

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

*API Number 39 30682	*Pool Code 97232 / 72319 / 71599	*Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 41C
*OGRID No 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6348'

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
B	8	31N	5W		850	NORTH	1980	EAST	RIO ARriba

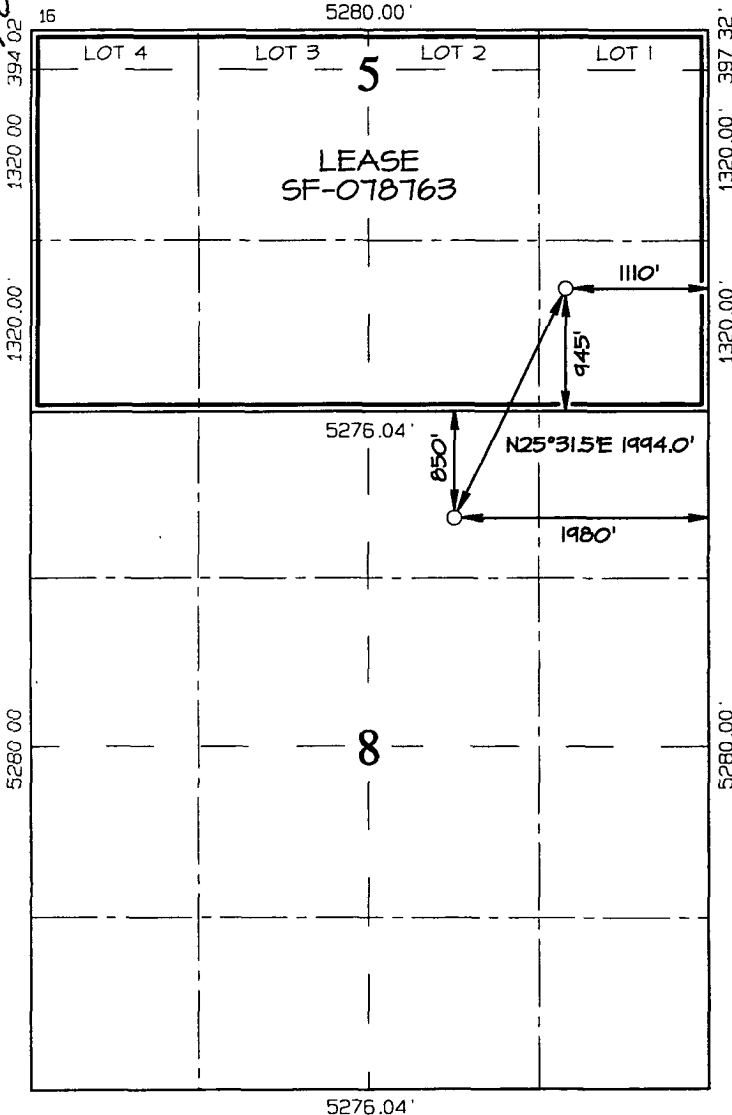
11 Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	31N	5W		945	SOUTH	1110	EAST	RIO ARriba

12 Dedicated Acres 367.96 Acres - Entire Section	13 Joint or Infill	14 Consolidation Code	15 Order No. RCD JUL 14 '05 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



BOTTOM-HOLE
LAT: 36.92385°N
LONG: 107.38055°W
DATUM: NAD1983

SURFACE LOCATION
LAT: 36.91892°N
LONG: 107.38352°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: Larry Higgins Date: 7-13-09

Printed Name: Larry Higgins

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: JANUARY 3, 2009

Signature, and Seal of Professional Surveyor

JASON C. EDWARDS
Certificate Number 15269

12/20

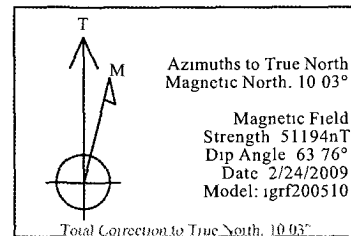


ROSA UNIT #41-C
RIO ARRIBA CO., NEW MEXICO

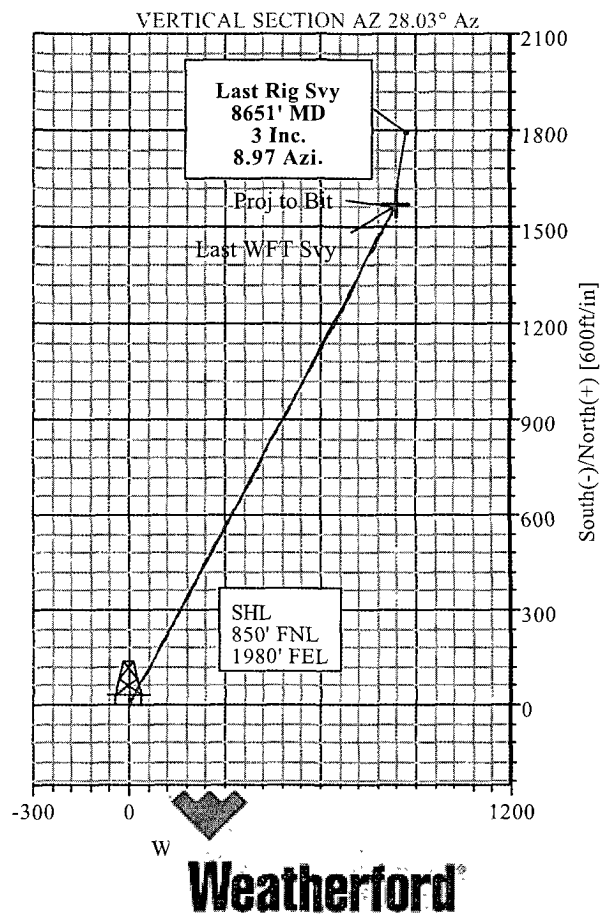
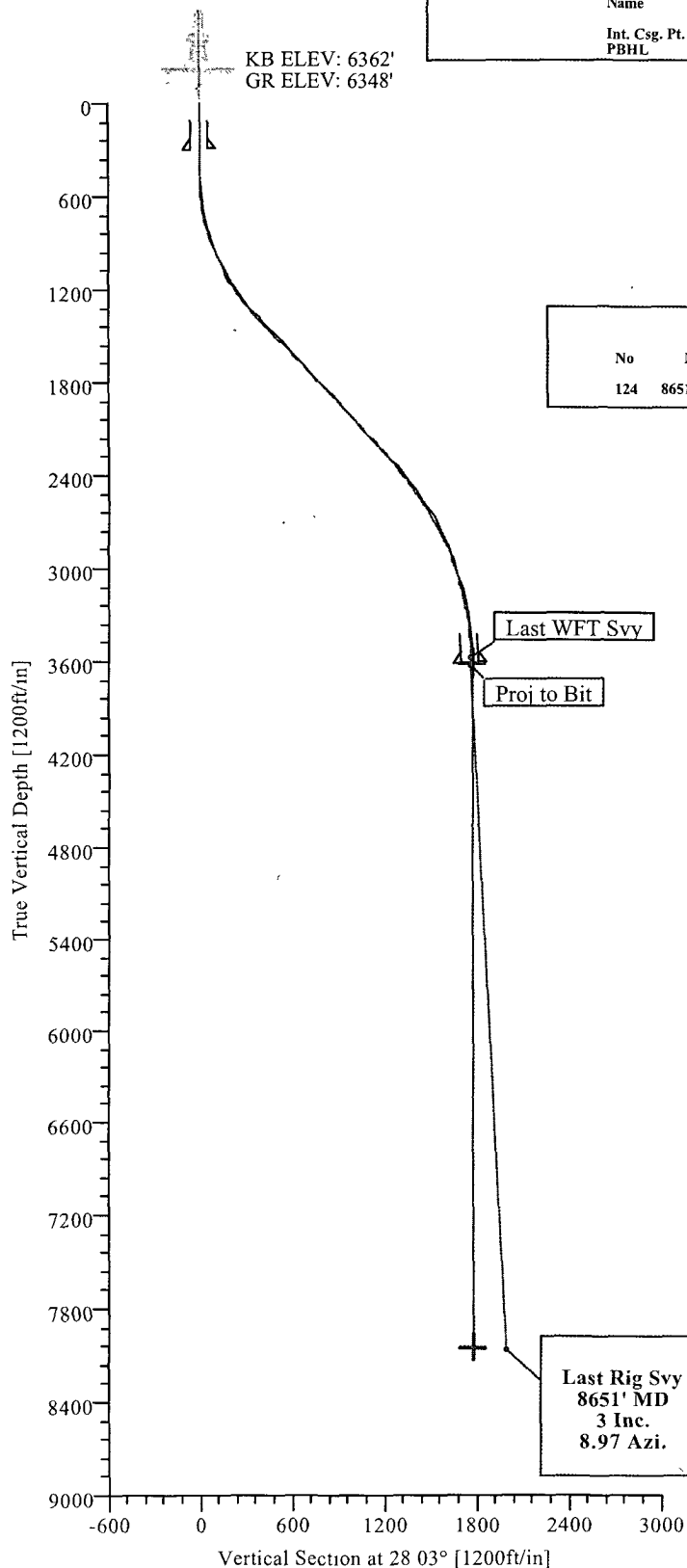
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	28.03	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	28.03	400.00	0.00	0.00	0.00	0.00	0.00	
3	1479.95	43.20	28.03	1380.51	342.67	182.41	4.00	28.03	388.19	
4	2754.52	43.20	28.03	2309.66	1112.82	592.38	0.00	0.00	1260.66	
5	4194.46	0.00	28.03	3617.00	1569.71	835.59	3.00	180.00	1778.25	Int. Csg. Pt.
6	8624.46	0.00	28.03	8047.00	1569.71	835.59	0.00	28.03	1778.25	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#41-C	0.00	0.00	2155751.56	1309070.72	36°55'08.110N	107°23'00.670W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	
Int. Csg. Pt.	3617.00	1569.71	835.59	36°55'23.630N	107°22'50.380W	Point	
PBHL	8047.00	1569.71	835.59	36°55'23.630N	107°22'50.380W	Point	



Last Rig Survey										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
124	8651.00	3.00	8.97	8067.78	1795.08	869.99	0.00	180.00	1993.36	



Survey: WFT SVY (#41-C/1)
Created By: Lindsey Maddux
Date 6/30/2009



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 6/30/2009	Time: 08:26:36	Page: 1
Field: Rio Arriba Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: #41-C, True North		
Site: Rosa Unit #41-C	Vertical (TVD) Reference: SITE 6362.0		
Well: #41-C	Section (VS) Reference: Well (0.00N,0.00E,28.03Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Rio Arriba Co., NM (NAD 83)

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

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

Site: Rosa Unit #41-C

850' FNL 1980' FEL of SEC 8 T31N R5W

Site Position:	Northing: 2155751.56 ft	Latitude: 36 55 8.110 N
From: Geographic	Easting: 1309070.72 ft	Longitude: 107 23 0.670 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6348.00 ft		Grid Convergence: -0.68 deg

Well: #41-C

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 2155751.56 ft	Latitude: 36 55 8.110 N
+E/-W 0.00 ft	Easting: 1309070.72 ft	Longitude: 107 23 0.670 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 6362.00 ft	Drilled From: Surface
Magnetic Data: 2/24/2009		Tie-on Depth: 0.00 ft
Field Strength: 51194 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 10.03 deg
ft	ft	Mag Dip Angle: 63.76 deg
		+E/-W
		ft
		Direction
		deg
0.00	0.00	0.00 28.03

Survey: WFT SVY

Start Date: 5/26/2009

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
388.00	0.34	35.98	388.00	0.93	0.68	1.14	0.09	0.09	0.00	MWD
418.00	0.70	15.54	418.00	1.18	0.78	1.41	1.33	1.20	-68.13	MWD
449.00	1.19	29.87	448.99	1.64	0.99	1.91	1.74	1.58	46.23	MWD
480.00	2.06	23.87	479.98	2.43	1.37	2.79	2.86	2.81	-19.35	MWD
511.00	2.75	28.74	510.95	3.59	1.96	4.09	2.32	2.23	15.71	MWD
541.00	3.63	27.99	540.91	5.06	2.75	5.76	2.94	2.93	-2.50	MWD
572.00	4.56	28.12	571.83	7.02	3.79	7.97	3.00	3.00	0.42	MWD
603.00	5.75	27.62	602.70	9.48	5.09	10.76	3.84	3.84	-1.61	MWD
633.00	7.13	27.42	632.51	12.46	6.65	14.12	4.60	4.60	-0.67	MWD
664.00	8.69	26.87	663.21	16.26	8.59	18.39	5.04	5.03	-1.77	MWD
694.00	10.44	27.12	692.80	20.70	10.85	23.37	5.83	5.83	0.83	MWD
725.00	12.31	27.12	723.19	26.14	13.64	29.49	6.03	6.03	0.00	MWD
755.00	14.25	28.74	752.38	32.23	16.87	36.38	6.58	6.47	5.40	MWD
786.00	15.63	27.62	782.33	39.27	20.65	44.37	4.55	4.45	-3.61	MWD
817.00	16.75	27.24	812.10	46.94	24.63	53.01	3.63	3.61	-1.23	MWD
846.00	17.50	27.99	839.82	54.51	28.59	61.55	2.70	2.59	2.59	MWD
877.00	18.63	27.37	869.29	63.02	33.05	71.16	3.70	3.65	-2.00	MWD
907.00	20.25	27.24	897.58	71.90	37.63	81.15	5.40	5.40	-0.43	MWD
938.00	22.06	26.99	926.49	81.85	42.73	92.33	5.85	5.84	-0.81	MWD
969.00	23.13	27.37	955.11	92.45	48.17	104.24	3.48	3.45	1.23	MWD
999.00	23.77	27.48	982.63	103.05	53.67	116.18	2.14	2.13	0.37	MWD
1030.00	24.56	27.99	1010.91	114.28	59.57	128.87	2.64	2.55	1.65	MWD
1061.00	25.63	27.74	1038.99	125.90	65.72	142.02	3.47	3.45	-0.81	MWD



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 6/30/2009	Time: 08:26:36	Page: 2
Field: Rio Arriba Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: #41-C, True North		
Site: Rosa Unit #41-C	Vertical (TVD) Reference: SITE 6362.0		
Well: #41-C	Section (VS) Reference: Well (0.00N,0.00E,28.03Azi)		
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
1092.00	26.81	28.99	1066.80	137.95	72.23	155.71	4.20	3.81	4.03	MWD
1123.00	28.06	29.24	1094.31	150.43	79.18	169.99	4.05	4.03	0.81	MWD
1153.00	28.81	30.37	1120.69	162.82	86.28	184.27	3.08	2.50	3.77	MWD
1184.00	29.90	29.79	1147.71	175.97	93.89	199.45	3.63	3.52	-1.87	MWD
1215.00	30.81	29.99	1174.46	189.55	101.70	215.11	2.95	2.94	0.65	MWD
1248.00	32.25	29.62	1202.59	204.53	110.28	232.36	4.40	4.36	-1.12	MWD
1280.00	33.81	29.37	1229.41	219.71	118.86	249.80	4.89	4.87	-0.78	MWD
1310.00	35.88	28.87	1254.03	234.68	127.20	266.93	6.97	6.90	-1.67	MWD
1342.00	37.88	28.24	1279.63	251.55	136.38	286.14	6.36	6.25	-1.97	MWD
1374.00	39.94	27.12	1304.53	269.35	145.71	306.23	6.80	6.44	-3.50	MWD
1406.00	41.08	26.69	1328.86	287.89	155.12	327.02	3.67	3.56	-1.34	MWD
1438.00	42.31	27.37	1352.75	306.85	164.79	348.30	4.10	3.84	2.12	MWD
1469.00	43.00	27.87	1375.55	325.46	174.53	369.30	2.48	2.23	1.61	MWD
1501.00	43.56	27.74	1398.85	344.86	184.76	391.24	1.77	1.75	-0.41	MWD
1532.00	43.63	27.37	1421.30	363.82	194.65	412.61	0.85	0.23	-1.19	MWD
1563.00	43.88	27.37	1443.69	382.85	204.51	434.05	0.81	0.81	0.00	MWD
1594.00	43.94	27.62	1466.02	401.93	214.43	455.55	0.59	0.19	0.81	MWD
1626.00	44.13	26.62	1489.03	421.72	224.57	477.79	2.25	0.59	-3.12	MWD
1657.00	44.13	26.49	1511.28	441.03	234.22	499.37	0.29	0.00	-0.42	MWD
1688.00	44.19	27.24	1533.52	460.30	243.98	520.96	1.70	0.19	2.42	MWD
1719.00	44.63	27.49	1555.66	479.56	253.95	542.65	1.53	1.42	0.81	MWD
1751.00	44.56	27.99	1578.45	499.45	264.41	565.12	1.12	-0.22	1.56	MWD
1783.00	44.83	28.18	1601.20	519.30	275.01	587.62	0.94	0.84	0.59	MWD
1814.00	44.88	27.74	1623.17	538.61	285.26	609.49	1.01	0.16	-1.42	MWD
1845.00	44.25	28.87	1645.26	557.77	295.57	631.24	3.27	-2.03	3.65	MWD
1876.00	44.06	28.99	1667.50	576.67	306.02	652.83	0.67	-0.61	0.39	MWD
1908.00	44.19	28.74	1690.47	596.18	316.77	675.11	0.68	0.41	-0.78	MWD
1939.00	43.00	29.24	1712.92	614.88	327.13	696.48	4.00	-3.84	1.61	MWD
1971.00	42.94	30.24	1736.34	633.81	337.95	718.28	2.14	-0.19	3.12	MWD
2002.00	43.23	29.84	1758.98	652.15	348.55	739.45	1.29	0.94	-1.29	MWD
2034.00	43.50	28.74	1782.24	671.31	359.30	761.41	2.51	0.84	-3.44	MWD
2065.00	43.63	29.24	1804.70	690.00	369.66	782.77	1.19	0.42	1.61	MWD
2096.00	43.81	29.24	1827.11	708.69	380.12	804.19	0.58	0.58	0.00	MWD
2127.00	44.00	28.49	1849.44	727.52	390.50	825.69	1.79	0.61	-2.42	MWD
2158.00	44.38	27.49	1871.67	746.60	400.64	847.30	2.56	1.23	-3.23	MWD
2190.00	44.38	26.74	1894.54	766.52	410.84	869.68	1.64	0.00	-2.34	MWD
2222.00	44.44	26.99	1917.40	786.50	420.96	892.06	0.58	0.19	0.78	MWD
2252.00	43.63	27.12	1938.97	805.07	430.44	912.91	2.72	-2.70	0.43	MWD
2283.00	43.88	27.87	1961.36	824.08	440.34	934.35	1.86	0.81	2.42	MWD
2315.00	43.25	27.87	1984.55	843.58	450.65	956.40	1.97	-1.97	0.00	MWD
2346.00	43.68	27.38	2007.05	862.47	460.54	977.73	1.76	1.39	-1.58	MWD
2377.00	43.56	26.99	2029.49	881.50	470.31	999.11	0.95	-0.39	-1.26	MWD
2409.00	43.81	27.74	2052.63	901.13	480.47	1021.21	1.80	0.78	2.34	MWD
2440.00	43.25	27.99	2075.11	920.00	490.45	1042.56	1.89	-1.81	0.81	MWD
2472.00	43.06	28.49	2098.45	939.28	500.80	1064.45	1.22	-0.59	1.56	MWD
2504.00	42.63	27.99	2121.91	958.45	511.10	1086.21	1.71	-1.34	-1.56	MWD
2535.00	42.50	27.99	2144.74	976.97	520.94	1107.18	0.42	-0.42	0.00	MWD
2567.00	42.44	28.99	2168.35	995.96	531.25	1128.79	2.12	-0.19	3.12	MWD
2599.00	42.56	28.12	2191.94	1014.95	541.58	1150.40	1.87	0.37	-2.72	MWD
2631.00	42.59	28.44	2215.51	1034.01	551.84	1172.05	0.68	0.09	1.00	MWD
2663.00	42.94	28.99	2239.00	1053.07	562.28	1193.78	1.60	1.09	1.72	MWD
2694.00	43.06	28.87	2261.67	1071.57	572.50	1214.92	0.47	0.39	-0.39	MWD
2726.00	41.94	30.37	2285.26	1090.37	583.19	1236.53	4.72	-3.50	4.69	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: WILLIAMS PRODUCTION Date: 6/30/2009 Time: 08:26:36 Page: 3
Field: Rio Arriba Co. NM (NAD 83) Co-ordinate(NE) Reference: Well: #41-C, True North
Site: Rosa Unit #41-C Vertical (TVD) Reference: SITE 6362.0
Well: #41-C Section (VS) Reference: Well (0.00N,0.00E,28.03Azi)
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
2757.00	40.56	30.24	2308.57	1108.01	593.50	1256.95	4.46	-4.45	-0.42	MWD
2788.00	39.50	29.37	2332.31	1125.31	603.41	1276.88	3.87	-3.42	-2.81	MWD
2819.00	38.66	30.12	2356.37	1142.28	613.11	1296.41	3.11	-2.71	2.42	MWD
2882.00	36.63	29.49	2406.25	1175.66	632.23	1334.87	3.28	-3.22	-1.00	MWD
2913.00	36.06	28.62	2431.22	1191.72	641.16	1353.24	2.48	-1.84	-2.81	MWD
2944.00	35.75	28.74	2456.33	1207.67	649.88	1371.42	1.03	-1.00	0.39	MWD
2975.00	35.50	27.99	2481.53	1223.56	658.46	1389.47	1.62	-0.81	-2.42	MWD
3006.00	34.75	27.49	2506.89	1239.35	666.76	1407.31	2.59	-2.42	-1.61	MWD
3038.00	33.56	27.24	2533.37	1255.30	675.02	1425.27	3.74	-3.72	-0.78	MWD
3069.00	33.18	27.69	2559.25	1270.43	682.89	1442.32	1.46	-1.23	1.45	MWD
3101.00	32.56	27.62	2586.13	1285.81	690.95	1459.69	1.94	-1.94	-0.22	MWD
3132.00	31.56	26.24	2612.40	1300.48	698.40	1476.14	4.00	-3.23	-4.45	MWD
3162.00	31.25	25.99	2638.01	1314.52	705.28	1491.76	1.12	-1.03	-0.83	MWD
3194.00	30.75	25.37	2665.44	1329.37	712.43	1508.23	1.85	-1.56	-1.94	MWD
3225.00	30.44	24.74	2692.12	1343.66	719.11	1523.99	1.44	-1.00	-2.03	MWD
3257.00	30.13	24.49	2719.76	1358.34	725.83	1540.10	1.05	-0.97	-0.78	MWD
3288.00	28.88	25.62	2746.74	1372.17	732.29	1555.34	4.41	-4.03	3.65	MWD
3319.00	27.81	27.74	2774.02	1385.32	738.89	1570.05	4.74	-3.45	6.84	MWD
3350.00	27.45	29.49	2801.48	1397.94	745.78	1584.43	2.86	-1.16	5.65	MWD
3382.00	26.25	29.49	2830.03	1410.52	752.89	1598.88	3.75	-3.75	0.00	MWD
3414.00	25.19	28.62	2858.86	1422.66	759.64	1612.76	3.52	-3.31	-2.72	MWD
3445.00	24.13	28.99	2887.04	1433.99	765.87	1625.69	3.46	-3.42	1.19	MWD
3477.00	22.13	28.62	2916.46	1445.00	771.93	1638.26	6.27	-6.25	-1.16	MWD
3509.00	20.69	27.74	2946.25	1455.30	777.45	1649.94	4.61	-4.50	-2.75	MWD
3540.00	20.00	28.12	2975.32	1464.82	782.49	1660.72	2.27	-2.23	1.23	MWD
3572.00	18.75	28.74	3005.51	1474.16	787.55	1671.34	3.96	-3.91	1.94	MWD
3604.00	17.44	27.49	3035.92	1482.92	792.23	1681.27	4.27	-4.09	-3.91	MWD
3636.00	15.88	28.62	3066.58	1491.02	796.54	1690.45	4.98	-4.87	3.53	MWD
3667.00	15.42	27.97	3096.43	1498.38	800.51	1698.81	1.59	-1.48	-2.10	MWD
3700.00	14.44	29.87	3128.31	1505.82	804.62	1707.31	3.32	-2.97	5.76	MWD
3732.00	14.00	28.74	3159.33	1512.68	808.46	1715.17	1.63	-1.37	-3.53	MWD
3763.00	12.94	29.37	3189.48	1518.99	811.97	1722.39	3.45	-3.42	2.03	MWD
3795.00	11.81	26.99	3220.74	1525.03	815.21	1729.24	3.87	-3.53	-7.44	MWD
3827.00	10.94	26.87	3252.11	1530.66	818.07	1735.55	2.72	-2.72	-0.37	MWD
3859.00	10.25	27.49	3283.56	1535.89	820.76	1741.44	2.19	-2.16	1.94	MWD
3891.00	8.69	30.12	3315.13	1540.51	823.29	1746.70	5.06	-4.87	8.22	MWD
3923.00	6.94	29.12	3346.83	1544.29	825.44	1751.05	5.49	-5.47	-3.12	MWD
3955.00	6.44	30.99	3378.61	1547.52	827.30	1754.77	1.70	-1.56	5.84	MWD
3987.00	5.75	30.74	3410.43	1550.43	829.05	1758.17	2.16	-2.16	-0.78	MWD
4018.00	4.75	28.37	3441.30	1552.90	830.45	1761.00	3.30	-3.23	-7.65	MWD
4050.00	3.56	23.49	3473.21	1554.97	831.48	1763.32	3.88	-3.72	-15.25	MWD
4082.00	3.13	19.12	3505.16	1556.71	832.16	1765.17	1.56	-1.34	-13.66	MWD
4114.00	3.19	10.24	3537.11	1558.41	832.60	1766.88	1.54	0.19	-27.75	MWD
4146.00	3.35	9.47	3569.06	1560.21	832.92	1768.62	0.52	0.50	-2.41	MWD
4150.00	3.05	8.97	3573.05	1560.43	832.95	1768.83	7.53	-7.50	-12.50	Last WFT Svy
4203.00	3.05	8.97	3625.98	1563.22	833.39	1771.49	0.00	0.00	0.00	Proj to Bit
8651.00	3.00	8.97	8067.78	1795.08	869.99	1993.36	0.00	0.00	0.00	Last Rig Svy

Annotation

MD ft	TVD ft	
4150.00	3573.05	Last WFT Svy
4203.00	3625.98	Proj to Bit
8651.00	8067.78	Last Rig Svy