

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

WELL LOCATION AND ACREAGE DEDICATION PLAT *"As Drilled"*

*API Number 30 039 30336	*Pool Code 97232 / 72319 / 71599	*Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 72B
*OGRID No 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6334'

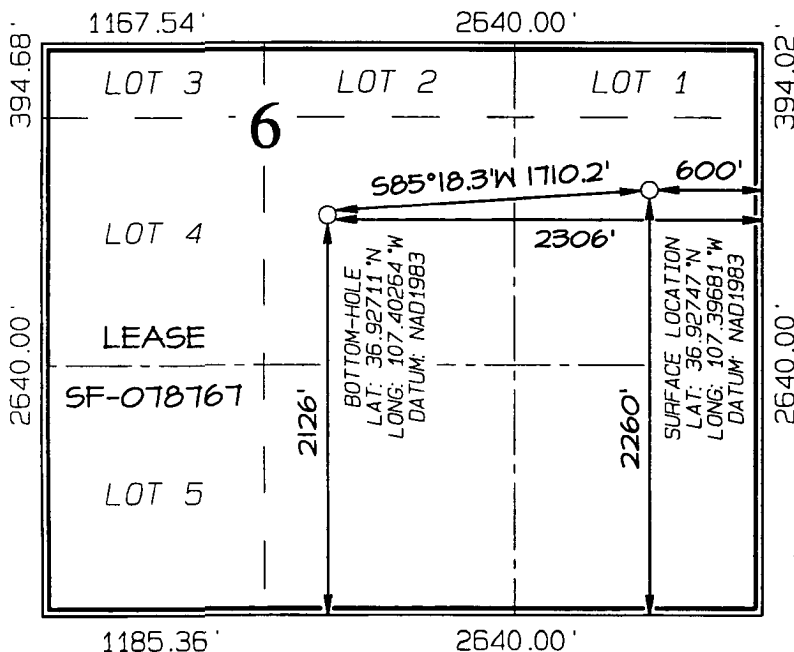
¹⁰ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	6	31N	5W		2260	SOUTH	600	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
J	6	31N	5W		2126	SOUTH	2306	EAST	RIO ARriba
¹² Dedicated Acres 264.56 Acres - (Entire Section)					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	RCVD MAY 19 '09 OIL CONS. DIV.	

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

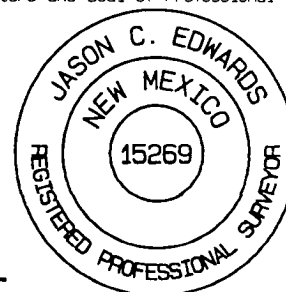
Signature: *Larry Higgins* Date: 5-19-09
Printed Name: LARRY HIGGINS

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.

Date Revised: MAY 18, 2009
Survey Date: FEBRUARY 22, 2007

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269



ROSA UNIT #72B
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	271.73	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	271.73	400.00	0.00	0.00	0.00	0.00	0.00	
3	1401.52	40.06	271.73	1321.89	10.14	-335.94	4.00	271.73	336.09	
4	2841.26	40.06	271.73	2423.81	38.11	-1262.14	0.00	0.00	1262.71	
5	4176.62	0.00	271.73	3653.00	51.63	-1710.06	3.00	180.00	1710.83	Int. Csg. Pt.
6	8581.62	0.00	271.73	8058.00	51.63	-1710.06	0.00	271.73	1710.83	PBHL

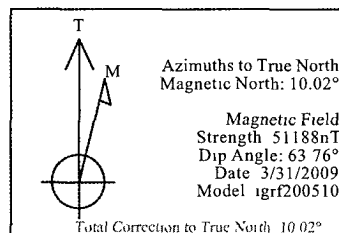
WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#72B	0.00	0.00	2158910.89	1305222.61	36°55'38.890N	107°23'48.520W	N/A

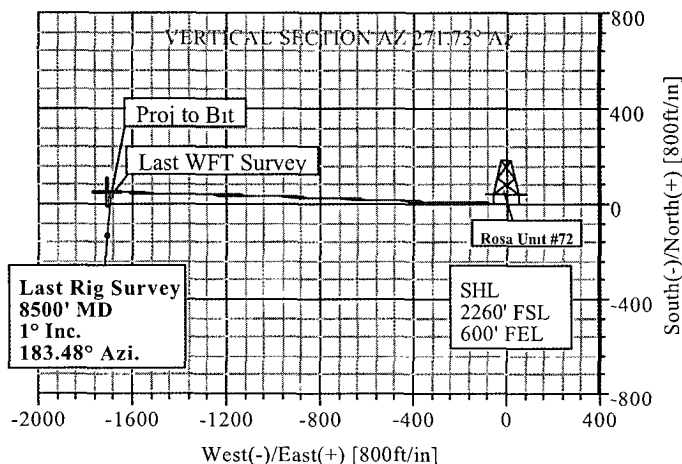
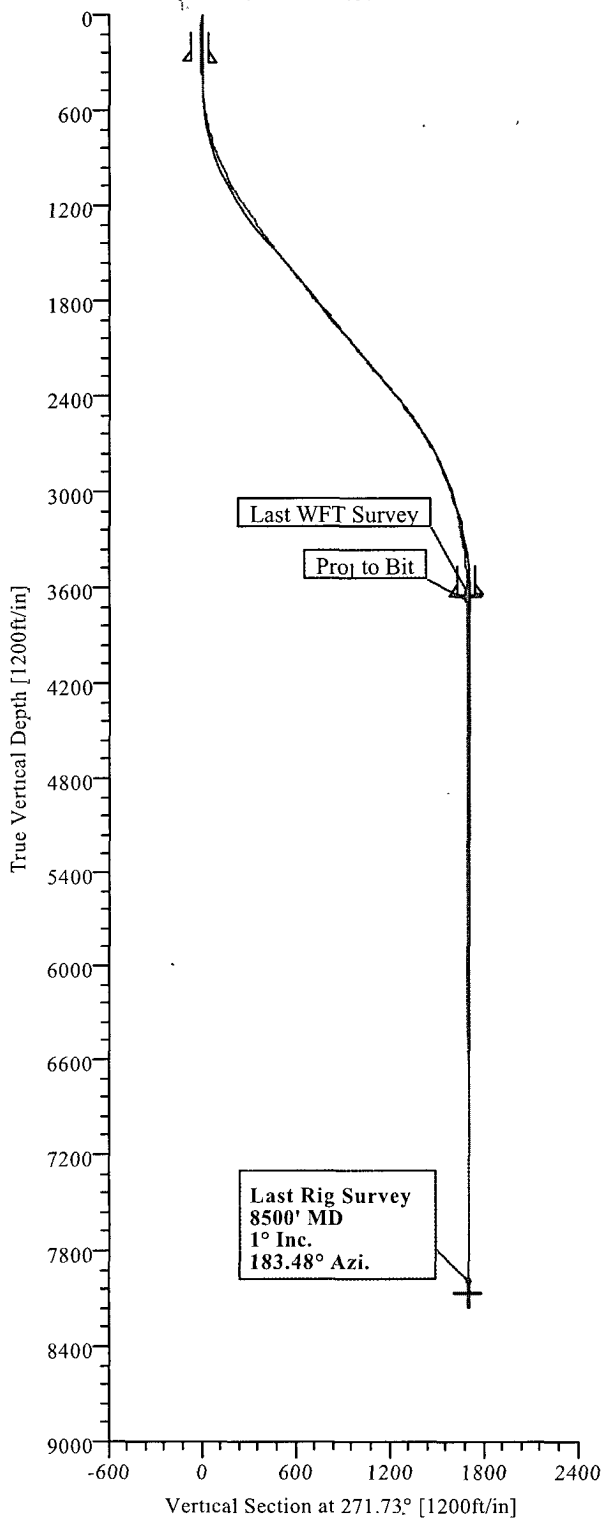
TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Int. Csg. Pt.	3653.00	51.63	-1710.06	2158983.08	1303513.29	36°55'39.400N	107°24'09.580W	Point
PBHL	8058.00	51.63	-1710.06	2158983.08	1303513.29	36°55'39.400N	107°24'09.580W	Point

KB ELEV: 6348'
GR ELEV: 6334'



RCVD MAY 19 '09



Last Rig Survey									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
125	8500.00	1.00	183.48	7986.10	-134.16	-1705.89	0.06	180.00	1701.06



Weatherford®

Survey WFT Survey (#72B/1)

Created By: Lindsey Maddux

Date: 5/8/2009



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 5/8/2009	Time: 13:33:33	Page: 1
Field: Rio Arriba Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: #72B, True North		
Site: Rosa Unit #72B	Vertical (TVD) Reference: SITE 6348.0		
Well: #72B	Section (VS) Reference: Well (0.00N,0.00E,271.73Azi)		
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 #72B

2260' FSL 600' FEL of SEC 6 T31N R5W

Site Position:	Northing: 2158910.89 ft	Latitude: 36 55 38.890 N
From: Geographic	Easting: 1305222.61 ft	Longitude: 107 23 48.520 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6334.00 ft		Grid Convergence: -0.69 deg

Well: #72B

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 2158910.89 ft	Latitude: 36 55 38.890 N
+E/-W 0.00 ft	Easting: 1305222.61 ft	Longitude: 107 23 48.520 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 6348.00 ft	Drilled From: Surface
Magnetic Data: 3/31/2009		Tie-on Depth: 0.00 ft
Field Strength: 51188 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)		Declination: 10.02 deg
ft	+N/-S ft	Mag Dip Angle: 63.76 deg
0.00	0.00	+E/-W ft
		Direction deg
		271.73

Survey: WFT Survey

Start Date: 4/13/2009

Company: Weatherford International, Inc

Engineer: Lindsey Maddux

Tool: MWD;MWD - Standard

Tied-to: From Surface

Survey: WFT Survey

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
358.00	0.55	180.39	357.99	-1.72	-0.01	-0.04	0.15	0.15	0.00	MWD
389.00	1.20	225.62	388.99	-2.09	-0.24	0.18	2.91	2.10	145.90	MWD
419.00	1.88	245.66	418.98	-2.52	-0.92	0.84	2.86	2.27	66.80	MWD
450.00	3.24	254.79	449.95	-2.96	-2.23	2.14	4.57	4.39	29.45	MWD
480.00	4.51	260.97	479.88	-3.36	-4.21	4.11	4.45	4.23	20.60	MWD
510.00	6.05	265.55	509.75	-3.67	-6.95	6.84	5.32	5.13	15.27	MWD
541.00	7.38	272.15	540.54	-3.72	-10.57	10.45	4.95	4.29	21.29	MWD
572.00	8.88	275.40	571.23	-3.42	-14.94	14.83	5.06	4.84	10.48	MWD
602.00	10.56	277.77	600.79	-2.83	-19.97	19.88	5.76	5.60	7.90	MWD
633.00	12.06	279.27	631.19	-1.93	-25.98	25.91	4.93	4.84	4.84	MWD
664.00	13.50	279.27	661.42	-0.82	-32.75	32.71	4.65	4.65	0.00	MWD
694.00	14.67	278.48	690.52	0.30	-39.96	39.95	3.95	3.90	-2.63	MWD
725.00	15.69	276.65	720.44	1.37	-48.01	48.03	3.63	3.29	-5.90	MWD
756.00	16.63	276.40	750.21	2.34	-56.58	56.63	3.04	3.03	-0.81	MWD
787.00	17.25	274.02	779.87	3.16	-65.57	65.64	3.00	2.00	-7.68	MWD
818.00	17.81	273.15	809.43	3.74	-74.89	74.97	1.99	1.81	-2.81	MWD
848.00	18.99	272.81	837.89	4.24	-84.35	84.44	3.95	3.93	-1.13	MWD
879.00	20.50	273.02	867.07	4.77	-94.81	94.91	4.88	4.87	0.68	MWD
910.00	22.00	272.52	895.96	5.31	-106.03	106.14	4.87	4.84	-1.61	MWD
940.00	23.38	271.52	923.64	5.72	-117.60	117.71	4.78	4.60	-3.33	MWD
971.00	24.69	271.02	951.95	5.99	-130.22	130.34	4.28	4.23	-1.61	MWD
1000.00	25.93	271.21	978.17	6.24	-142.61	142.74	4.29	4.28	0.66	MWD
1031.00	26.94	271.52	1005.93	6.56	-156.41	156.54	3.29	3.26	1.00	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company:	WILLIAMS PRODUCTION	Date:	5/8/2009	Time:	13:33.33	Page:	2
Field:	Rio Arriba Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #72B, True North				
Site:	Rosa Unit #72B	Vertical (FVD) Reference:	SITE 6348.0				
Well:	#72B	Section (VS) Reference:	Well (0.00N,0.00E;271.73Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Survey: WFT Survey

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
1062.00	27.94	271.27	1033.44	6.91	-170.69	170.82	3.25	3.23	-0.81	MWD
1091.00	28.81	271.77	1058.95	7.28	-184.47	184.60	3.11	3.00	1.72	MWD
1122.00	30.44	271.77	1085.90	7.75	-199.78	199.93	5.26	5.26	0.00	MWD
1152.00	31.94	272.77	1111.56	8.37	-215.31	215.46	5.29	5.00	3.33	MWD
1182.00	33.12	272.84	1136.86	9.16	-231.42	231.59	3.94	3.93	0.23	MWD
1214.00	34.06	272.52	1163.51	9.99	-249.10	249.29	2.99	2.94	-1.00	MWD
1244.00	34.56	271.40	1188.29	10.56	-266.00	266.20	2.68	1.67	-3.73	MWD
1276.00	35.19	271.27	1214.55	10.99	-284.30	284.50	1.98	1.97	-0.41	MWD
1308.00	35.44	271.27	1240.66	11.40	-302.79	303.00	0.78	0.78	0.00	MWD
1340.00	35.45	270.55	1266.73	11.70	-321.34	321.55	1.31	0.03	-2.25	MWD
1372.00	35.50	271.02	1292.79	11.95	-339.91	340.12	0.87	0.16	1.47	MWD
1404.00	35.13	271.27	1318.90	12.32	-358.41	358.62	1.24	-1.16	0.78	MWD
1435.00	35.63	271.02	1344.17	12.68	-376.35	376.56	1.68	1.61	-0.81	MWD
1467.00	36.73	270.91	1370.00	13.00	-395.24	395.45	3.44	3.44	-0.34	MWD
1499.00	36.76	271.91	1395.64	13.47	-414.38	414.60	1.87	0.09	3.12	MWD
1531.00	36.97	271.82	1421.25	14.09	-433.57	433.79	0.68	0.66	-0.28	MWD
1562.00	37.25	272.00	1445.97	14.71	-452.26	452.50	0.97	0.90	0.58	MWD
1594.00	37.32	273.03	1471.43	15.57	-471.63	471.88	1.96	0.22	3.22	MWD
1626.00	37.82	272.10	1496.79	16.44	-491.12	491.39	2.36	1.56	-2.91	MWD
1658.00	37.63	270.99	1522.10	16.97	-510.69	510.97	2.20	-0.59	-3.47	MWD
1690.00	38.07	271.19	1547.37	17.34	-530.32	530.60	1.43	1.37	0.62	MWD
1722.00	37.82	272.53	1572.61	17.98	-549.99	550.28	2.69	-0.78	4.19	MWD
1754.00	38.14	272.83	1597.83	18.90	-569.66	569.97	1.15	1.00	0.94	MWD
1786.00	39.10	272.43	1622.83	19.81	-589.61	589.94	3.10	3.00	-1.25	MWD
1818.00	39.61	272.06	1647.57	20.61	-609.88	610.23	1.75	1.59	-1.16	MWD
1850.00	39.46	272.98	1672.25	21.50	-630.23	630.60	1.89	-0.47	2.87	MWD
1882.00	39.57	272.87	1696.94	22.54	-650.57	650.95	0.41	0.34	-0.34	MWD
1913.00	39.81	273.09	1720.80	23.57	-670.34	670.74	0.90	0.77	0.71	MWD
1945.00	40.28	273.14	1745.29	24.69	-690.90	691.33	1.47	1.47	0.16	MWD
1977.00	39.80	272.21	1769.79	25.65	-711.46	711.91	2.40	-1.50	-2.91	MWD
2009.00	39.91	271.64	1794.36	26.34	-731.96	732.42	1.19	0.34	-1.78	MWD
2041.00	39.91	271.25	1818.90	26.86	-752.48	752.95	0.78	0.00	-1.22	MWD
2073.00	40.09	271.58	1843.42	27.37	-773.04	773.52	0.87	0.56	1.03	MWD
2104.00	40.31	272.10	1867.09	28.01	-793.04	793.53	1.29	0.71	1.68	MWD
2136.00	40.79	271.15	1891.41	28.60	-813.84	814.33	2.44	1.50	-2.97	MWD
2168.00	40.52	270.36	1915.69	28.87	-834.68	835.17	1.82	-0.84	-2.47	MWD
2200.00	40.37	270.55	1940.04	29.04	-855.44	855.93	0.61	-0.47	0.59	MWD
2232.00	40.44	270.95	1964.41	29.31	-876.18	876.67	0.84	0.22	1.25	MWD
2263.00	40.51	271.79	1987.99	29.79	-896.30	896.79	1.77	0.23	2.71	MWD
2295.00	40.67	271.38	2012.29	30.37	-917.11	917.61	0.97	0.50	-1.28	MWD
2327.00	40.90	271.77	2036.52	30.94	-938.00	938.51	1.07	0.72	1.22	MWD
2359.00	41.30	271.59	2060.63	31.56	-959.03	959.55	1.30	1.25	-0.56	MWD
2391.00	40.54	271.00	2084.81	32.03	-979.99	980.51	2.66	-2.37	-1.84	MWD
2421.00	38.95	271.75	2107.88	32.49	-999.16	999.69	5.54	-5.30	2.50	MWD
2453.00	38.84	271.68	2132.78	33.09	-1019.24	1019.78	0.37	-0.34	-0.22	MWD
2484.00	39.21	271.68	2156.87	33.67	-1038.75	1039.30	1.19	1.19	0.00	MWD
2516.00	39.22	271.66	2181.66	34.25	-1058.98	1059.53	0.05	0.03	-0.06	MWD
2548.00	39.14	272.57	2206.46	35.00	-1079.18	1079.74	1.81	-0.25	2.84	MWD
2580.00	39.23	272.31	2231.27	35.86	-1099.38	1099.96	0.59	0.28	-0.81	MWD
2612.00	39.43	272.73	2256.02	36.75	-1119.64	1120.24	1.04	0.62	1.31	MWD
2643.00	39.94	273.09	2279.88	37.76	-1139.41	1140.03	1.80	1.65	1.16	MWD
2675.00	40.13	273.34	2304.38	38.91	-1159.96	1160.61	0.78	0.59	0.78	MWD
2707.00	40.12	272.71	2328.85	40.00	-1180.56	1181.23	1.27	-0.03	-1.97	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: WILLIAMS PRODUCTION
Field: Rio Arriba Co., NM (NAD 83)
Site: Rosa Unit #72B
Well: #72B
Wellpath: 1

Date: 5/8/2009 Time: 13:33:33 Page: 3
Co-ordinate(NE) Reference: Well: #72B, True North
Vertical (TVD) Reference: SITE 6348.0
Section (VS) Reference: Well (0.00N, 0.00E, 271.73Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT Survey

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
2739.00	40.17	273.97	2353.31	41.20	-1201.15	1201.85	2.54	0.16	3.94	MWD
2771.00	40.39	272.30	2377.72	42.33	-1221.81	1222.53	3.44	0.69	-5.22	MWD
2803.00	40.77	272.26	2402.03	43.16	-1242.61	1243.34	1.19	1.19	-0.12	MWD
2835.00	39.87	271.63	2426.42	43.87	-1263.30	1264.05	3.09	-2.81	-1.97	MWD
2866.00	38.81	268.25	2450.40	43.85	-1282.95	1283.68	7.71	-3.42	-10.90	MWD
2898.00	37.76	268.01	2475.52	43.21	-1302.76	1303.47	3.31	-3.28	-0.75	MWD
2930.00	36.46	267.77	2501.04	42.50	-1322.05	1322.74	4.09	-4.06	-0.75	MWD
2962.00	35.47	268.76	2526.94	41.92	-1340.84	1341.49	3.59	-3.09	3.09	MWD
2994.00	34.67	267.21	2553.13	41.28	-1359.21	1359.84	3.74	-2.50	-4.84	MWD
3025.00	34.51	268.94	2578.65	40.69	-1376.80	1377.40	3.21	-0.52	5.58	MWD
3056.00	33.73	269.79	2604.31	40.49	-1394.19	1394.77	2.95	-2.52	2.74	MWD
3088.00	32.81	270.45	2631.07	40.53	-1411.74	1412.32	3.09	-2.87	2.06	MWD
3119.00	31.39	270.96	2657.33	40.73	-1428.21	1428.79	4.66	-4.58	1.65	MWD
3151.00	30.58	271.54	2684.76	41.09	-1444.68	1445.26	2.70	-2.53	1.81	MWD
3182.00	29.70	272.42	2711.57	41.63	-1460.24	1460.83	3.18	-2.84	2.84	MWD
3214.00	28.76	272.83	2739.50	42.34	-1475.85	1476.45	3.00	-2.94	1.28	MWD
3246.00	27.51	272.46	2767.71	43.04	-1490.92	1491.54	3.94	-3.91	-1.16	MWD
3278.00	26.30	270.97	2796.25	43.48	-1505.39	1506.02	4.33	-3.78	-4.66	MWD
3310.00	25.00	269.57	2825.10	43.54	-1519.24	1519.87	4.48	-4.06	-4.37	MWD
3342.00	24.45	268.53	2854.16	43.32	-1532.63	1533.24	2.19	-1.72	-3.25	MWD
3373.00	23.46	267.81	2882.49	42.92	-1545.21	1545.80	3.33	-3.19	-2.32	MWD
3405.00	21.82	268.99	2912.03	42.58	-1557.52	1558.09	5.32	-5.12	3.69	MWD
3436.00	20.65	271.16	2940.92	42.58	-1568.74	1569.31	4.55	-3.77	7.00	MWD
3467.00	19.83	272.80	2970.01	42.95	-1579.46	1580.04	3.22	-2.65	5.29	MWD
3498.00	18.92	273.73	2999.25	43.54	-1589.73	1590.32	3.10	-2.94	3.00	MWD
3529.00	17.22	275.92	3028.72	44.34	-1599.31	1599.92	5.90	-5.48	7.06	MWD
3561.00	16.18	276.45	3059.37	45.33	-1608.45	1609.09	3.28	-3.25	1.66	MWD
3593.00	15.04	274.34	3090.19	46.14	-1617.02	1617.68	3.98	-3.56	-6.59	MWD
3624.00	13.91	271.65	3120.21	46.55	-1624.76	1625.42	4.24	-3.65	-8.68	MWD
3656.00	13.09	269.04	3151.32	46.60	-1632.22	1632.89	3.19	-2.56	-8.16	MWD
3688.00	12.68	267.78	3182.52	46.41	-1639.36	1640.01	1.55	-1.28	-3.94	MWD
3720.00	12.51	267.99	3213.75	46.15	-1646.33	1646.97	0.55	-0.53	0.66	MWD
3752.00	11.85	269.34	3245.03	45.99	-1653.08	1653.71	2.25	-2.06	4.22	MWD
3784.00	10.80	271.90	3276.40	46.05	-1659.36	1660.00	3.64	-3.28	8.00	MWD
3815.00	9.57	273.91	3306.91	46.32	-1664.84	1665.48	4.13	-3.97	6.48	MWD
3846.00	8.81	272.71	3337.51	46.61	-1669.78	1670.42	2.53	-2.45	-3.87	MWD
3877.00	8.34	269.86	3368.17	46.72	-1674.40	1675.04	2.04	-1.52	-9.19	MWD
3908.00	7.73	266.84	3398.86	46.60	-1678.73	1679.37	2.39	-1.97	-9.74	MWD
3940.00	7.21	264.96	3430.59	46.30	-1682.88	1683.51	1.80	-1.62	-5.87	MWD
3971.00	6.72	257.34	3461.36	45.73	-1686.58	1687.20	3.37	-1.58	-24.58	MWD
4003.00	5.39	240.48	3493.19	44.58	-1689.72	1690.30	6.90	-4.16	-52.69	MWD
4035.00	4.55	228.95	3525.07	43.01	-1691.98	1692.51	4.07	-2.62	-36.03	MWD
4066.00	4.37	221.25	3555.97	41.31	-1693.69	1694.17	2.02	-0.58	-24.84	MWD
4097.00	3.54	204.02	3586.90	39.55	-1694.86	1695.28	4.65	-2.68	-55.58	MWD
4129.00	3.52	188.43	3618.84	37.68	-1695.41	1695.77	2.99	-0.06	-48.72	MWD
4141.00	3.48	183.48	3630.82	36.95	-1695.48	1695.82	2.54	-0.33	-41.25	Last WFT Survey
4190.00	3.48	183.48	3679.73	33.98	-1695.66	1695.91	0.00	0.00	0.00	Proj to Bit
8500.00	1.00	183.48	7986.10	-134.16	-1705.89	1701.06	0.06	-0.06	0.00	Last Rig Survey



Weatherford International, Inc.

Survey Report



Weatherford

Company:	WILLIAMS PRODUCTION	Date:	5/8/2009	Time:	13:33:33	Page:	4
Field:	Rio Arriba Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #72B, True North				
Site:	Rosa Unit #72B	Vertical (TVD) Reference:	SITE 6348.0				
Well:	#72B	Section (VS) Reference:	Well (0.00N,0.00E,271.73Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Annotation

MD ft	TVD ft	
4141.00	3630.82	Last WFT Survey
4190.00	3679.73	Proj to Bit
8500.00	7986.10	Last Rig Survey