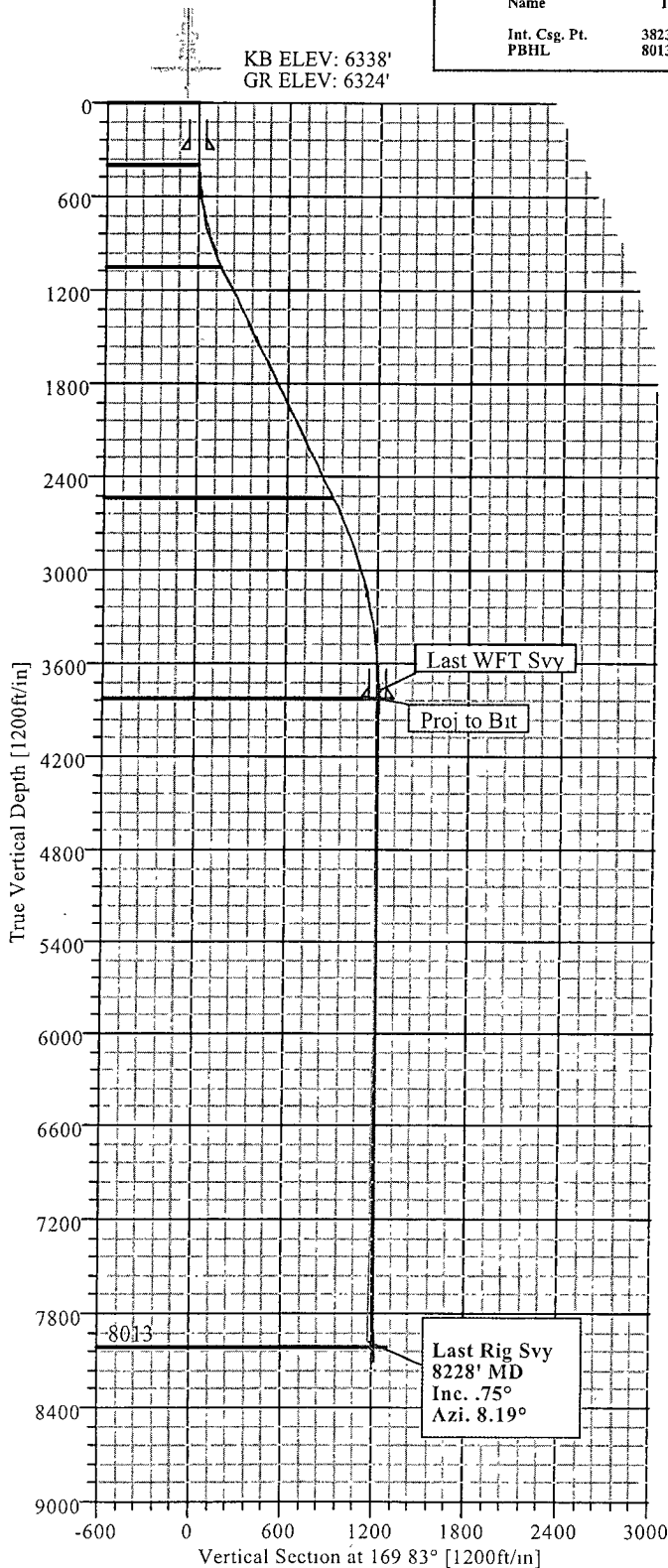
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
#145D	0.00	0.00	2149021.66	2831878.01	36°54'18.580N	107°27'40.570W

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Int. Csg. Pt.	3823.00	-1191.31	213.60	2147831.19	2832096.26	36°54'06.800N	107°27'37.940W
PBHL	8013.00	-1191.31	213.60	2147831.19	2832096.26	36°54'06.800N	107°27'37.940W

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	2333.00	2511.42	Ojo Alamo Ss.
2	2453.00	2645.80	Kirtland Sh.
3	2918.00	3152.75	Fruitland Fm.
4	3148.00	3392.11	Pictured Cliffs Ss.
5	3448.00	3697.44	Lewis Sh.
6	5028.00	5278.52	Cliff House Ss. Trans.
7	5348.00	5598.52	Cliff House Ss.
8	5388.00	5638.52	Menefee Fm.
9	5628.00	5878.52	Point Lookout Ss.
10	5958.00	6208.52	Mancos Sh.
11	6978.00	7228.52	Gallup Ss.
12	7688.00	7938.52	Greenhorn Ls.
13	7743.00	7993.52	Graneros Sh.
14	7883.00	8133.52	Dakota Ss.



LEGEND	
	Rosa Unit #145B (1)
	Rosa Unit #208Y (1)
	Rosa Unit No. 25B (1)
	Plan #1



CASING DETAILS				
No	TVD	MD	Name	Size
1	300.00	300.00	10 3/4"	10.750
2	3823.00	4073.52	7 5/8" Int. Csg.	0.000

Plan. Plan #1 (#145D/1)

Created By: Lindsey Maddux

Date 10/5/2009



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 10/5/2009	Time: 10:06:36	Page: 1
Field: SAN JUAN CO. NM (NAD83)	Co-ordinate(NE) Reference: Well: #145D True North		
Site: Rosa Unit #145D	Vertical (TVD) Reference: SITE 6338.0		
Well: #145D	Section (VS) Reference: Well(0:00N,0:00E,169.83Azi)		
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 #145D

610' FNL 610' FEL of SEC 16 T31N R6W

Site Position:	Northing: 2149021.66 ft	Latitude: 36 54 18.580 N
From: Geographic	Easting: 2831878.01 ft	Longitude: 107 27 40.570 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6324.00 ft		Grid Convergence: 0.22 deg

Well: #145D

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 2149021.66 ft	Latitude: 36 54 18.580 N
+E/-W 0.00 ft	Easting: 2831878.01 ft	Longitude: 107 27 40.570 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 6338.00 ft	Drilled From: Surface
Magnetic Data: 6/22/2009		Tie-on Depth: 0.00 ft
Field Strength: 51145 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 10.02 deg
ft	ft	Mag Dip Angle: 63.72 deg
		+E/-W
		ft
		Direction
		deg
0.00	0.00	0.00 169.83

Survey: WFT SVY

Start Date: 9/21/2009

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
392.00	1.57	186.99	391.95	-5.33	-0.65	5.13	0.40	0.40	0.00	MWD
422.00	2.56	179.75	421.93	-6.41	-0.70	6.18	3.41	3.30	-24.13	MWD
453.00	3.69	177.75	452.88	-8.10	-0.66	7.85	3.66	3.65	-6.45	MWD
483.00	4.75	176.88	482.80	-10.30	-0.55	10.04	3.54	3.53	-2.90	MWD
514.00	5.69	175.63	513.67	-13.12	-0.37	12.85	3.05	3.03	-4.03	MWD
544.00	6.69	174.00	543.50	-16.34	-0.07	16.07	3.38	3.33	-5.43	MWD
574.00	7.69	169.88	573.26	-20.05	0.47	19.82	3.75	3.33	-13.73	MWD
604.00	8.75	167.88	602.95	-24.26	1.30	24.11	3.66	3.53	-6.67	MWD
634.00	9.88	167.25	632.56	-29.00	2.34	28.96	3.78	3.77	-2.10	MWD
664.00	10.75	168.25	662.07	-34.25	3.48	34.33	2.96	2.90	3.33	MWD
695.00	11.75	168.25	692.48	-40.17	4.71	40.37	3.23	3.23	0.00	MWD
724.00	12.69	166.88	720.82	-46.16	6.04	46.50	3.39	3.24	-4.72	MWD
754.00	13.94	166.88	750.01	-52.89	7.61	53.40	4.17	4.17	0.00	MWD
784.00	15.31	167.38	779.04	-60.28	9.29	60.97	4.59	4.57	1.67	MWD
815.00	16.25	166.63	808.87	-68.49	11.19	69.39	3.10	3.03	-2.42	MWD
845.00	17.31	167.63	837.59	-76.93	13.12	78.04	3.66	3.53	3.33	MWD
876.00	18.44	168.00	867.10	-86.23	15.12	87.55	3.66	3.65	1.19	MWD
907.00	19.50	168.00	896.41	-96.09	17.22	97.62	3.42	3.42	0.00	MWD
938.00	20.49	166.79	925.54	-106.44	19.53	108.21	3.46	3.19	-3.90	MWD
968.00	21.19	167.50	953.58	-116.84	21.91	118.87	2.48	2.33	2.37	MWD
998.00	22.25	168.50	981.45	-127.70	24.21	129.97	3.74	3.53	3.33	MWD
1029.00	23.25	169.75	1010.04	-139.47	26.47	141.96	3.58	3.23	4.03	MWD
1059.00	24.75	171.38	1037.44	-151.51	28.47	154.15	5.47	5.00	5.43	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company:	WILLIAMS PRODUCTION	Date:	10/5/2009	Time:	10:06:36	Page:	2
Field:	SAN JUAN CO. NM (NAD83)	Co-ordinate(NE) Reference:	Well: #145D True North				
Site:	Rosa Unit #145D	Vertical (TVD) Reference:	SITE 6338.0				
Well:	#145D	Section (VS) Reference:	Well (0.00N,0.00E,169.83Azi)				
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	25.69	173.75	1064.59	-164.18	30.12	166.92	4.60	3.13	7.90	MWD
1119.00	26.25	171.63	1091.56	-177.21	31.79	180.04	3.61	1.87	-7.07	MWD
1149.00	26.50	170.75	1118.43	-190.38	33.83	193.36	1.55	0.83	-2.93	MWD
1180.00	26.81	170.75	1146.14	-204.11	36.07	207.27	1.00	1.00	0.00	MWD
1211.00	27.13	170.25	1173.77	-217.97	38.39	221.33	1.27	1.03	-1.61	MWD
1241.00	26.44	170.75	1200.55	-231.31	40.62	234.84	2.42	-2.30	1.67	MWD
1272.00	26.50	170.63	1228.30	-244.94	42.86	248.66	0.26	0.19	-0.39	MWD
1303.00	25.81	170.38	1256.12	-258.42	45.11	262.32	2.25	-2.23	-0.81	MWD
1332.00	26.15	170.27	1282.19	-270.94	47.24	275.03	1.18	1.17	-0.38	MWD
1363.00	26.31	170.25	1310.00	-284.45	49.56	288.73	0.52	0.52	-0.06	MWD
1392.00	25.56	169.88	1336.08	-296.94	51.75	301.41	2.65	-2.59	-1.28	MWD
1422.00	25.88	170.00	1363.11	-309.76	54.02	314.43	1.08	1.07	0.40	MWD
1454.00	25.75	170.38	1391.92	-323.49	56.40	328.36	0.66	-0.41	1.19	MWD
1484.00	25.88	170.38	1418.92	-336.37	58.58	341.43	0.43	0.43	0.00	MWD
1516.00	26.13	169.75	1447.68	-350.19	61.00	355.46	1.16	0.78	-1.97	MWD
1545.00	26.25	169.63	1473.70	-362.78	63.29	368.26	0.45	0.41	-0.41	MWD
1576.00	26.56	170.13	1501.47	-376.35	65.72	382.04	1.23	1.00	1.61	MWD
1607.00	26.69	170.38	1529.18	-390.05	68.07	395.94	0.55	0.42	0.81	MWD
1639.00	27.19	170.88	1557.71	-404.35	70.43	410.43	1.72	1.56	1.56	MWD
1670.00	27.56	170.38	1585.24	-418.41	72.75	424.68	1.41	1.19	-1.61	MWD
1701.00	26.44	169.25	1612.86	-432.26	75.23	438.76	3.97	-3.61	-3.65	MWD
1731.00	26.38	169.50	1639.73	-445.38	77.69	452.10	0.42	-0.20	0.83	MWD
1763.00	26.63	168.63	1668.37	-459.40	80.40	466.38	1.44	0.78	-2.72	MWD
1794.00	26.81	169.00	1696.06	-473.07	83.11	480.32	0.79	0.58	1.19	MWD
1825.00	27.06	169.75	1723.69	-486.88	85.70	494.36	1.36	0.81	2.42	MWD
1857.00	27.50	170.00	1752.13	-501.31	88.27	509.02	1.42	1.37	0.78	MWD
1887.00	27.63	169.38	1778.73	-514.97	90.76	522.91	1.05	0.43	-2.07	MWD
1918.00	26.63	168.88	1806.32	-528.86	93.42	537.04	3.31	-3.23	-1.61	MWD
1949.00	26.56	168.50	1834.04	-542.46	96.14	550.92	0.59	-0.23	-1.23	MWD
1979.00	27.00	169.00	1860.82	-555.72	98.78	564.43	1.65	1.47	1.67	MWD
2011.00	27.27	168.38	1889.30	-570.03	101.64	579.02	1.22	0.84	-1.94	MWD
2042.00	26.31	168.63	1916.97	-583.72	104.43	592.99	3.12	-3.10	0.81	MWD
2074.00	26.19	168.50	1945.67	-597.60	107.24	607.14	0.42	-0.37	-0.41	MWD
2105.00	25.56	168.38	1973.56	-610.85	109.95	620.67	2.04	-2.03	-0.39	MWD
2136.00	25.88	169.25	2001.49	-624.05	112.55	634.12	1.60	1.03	2.81	MWD
2167.00	26.06	169.50	2029.36	-637.39	115.06	647.69	0.68	0.58	0.81	MWD
2198.00	26.44	169.38	2057.16	-650.87	117.57	661.40	1.24	1.23	-0.39	MWD
2230.00	26.69	170.00	2085.78	-664.95	120.13	675.71	1.17	0.78	1.94	MWD
2261.00	27.19	170.38	2113.42	-678.79	122.52	689.76	1.71	1.61	1.23	MWD
2290.00	27.56	170.50	2139.17	-691.94	124.74	703.09	1.29	1.28	0.41	MWD
2319.00	26.75	171.50	2164.98	-705.01	126.81	716.32	3.21	-2.79	3.45	MWD
2351.00	26.31	172.13	2193.61	-719.16	128.85	730.61	1.63	-1.37	1.97	MWD
2380.00	26.19	172.63	2219.62	-731.87	130.55	743.42	0.87	-0.41	1.72	MWD
2412.00	26.13	172.00	2248.34	-745.85	132.43	757.52	0.89	-0.19	-1.97	MWD
2442.00	26.38	171.75	2275.24	-758.99	134.31	770.78	0.91	0.83	-0.83	MWD
2474.00	26.50	171.38	2303.90	-773.08	136.40	785.02	0.64	0.37	-1.16	MWD
2504.00	26.56	171.63	2330.74	-786.34	138.38	798.41	0.42	0.20	0.83	MWD
2536.00	26.44	170.63	2359.37	-800.44	140.58	812.69	1.44	-0.37	-3.12	MWD
2567.00	26.88	169.88	2387.08	-814.15	142.94	826.60	1.79	1.42	-2.42	MWD
2596.00	27.50	169.00	2412.87	-827.18	145.36	839.85	2.55	2.14	-3.03	MWD
2628.00	27.00	168.75	2441.32	-841.55	148.19	854.50	1.60	-1.56	-0.78	MWD
2658.00	26.92	168.73	2468.06	-854.89	150.85	868.10	0.27	-0.27	-0.07	MWD
2689.00	26.56	168.00	2495.75	-868.55	153.66	882.04	1.57	-1.16	-2.35	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company:	WILLIAMS PRODUCTION	Date:	10/5/2009	Time:	10:06:36	Page:	3
Field:	SAN JUAN CO. NM (NAD83)	Co-ordinate(NE) Reference:	Well: #145D, True North				
Site:	Rosa Unit #145D	Vertical (TVD) Reference:	SITE 6338.0				
Well:	#145D	Section (VS) Reference:	Well (0.00N,0.00E,169.83Azi)				
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
2721.00	26.88	167.88	2524.33	-882.63	156.67	896.42	1.01	1.00	-0.37	MWD
2749.00	27.13	166.50	2549.28	-895.02	159.49	909.12	2.41	0.89	-4.93	MWD
2781.00	26.19	166.13	2577.88	-908.97	162.88	923.45	2.98	-2.94	-1.16	MWD
2810.00	25.13	165.88	2604.01	-921.16	165.92	935.98	3.67	-3.66	-0.86	MWD
2841.00	24.44	168.25	2632.16	-933.82	168.83	948.96	3.90	-2.23	7.65	MWD
2872.00	24.31	170.00	2660.40	-946.38	171.24	961.75	2.37	-0.42	5.65	MWD
2904.00	23.94	169.88	2689.60	-959.26	173.53	974.83	1.17	-1.16	-0.37	MWD
2934.00	23.38	169.38	2717.08	-971.10	175.69	986.87	1.98	-1.87	-1.67	MWD
2965.00	22.75	169.00	2745.60	-983.03	177.97	999.01	2.09	-2.03	-1.23	MWD
2996.00	21.81	168.25	2774.29	-994.56	180.29	1010.76	3.17	-3.03	-2.42	MWD
3028.00	21.44	168.75	2804.03	-1006.11	182.64	1022.55	1.29	-1.16	1.56	MWD
3058.00	21.13	169.13	2831.99	-1016.80	184.73	1033.44	1.13	-1.03	1.27	MWD
3088.00	20.43	170.14	2860.04	-1027.27	186.65	1044.08	2.62	-2.33	3.37	MWD
3118.00	19.75	170.00	2888.21	-1037.42	188.42	1054.39	2.27	-2.27	-0.47	MWD
3149.00	18.94	170.63	2917.46	-1047.54	190.15	1064.66	2.70	-2.61	2.03	MWD
3180.00	18.19	168.63	2946.85	-1057.25	191.92	1074.53	3.17	-2.42	-6.45	MWD
3211.00	17.19	167.38	2976.38	-1066.46	193.88	1083.94	3.45	-3.23	-4.03	MWD
3242.00	15.88	167.13	3006.10	-1075.07	195.82	1092.75	4.23	-4.23	-0.81	MWD
3273.00	15.13	167.25	3035.97	-1083.15	197.66	1101.03	2.42	-2.42	0.39	MWD
3305.00	14.31	170.13	3066.92	-1091.12	199.26	1109.16	3.43	-2.56	9.00	MWD
3335.00	13.81	174.13	3096.02	-1098.33	200.26	1116.44	3.64	-1.67	13.33	MWD
3366.00	13.63	175.50	3126.14	-1105.65	200.93	1123.76	1.20	-0.58	4.42	MWD
3397.00	12.94	173.75	3156.31	-1112.75	201.59	1130.86	2.58	-2.23	-5.65	MWD
3428.00	12.75	173.25	3186.53	-1119.59	202.37	1137.74	0.71	-0.61	-1.61	MWD
3459.00	12.81	172.25	3216.76	-1126.40	203.24	1144.58	0.74	0.19	-3.23	MWD
3490.00	13.00	173.63	3246.98	-1133.27	204.09	1151.50	1.17	0.61	4.45	MWD
3519.00	12.56	174.63	3275.26	-1139.65	204.75	1157.89	1.70	-1.52	3.45	MWD
3550.00	12.06	174.88	3305.55	-1146.23	205.35	1164.48	1.62	-1.61	0.81	MWD
3580.00	11.31	174.13	3334.93	-1152.28	205.93	1170.53	2.55	-2.50	-2.50	MWD
3611.00	11.00	170.00	3365.34	-1158.21	206.76	1176.52	2.76	-1.00	-13.32	MWD
3643.00	10.56	165.88	3396.78	-1164.06	208.00	1182.50	2.77	-1.37	-12.87	MWD
3674.00	10.00	165.13	3427.28	-1169.42	209.38	1188.02	1.86	-1.81	-2.42	MWD
3705.00	8.75	169.00	3457.87	-1174.34	210.53	1193.06	4.51	-4.03	12.48	MWD
3736.00	6.94	175.63	3488.58	-1178.52	211.12	1197.28	6.52	-5.84	21.39	MWD
3767.00	5.88	180.50	3519.38	-1181.97	211.25	1200.70	3.84	-3.42	15.71	MWD
3797.00	4.75	177.50	3549.25	-1184.75	211.29	1203.44	3.88	-3.77	-10.00	MWD
3828.00	3.63	165.38	3580.17	-1186.98	211.59	1205.69	4.59	-3.61	-39.10	MWD
3859.00	2.88	153.13	3611.12	-1188.63	212.19	1207.42	3.29	-2.42	-39.52	MWD
3890.00	2.13	143.88	3642.09	-1189.79	212.88	1208.68	2.74	-2.42	-29.84	MWD
3921.00	1.13	138.75	3673.08	-1190.48	213.42	1209.46	3.26	-3.23	-16.55	MWD
3953.00	0.25	137.88	3705.07	-1190.77	213.68	1209.79	2.75	-2.75	-2.72	MWD
3983.00	0.19	25.50	3735.07	-1190.78	213.74	1209.81	1.22	-0.20	-374.60	MWD
4015.00	0.13	5.88	3767.07	-1190.69	213.77	1209.73	0.25	-0.19	-61.31	MWD
4022.00	0.15	8.19	3774.07	-1190.68	213.77	1209.71	0.30	0.29	33.00	Last WFT Svy
4073.00	0.15	8.19	3825.07	-1190.54	213.79	1209.59	0.00	0.00	0.00	Proj to Bit
8228.00	0.75	8.19	7979.93	-1158.24	218.44	1178.61	0.01	0.01	0.00	Last Rig Svy

Annotation

MD ft	TVD ft	
4022.00	3774.07	Last WFT Svy
4073.00	3825.07	Proj to Bit
8228.00	7979.93	Last Rig Svy