

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 30-039-30914	Pool Code 97232 / 72319 / 71599	Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
Property Code 17033	Property Name ROSA UNIT	Well Number 602
OGRID No. 120782	Operator Name WILLIAMS PRODUCTION COMPANY	Elevation 7028'

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
C	27	31N	4W		1200	NORTH	1715	WEST	RIO ARRIBA

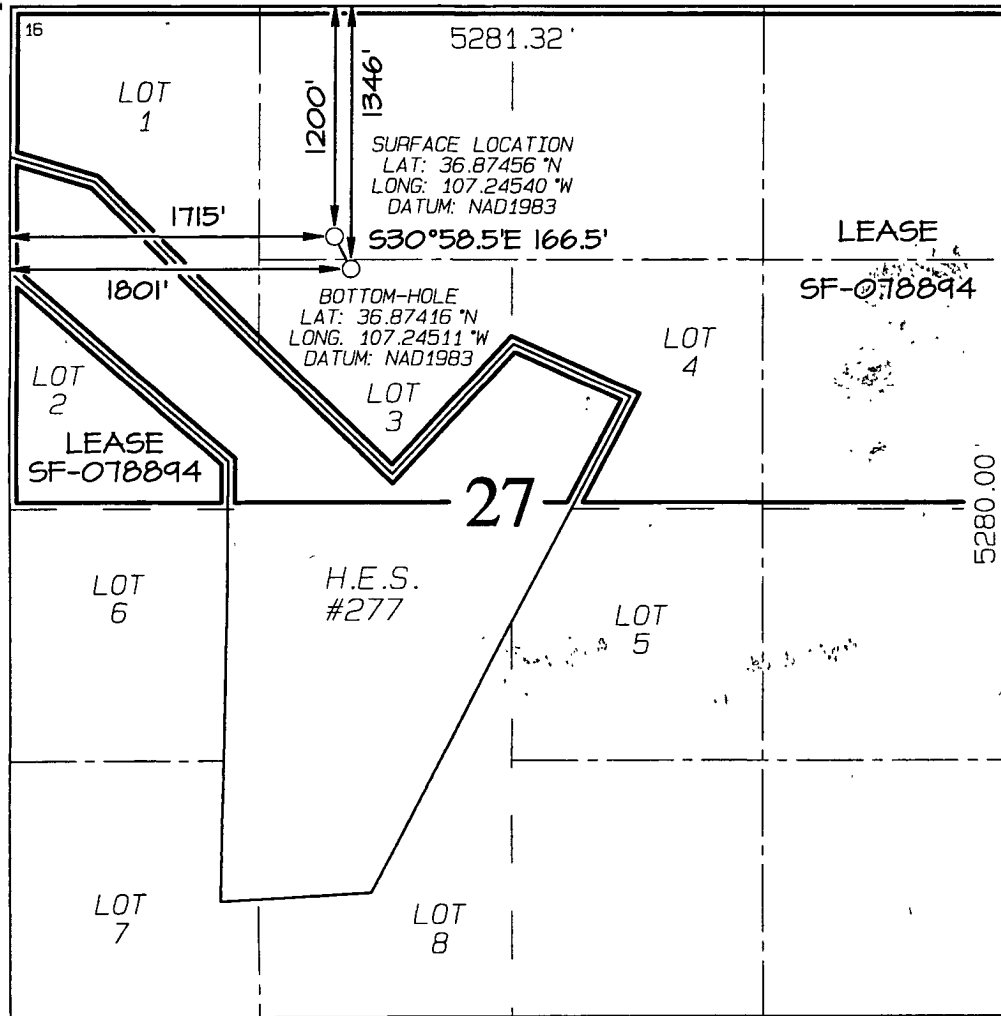
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	31N	4W		1346	NORTH	1801	WEST	RIO ARRIBA

12 Dedicated Acres 320.00 Acres - N/2	13 Joint or Infill	14 Consolidation Code	15 Order No. RCVD SEP 2 '10 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



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.

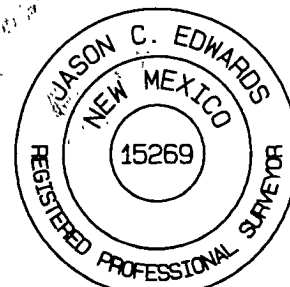
Signature: Larry Higgins Date: 9-2-10
Printed Name: Larry Higgins

18 SURVEYOR CERTIFICATION

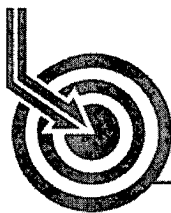
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: MAY 19, 2008

Signature, and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Scientific Drilling

Gyroscopic Survey Report
for
Williams

RCVD SEP 2 '10
OIL CONS. DIV.
DIST. 3

Well Location	
Well Name	Rosa Unit #602 <i>30-039-30914</i>
Rig Name	BWWC
Survey Date	2010/08/06
Latitude	36.87 deg
North Reference	True North
Grid Correction	0.00 deg
Depth Reference	14.5' RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 149.58Azim (deg)
Definitive Survey	Computed from Williams.BIN's HighSpeed: OutRun
Operator	M. Kasbaum

Comments

Survey from RKB to 8700' in 4.5" casing



Survey Report

Well Name: Rosa Unit #602

Survey: Computed from Williams.BIN's HighSpeed: OutRun

Survey Date: 2010/08/06

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.26	293.04	100.00	-0.18	0.09	-0.21	0.26	0.23	293.04
200.00	0.34	275.58	200.00	-0.54	0.21	-0.71	0.12	0.74	286.17
300.00	0.29	284.04	300.00	-0.89	0.30	-1.25	0.07	1.28	283.33
400.00	0.25	287.63	400.00	-1.22	0.42	-1.70	0.04	1.75	283.96
500.00	0.28	282.73	499.99	-1.55	0.54	-2.15	0.04	2.21	284.18
600.00	0.38	266.22	599.99	-1.87	0.57	-2.72	0.13	2.78	281.96
700.00	0.42	256.79	699.99	-2.13	0.47	-3.40	0.08	3.44	277.84
800.00	0.48	250.96	799.99	-2.32	0.25	-4.16	0.08	4.17	273.39
900.00	0.51	248.11	899.98	-2.47	-0.06	-4.98	0.04	4.98	269.33
1000.00	0.50	251.10	999.98	-2.62	-0.37	-5.80	0.03	5.81	266.40
1100.00	0.46	249.52	1099.98	-2.78	-0.65	-6.59	0.04	6.62	264.40
1200.00	0.54	249.61	1199.97	-2.93	-0.95	-7.41	0.08	7.47	262.68
1300.00	0.49	251.76	1299.97	-3.10	-1.25	-8.25	0.06	8.35	261.40
1400.00	0.47	253.21	1399.96	-3.29	-1.50	-9.05	0.02	9.17	260.59
1500.00	0.52	254.21	1499.96	-3.50	-1.74	-9.87	0.05	10.03	260.00
1600.00	0.44	257.17	1599.96	-3.73	-1.95	-10.68	0.08	10.86	259.66
1700.00	0.34	263.34	1699.96	-3.96	-2.07	-11.35	0.11	11.53	259.67
1800.00	0.35	258.57	1799.95	-4.18	-2.16	-11.94	0.03	12.13	259.73
1900.00	0.36	251.27	1899.95	-4.34	-2.33	-12.54	0.05	12.76	259.50
2000.00	0.37	244.60	1999.95	-4.44	-2.56	-13.13	0.04	13.38	258.95
2100.00	0.35	243.54	2099.95	-4.49	-2.84	-13.70	0.02	13.99	258.29
2200.00	0.32	250.41	2199.95	-4.56	-3.07	-14.23	0.05	14.56	257.83
2300.00	0.28	262.57	2299.94	-4.71	-3.19	-14.74	0.08	15.08	257.77
2400.00	0.32	35.83	2399.94	-4.91	-3.00	-14.82	0.55	15.12	258.55
2500.00	0.46	65.81	2499.94	-4.98	-2.61	-14.29	0.24	14.53	259.64
2600.00	0.56	74.37	2599.94	-4.81	-2.32	-13.46	0.13	13.65	260.23
2700.00	0.53	95.24	2699.93	-4.42	-2.23	-12.52	0.20	12.71	259.91
2800.00	0.49	102.43	2799.93	-3.85	-2.36	-11.63	0.07	11.87	258.52
2900.00	0.51	110.19	2899.93	-3.22	-2.61	-10.80	0.07	11.11	256.42
3000.00	0.40	92.33	2999.92	-2.69	-2.78	-10.03	0.18	10.41	254.53
3100.00	0.38	107.25	3099.92	-2.25	-2.89	-9.37	0.10	9.81	252.87
3200.00	0.40	108.37	3199.92	-1.75	-3.10	-8.72	0.03	9.26	250.46
3300.00	0.29	58.52	3299.92	-1.49	-3.07	-8.17	0.31	8.73	249.38
3400.00	0.24	35.47	3399.92	-1.58	-2.77	-7.83	0.12	8.30	250.52
3500.00	0.42	46.29	3499.91	-1.75	-2.35	-7.44	0.18	7.80	252.51
3600.00	0.38	39.38	3599.91	-1.94	-1.84	-6.97	0.06	7.21	255.21
3700.00	0.52	51.32	3699.91	-2.12	-1.30	-6.41	0.17	6.54	258.51
3800.00	0.47	44.08	3799.90	-2.30	-0.73	-5.77	0.08	5.82	262.83



Survey Report

Well Name: Rosa Unit #602
 Survey: Computed from Williams.BIN's HighSpeed: OutRun
 Survey Date: 2010/08/06

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3900.00	0.63	85.11	3899.90	-2.17	-0.39	-4.94	0.41	4.96	265.52
4000.00	0.51	90.29	3999.90	-1.71	-0.34	-3.95	0.13	3.97	265.05
4100.00	0.40	78.62	4099.89	-1.36	-0.28	-3.16	0.14	3.17	265.02
4200.00	0.26	79.51	4199.89	-1.17	-0.16	-2.59	0.15	2.60	266.37
4300.00	0.20	34.54	4299.89	-1.17	0.02	-2.27	0.18	2.27	270.52
4400.00	0.30	110.76	4399.89	-1.04	0.07	-1.93	0.32	1.93	272.13
4500.00	0.46	121.78	4499.89	-0.48	-0.23	-1.34	0.17	1.36	260.15
4600.00	1.14	153.12	4599.88	0.87	-1.33	-0.55	0.79	1.44	202.38
4700.00	1.52	127.25	4699.85	3.09	-3.02	0.95	0.70	3.17	162.48
4800.00	2.15	124.62	4799.80	6.02	-4.89	3.55	0.64	6.05	144.01
4900.00	3.14	128.79	4899.69	10.28	-7.67	7.23	1.00	10.54	136.70
5000.00	4.15	129.33	4999.49	16.23	-11.68	12.16	1.01	16.87	133.84
5100.00	5.12	130.95	5099.16	23.86	-16.90	18.33	0.98	24.93	132.67
5200.00	5.59	130.94	5198.72	32.70	-23.02	25.38	0.48	34.26	132.20
5300.00	5.75	131.00	5298.23	42.06	-29.50	32.85	0.16	44.14	131.92
5400.00	5.81	131.51	5397.72	51.62	-36.13	40.41	0.08	54.21	131.80
5500.00	5.94	131.04	5497.20	61.34	-42.89	48.11	0.14	64.45	131.72
5600.00	6.82	131.91	5596.58	71.91	-50.25	56.43	0.88	75.56	131.69
5700.00	6.37	132.89	5695.92	82.87	-57.99	64.91	0.47	87.04	131.78
5800.00	4.38	132.38	5795.47	91.83	-64.34	71.80	1.99	96.41	131.87
5900.00	3.29	133.50	5895.25	98.24	-68.89	76.70	1.09	103.09	131.93
6000.00	2.61	136.07	5995.11	103.21	-72.50	80.36	0.70	108.23	132.06
6100.00	2.37	143.26	6095.02	107.48	-75.80	83.17	0.39	112.53	132.34
6200.00	2.26	148.22	6194.94	111.51	-79.14	85.45	0.23	116.47	132.80
6300.00	2.26	146.07	6294.86	115.45	-82.45	87.59	0.08	120.29	133.27
6400.00	1.75	147.60	6394.80	118.93	-85.37	89.51	0.52	123.69	133.64
6500.00	1.52	147.39	6494.76	121.78	-87.77	91.04	0.22	126.46	133.95
6600.00	1.17	146.70	6594.73	124.13	-89.74	92.31	0.36	128.74	134.19
6700.00	0.91	141.95	6694.71	125.93	-91.22	93.36	0.27	130.52	134.34
6800.00	0.86	142.24	6794.70	127.45	-92.43	94.30	0.05	132.05	134.43
6900.00	0.95	142.96	6894.69	129.02	-93.69	95.26	0.09	133.61	134.52
7000.00	1.34	157.38	6994.67	131.01	-95.43	96.21	0.48	135.51	134.77
7100.00	1.66	168.34	7094.64	133.54	-97.93	96.96	0.43	137.81	135.29
7200.00	2.01	174.30	7194.58	136.50	-101.09	97.42	0.39	140.40	136.06
7300.00	2.49	183.04	7294.51	139.91	-105.01	97.48	0.59	143.28	137.13
7400.00	2.68	186.31	7394.41	143.59	-109.50	97.11	0.24	146.36	138.43
7500.00	2.51	188.07	7494.30	147.18	-113.99	96.55	0.19	149.38	139.74
7600.00	2.14	192.87	7594.22	150.26	-117.98	95.82	0.42	151.99	140.92



Survey Report

Well Name: Rosa Unit #602
Survey: Computed from Williams.BIN's HighSpeed: OutRun
Survey Date: 2010/08/06

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
7700.00	1.89	196.45	7694.16	152.75	-121.39	94.94	0.28	154.10	141.97
7800.00	1.57	199.24	7794.11	154.76	-124.27	94.02	0.33	155.83	142.89
7900.00	1.36	196.19	7894.08	156.47	-126.70	93.23	0.23	157.31	143.65
8000.00	1.25	194.87	7994.05	158.05	-128.90	92.62	0.11	158.73	144.30
8100.00	1.73	201.60	8094.02	159.75	-131.36	91.79	0.51	160.25	145.06
8200.00	2.04	198.81	8193.97	161.85	-134.46	90.66	0.32	162.16	146.01
8300.00	2.15	191.61	8293.90	164.40	-137.98	89.70	0.28	164.58	146.97
8400.00	1.26	194.25	8393.85	166.58	-140.88	89.06	0.89	166.67	147.70
8500.00	1.21	207.95	8493.83	167.91	-142.88	88.29	0.30	167.96	148.29
8600.00	1.08	219.07	8593.81	168.80	-144.55	87.20	0.26	168.81	148.90
8700.00	1.31	230.47	8693.79	169.31	-146.01	85.72	0.33	169.31	149.58