

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

RECEIVED
AUG 11 2011

OIL CONS. DIV. DIST. 3

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

¹ API Number 30-039-31054	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 17033	⁵ Property Name ROSA UNIT	⁶ Well Number 14D
⁷ OGRID No. 120782	⁸ Operator Name WILLIAMS PRODUCTION COMPANY	⁹ Elevation 6287'

¹⁰ Surface Location

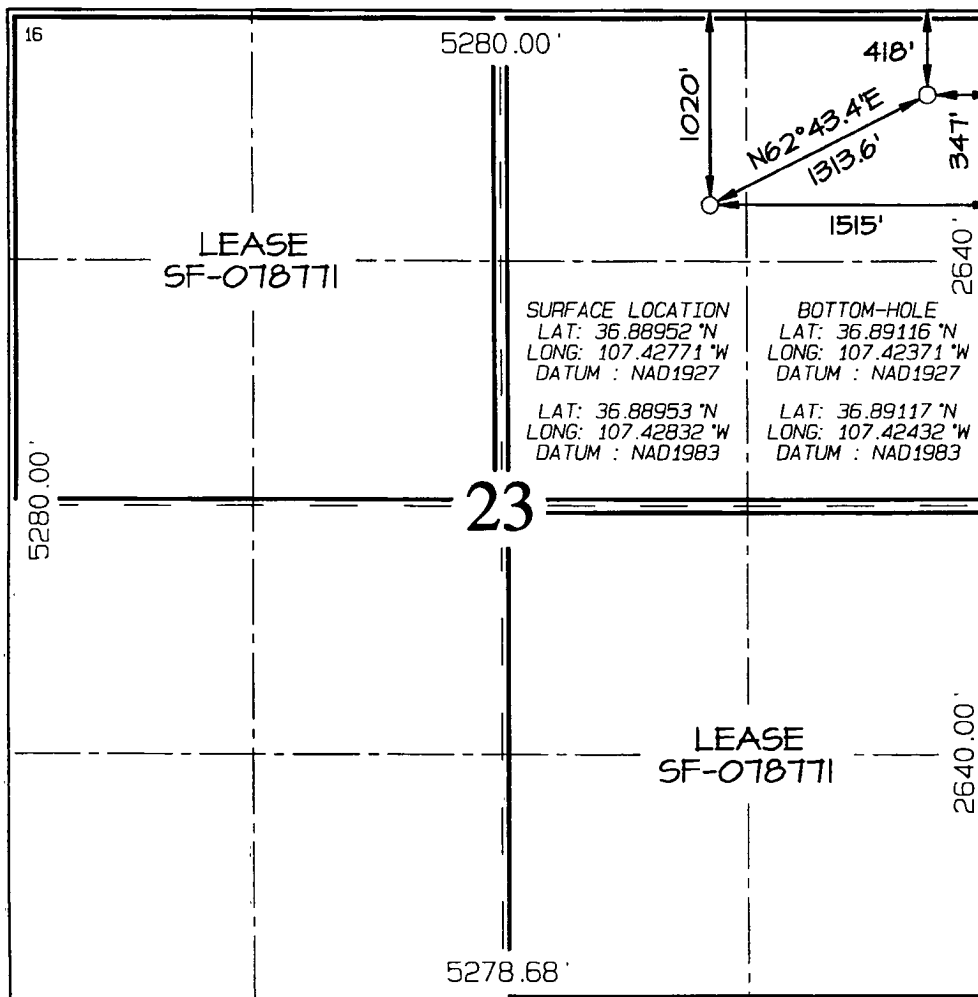
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	23	31N	6W		1020	NORTH	1515	EAST	RIO ARriba

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



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] 8/19/2011
Signature Date
Ben McHale
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

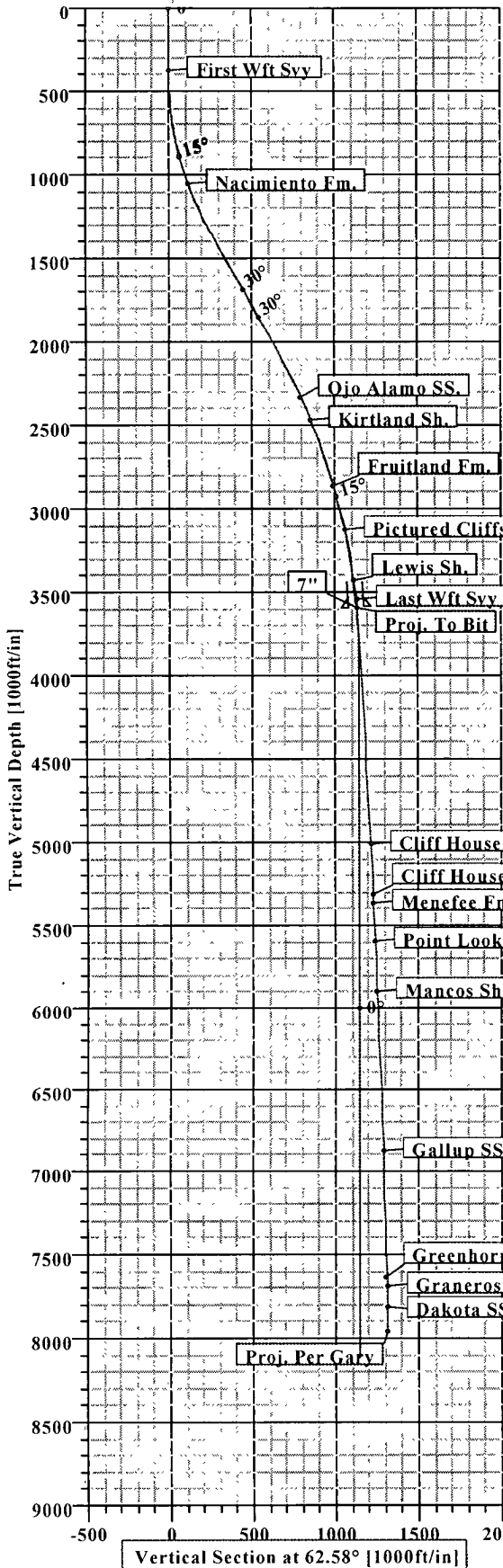


JASON C. EDWARDS
Certificate Number 15269



Rosa Unit 14D RIO ARRIBA CO. NM

KB ELEV: 6301
GL ELEV: 6287



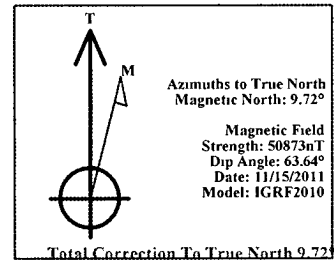
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	62.58	0.00	0.00	0.00	0.00	0.00	0.00
2	400.00	0.00	62.58	400.00	0.00	0.00	0.00	0.00	0.00
3	1390.46	29.71	62.58	1346.65	115.64	222.91	3.00	62.58	251.12
4	2183.71	29.71	62.58	2035.60	296.70	571.93	0.00	0.00	644.31
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 Pchl

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

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
Pchl	8116.00	527.97	1017.76	36°53'27.528N	107°25'29.424W	Point

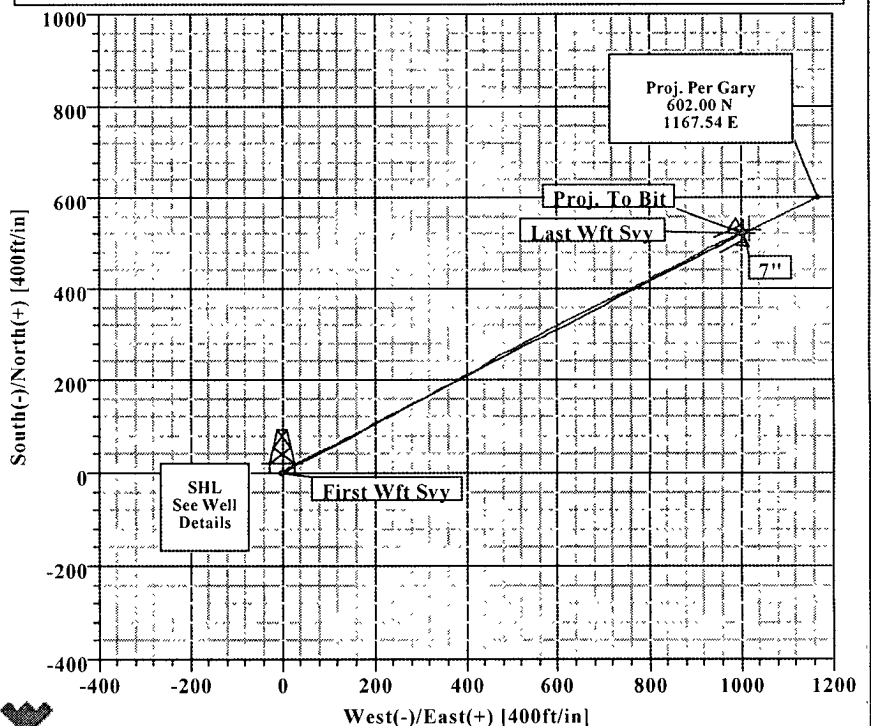
FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	1056.00	1069.79	Nacimiento Fm.
2	2331.00	2515.95	Ojo Alamo SS.
3	2471.00	2668.78	Kirtland Sh.
4	2866.00	3086.85	Fruitland Fm.
5	3121.00	3349.61	Pictured Cliffs SS.
6	3426.00	3660.28	Lewis Sh.
7	5006.00	5243.64	Cliff House SS. Trans.
8	5316.00	5553.99	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, I, Plan #1
—	60C (1)
—	Wft Svy

Survey: Wft Svy (Rosa Unit 14D/I)									
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





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	Latitude: 36 53 22 308 N
+E-W 0.00 ft	Longitude: 107 25 41.952 W
Position Uncertainty: 0 00 ft	

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

Annotation

MD	TVD	
ft	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	TVD	Formations	Lithology	Dip Angle	Dip Direction
ft	ft			deg	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