

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 23 2011

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter and manage an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.

NMSF-078771

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No
Rosa Unit

8. Well Name and No
Rosa Unit #14D

9. API Well No.
30-039-31054

10. Field and Pool or Exploratory Area
Blanco Mesaverde/Basin Dakota

11. Country or Parish, State
Rio Arriba, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Williams Production Company, LLC

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

505-634-4208

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)

Surf. 1020' FNL & 1515' FEL, section 23, T31N, R6W

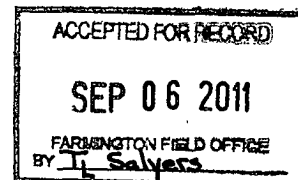
Bhl. 418' FNL & 347' FEL

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>BHL ADJUSTED</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams Production would like to update the adjusted BHL on this well. Due to surveyed data per attached As-Drilled Plat.



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

Name (Printed/Typed)

Larry Higgins

Title PERMT SUPERVISOR

Signature

Date 8/22/2011

RCVD SEP 06 11

OIL CONS. DIV.

DIST. 3

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCD A

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

*API Number 30-089-31054	*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 14D
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6287'

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	23	31N	6W		1020	NORTH	1515	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
A	23	31N	6W		418	NORTH	347	EAST	RIO ARriba

¹² Dedicated Acres	320.0 Acres (E/2) - MV	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
	320.0 Acres (N/2) - DK			

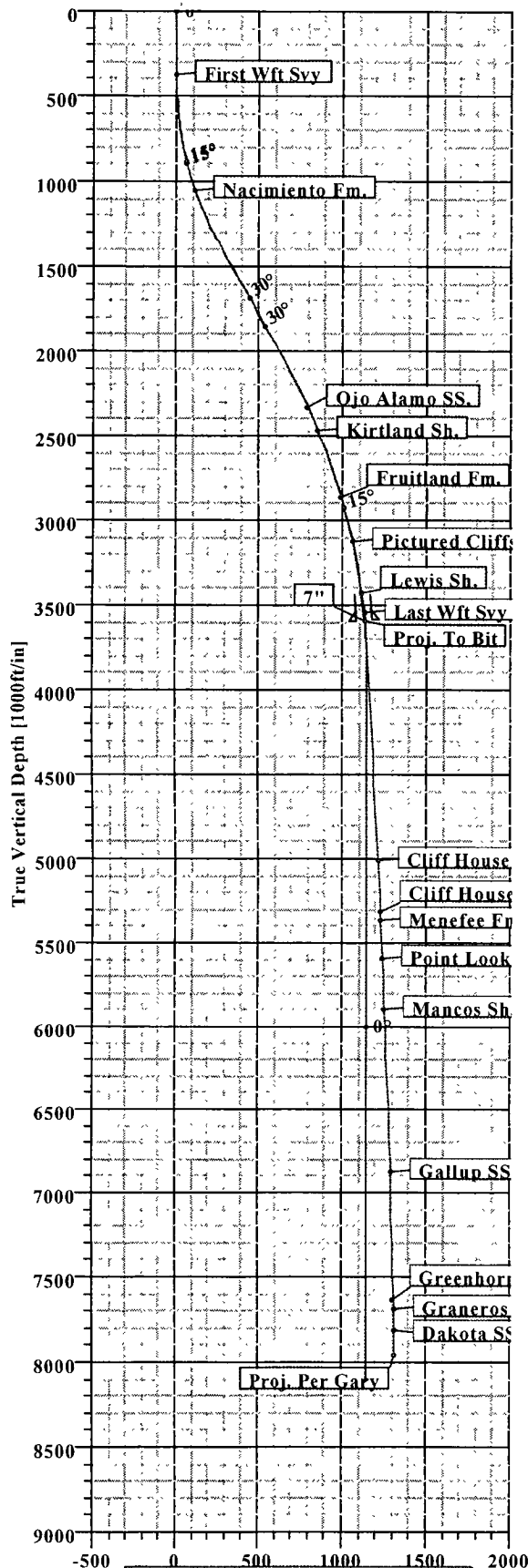
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 5280.00' LEASE SF-078771 5280.00' 23 5278.68'	5280.00' 1020' 418' N62°43.4'E 1313.6' 1515' 2640.00' SURFACE LOCATION LAT: 36.88952°N LONG: 107.42771°W DATUM: NAD1927 BOTTOM-HOLE LAT: 36.89116°N LONG: 107.42371°W DATUM: NAD1927 LAT: 36.88953°N LONG: 107.42832°W DATUM: NAD1983 LAT: 36.89117°N LONG: 107.42432°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. <i>Larry Higgins</i> 8-22-11 Signature Date <i>LARRY HIGGINS</i> 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: AUGUST 11, 2011 Date of Survey: OCTOBER 4, 2010 Signature and Seal of Professional Surveyor  JASON C. EDWARDS Certificate Number 15269
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Rosa Unit 14D RIO ARriba CO. NM

KB ELEV: 6301
GL ELEV: 6287



Vertical Section at 62.58° [1000ft/in]

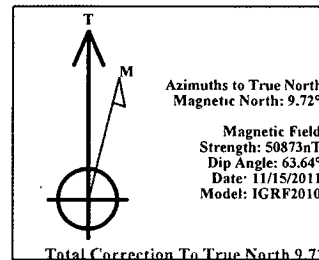
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	62.58	0.00	0.00	0.00	0.00	0.00	0.00
2	400.00	0.00	62.58	400.00	0.00	0.00	0.00	0.00	0.00
3	1390.46	29.71	62.58	1346.65	115.64	222.91	3.00	62.58	251.12
4	2183.71	29.71	62.58	2035.60	296.70	571.93	0.00	0.00	644.31
5	3831.29	5.00	62.58	3596.00	521.28	1004.86	1.50	180.00	1132.02 Cst/Tgt
6	4164.62	0.00	0.00	3928.91	527.97	1017.76	1.50	-180.00	1146.56
7	8351.71	0.00	0.00	8116.00	527.97	1017.76	0.00	0.00	1146.56 Pbh

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude Slot
Rosa Unit 14D	0.00	0.00	2145210.20	1295842.01	36°53'22.308N	107°25'41.952W N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Cst/Tgt	3596.00	521.28	1004.86	36°53'27.462N	107°25'29.583W	Point
Pbh	8116.00	527.97	1017.76	36°53'27.528N	107°25'29.424W	Point

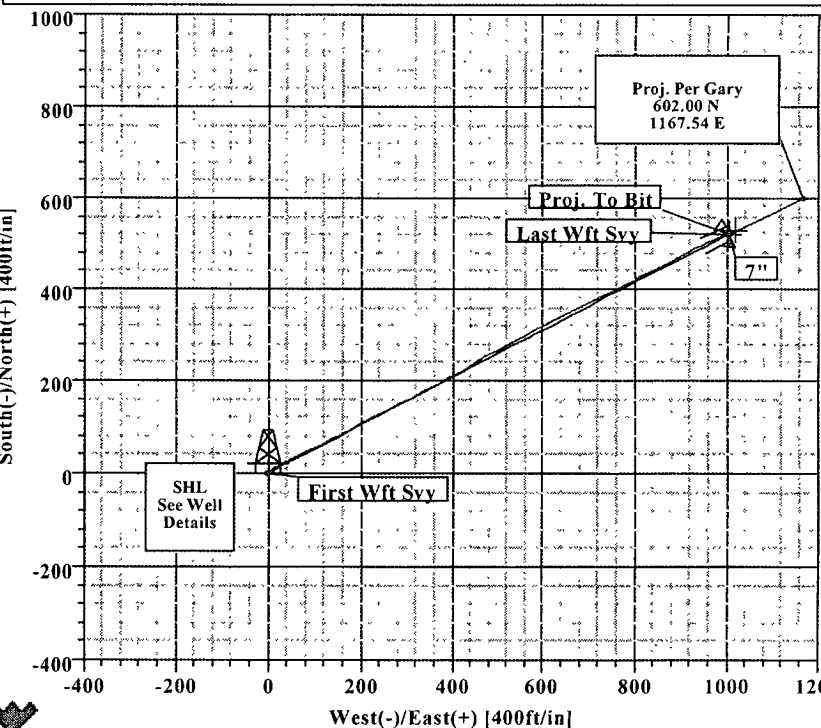
FORMATION TOP DETAILS		
No.	TVDPath	MDPath Formation
1	1056.00	1069.79 Nacimiento Fm.
2	2331.00	2515.95 Ojo Alamo SS.
3	2471.00	2668.78 Kirtland Sh.
4	2866.00	3086.85 Fruitland Fm.
5	3121.00	3349.61 Pictured Cliffs SS.
6	3426.00	3660.28 Lewis Sh.
7	5006.00	5243.64 Cliff House SS. Trans.
8	5316.00	5553.99 Cliff House SS.
9	5361.00	5599.04 Menefee Fm.
10	5591.00	5829.27 Point Lookout SS.
11	5896.00	6134.53 Mancos Sh.
12	6876.00	7115.11 Gallup SS.
13	7631.00	7870.35 Greenhorn Ls.
14	7686.00	7925.37 Graneros Sh.
15	7816.00	8055.39 Dakota SS.

SITE DETAILS
Rosa Unit 14D
Site Centre Latitude: 36°53'22.308N
Longitude: 107°25'41.952W
Ground Level: 6287.00
Positional Uncertainty: 0.00
Convergence: -0.71



LEGEND
Rosa Unit 14D, Plan #1
60C (1)
Wft Svy

Survey: Wft Svy (Rosa Unit 14D/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
75	8200.00	1.00	63.75	7960.59	602.00	1167.54	0.06	180.00	1313.60



Survey: Wft Svy (Rosa Unit 14D/1)
Created By: Russell W. Joyner
Date: 8/2/2011





Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: Williams Production	Date: 8/2/2011	Time: 11:59:44	Page: 1
Field: RIO ARRIBA CO. NM (NAD 83)	Co-ordinate(NE) Reference: Well: Rosa Unit 14D True North		
Site: Rosa Unit 14D	Vertical (TVD) Reference: SITE 6301.0		
Well: Rosa Unit 14D	Section (VS) Reference: Well (0.00N,0.00E:62.58Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 7/5/2011
Company: Weatherford International Ltd.	Engineer: Keith Noack
Tool: MWD;MWD - Standard	Tied-to: From Surface

Field: RIO ARRIBA CO. NM (NAD 83)

Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Central Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Rosa Unit 14D

Site Position:	Northing: 2145210.20 ft	Latitude: 36 53 22.308 N
From: Geographic	Easting: 1295842.01 ft	Longitude: 107 25 41.952 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6287.00 ft		Grid Convergence: -0 71 deg

Well: Rosa Unit 14D	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 2145210.20 ft
+E/-W 0.00 ft	Easting: 1295842.01 ft
Position Uncertainty: 0.00 ft	Latitude: 36 53 22.308 N
	Longitude: 107 25 41.952 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 11/15/2011	Above System Datum: Mean Sea Level
Field Strength: 50873 nT	Declination: 9 72 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.64 deg
ft	+E/-W ft
	Direction deg
0 00	0 00
	0.00
	62.58

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	Lat	Min	Sec	Long	Min	Sec	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft							
0 00	0.00	0.00	0 00	0.00	0.00	0.00	0.00	36	53	22.308	107	25	41.952	First Wft Svy
379 00	0.09	292.10	379 00	0 11	-0.28	-0.19	0.02	36	53	22.309	107	25	41.955	
409 00	0.39	28.56	409 00	0 21	-0.25	-0.12	1.37	36	53	22.310	107	25	41.955	
439 00	1.57	59.15	438 99	0 51	0.15	0.37	4.17	36	53	22.313	107	25	41.950	
471 00	2.94	52.22	470 97	1.24	1 18	1.62	4.36	36	53	22.320	107	25	41.938	
502 00	3.63	54.60	501 92	2 29	2.61	3.37	2 27	36	53	22.331	107	25	41.920	
533.00	4.44	51.47	532.84	3 61	4.34	5.52	2 71	36	53	22.344	107	25	41.899	
563.00	5 19	51.60	562 74	5 18	6.32	7.99	2 50	36	53	22.359	107	25	41.874	
595 00	6.38	52.10	594.57	7 17	8.85	11 16	3.72	36	53	22 379	107	25	41.843	
625 00	7.25	52.72	624 36	9 34	11.68	14 66	2.91	36	53	22 400	107	25	41.808	
656 00	7 94	57.47	655 09	11 67	15.04	18.72	3.01	36	53	22.423	107	25	41.767	
688 00	8 00	62.22	686 78	13 90	18.87	23.15	2 07	36	53	22.445	107	25	41 720	
719.00	9 13	65.72	717.43	15 92	23.02	27.77	4.01	36	53	22.465	107	25	41.669	
749 00	9.94	64 47	747.02	18 01	27 53	32.73	2 79	36	53	22 486	107	25	41.613	
780 00	11.13	62 97	777.49	20 53	32.61	38.40	3.94	36	53	22 511	107	25	41.551	
809 00	11 88	61.72	805 91	23.21	37 73	44 18	2 73	36	53	22.537	107	25	41.488	
838 00	13.00	62 35	834 23	26 14	43.25	50 43	3.89	36	53	22.566	107	25	41.420	
870 00	14 00	64.60	865 35	29.47	49 93	57 89	3.53	36	53	22.599	107	25	41.337	
901 00	15 25	65.72	895 34	32.76	57 04	65.71	4.13	36	53	22.632	107	25	41.250	
932.00	16.56	67.22	925.15	36 14	64 83	74 19	4.43	36	53	22 665	107	25	41 154	
964 00	17 56	66.22	955.75	39.85	73.45	83.55	3.26	36	53	22.702	107	25	41.048	
996 00	17 94	63.97	986.22	43.96	82 29	93.30	2.45	36	53	22 743	107	25	40.939	
1027 00	18.94	62.10	1015 63	48 41	91.03	103 10	3.75	36	53	22 787	107	25	40.831	
1059 00	19.56	61.47	1045 84	53 40	100 33	113.65	2 04	36	53	22 836	107	25	40.717	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: Williams Production	Date: 8/2/2011	Time: 11:59:44	Page: 2
Field: RIO ARRIBA CO. NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Rosa Unit 14D	True North
Site: Rosa Unit 14D	Vertical (TVD) Reference:	SITE 6301.0	
Well: Rosa Unit 14D	Section (VS) Reference:	Well (0.00N;0.00E;62.58Azi)	
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	Lat Min	Sec	Long Min	Sec	Comment
1091.00	20.25	62.22	1075.93	58.54	109.93	124.54	2.30	36	53	22.887	107 25	40.599
1122.00	21.13	62.97	1104.93	63.58	119.66	135.49	2.96	36	53	22.937	107 25	40.479
1153.00	22.38	62.72	1133.72	68.83	129.88	146.98	4.04	36	53	22.988	107 25	40.353
1185.00	23.31	62.60	1163.21	74.53	140.92	159.41	2.91	36	53	23.045	107 25	40.217
1217.00	24.56	61.60	1192.46	80.61	152.39	172.39	4.11	36	53	23.105	107 25	40.076
1248.00	25.25	60.60	1220.58	86.92	163.81	185.44	2.61	36	53	23.167	107 25	39.936
1279.00	26.69	61.60	1248.45	93.48	175.70	199.01	4.86	36	53	23.232	107 25	39.789
1310.00	27.28	62.24	1276.07	100.10	188.11	213.07	2.12	36	53	23.298	107 25	39.637
1342.00	28.38	63.35	1304.37	106.92	201.40	228.01	3.80	36	53	23.365	107 25	39.473
1374.00	29.44	63.60	1332.38	113.83	215.24	243.48	3.33	36	53	23.433	107 25	39.303
1405.00	29.89	63.84	1359.32	120.62	229.00	258.82	1.50	36	53	23.501	107 25	39.133
1468.00	29.56	63.09	1414.03	134.58	256.94	290.05	0.79	36	53	23.639	107 25	38.789
1531.00	29.56	62.60	1468.83	148.76	284.60	321.13	0.38	36	53	23.779	107 25	38.449
1595.00	29.56	62.10	1524.50	163.42	312.56	352.70	0.39	36	53	23.924	107 25	38.105
1658.00	29.72	61.91	1579.25	178.04	340.08	383.86	0.29	36	53	24.068	107 25	37.766
1720.00	29.75	61.22	1633.09	192.68	367.12	414.61	0.55	36	53	24.213	107 25	37.433
1782.00	29.56	60.97	1686.97	207.51	393.97	445.27	0.37	36	53	24.360	107 25	37.103
1845.00	29.00	61.10	1741.92	222.43	420.93	476.07	0.89	36	53	24.507	107 25	36.771
1907.00	29.20	60.21	1796.09	237.21	447.21	506.21	0.77	36	53	24.653	107 25	36.447
1971.00	30.00	61.10	1851.74	252.70	474.77	537.80	1.43	36	53	24.806	107 25	36.108
2033.00	30.31	60.90	1905.35	267.80	502.01	568.93	0.53	36	53	24.956	107 25	35.773
2096.00	30.06	62.85	1959.81	282.73	529.94	600.60	1.61	36	53	25.103	107 25	35.429
2158.00	30.13	63.22	2013.45	296.83	557.65	631.69	0.32	36	53	25.243	107 25	35.088
2221.00	28.44	63.47	2068.40	310.65	585.19	662.50	2.69	36	53	25.379	107 25	34.749
2284.00	28.00	62.85	2123.91	324.10	611.77	692.29	0.84	36	53	25.512	107 25	34.422
2346.00	26.94	62.85	2178.92	337.15	637.22	720.89	1.71	36	53	25.641	107 25	34.108
2409.00	26.69	62.22	2235.15	350.26	662.43	749.31	0.60	36	53	25.771	107 25	33.798
2471.00	26.50	63.85	2290.59	362.84	687.17	777.06	1.22	36	53	25.895	107 25	33.493
2534.00	25.02	64.22	2347.32	374.83	711.78	804.43	2.36	36	53	26.014	107 25	33.190
2596.00	23.06	63.22	2403.94	386.01	734.43	829.68	3.23	36	53	26.124	107 25	32.912
2659.00	22.75	62.72	2461.98	397.15	756.27	854.20	0.58	36	53	26.235	107 25	32.643
2723.00	21.81	62.85	2521.20	408.25	777.85	878.47	1.47	36	53	26.344	107 25	32.377
2786.00	20.38	63.60	2579.97	418.47	798.09	901.14	2.31	36	53	26.445	107 25	32.128
2848.00	18.56	64.22	2638.43	427.56	816.65	921.80	2.95	36	53	26.535	107 25	31.900
2912.00	17.88	62.85	2699.22	436.47	834.56	941.80	1.26	36	53	26.623	107 25	31.679
2975.00	17.67	62.15	2759.21	445.35	851.62	961.04	0.48	36	53	26.711	107 25	31.469
3038.00	17.50	62.10	2819.27	454.25	868.45	980.07	0.27	36	53	26.799	107 25	31.262
3100.00	16.00	60.47	2878.63	462.83	884.12	997.93	2.53	36	53	26.884	107 25	31.069
3163.00	14.75	62.47	2939.38	470.81	898.79	1014.63	2.15	36	53	26.963	107 25	30.888
3227.00	13.63	60.72	3001.42	478.27	912.59	1030.31	1.87	36	53	27.037	107 25	30.719
3290.00	12.81	58.60	3062.76	485.54	925.03	1044.70	1.51	36	53	27.108	107 25	30.565
3353.00	11.75	62.97	3124.31	492.09	936.70	1058.08	2.24	36	53	27.173	107 25	30.422
3416.00	12.34	68.55	3185.93	497.47	948.68	1071.19	2.07	36	53	27.226	107 25	30.274
3479.00	11.69	67.10	3247.55	502.41	960.83	1084.25	1.14	36	53	27.275	107 25	30.125
3542.00	10.63	66.72	3309.36	507.19	972.05	1096.41	1.69	36	53	27.323	107 25	29.987
3604.00	9.50	66.72	3370.40	511.48	982.00	1107.22	1.82	36	53	27.365	107 25	29.864
3666.00	8.19	64.97	3431.66	515.37	990.70	1116.73	2.16	36	53	27.403	107 25	29.757
3729.00	6.63	66.22	3494.13	518.73	998.10	1124.85	2.49	36	53	27.437	107 25	29.666
3779.00	5.75	65.26	3543.84	520.94	1003.01	1130.23	1.77	36	53	27.459	107 25	29.606
3831.00	3.70	63.75	3595.66	522.78	1006.88	1134.51	3.95	36	53	27.477	107 25	29.558
8200.00	1.00	63.75	7960.59	602.00	1167.54	1313.60	0.06	36	53	28.260	107 25	27.580

Last Wft Sty
7"
Proj Per Ga



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company:	Williams Production	Date:	8/2/2011	Time:	11:59:44	Page:	3
Field:	RIO ARRIBA CO NM (NAD:83)	Co-ordinate(NE) Reference:	Well: Rosa Unit 14D, True North				
Site:	Rosa Unit 14D	Vertical (TVD) Reference:	SITE 6301.0				
Well:	Rosa Unit 14D	Section (VS) Reference:	Well (0.00N;0.00E:62.58Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature				Db: Sybase

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
3831.00	3595.66	7.000	8.500	7"

Annotation

MD ft	TVD ft	
379.00	379.00	First Wft Svy
3779.00	3543.84	Last Wft Svy
3831.00	3595.66	Proj. To Bit
8200.00	7960.59	Proj. Per Gary

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1069.79	1056.00	Nacimiento Fm.		0.00	0.00
2515.95	2331.00	Ojo Alamo SS.		0.00	0.00
2668.78	2471.00	Kirtland Sh.		0.00	0.00
3086.85	2866.00	Fruitland Fm.		0.00	0.00
3349.61	3121.00	Pictured Cliffs SS.		0.00	0.00
3660.28	3426.00	Lewis Sh.		0.00	0.00
5243.64	5006.00	Cliff House SS. Trans.		0.00	0.00
5553.99	5316.00	Cliff House SS.		0.00	0.00
5599.04	5361.00	Menefee Fm.		0.00	0.00
5829.27	5591.00	Point Lookout SS.		0.00	0.00
6134.53	5896.00	Mancos Sh.		0.00	0.00
7115.11	6876.00	Gallup SS.		0.00	0.00
7870.35	7631.00	Greenhorn Ls		0.00	0.00
7925.37	7686.00	Graneros Sh.		0.00	0.00
8055.39	7816.00	Dakota SS		0.00	0.00
	0.00	Morrison Fm.		0.00	0.00