

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 30-039-30197		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 153C
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6208'

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	17	31N	5W		1115	NORTH	1745	WEST	RIO ARriba

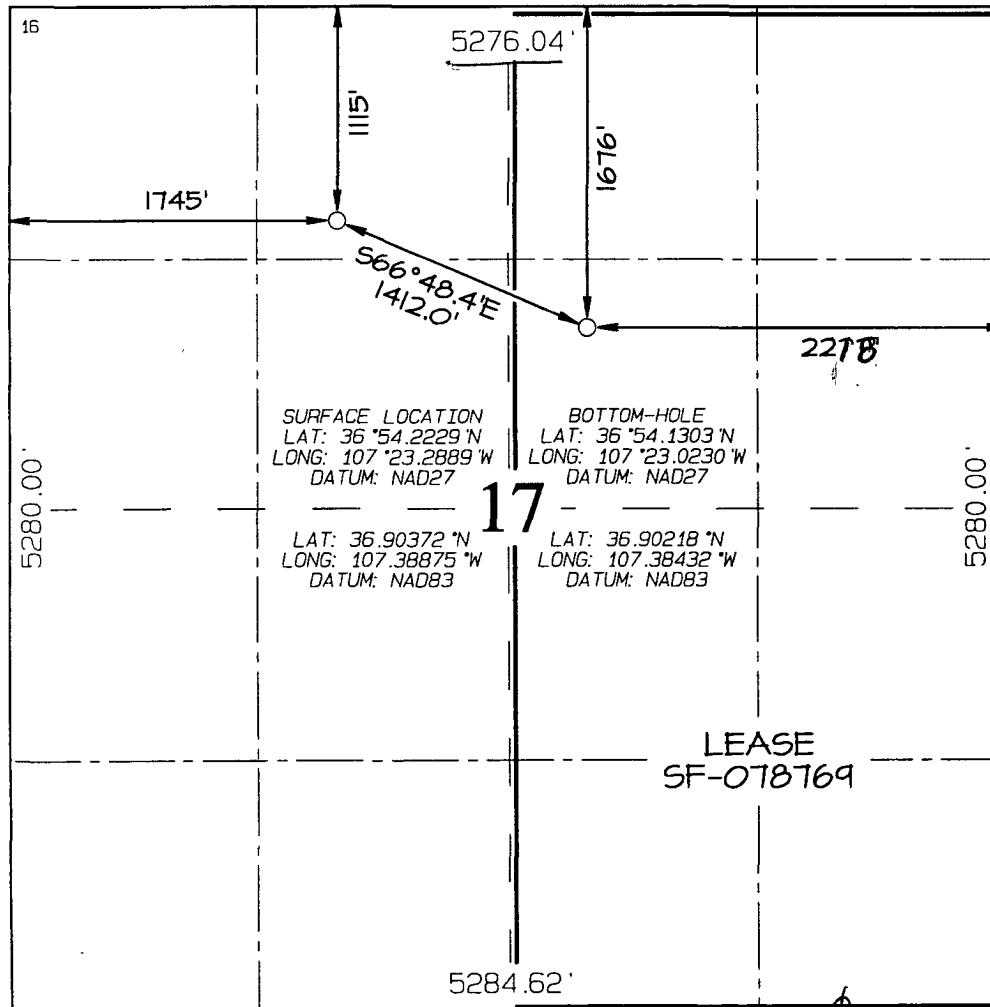
¹¹ Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	17	31N	5W		1676	NORTH	2218	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL 5701 NOV 25 '08 IN 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 11-24-08
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: SEPTEMBER 14, 2006

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269



ROSA UNIT #153-C
RIO ARRIBA CO., NEW MEXICO



Weatherford

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	113.89	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	113.89	400.00	0.00	0.00	0.00	0.00	0.00	
3	1628.66	36.86	113.89	1545.64	-154.61	349.06	3.00	113.89	381.77	
4	2430.53	36.86	113.89	2187.23	-349.42	788.85	0.00	0.00	862.78	
5	3904.92	0.00	113.89	3562.00	-534.96	1207.72	2.50	180.00	1320.90	Int Csg
6	8234.92	0.00	113.89	7892.00	-534.96	1207.72	0.00	113.89	1320.90	PBHL

WELL DETAILS

Name	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
#153C	0.00	0.00	2148587.53	2853083.19	36°54'13.390N	107°23'19.500W	N/A

TARGET DETAILS

Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
Int Csg	3562.00	-534.96	1207.72	36°54'08.100N	107°23'04.630W	Point
Rosa 31	5973.00	15.00	50.00	36°54'13.538N	107°23'18.884W	Point
PBHL	7892.00	-534.96	1207.72	36°54'08.100N	107°23'04.630W	Point

LEGEND

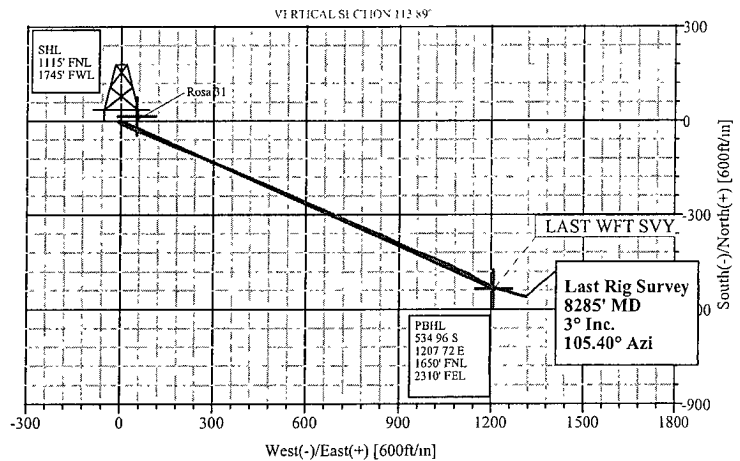
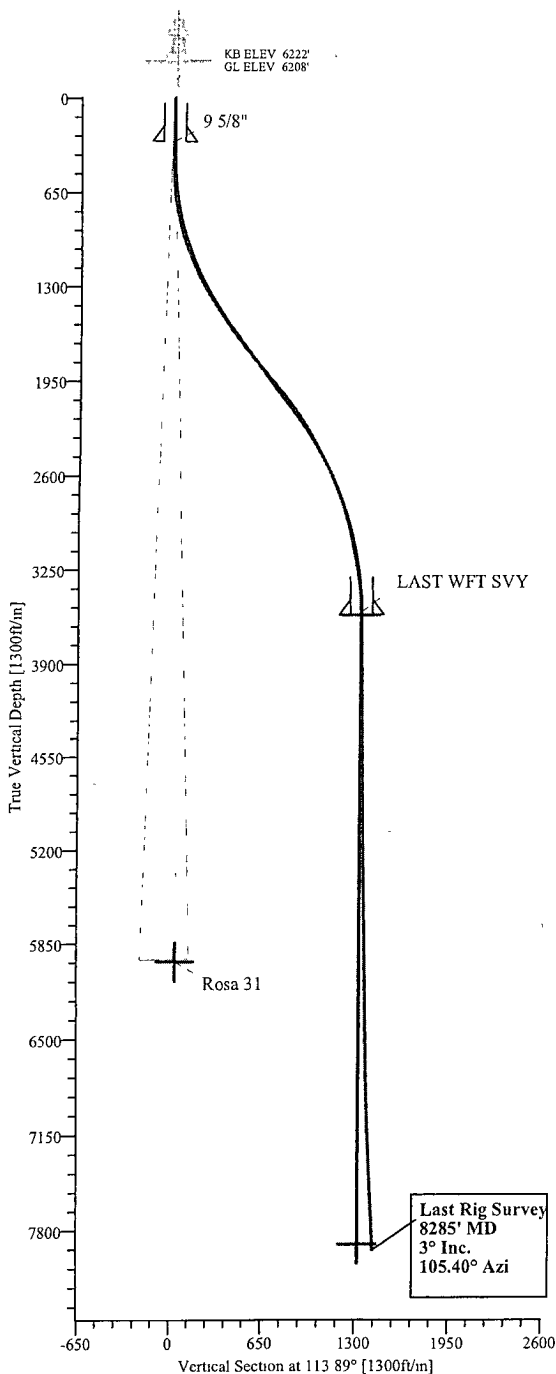
— #153C, 1, Plan #2
— WFT SVY



Azimuths to True North
Magnetic North 10.15°

Magnetic Field
Strength 51193nT
Dip Angle 63.75°
Date 9/30/2008
Model bggm2007

TOTAL CORRECTION TO TRUE NORTH 10.15°



RCVD NOV 25 '08
OIL CONS. DIV.
DIST. 3

SITE DETAILS

Rosa Unit #153C
1115' FNL 1745' FWL of SEC 17, T-31-N, R-5-W
Site Centre Latitude 36°54'13.390N
Longitude 107°23'19.500W
Ground Level 6208.00
Positional Uncertainty 0.00
Convergence 0.27

FIELD DETAILS

Rio Arriba County (NAD 83)
Geodetic System US State Plane Coordinate System 1983
Ellipsoid GRS 1980
Zone New Mexico, Western Zone
Magnetic Model bggm2007
System Datum Mean Sea Level
Local North True North

Survey WFT SVY (#153C/1)

Created By Jayme Wilson Date 10/29/2008



Weatherford International Ltd.

SURVEY REPORT



Weatherford

Company: WILLIAMS PRODUCTION Date: 10/29/2008 Time: 10:00:19 Page: 1
 Field: Rio Arriba County (NAD 83) Co-ordinate(NE) Reference: Well: #153C True North
 Site: Rosa Unit #153C Vertical (TVD) Reference: SITE 6222.0
 Well: #153C Section (VS) Reference: Well (0.00N 0.00E, 113.89Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

Start Date: 10/6/2008

Company: Weatherford International, Inc
 Tool: MWD;MWD - Standard

Engineer: Lindsey Maddux
 Tied-to: From Surface

Field: Rio Arriba County (NAD 83)

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: bggm2007

Site: Rosa Unit #153C

1115' FNL 1745' FWL of SEC 17, T-31-N, R-5-W

Site Position: Northing: 2148587.53 ft Latitude: 36 54 13.390 N
 From: Geographic Easting: 2853083.19 ft Longitude: 107 23 19.500 W
 Position Uncertainty: 0.00 ft North Reference: True
 Ground Level: 6208.00 ft Grid Convergence: 0.27 deg

Well: #153C

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2148587.53 ft Latitude: 36 54 13.390 N
 +E/-W 0.00 ft Easting: 2853083.19 ft Longitude: 107 23 19.500 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface
 Tie-on Depth: 0.00 ft
 Above System Datum: Mean Sea Level
 Declination: 10.15 deg
 Mag Dip Angle: 63.75 deg
 +E/-W Direction
 ft deg

Current Datum: SITE Height 6222.00 ft
 Magnetic Data: 9/30/2008
 Field Strength: 51193 nT
 Vertical Section: Depth From (TVD) +N/-S
 ft ft

0.00 0.00 0.00 113.89

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	Build	Turn	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
349.00	1.81	268.15	348.94	-0.18	-5.51	-4.97	0.52	0.52	0.00	
380.00	1.63	266.90	379.93	-0.22	-6.44	-5.80	0.59	-0.58	-4.03	
411.00	1.25	246.03	410.92	-0.38	-7.19	-6.42	2.07	-1.23	-67.32	
442.00	1.06	219.15	441.91	-0.74	-7.68	-6.72	1.83	-0.61	-86.71	
473.00	1.38	180.90	472.91	-1.33	-7.86	-6.65	2.76	1.03	-123.39	
504.00	2.13	156.53	503.89	-2.24	-7.64	-6.08	3.36	2.42	-78.61	
535.00	2.94	141.40	534.86	-3.39	-6.92	-4.95	3.37	2.61	-48.81	
566.00	3.69	127.03	565.81	-4.61	-5.62	-3.28	3.59	2.42	-46.35	
596.00	4.56	123.53	595.73	-5.85	-3.86	-1.16	3.02	2.90	-11.67	
627.00	5.63	121.03	626.61	-7.31	-1.53	1.56	3.52	3.45	-8.06	
658.00	6.75	117.03	657.43	-8.92	1.40	4.89	3.87	3.61	-12.90	
689.00	8.19	115.40	688.16	-10.70	5.02	8.92	4.69	4.65	-5.26	
720.00	9.44	115.90	718.80	-12.76	9.30	13.67	4.04	4.03	1.61	
751.00	9.88	115.40	749.36	-15.01	13.99	18.87	1.44	1.42	-1.61	
782.00	11.06	115.65	779.84	-17.44	19.07	24.50	3.81	3.81	0.81	
812.00	12.44	114.78	809.21	-20.04	24.60	30.60	4.64	4.60	-2.90	
843.00	13.06	114.40	839.45	-22.88	30.82	37.45	2.02	2.00	-1.23	
874.00	13.81	114.28	869.60	-25.85	37.38	44.65	2.42	2.42	-0.39	
905.00	15.00	112.90	899.62	-28.93	44.45	52.36	4.00	3.84	-4.45	
936.00	15.69	111.53	929.52	-32.03	52.04	60.56	2.51	2.23	-4.42	
968.00	16.81	110.28	960.24	-35.23	60.41	69.50	3.67	3.50	-3.91	
999.00	18.06	111.03	989.81	-38.50	69.10	78.77	4.10	4.03	2.42	
1031.00	19.44	111.65	1020.12	-42.25	78.68	89.05	4.36	4.31	1.94	



Weatherford International Ltd.

SURVEY REPORT



Weatherford

Company: WILLIAMS PRODUCTION Date: 10/29/2008 Time: 10:00:19 Page: 2
 Field: Rio Arriba County (NAD 83) Co-ordinate(NE) Reference: Well: #153C True North
 Site: Rosa Unit #153C Vertical (TVD) Reference: SITE 6222.0
 Well: #153C Section (VS) Reference: Well (0.00N, 0.00E, 113.89Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

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	Comment
1063.00	20.44	111.78	1050.20	-46.29	88.82	99.95	3.13	3.12	0.41	
1095.00	21.06	111.65	1080.12	-50.48	99.35	111.28	1.94	1.94	-0.41	
1126.00	22.31	112.40	1108.93	-54.78	109.97	122.73	4.13	4.03	2.42	
1158.00	23.13	113.53	1138.44	-59.60	121.35	135.09	2.90	2.56	3.53	
1189.00	24.25	113.65	1166.83	-64.59	132.76	147.54	3.62	3.61	0.39	
1220.00	25.44	113.40	1194.96	-69.78	144.70	160.57	3.85	3.84	-0.81	
1252.00	26.63	113.03	1223.71	-75.32	157.61	174.61	3.75	3.72	-1.16	
1281.00	27.31	112.28	1249.56	-80.39	169.75	187.76	2.62	2.34	-2.59	
1313.00	28.38	111.90	1277.85	-86.01	183.60	202.70	3.39	3.34	-1.19	
1344.00	29.81	111.65	1304.94	-91.60	197.60	217.76	4.63	4.61	-0.81	
1376.00	30.31	111.40	1332.64	-97.48	212.51	233.78	1.61	1.56	-0.78	
1408.00	30.50	111.40	1360.24	-103.39	227.59	249.96	0.59	0.59	0.00	
1439.00	31.56	111.65	1386.80	-109.25	242.45	265.92	3.44	3.42	0.81	
1471.00	32.25	112.65	1413.97	-115.63	258.12	282.83	2.72	2.16	3.12	
1502.00	33.00	112.40	1440.07	-122.03	273.55	299.54	2.46	2.42	-0.81	
1534.00	33.63	112.03	1466.82	-128.67	289.83	317.11	2.07	1.97	-1.16	
1566.00	34.63	111.90	1493.30	-135.39	306.48	335.05	3.13	3.12	-0.41	
1598.00	35.94	112.65	1519.42	-142.40	323.58	353.53	4.31	4.09	2.34	
1629.00	36.25	112.78	1544.47	-149.45	340.43	371.78	1.03	1.00	0.42	
1660.00	36.13	113.03	1569.49	-156.57	357.29	390.09	0.61	-0.39	0.81	
1691.00	36.44	113.28	1594.48	-163.79	374.16	408.43	1.11	1.00	0.81	
1723.00	37.63	113.28	1620.02	-171.41	391.86	427.70	3.72	3.72	0.00	
1755.00	38.25	113.03	1645.26	-179.14	409.95	447.38	2.00	1.94	-0.78	
1787.00	38.06	112.15	1670.42	-186.74	428.20	467.14	1.80	-0.59	-2.75	
1816.00	38.25	112.15	1693.23	-193.49	444.80	485.05	0.66	0.66	0.00	
1848.00	38.69	112.40	1718.28	-201.04	463.22	504.95	1.46	1.37	0.78	
1879.00	39.19	112.65	1742.39	-208.50	481.21	524.42	1.69	1.61	0.81	
1911.00	39.13	113.15	1767.21	-216.36	499.83	544.63	1.00	-0.19	1.56	
1941.00	39.44	114.03	1790.43	-223.97	517.24	563.62	2.13	1.03	2.93	
1973.00	39.44	114.28	1815.14	-232.28	535.78	583.95	0.50	0.00	0.78	
2005.00	39.69	114.03	1839.81	-240.63	554.38	604.33	0.93	0.78	-0.78	
2037.00	39.94	114.03	1864.39	-248.97	573.10	624.82	0.78	0.78	0.00	
2068.00	39.81	114.03	1888.18	-257.06	591.25	644.70	0.42	-0.42	0.00	
2100.00	39.88	114.15	1912.75	-265.43	609.97	665.20	0.32	0.22	0.37	
2132.00	40.25	113.15	1937.24	-273.69	628.83	685.80	2.32	1.16	-3.12	
2163.00	40.56	112.90	1960.85	-281.55	647.33	705.89	1.13	1.00	-0.81	
2195.00	40.31	113.65	1985.20	-289.75	666.39	726.64	1.71	-0.78	2.34	
2225.00	39.50	113.78	2008.21	-297.49	684.01	745.89	2.71	-2.70	0.43	
2257.00	38.63	114.15	2033.06	-305.68	702.44	766.05	2.81	-2.72	1.16	
2289.00	37.81	114.03	2058.20	-313.76	720.51	785.85	2.57	-2.56	-0.37	
2321.00	36.94	113.03	2083.63	-321.52	738.32	805.28	3.32	-2.72	-3.12	
2351.00	36.63	112.78	2107.66	-328.51	754.87	823.24	1.15	-1.03	-0.83	
2383.00	35.94	112.78	2133.45	-335.84	772.33	842.17	2.16	-2.16	0.00	
2414.00	35.00	112.03	2158.70	-342.70	788.96	860.15	3.34	-3.03	-2.42	
2446.00	34.44	112.53	2185.00	-349.61	805.82	878.37	1.96	-1.75	1.56	
2477.00	33.56	112.90	2210.70	-356.30	821.82	895.70	2.92	-2.84	1.19	
2509.00	32.81	113.40	2237.48	-363.19	837.92	913.22	2.49	-2.34	1.56	
2541.00	31.75	114.65	2264.54	-370.14	853.53	930.30	3.91	-3.31	3.91	
2573.00	30.13	115.15	2291.98	-377.07	868.45	946.75	5.13	-5.06	1.56	
2604.00	29.25	115.65	2318.91	-383.66	882.32	962.10	2.95	-2.84	1.61	
2636.00	29.56	115.78	2346.79	-390.47	896.48	977.81	0.99	0.97	0.41	
2667.00	28.88	116.15	2373.84	-397.10	910.08	992.93	2.27	-2.19	1.19	



Weatherford International Ltd.

SURVEY REPORT



Weatherford

Company: WILLIAMS PRODUCTION
Field: Rio Arriba County (NAD 83)
Site: Rosa Unit #153C
Well: #153C
Wellpath: 1

Date: 10/29/2008 Time: 10:00:19 Page: 3
Co-ordinate(NE) Reference: Well: #153C True North
Vertical (TVD) Reference: SITE 6222.0
Section (VS) Reference: Well (0.00N,0.00E,113.89Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

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	Comment
2699.00	28.38	114.40	2401.93	-403.65	923.95	1008.26	3.05	-1.56	-5.47	
2729.00	28.19	113.15	2428.35	-409.38	936.96	1022.47	2.07	-0.63	-4.17	
2761.00	28.19	111.40	2456.56	-415.11	950.94	1037.58	2.58	0.00	-5.47	
2791.00	27.56	109.90	2483.07	-420.05	964.07	1051.58	3.14	-2.10	-5.00	
2823.00	26.63	109.65	2511.56	-424.99	977.78	1066.12	2.93	-2.91	-0.78	
2854.00	26.25	109.53	2539.32	-429.61	990.78	1079.88	1.24	-1.23	-0.39	
2885.00	25.63	110.28	2567.20	-434.23	1003.54	1093.41	2.26	-2.00	2.42	
2916.00	24.63	113.03	2595.26	-439.08	1015.77	1106.56	4.96	-3.23	8.87	
2948.00	23.19	112.40	2624.52	-444.09	1027.73	1119.53	4.57	-4.50	-1.97	
2977.00	22.94	112.78	2651.20	-448.45	1038.22	1130.89	1.00	-0.86	1.31	
3008.00	22.56	112.78	2679.79	-453.10	1049.27	1142.87	1.23	-1.23	0.00	
3040.00	21.19	114.65	2709.48	-457.89	1060.19	1154.79	4.80	-4.28	5.84	
3070.00	20.38	114.90	2737.53	-462.35	1069.86	1165.44	2.72	-2.70	0.83	
3100.00	19.63	115.53	2765.72	-466.72	1079.14	1175.70	2.60	-2.50	2.10	
3132.00	19.50	115.40	2795.87	-471.32	1088.82	1186.41	0.43	-0.41	-0.41	
3163.00	18.63	114.78	2825.17	-475.62	1097.99	1196.53	2.88	-2.81	-2.00	
3194.00	17.38	113.78	2854.65	-479.56	1106.72	1206.12	4.15	-4.03	-3.23	
3226.00	16.19	115.03	2885.29	-483.38	1115.14	1215.36	3.89	-3.72	3.91	
3256.00	15.38	116.65	2914.16	-486.93	1122.48	1223.51	3.07	-2.70	5.40	
3287.00	13.63	118.65	2944.17	-490.53	1129.36	1231.26	5.87	-5.65	6.45	
3319.00	12.63	119.65	2975.33	-494.06	1135.71	1238.50	3.20	-3.12	3.12	
3350.00	12.69	120.40	3005.58	-497.46	1141.59	1245.25	0.56	0.19	2.42	
3382.00	12.30	121.40	3036.82	-501.02	1147.53	1252.12	1.39	-1.22	3.12	
3414.00	12.25	119.65	3068.09	-504.47	1153.39	1258.88	1.17	-0.16	-5.47	
3445.00	12.13	116.90	3098.39	-507.57	1159.16	1265.40	1.91	-0.39	-8.87	
3477.00	11.63	114.53	3129.70	-510.43	1165.09	1271.99	2.18	-1.56	-7.41	
3508.00	11.00	113.65	3160.10	-512.92	1170.64	1278.07	2.11	-2.03	-2.84	
3540.00	10.38	110.65	3191.55	-515.16	1176.14	1284.00	2.60	-1.94	-9.37	
3572.00	9.69	113.78	3223.06	-517.26	1181.30	1289.57	2.75	-2.16	9.78	
3603.00	9.38	115.78	3253.63	-519.41	1185.96	1294.71	1.46	-1.00	6.45	
3636.00	9.38	115.78	3286.19	-521.75	1190.80	1300.08	0.00	0.00	0.00	
3698.00	8.38	117.53	3347.44	-526.04	1199.36	1309.64	1.67	-1.61	2.82	
3729.00	6.75	118.65	3378.17	-527.96	1202.96	1313.71	5.28	-5.26	3.61	
3760.00	5.25	120.15	3409.00	-529.54	1205.79	1316.94	4.86	-4.84	4.84	
3789.00	3.88	117.78	3437.91	-530.67	1207.80	1319.23	4.77	-4.72	-8.17	
3820.00	2.50	120.03	3468.86	-531.49	1209.32	1320.95	4.47	-4.45	7.26	
3850.00	1.44	126.40	3498.84	-532.04	1210.19	1321.97	3.60	-3.53	21.23	
3882.00	1.06	109.03	3530.83	-532.38	1210.79	1322.66	1.66	-1.19	-54.28	
3894.00	0.63	105.40	3542.83	-532.43	1210.96	1322.83	3.61	-3.58	-30.25	LAST WFT SVY
3946.00	0.63	105.40	3594.83	-532.58	1211.51	1323.40	0.00	0.00	0.00	PROJ. TO BIT
5735.00	1.00	105.40	5383.65	-539.34	1236.04	1348.57	0.02	0.02	0.00	
6252.00	1.00	105.40	5900.57	-541.74	1244.74	1357.49	0.00	0.00	0.00	
6728.00	1.00	105.40	6376.49	-543.94	1252.75	1365.71	0.00	0.00	0.00	
7237.00	2.00	105.40	6885.31	-547.48	1265.60	1378.89	0.20	0.20	0.00	
7706.00	2.75	105.40	7353.91	-552.64	1284.33	1398.11	0.16	0.16	0.00	
7888.00	3.00	105.40	7535.68	-555.07	1293.13	1407.14	0.14	0.14	0.00	
8285.00	3.00	105.40	7932.13	-560.59	1313.16	1427.69	0.00	0.00	0.00	LAST RIG SVY



Weatherford International Ltd.

SURVEY REPORT



Weatherford

Company:	WILLIAMS PRODUCTION	Date:	10/29/2008	Time:	10:00:19	Page:	4
Field:	Rio Arriba County (NAD 83)	Co-ordinate(NE) Reference:	Well: #153C, True North				
Site:	Rosa Unit #153C	Vertical (TVD) Reference:	SITE 6222.0				
Well:	#153C	Section (VS) Reference:	Well (0.00N, 0.00E, 113.89Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature		Db:	Sybase	

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
300.04	300.00	9.625	12.250	9 5/8"
3913.17	3562.00	0.000	0.000	Int. Csg.

Annotation

MD ft	TVD ft	
3894.00	3542.83	LAST WFT SVY
3946.00	3594.83	PROJ. TO BIT
8285.00	7932.13	LAST RIG SVY