

Form C-102
Revised October 12, 2005
Instructions on back
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT "As Drilled"

'API Number 30-039-30775	'Pool Code 97232 / 72319 / 71599	'Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
'Property Code 17033	'Property Name ROSA UNIT COM	'Well Number 129D
'OGRID No. 120782	'Operator Name WILLIAMS PRODUCTION COMPANY	'Elevation 6361'

¹⁰ Surface Location

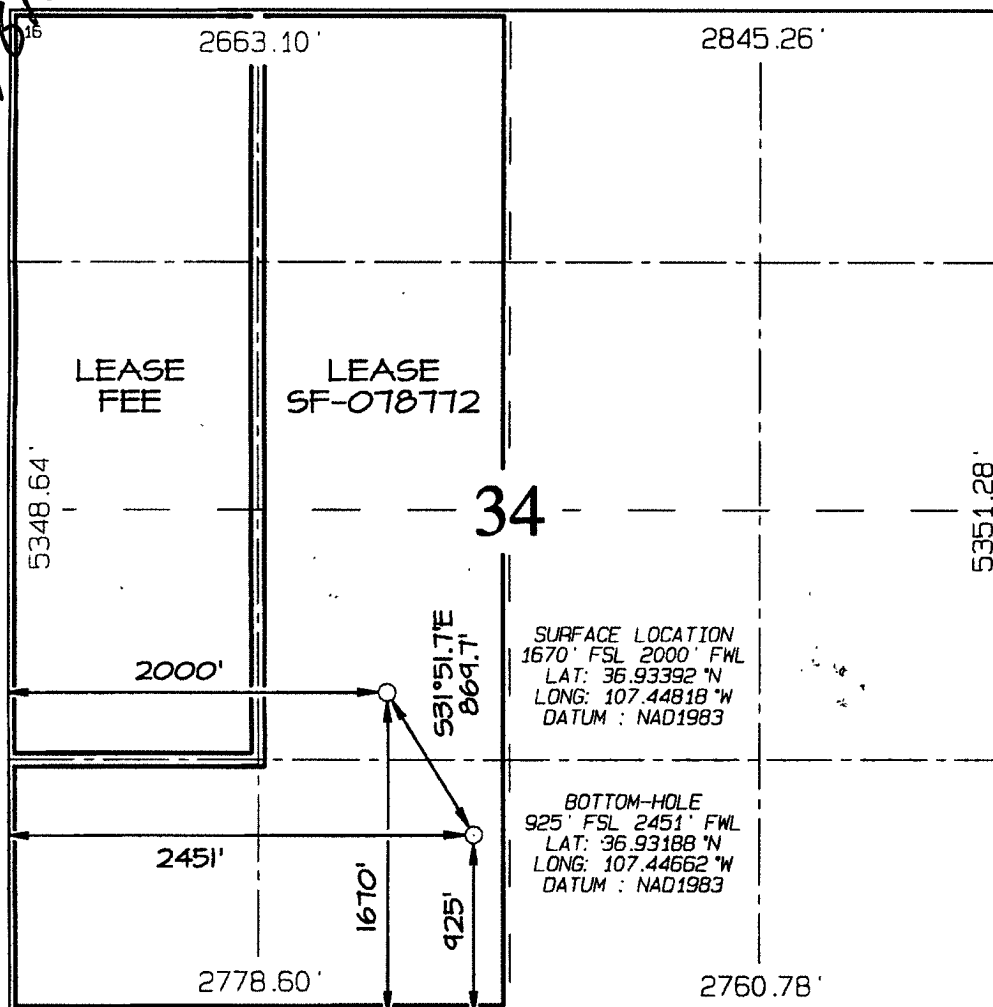
UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
K	34	32N	6W		1670	SOUTH	2000	WEST	RIO ARRIBA

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
N	34	32N	6W		925	SOUTH	2451	WEST	RIO ARRIBA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.	APPROVAL
320.0 Acres - (W/2)				RCVD SEP 4 '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 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.

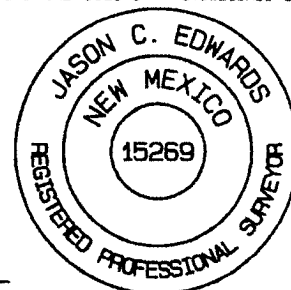
Heather Riley 9/14/09
Signature Date
Heather Riley
Printed Name

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: SEPTEMBER 2, 2009
Survey Date: DECEMBER 13, 2008

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

HOLD C104 FOR NSL



ROSA UNIT #129D COM
RIO ARriba CO., NEW MEXICO

30-039-30775

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	148.83	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	148.83	400.00	0.00	0.00	0.00	0.00	0.00	
3	1051.18	19.54	148.83	1038.64	-94.07	56.90	3.00	148.83	109.94	
4	2429.62	19.54	148.83	2337.72	-488.49	295.43	0.00	0.00	570.88	
5	3731.98	0.00	148.83	3615.00	-676.63	409.23	1.50	180.00	790.76	Int. Csg. Pt.
6	8161.98	0.00	148.83	8045.00	-676.63	409.23	0.00	0.00	790.76	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#129D COM	0.00	0.00	2161443.85	1290236.93	36°56'02.110N	107°26'53.450W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Int. Csg. Pt.	3615.00	-676.63	409.23	2160762.12	1290637.62	36°55'55.420N	107°26'48.410W	Point
PBHL	8045.00	-676.63	409.23	2160762.12	1290637.62	36°55'55.420N	107°26'48.410W	Point

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	2340.00	2432.03	Ojo Alamo Ss.
2	2450.00	2548.12	Kirtland Sh.
3	2875.00	2987.27	Fruitland Fm.
4	3140.00	3255.75	Pictured Cliffs Ss.
5	3465.00	3581.94	Lewis Sh.
6	5070.00	5186.98	Cliff House Ss. Trans.
7	5385.00	5501.98	Cliff House Ss.
8	5435.00	5551.98	Menefee Fm.
9	5630.00	5746.98	Point Lookout Ss.
10	6000.00	6116.98	Mancos Sh.
11	6995.00	7111.98	Gallup Ss.
12	7720.00	7836.98	Greenhorn Ls.
13	7780.00	7896.98	Graneros Ss.
14	7915.00	8031.98	Dakota Ss.



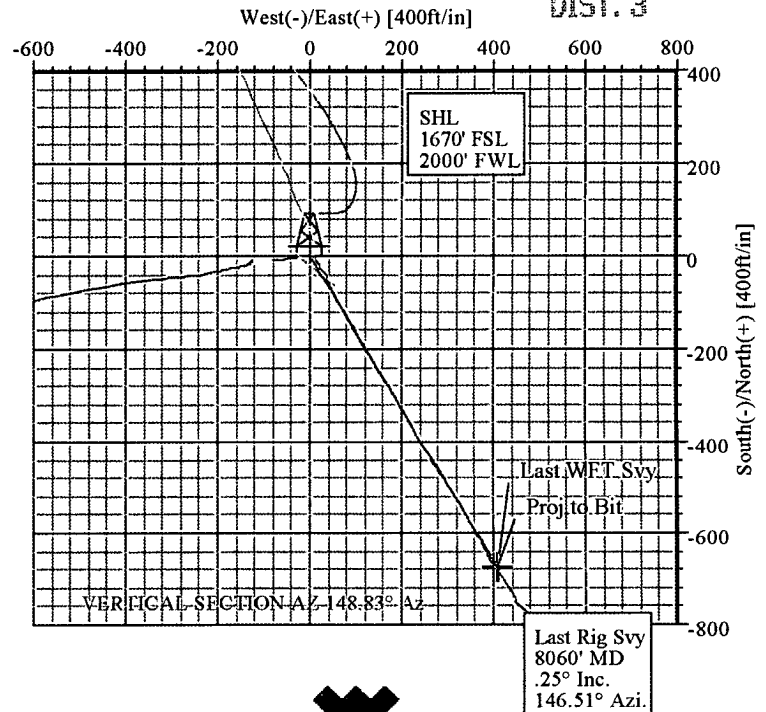
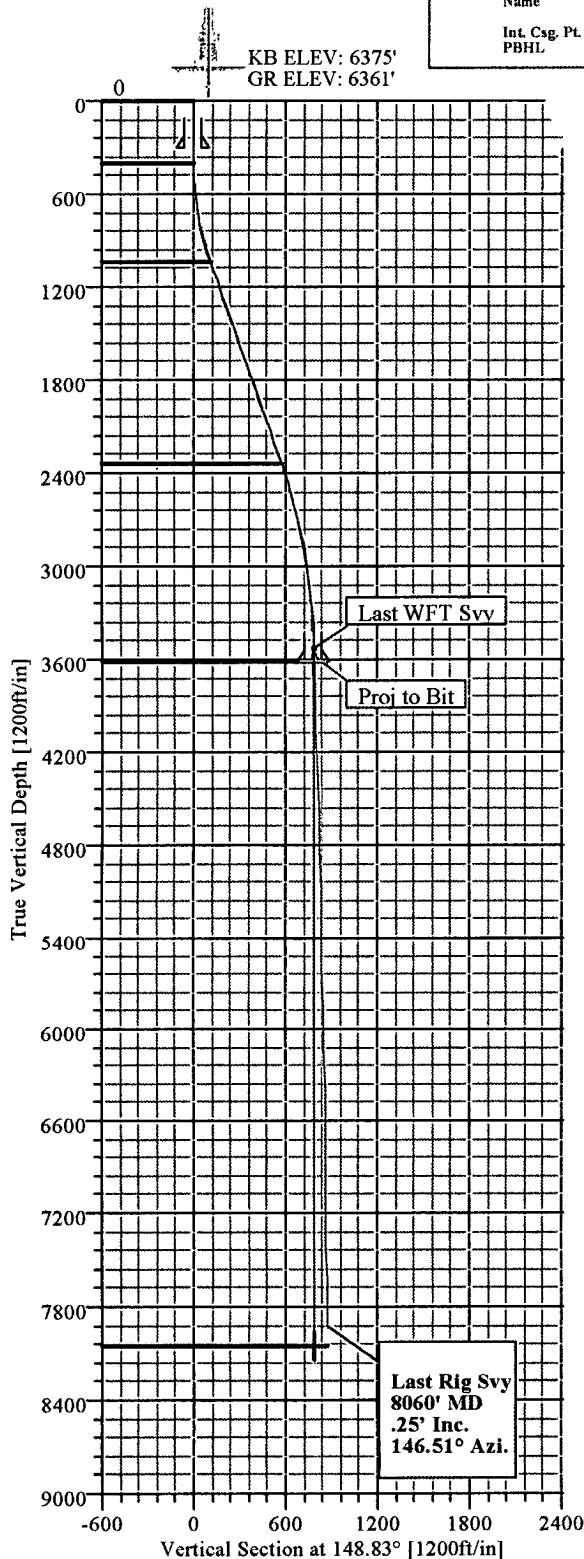
Azimuths to True North
Magnetic North 10.03°

Magnetic Field
Strength 51173nT
Dip Angle 63.75°
Date: 5/14/2009
Model igrf200510

Total Correction to True North: 10.03°

LEGEND

- #129C (1)
- Rosa Unit #129 (1)
- Rosa Unit #129A (1)
- Rosa Unit #129B (1)
- Rosa Unit #358 (1)
- 1
- Plan #1



Weatherford®

CASING DETAILS

No.	TVD	MD	Name	Size
1	300.00	300.00	10 3/4"	10.750
2	3615.00	3731.98	7 5/8" Int. Csg. Pt.	0.000

Plan: Plan #1 (#129D COM/1)

Created By: Lindsey Maddux

Date: 8/31/2009



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 8/31/2009	Time: 14:57:19	Page: 1
Field: RIO ARRIBA CO. NM (NAD 83)	Co-ordinate(NE) Reference: Well: #129D COM, True North		
Site: Rosa Unit #129D COM	Vertical (TVD) Reference: SITE 6375.0		
Well: #129D COM	Section (VS) Reference: Well (0.00N,0.00E,148.83Azi)		
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 #129D COM

1670' FSL 2000' FWL of SEC 34 T32N R6W

Site Position:	Northing: 2161443.85 ft	Latitude: 36 56 2.110 N
From: Geographic	Easting: 1290236.93 ft	Longitude: 107 26 53.450 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6361.00 ft		Grid Convergence: -0.72 deg

Well: #129D COM

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 2161443.85 ft	Latitude: 36 56 2.110 N
+E/-W 0.00 ft	Easting: 1290236.93 ft	Longitude: 107 26 53.450 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 6375.00 ft	Drilled From: Surface
Magnetic Data: 5/14/2009		Tie-on Depth: 0.00 ft
Field Strength: 51173 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)		Declination: 10.03 deg
ft	+N/-S ft	Mag Dip Angle: 63.75 deg
	+E/-W ft	Direction deg
0.00	0.00	0.00 148.83

Survey: WFT SVY

Start Date: 8/12/2009

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	148.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
348.00	1.31	70.76	347.97	1.31	3.76	0.82	0.38	0.38	0.00	MWD
390.00	1.38	87.39	389.96	1.49	4.71	1.16	0.94	0.17	39.60	MWD
421.00	1.75	104.39	420.95	1.39	5.55	1.68	1.90	1.19	54.84	MWD
452.00	2.25	118.39	451.93	0.98	6.54	2.54	2.24	1.61	45.16	MWD
482.00	2.94	129.89	481.90	0.21	7.65	3.78	2.87	2.30	38.33	MWD
513.00	3.88	138.39	512.84	-1.08	8.95	5.56	3.44	3.03	27.42	MWD
543.00	4.81	142.14	542.76	-2.83	10.40	7.81	3.24	3.10	12.50	MWD
574.00	5.81	146.14	573.62	-5.16	12.07	10.67	3.44	3.23	12.90	MWD
605.00	6.69	149.01	604.44	-8.02	13.88	14.04	3.01	2.84	9.26	MWD
636.00	7.31	151.01	635.21	-11.29	15.76	17.82	2.15	2.00	6.45	MWD
667.00	8.06	151.14	665.93	-14.92	17.77	21.96	2.42	2.42	0.42	MWD
697.00	8.69	150.14	695.61	-18.72	19.91	26.33	2.16	2.10	-3.33	MWD
728.00	9.44	148.26	726.22	-22.92	22.41	31.21	2.60	2.42	-6.06	MWD
758.00	10.63	147.39	755.76	-27.34	25.20	36.44	4.00	3.97	-2.90	MWD
788.00	12.19	148.64	785.17	-32.38	28.34	42.37	5.26	5.20	4.17	MWD
819.00	13.69	150.51	815.38	-38.36	31.85	49.31	5.02	4.84	6.03	MWD
850.00	14.69	151.39	845.43	-45.01	35.54	56.90	3.30	3.23	2.84	MWD
881.00	15.50	151.39	875.36	-52.10	39.40	64.97	2.61	2.61	0.00	MWD
912.00	15.88	151.76	905.21	-59.47	43.39	73.34	1.27	1.23	1.19	MWD
943.00	16.56	151.89	934.97	-67.10	47.48	81.99	2.20	2.19	0.42	MWD
973.00	16.94	152.89	963.70	-74.76	51.49	90.62	1.59	1.27	3.33	MWD
1003.00	17.25	152.76	992.38	-82.61	55.51	99.42	1.04	1.03	-0.43	MWD
1033.00	17.75	152.01	1020.99	-90.60	59.70	108.42	1.83	1.67	-2.50	MWD



Weatherford International, Inc.

Survey Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 8/31/2009	Time: 14:57:19	Page: 2
Field: RIO ARRIBA CO NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #129D COM, True North	
Site: Rosa Unit #129D COM	Vertical (TVD) Reference:	SITE 6375.0	
Well: #129D COM	Section (VS) Reference:	Well (0.00N,0.00E,148.83Azi)	
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
1063.00	17.81	151.89	1049.55	-98.69	64.00	117.57	0.23	0.20	-0.40	MWD
1093.00	18.63	151.14	1078.05	-106.93	68.48	126.94	2.84	2.73	-2.50	MWD
1124.00	19.06	150.89	1107.39	-115.69	73.33	136.94	1.41	1.39	-0.81	MWD
1154.00	19.19	150.51	1135.73	-124.26	78.14	146.77	0.60	0.43	-1.27	MWD
1185.00	19.06	150.14	1165.02	-133.08	83.17	156.92	0.57	-0.42	-1.19	MWD
1216.00	19.44	148.89	1194.29	-141.89	88.36	167.14	1.81	1.23	-4.03	MWD
1248.00	19.63	148.01	1224.45	-151.01	93.95	177.84	1.09	0.59	-2.75	MWD
1279.00	19.69	147.76	1253.64	-159.84	99.50	188.27	0.33	0.19	-0.81	MWD
1311.00	19.25	149.64	1283.81	-168.95	105.04	198.93	2.39	-1.37	5.87	MWD
1343.00	19.38	149.89	1314.01	-178.10	110.37	209.51	0.48	0.41	0.78	MWD
1374.00	19.44	150.26	1343.25	-187.03	115.51	219.81	0.44	0.19	1.19	MWD
1406.00	19.88	150.14	1373.38	-196.37	120.86	230.58	1.38	1.37	-0.37	MWD
1438.00	19.88	150.14	1403.47	-205.81	126.28	241.45	0.00	0.00	0.00	MWD
1469.00	19.44	149.76	1432.67	-214.83	131.50	251.88	1.48	-1.42	-1.23	MWD
1501.00	19.63	149.14	1462.82	-224.05	136.94	262.58	0.88	0.59	-1.94	MWD
1532.00	19.44	150.14	1492.04	-232.99	142.18	272.95	1.24	-0.61	3.23	MWD
1563.00	19.38	149.51	1521.28	-241.90	147.36	283.25	0.70	-0.19	-2.03	MWD
1595.00	19.31	149.64	1551.47	-251.04	152.73	293.85	0.26	-0.22	0.41	MWD
1627.00	19.38	149.51	1581.67	-260.18	158.09	304.44	0.26	0.22	-0.41	MWD
1659.00	19.38	148.89	1611.85	-269.30	163.53	315.06	0.64	0.00	-1.94	MWD
1691.00	19.38	148.76	1642.04	-278.39	169.03	325.68	0.13	0.00	-0.41	MWD
1723.00	19.56	147.76	1672.21	-287.46	174.64	336.35	1.18	0.56	-3.12	MWD
1754.00	19.88	147.89	1701.39	-296.31	180.21	346.81	1.04	1.03	0.42	MWD
1786.00	20.00	147.76	1731.47	-305.55	186.02	357.72	0.40	0.37	-0.41	MWD
1818.00	20.25	148.65	1761.52	-314.91	191.82	368.73	1.24	0.78	2.78	MWD
1849.00	20.13	149.01	1790.61	-324.06	197.36	379.43	0.56	-0.39	1.16	MWD
1881.00	19.44	150.26	1820.73	-333.40	202.83	390.26	2.53	-2.16	3.91	MWD
1913.00	19.39	150.27	1850.91	-342.64	208.11	400.89	0.16	-0.16	0.03	MWD
1945.00	19.31	149.76	1881.10	-351.82	213.41	411.49	0.58	-0.25	-1.59	MWD
1977.00	19.81	149.26	1911.25	-361.06	218.85	422.20	1.65	1.56	-1.56	MWD
2009.00	19.88	149.76	1941.35	-370.42	224.36	433.06	0.57	0.22	1.56	MWD
2041.00	19.75	150.01	1971.46	-379.80	229.80	443.91	0.48	-0.41	0.78	MWD
2072.00	19.75	151.14	2000.63	-388.92	234.95	454.38	1.23	0.00	3.65	MWD
2104.00	19.56	150.26	2030.77	-398.31	240.21	465.14	1.10	-0.59	-2.75	MWD
2136.00	19.50	150.26	2060.93	-407.60	245.52	475.83	0.19	-0.19	0.00	MWD
2168.00	19.81	149.76	2091.06	-416.92	250.90	486.59	1.10	0.97	-1.56	MWD
2199.00	19.88	148.51	2120.22	-425.95	256.30	497.12	1.39	0.23	-4.03	MWD
2231.00	19.81	148.14	2150.32	-435.20	262.00	507.98	0.45	-0.22	-1.16	MWD
2262.00	19.94	147.89	2179.48	-444.14	267.59	518.52	0.50	0.42	-0.81	MWD
2293.00	20.39	147.77	2208.57	-453.18	273.28	529.20	1.46	1.45	-0.39	MWD
2325.00	19.81	147.76	2238.63	-462.48	279.14	540.20	1.81	-1.81	-0.03	MWD
2357.00	19.56	147.39	2268.76	-471.58	284.92	550.97	0.87	-0.78	-1.16	MWD
2388.00	19.50	146.39	2297.97	-480.26	290.58	561.33	1.10	-0.19	-3.23	MWD
2420.00	18.88	147.01	2328.19	-489.05	296.36	571.84	2.04	-1.94	1.94	MWD
2452.00	18.63	147.26	2358.49	-497.70	301.94	582.13	0.82	-0.78	0.78	MWD
2484.00	18.31	147.14	2388.85	-506.22	307.43	592.26	1.01	-1.00	-0.37	MWD
2516.00	17.69	147.64	2419.28	-514.55	312.76	602.14	2.00	-1.94	1.56	MWD
2548.00	17.19	147.51	2449.81	-522.64	317.90	611.73	1.57	-1.56	-0.41	MWD
2580.00	17.19	148.76	2480.38	-530.67	322.90	621.19	1.15	0.00	3.91	MWD
2611.00	17.00	150.47	2510.01	-538.53	327.51	630.30	1.73	-0.61	5.52	MWD
2643.00	16.69	150.26	2540.64	-546.59	332.09	639.57	0.99	-0.97	-0.66	MWD
2674.00	15.31	150.51	2570.44	-554.02	336.31	648.11	4.46	-4.45	0.81	MWD
2706.00	13.88	150.39	2601.40	-561.04	340.29	656.17	4.47	-4.47	-0.37	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: WILLIAMS PRODUCTION	Date: 8/31/2009	Time: 14:57:19	Page: 3
Field: RIO ARriba CO. NM (NAD 83)	Co-ordinate(NE) Reference: Well: #129D COM, True North		
Site: Rosa Unit #129D COM	Vertical (TVD) Reference: SITE 6375.0		
Well: #129D COM	Section (VS) Reference: Well (0.00N,0.00E,148.83Azi)		
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
2738.00	13.19	150.39	2632.51	-567.55	343.99	663.66	2.16	-2.16	0.00	MWD
2769.00	12.50	150.26	2662.74	-573.54	347.40	670.55	2.23	-2.23	-0.42	MWD
2800.00	12.56	149.89	2693.00	-579.36	350.76	677.27	0.32	0.19	-1.19	MWD
2832.00	12.69	150.76	2724.23	-585.44	354.22	684.26	0.72	0.41	2.72	MWD
2864.00	12.13	153.01	2755.48	-591.50	357.46	691.13	2.31	-1.75	7.03	MWD
2895.00	11.63	152.51	2785.81	-597.18	360.38	697.49	1.65	-1.61	-1.61	MWD
2927.00	11.69	150.26	2817.15	-602.86	363.48	703.95	1.43	0.19	-7.03	MWD
2959.00	11.63	150.14	2848.49	-608.47	366.69	710.42	0.20	-0.19	-0.37	MWD
2991.00	11.69	149.51	2879.83	-614.06	369.95	716.89	0.44	0.19	-1.97	MWD
3023.00	11.25	151.39	2911.19	-619.59	373.09	723.25	1.80	-1.37	5.87	MWD
3054.00	10.25	152.39	2941.65	-624.69	375.81	729.02	3.28	-3.23	3.23	MWD
3086.00	9.63	151.26	2973.17	-629.56	378.42	734.54	2.03	-1.94	-3.53	MWD
3118.00	8.81	150.14	3004.76	-634.03	380.93	739.66	2.62	-2.56	-3.50	MWD
3148.00	8.31	148.01	3034.42	-637.86	383.22	744.12	1.97	-1.67	-7.10	MWD
3180.00	7.69	147.39	3066.11	-641.63	385.60	748.58	1.96	-1.94	-1.94	MWD
3212.00	7.19	152.64	3097.84	-645.21	387.67	752.72	2.64	-1.56	16.41	MWD
3243.00	6.89	156.16	3128.61	-648.63	389.31	756.50	1.69	-0.97	11.35	MWD
3274.00	6.69	157.64	3159.39	-652.01	390.75	760.12	0.86	-0.65	4.77	MWD
3305.00	6.63	156.39	3190.18	-655.32	392.16	763.68	0.51	-0.19	-4.03	MWD
3336.00	6.25	153.76	3220.98	-658.47	393.62	767.14	1.55	-1.23	-8.48	MWD
3368.00	5.56	151.51	3252.81	-661.39	395.13	770.42	2.27	-2.16	-7.03	MWD
3399.00	4.56	147.01	3283.69	-663.75	396.52	773.15	3.47	-3.23	-14.52	MWD
3431.00	3.81	141.14	3315.61	-665.64	397.88	775.48	2.70	-2.34	-18.34	MWD
3462.00	3.38	140.26	3346.55	-667.15	399.11	777.40	1.40	-1.39	-2.84	MWD
3494.00	3.25	141.64	3378.49	-668.58	400.27	779.24	0.48	-0.41	4.31	MWD
3525.00	3.00	142.64	3409.45	-669.92	401.31	780.91	0.83	-0.81	3.23	MWD
3556.00	2.69	145.00	3440.41	-671.16	402.22	782.45	1.07	-1.00	7.61	MWD
3587.00	2.56	147.64	3471.38	-672.34	403.01	783.86	0.57	-0.42	8.52	MWD
3618.00	2.31	146.14	3502.35	-673.44	403.73	785.18	0.83	-0.81	-4.84	MWD
3642.00	1.94	146.51	3526.33	-674.18	404.22	786.07	1.54	-1.54	1.54	Last WFT Svy
3694.00	1.94	146.51	3578.30	-675.65	405.19	787.83	0.00	0.00	0.00	Proj to Bit
8060.00	0.25	146.51	7943.35	-745.23	451.23	871.19	0.04	-0.04	0.00	Last Rig Svy

Annotation

MD ft	TVD ft	
3642.00	3526.33	Last WFT Svy
3694.00	3578.30	Proj to Bit
8060.00	7943.35	Last Rig Svy