

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

¹ API Number 39-30699	² Pool Code 97232 / 72319 / 71599	³ Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 17033	⁵ Property Name ROSA UNIT	⁶ Well Number 12D
⁷ GRID No. 120782	⁸ Operator Name WILLIAMS PRODUCTION COMPANY	⁹ Elevation 6299'

¹⁰ Surface Location

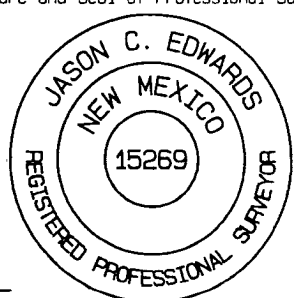
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	15	31N	6W		1905	NORTH	595	EAST	RIO ARriba

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
H	15	31N	6W		2494	NORTH	623	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No RCVD JUL 14 '09 OIL 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**

15 LOT 1 TRACT 38 TRACT 39 TRACT 40	5253.60'	15 LEASE SF-078765 5258.88'	502°04.0'W 590.3'	2494'	1905'	2640.00'	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> 7-13-09 Signature Date <i>LARRY HIGGINS</i> Printed Name
	595'			623'	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: NOVEMBER 20, 2008 Signature and Seal of Professional Surveyor		
							
				JASON C. EDWARDS Certificate Number 15269			

B 7/20



ROSA UNIT #12D
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	186.68	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	186.68	400.00	0.00	0.00	0.00	0.00	0.00	
3	847.13	13.41	186.68	843.05	-51.75	-6.06	3.00	186.68	52.10	
4	2763.24	13.41	186.68	2706.89	-493.24	-57.74	0.00	0.00	496.61	
5	3657.49	0.00	186.68	3593.00	-596.73	-69.86	1.50	180.00	600.81	Int. Csg. Pt.
6	8017.49	0.00	186.68	7953.00	-596.73	-69.86	0.00	186.68	600.81	PBHL

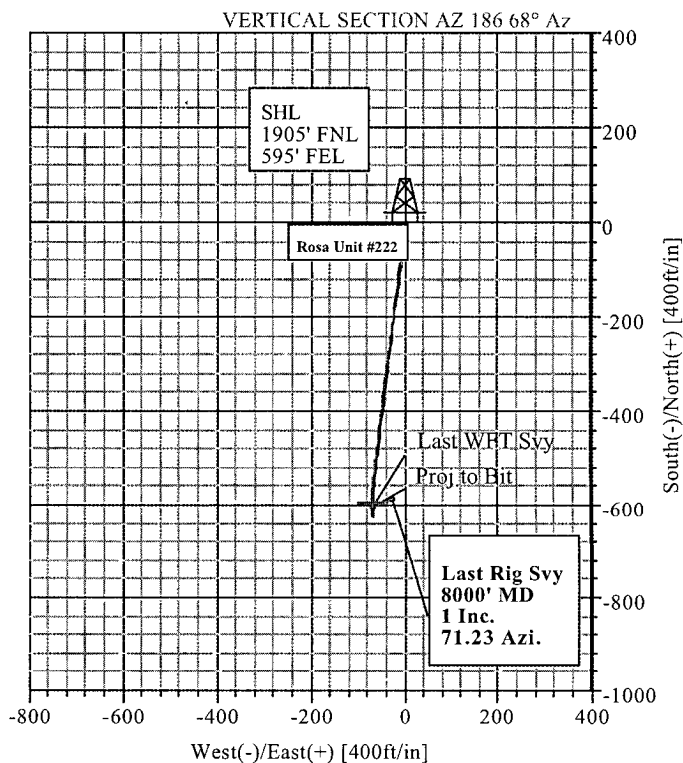
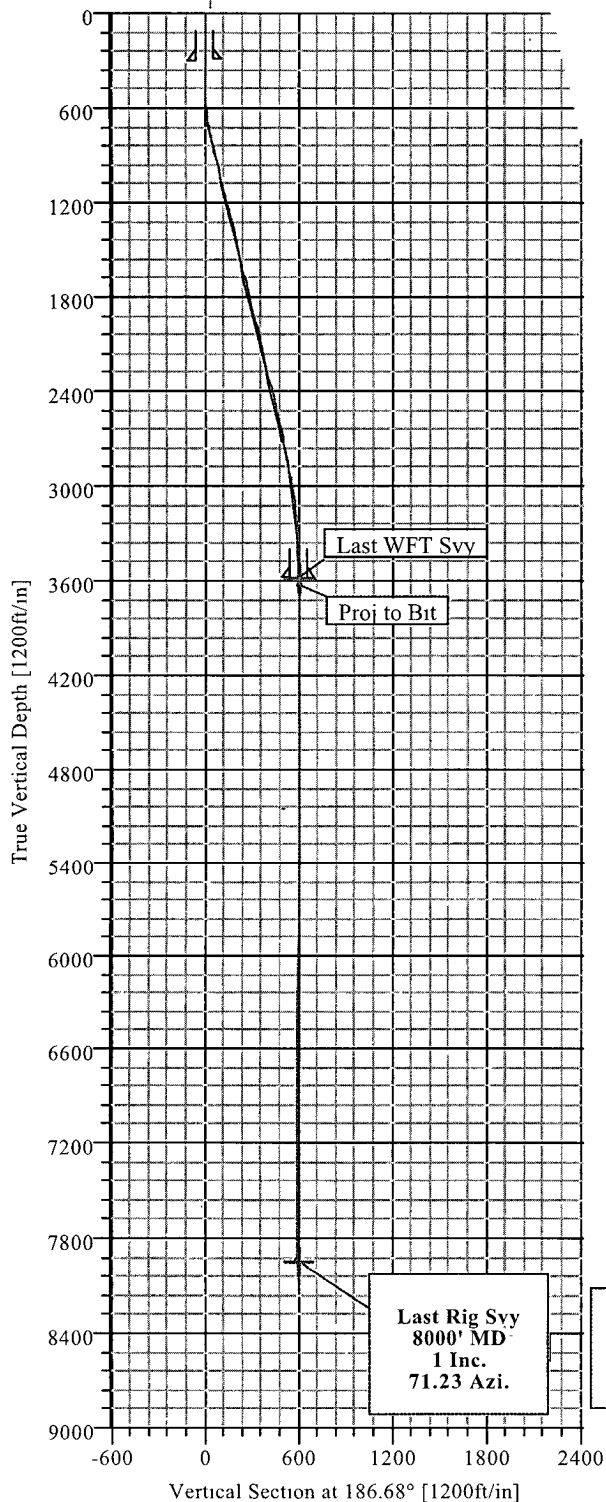
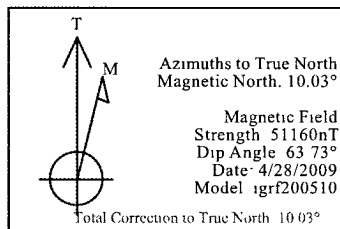
WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#12D	0.00	0.00	2149691.29	1291527.94	36°54'06.080N	107°26'35.740W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Int. Csg. Pt.	3593.00	-596.73	-69.86	2149095.48	1291450.62	36°54'00.180N	107°26'36.600W	Point
PBHL	7953.00	-596.73	-69.86	2149095.48	1291450.62	36°54'00.180N	107°26'36.600W	Point

KB ELEV. 6313'
GR ELEV. 6299'



Last Rig Survey

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
70	8000.00	1.00	71.23	7933.95	-589.02	-27.80	0.02	0.00	588.25

Survey WFT SVY (#12D/1)

Created By: Lindsey Maddux

Date 6/30/2009



Weatherford International, Inc.

Survey Report

**Weatherford**

Company: WILLIAMS PRODUCTION Date: 6/30/2009 Time: 08:03:30 Page: 1
Field: Rio Arriba Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: #12D True North
Site: Rosa Unit #12D Vertical (TVD) Reference: SITE 6313.0
Well: #12D Section (VS) Reference: Well (0.00N, 0.00E, 186.68Azi)
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 #12D

1905' FNL 595' FEL of SEC 15 T31N R6W

Site Position: Northing: 2149691.29 ft Latitude: 36 54 6.080 N
From: Geographic Easting: 1291527.94 ft Longitude: 107 26 35.740 W
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 6299.00 ft Grid Convergence: -0.72 deg

Well: #12D

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2149691.29 ft Latitude: 36 54 6.080 N
+E/-W 0.00 ft Easting: 1291527.94 ft Longitude: 107 26 35.740 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 6313.00 ft
Magnetic Data: 4/28/2009
Field Strength: 51160 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 186.68

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 10.03 deg
Mag Dip Angle: 63.73 deg
+E/-W Direction
ft deg

Survey: WFT SVY

Start Date: 5/26/2009

Company: Weatherford International, Inc

Engineer: Lindsey Maddux

Tool: MWD;MWD - Standard

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
360.00	0.78	151.54	359.99	-2.15	1.17	2.00	0.22	0.22	0.00	MWD
389.00	1.18	160.42	388.98	-2.61	1.36	2.43	1.47	1.38	30.62	MWD
419.00	1.66	167.90	418.98	-3.33	1.56	3.12	1.71	1.60	24.93	MWD
449.00	2.49	169.03	448.96	-4.39	1.77	4.15	2.77	2.77	3.77	MWD
478.00	3.34	174.13	477.92	-5.85	1.98	5.58	3.06	2.93	17.59	MWD
509.00	3.85	174.95	508.86	-7.78	2.16	7.48	1.65	1.65	2.65	MWD
540.00	4.40	180.46	539.78	-10.01	2.24	9.68	2.18	1.77	17.77	MWD
568.00	4.77	181.90	567.69	-12.25	2.20	11.91	1.38	1.32	5.14	MWD
626.00	6.06	185.75	625.43	-17.70	1.81	17.37	2.31	2.22	6.64	MWD
657.00	6.75	186.62	656.23	-21.14	1.44	20.83	2.25	2.23	2.81	MWD
688.00	8.06	187.04	686.97	-25.11	0.96	24.83	4.23	4.23	1.35	MWD
720.00	8.77	187.61	718.63	-29.75	0.36	29.51	2.23	2.22	1.78	MWD
751.00	10.18	187.10	749.21	-34.81	-0.29	34.61	4.56	4.55	-1.65	MWD
783.00	11.38	188.26	780.64	-40.74	-1.09	40.60	3.81	3.75	3.62	MWD
814.00	12.22	187.61	810.98	-47.02	-1.97	46.93	2.74	2.71	-2.10	MWD
846.00	12.81	188.08	842.22	-53.89	-2.91	53.87	1.87	1.84	1.47	MWD
877.00	13.70	187.21	872.40	-60.94	-3.86	60.97	2.94	2.87	-2.81	MWD
941.00	14.26	186.87	934.50	-76.28	-5.75	76.43	0.88	0.87	-0.53	MWD
1004.00	14.83	187.42	995.48	-91.98	-7.72	92.25	0.93	0.90	0.87	MWD
1068.00	14.26	186.61	1057.43	-107.93	-9.69	108.33	0.95	-0.89	-1.27	MWD
1131.00	14.28	185.90	1118.49	-123.37	-11.38	123.85	0.28	0.03	-1.13	MWD
1162.00	14.41	186.25	1148.52	-131.01	-12.19	131.53	0.50	0.42	1.13	MWD
1224.00	14.23	188.57	1208.60	-146.21	-14.17	146.87	0.97	-0.29	3.74	MWD



Weatherford International, Inc.

Survey Report

**Weatherford**

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Well: #12D Section (VS) Reference: Well (0.00N;0.00E;186.68Azi)
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
1255.00	13.84	189.86	1238.67	-153.63	-15.37	154.38	1.61	-1.26	4.16	MWD
1318.00	13.13	189.15	1299.93	-168.12	-17.80	169.05	1.16	-1.13	-1.13	MWD
1350.00	12.95	189.00	1331.11	-175.25	-18.94	176.26	0.57	-0.56	-0.47	MWD
1413.00	12.66	189.73	1392.54	-189.03	-21.21	190.21	0.53	-0.46	1.16	MWD
1476.00	13.05	188.54	1453.96	-202.86	-23.43	204.21	0.75	0.62	-1.89	MWD
1539.00	13.37	189.32	1515.29	-217.09	-25.67	218.60	0.58	0.51	1.24	MWD
1602.00	13.44	188.68	1576.58	-231.51	-27.95	233.19	0.26	0.11	-1.02	MWD
1665.00	13.43	189.67	1637.85	-245.96	-30.28	247.81	0.37	-0.02	1.57	MWD
1729.00	13.28	185.27	1700.13	-260.61	-32.21	262.59	1.60	-0.23	-6.87	MWD
1791.00	13.67	185.19	1760.42	-274.99	-33.53	277.03	0.63	0.63	-0.13	MWD
1854.00	14.29	187.90	1821.55	-290.11	-35.27	292.24	1.43	0.98	4.30	MWD
1917.00	14.97	188.45	1882.51	-305.86	-37.53	308.15	1.10	1.08	0.87	MWD
1979.00	14.76	188.67	1942.43	-321.59	-39.90	324.05	0.35	-0.34	0.35	MWD
2041.00	14.04	187.79	2002.49	-336.85	-42.11	339.46	1.21	-1.16	-1.42	MWD
2103.00	13.72	187.41	2062.68	-351.59	-44.08	354.33	0.54	-0.52	-0.61	MWD
2166.00	13.31	186.72	2123.93	-366.20	-45.89	369.05	0.70	-0.65	-1.10	MWD
2230.00	12.81	185.40	2186.28	-380.58	-47.42	383.51	0.91	-0.78	-2.06	MWD
2293.00	13.05	184.96	2247.68	-394.62	-48.69	397.61	0.41	0.38	-0.70	MWD
2355.00	13.27	187.94	2308.05	-408.64	-50.28	411.72	1.15	0.35	4.81	MWD
2418.00	13.11	187.97	2369.39	-422.88	-52.27	426.09	0.25	-0.25	0.05	MWD
2481.00	13.32	187.33	2430.72	-437.15	-54.18	440.49	0.41	0.33	-1.02	MWD
2543.00	13.01	188.55	2491.09	-451.14	-56.13	454.60	0.67	-0.50	1.97	MWD
2605.00	13.15	187.61	2551.48	-465.03	-58.11	468.63	0.41	0.23	-1.52	MWD
2668.00	12.76	187.29	2612.88	-479.03	-59.94	482.75	0.63	-0.62	-0.51	MWD
2699.00	12.90	186.62	2643.11	-485.87	-60.77	489.64	0.66	0.45	-2.16	MWD
2761.00	12.27	186.03	2703.62	-499.29	-62.26	503.15	1.04	-1.02	-0.95	MWD
2792.00	12.02	185.25	2733.92	-505.78	-62.90	509.67	0.96	-0.81	-2.52	MWD
2856.00	12.30	186.16	2796.49	-519.20	-64.24	523.15	0.53	0.44	1.42	MWD
2919.00	11.35	189.01	2858.15	-531.99	-65.93	536.05	1.77	-1.51	4.52	MWD
2981.00	10.47	186.64	2919.03	-543.61	-67.54	547.78	1.59	-1.42	-3.82	MWD
3012.00	9.60	182.20	2949.55	-548.99	-67.97	553.17	3.75	-2.81	-14.32	MWD
3043.00	8.91	179.77	2980.15	-553.98	-68.06	558.13	2.56	-2.23	-7.84	MWD
3106.00	8.22	180.22	3042.45	-563.36	-68.05	567.45	1.10	-1.10	0.71	MWD
3170.00	7.78	181.45	3105.82	-572.27	-68.18	576.31	0.74	-0.69	1.92	MWD
3232.00	7.07	183.83	3167.30	-580.27	-68.54	584.30	1.25	-1.15	3.84	MWD
3295.00	6.26	185.70	3229.88	-587.55	-69.14	591.61	1.33	-1.29	2.97	MWD
3359.00	5.34	188.50	3293.55	-593.97	-69.93	598.07	1.50	-1.44	4.37	MWD
3422.00	4.04	188.78	3356.34	-599.07	-70.70	603.22	2.06	-2.06	0.44	MWD
3484.00	2.31	190.80	3418.24	-602.45	-71.27	606.65	2.80	-2.79	3.26	MWD
3515.00	0.85	178.60	3449.23	-603.29	-71.38	607.50	4.81	-4.71	-39.35	MWD
3547.00	0.44	111.21	3481.23	-603.58	-71.26	607.77	2.48	-1.28	-210.59	MWD
3579.00	0.43	103.73	3513.22	-603.65	-71.03	607.81	0.18	-0.03	-23.37	MWD
3611.00	0.34	67.20	3545.22	-603.64	-70.82	607.78	0.80	-0.28	-114.16	MWD
3636.00	0.20	71.23	3570.22	-603.60	-70.71	607.73	0.56	-0.56	16.12	Last WFT Svy
3690.00	0.20	71.23	3624.22	-603.54	-70.54	607.65	0.00	0.00	0.00	Proj to Bit
8000.00	1.00	71.23	7933.95	-589.02	-27.80	588.25	0.02	0.02	0.00	Last Rig Svy

Annotation

MD ft	TVD ft	
3636.00	3570.22	Last WFT Svy
3690.00	3624.22	Proj to Bit
8000.00	7933.95	Last Rig Svy