

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 30-039-30182	*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 36C
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6421'

¹⁰ Surface Location

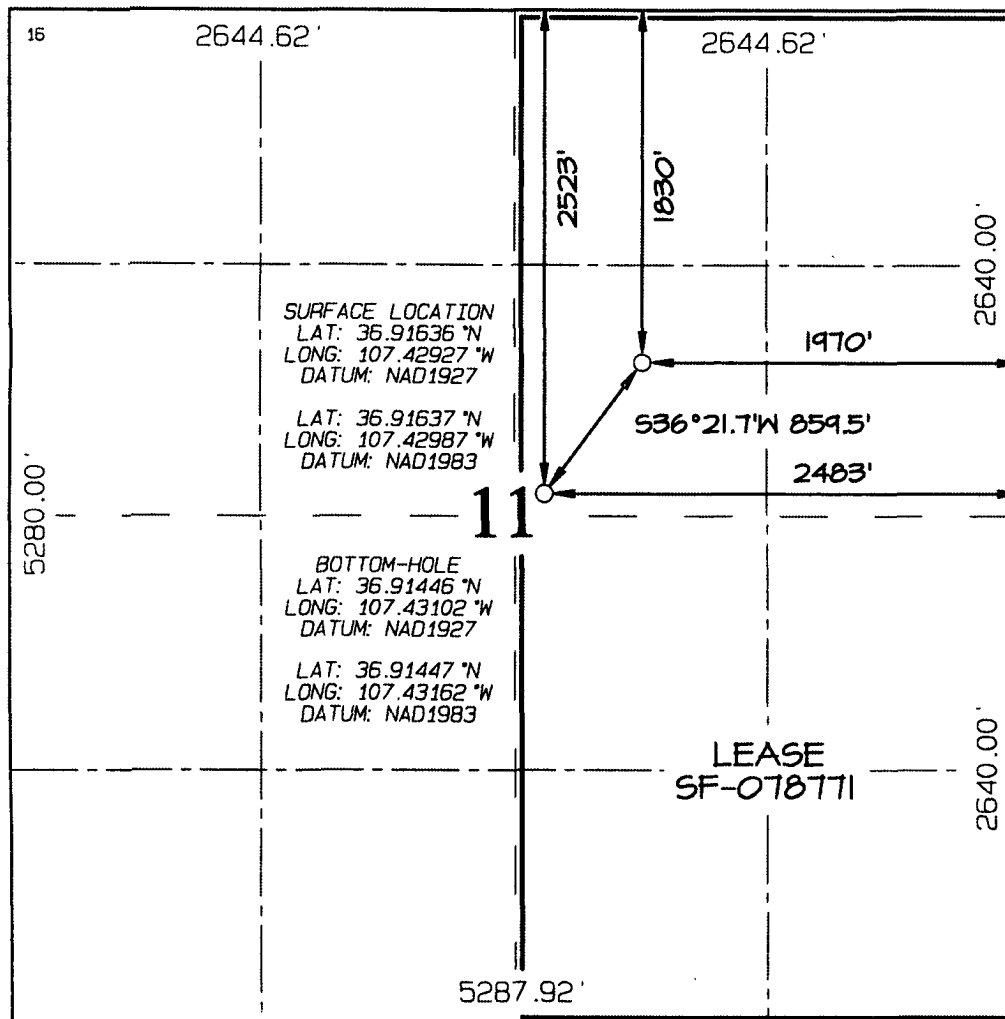
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	11	31N	6W		1830	NORTH	1970	EAST	RIO ARriba

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
G	11	31N	6W		2523	NORTH	2483	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD JUL 14 '11 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



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 7-13-11
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

Date of Revisions: JULY 6, 2011
Date of Survey: APRIL 26, 2006

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

AR EX



Weatherford International Ltd.

WFT Plan Report Lat, Long



Weatherford

API #30-039-30182

Company: Williams Production Date: 6/27/2011 Time: 09:40:31 Page: 1
Field: RIO ARRIBA CO NM (NAD 83) Co-ordinate(NE) Reference: Well #36C, True North
Site: Rosa Unit #36C Vertical (TVD) Reference: SITE 6435.0
Well: #36C Section (VS) Reference: Well (0'00N,0'00E,215.14Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Date Composed:
Principal: Version:
Tied-to:

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 #36C
Site Position: Northing: 2154987 69 ft Latitude: 36 54 58 932 N
From: Geographic Easting: 1295509 57 ft Longitude: 107 25 47 532 W
Position Uncertainty: 0 00 ft North Reference: True
Ground Level: 6421 00 ft Grid Convergence: -0 71 deg

Well: #36C Slot Name:
Well Position: +N/-S 0 00 ft Northing: 2154987 69 ft Latitude: 36 54 58 932 N
+E/-W 0 00 ft Easting: 1295509 57 ft Longitude: 107 25 47 532 W
Position Uncertainty: 0 00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Tie-on Depth: 0 00 ft
Magnetic Data: 6/17/2011 Height 6435 00 ft Above System Datum: Mean Sea Level
Field Strength: 50929 nT Declination: 9 78 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 63 68 deg
ft ft ft deg
0 00 0 00 0 00 215 14

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target

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	54	58.932	107	25	47.532	
	300.00	0.41	262.29	300.00	-0.14	-1.07	0.73	0.14	36	54	58.931	107	25	47.545	9 5/8"
	372.00	0.51	262.29	372.00	-0.22	-1.64	1.13	0.14	36	54	58.930	107	25	47.552	First Wft S
	402.00	0.72	254.32	401.99	-0.29	-1.95	1.36	0.75	36	54	58.929	107	25	47.556	
	433.00	1.25	218.21	432.99	-0.61	-2.35	1.85	2.55	36	54	58.926	107	25	47.561	
	464.00	2.19	213.46	463.97	-1.37	-2.89	2.78	3.06	36	54	58.918	107	25	47.568	
	493.00	3.06	217.34	492.94	-2.45	-3.66	4.11	3.06	36	54	58.908	107	25	47.577	
	523.00	4.06	214.84	522.89	-3.96	-4.75	5.97	3.37	36	54	58.893	107	25	47.591	
	552.00	5.31	219.46	551.79	-5.83	-6.19	8.34	4.50	36	54	58.874	107	25	47.608	
	584.00	6.19	217.34	583.63	-8.35	-8.18	11.54	2.83	36	54	58.849	107	25	47.633	
	616.00	7.50	217.09	615.40	-11.39	-10.49	15.35	4.09	36	54	58.819	107	25	47.661	
	648.00	8.50	215.96	647.09	-14.97	-13.14	19.80	3.16	36	54	58.784	107	25	47.694	
	709.00	10.00	214.59	707.29	-22.98	-18.79	29.60	2.49	36	54	58.705	107	25	47.763	
	771.00	10.57	213.47	768.30	-32.15	-24.98	40.67	0.97	36	54	58.614	107	25	47.840	
	834.00	10.56	213.71	830.23	-41.77	-31.37	52.22	0.07	36	54	58.519	107	25	47.918	
	898.00	10.63	219.21	893.14	-51.23	-38.36	63.97	1.58	36	54	58.426	107	25	48.004	
	961.00	10.63	215.71	955.06	-60.45	-45.42	75.58	1.02	36	54	58.334	107	25	48.091	
	1024.00	10.56	215.09	1016.98	-69.89	-52.13	87.16	0.21	36	54	58.241	107	25	48.174	
	1088.00	10.69	216.71	1079.89	-79.45	-59.05	98.96	0.51	36	54	58.147	107	25	48.259	
	1150.00	11.13	213.84	1140.77	-89.03	-65.82	110.69	1.13	36	54	58.052	107	25	48.343	



Weatherford International Ltd.

WFT Plan Report Lat, Long



Weatherford®

Company: Williams Production
Field: RIO ARRIBA CO. NM (NAD 83)
Site: Rosa Unit #36C
Well: #36C
Wellpath: 1

Date: 6/27/2011
Co-ordinate(NE) Reference: Well. #36C, True North
Vertical (TVD) Reference: SITE 6435 0
Section (VS) Reference: Well (0.00N,0.00E,215.14Azi)
Survey Calculation Method: Minimum Curvature

Time: 09:40.31
Page: 2
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
1212.00	11.44	212.59	1201.57	-99.18	-72.47	122.81	0.64	36	54	57.951	107	25	48.424	
1274.00	11.44	211.34	1262.34	-109.61	-78.98	135.09	0.40	36	54	57.848	107	25	48.504	
1337.00	10.69	212.59	1324.16	-119.87	-85.37	147.16	1.25	36	54	57.747	107	25	48.583	
1399.00	10.37	211.99	1385.12	-129.45	-91.43	158.48	0.55	36	54	57.652	107	25	48.658	
1462.00	10.69	215.09	1447.06	-139.04	-97.79	169.98	1.03	36	54	57.557	107	25	48.736	
1525.00	10.69	214.96	1508.97	-148.61	-104.50	181.67	0.04	36	54	57.463	107	25	48.819	
1589.00	10.88	213.34	1571.84	-158.52	-111.22	193.64	0.56	36	54	57.365	107	25	48.901	
1651.00	10.50	213.96	1632.76	-168.09	-117.59	205.14	0.64	36	54	57.270	107	25	48.980	
1714.00	10.25	217.46	1694.73	-177.30	-124.21	216.48	1.08	36	54	57.179	107	25	49.061	
1776.00	10.50	218.96	1755.72	-186.07	-131.11	227.63	0.59	36	54	57.092	107	25	49.146	
1839.00	10.31	217.71	1817.68	-195.00	-138.17	238.99	0.47	36	54	57.004	107	25	49.233	
1902.00	10.75	217.96	1879.62	-204.09	-145.23	250.49	0.70	36	54	56.914	107	25	49.320	
1965.00	10.75	218.21	1941.51	-213.34	-152.48	262.22	0.07	36	54	56.823	107	25	49.410	
2027.00	10.31	214.71	2002.47	-222.44	-159.22	273.54	1.25	36	54	56.733	107	25	49.493	
2089.00	10.50	213.21	2063.45	-231.73	-165.47	284.74	0.53	36	54	56.641	107	25	49.570	
2153.00	10.63	213.09	2126.37	-241.56	-171.89	296.47	0.21	36	54	56.544	107	25	49.649	
2216.00	9.88	214.09	2188.36	-250.90	-178.09	307.68	1.22	36	54	56.451	107	25	49.725	
2279.00	9.75	212.46	2250.44	-259.88	-183.98	318.41	0.49	36	54	56.363	107	25	49.797	
2341.00	9.69	214.09	2311.55	-268.63	-189.73	328.87	0.45	36	54	56.276	107	25	49.868	
2403.00	9.75	213.09	2372.66	-277.35	-195.52	339.33	0.29	36	54	56.190	107	25	49.939	
2466.00	9.63	213.96	2434.76	-286.19	-201.37	349.93	0.30	36	54	56.102	107	25	50.012	
2529.00	10.31	214.34	2496.81	-295.21	-207.50	360.84	1.08	36	54	56.013	107	25	50.087	
2592.00	10.34	214.18	2558.79	-304.55	-213.85	372.13	0.07	36	54	55.921	107	25	50.165	
2655.00	10.31	214.96	2620.77	-313.84	-220.26	383.42	0.23	36	54	55.829	107	25	50.244	
2718.00	10.69	213.21	2682.71	-323.35	-226.69	394.90	0.79	36	54	55.735	107	25	50.323	
2782.00	10.75	213.09	2745.59	-333.32	-233.20	406.80	0.10	36	54	55.636	107	25	50.403	
2844.00	11.06	213.34	2806.47	-343.13	-239.63	418.52	0.51	36	54	55.539	107	25	50.483	
2907.00	11.06	214.59	2868.30	-353.16	-246.38	430.60	0.38	36	54	55.440	107	25	50.566	
2970.00	10.75	214.96	2930.17	-362.95	-253.17	442.52	0.50	36	54	55.343	107	25	50.649	
3034.00	10.77	218.50	2993.04	-372.52	-260.32	454.46	1.03	36	54	55.249	107	25	50.737	
3097.00	10.31	218.21	3054.98	-381.55	-267.47	465.96	0.73	36	54	55.160	107	25	50.825	
3169.00	9.69	216.96	3125.88	-391.46	-275.10	478.45	0.91	36	54	55.062	107	25	50.919	
3223.00	9.69	215.71	3179.11	-398.78	-280.48	487.54	0.39	36	54	54.989	107	25	50.986	
3285.00	9.88	217.34	3240.21	-407.25	-286.75	498.07	0.54	36	54	54.905	107	25	51.063	
3349.00	10.63	217.96	3303.19	-416.27	-293.72	509.46	1.18	36	54	54.816	107	25	51.149	
3411.00	10.69	215.46	3364.12	-425.46	-300.57	520.92	0.75	36	54	54.725	107	25	51.233	
3474.00	10.26	212.45	3426.07	-434.95	-306.97	532.36	1.10	36	54	54.632	107	25	51.312	
3537.00	10.19	214.09	3488.07	-444.30	-313.10	543.54	0.48	36	54	54.539	107	25	51.387	
3601.00	9.38	211.84	3551.14	-453.42	-319.03	554.41	1.40	36	54	54.449	107	25	51.460	
3664.00	6.88	213.09	3613.50	-460.94	-323.80	563.31	3.98	36	54	54.375	107	25	51.519	
3714.00	5.69	219.34	3663.20	-465.37	-327.00	568.77	2.74	36	54	54.331	107	25	51.558	Last Wft Sy
3766.00	5.69	219.34	3714.94	-469.36	-330.27	573.91	0.00	36	54	54.291	107	25	51.599	7"
8070.00	2.00	219.34	8008.51	-692.53	-513.20	861.71	0.09	36	54	52.085	107	25	53.851	Proj Per G

Targets

Name	Description	TVD	N/S	E/W	Map Northing	Map Easting	Latitude Deg Min Sec	Longitude Deg Min Sec
	Dip Dir							



Weatherford International Ltd.

WFT Plan Report Lat, Long

**Weatherford**

Company:	Williams Production	Date:	6/27/2011	Time:	09.40.31	Page:	3
Field:	RIO ARRIBA CO-NM (NAD 83)	Co-ordinate(NE) Reference:	Well. #36C, True North				
Site:	Rosa Unit #36C	Vertical (TVD) Reference:	SITE 6435 0				
Well:	#36C	Section (VS) Reference:	Well (0.00N°0.00E,215.14Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
300.00	300.00	9.625	12.250	9 5/8"
3766.00	3714.94	7.000	8.500	7"

Formations

MD ft	TVD ft	Formations	Lithology	Dip/Angle deg	Dip Direction deg
1159.41	1150.00	Nacimiento Fm.		0.00	0.00
2501.77	2470.00	Ojo Alamo Ss.		0.00	0.00
2603.40	2570.00	Kirtland Sh		0.00	0.00
3020.72	2980.00	Fruitland Fm.		0.00	0.00
3284.78	3240.00	Pictured Cliffs Ss		0.00	0.00
3584.64	3535.00	Lewis Sh		0.00	0.00
5191.68	5135.00	Cliff House Ss. Trans		0.00	0.00
5497.56	5440.00	Cliff House Ss		0.00	0.00
5542.68	5485.00	Menefee Fm		0.00	0.00
5778.27	5720.00	Point Lookout Ss		0.00	0.00
6119.03	6060.00	Mancos Sh		0.00	0.00
7125.65	7065.00	Gallup Ss.		0.00	0.00
7836.33	7775.00	Greenhorn Ls.		0.00	0.00
7886.37	7825.00	Graneros Sh.		0.00	0.00
8016.45	7955.00	Dakota Ss		0.00	0.00
	0.00	Morrison Fm.		0.00	0.00

Annotation

MD ft	TVD ft	
372.00	372.00	First Wft Svy
3714.00	3663.20	Last Wft Svy
3766.00	3714.94	Proj To Bit
8070.00	8008.51	Proj. Per Gary