

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
RCVD SEP 24 '08

OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 39-30410		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 378
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6511'

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	27	31N	5W		2060	NORTH	1945	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	27	31N	5W		1601	NORTH	935	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (E/2)	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

¹⁶ LEASE SF-078770	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: <u>Heather Riley</u> Date: <u>9/24/08</u> Printed Name: <u>Heather Riley</u>
	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: SEPTEMBER 21, 2008 Survey Date: NOVEMBER 10, 2005 Signature and Seal of Professional Surveyor JASON C. EDWARDS Certificate Number 15269



Scientific Drilling

Gyroscopic Survey Report for Williams

Well Location	Sec. 27-T-31-N R-5-W Rio Arriba County New Mexico
Well Name	Rosa Unit #378 FRT
Rig Name	AWS 520
Survey Date	2008/08/25
Latitude	36.87 deg
North Reference	True North
Grid Correction	0.00 deg
Depth Reference	RKB (14')
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	Computed from ROSA378.BIN's HighSpeed: InRun
Operator	Brett Lanier

Comments

Surveyed from RKB (14') to 3650'
Surveyed in 2 7/8 drill pipe
Surveyed RKB 14'

RCVD SEP 19 '08
OIL CONS. DIV.

DIST. 3



Survey Report

Well Name: Rosa Unit #378 FRT

Survey: Computed from ROSA378.BIN's HighSpeed: InRun

Survey Date: 2008/08/25

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft
0 00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
100 00	1.00	322.22	99.99	0.69	0.69	-0.53	1.00
200.00	0.84	322.97	199.98	1.96	1.96	-1.51	0.16
300.00	0.79	322.98	299.97	3.09	3.09	-2.36	0.05
400 00	0.78	13.18	399.96	4.30	4.30	-2.62	0.66
500.00	3.46	56.82	499.89	6.61	6 61	0.06	2.94
600.00	6.33	65.24	599.52	10.57	10.57	7 59	2.95
700.00	9.52	67.44	698.55	16.05	16.05	20.23	3.20
800.00	11.38	71.73	796.89	22.32	22.32	37.24	2.02
900.00	14 64	68.62	894.31	30.02	30.02	58.39	3.33
1000.00	18.15	66.05	990.23	40.96	40.96	84 40	3.58
1100.00	21.95	65.02	1084.15	55.18	55.18	115.58	3.82
1200.00	22.47	62.58	1176.73	71.87	71.87	149.49	1.05
1300.00	23.83	66.28	1268 68	88.80	88.80	184.95	1.99
1400.00	24.09	66.68	1360.06	105.00	105.00	222.19	0.31
1500.00	23.72	66.07	1451.49	121.24	121.24	259.32	0.45
1600.00	22 97	64.50	1543.30	137.80	137.80	295.31	0 98
1700.00	22.77	63.76	1635.44	154.76	154.76	330 27	0.35
1800.00	22.04	65.32	1727.90	171.15	171.15	364.68	0.94
1900.00	22.94	66.29	1820.29	186.82	186 82	399.57	0.98
2000.00	22.53	68.40	1912.52	201.71	201.71	435.23	0.91
2100.00	22.49	66.65	2004.90	216.35	216.35	470.60	0 67
2200.00	23.57	65 80	2096.93	232.12	232.12	506.40	1.13
2300.00	23.94	65.30	2188.46	248.80	248.80	543.07	0.42
2400 00	22.92	63.39	2280.21	266.00	266.00	578.91	1.27
2500.00	23.09	64.16	2372 26	283.27	283.27	613.97	0.34
2600.00	22.54	65.64	2464.44	299.72	299.72	649.07	0.79
2700 00	22 96	65.96	2556.66	315.57	315.57	684.34	0.43
2800.00	22.97	66 25	2648.73	331.37	331.37	720.02	0.12
2900.00	22.24	68.35	2741 05	346.22	346.22	755.47	1.09
3000 00	23 06	67.76	2833.34	360.61	360.61	791.19	0.84
3100.00	22 19	66.57	2925.64	375.54	375.54	826.65	0.98
3200.00	22.92	65 92	3017.99	390.99	390.99	861.76	0.77
3300.00	23.34	64.71	3109.95	407.40	407 40	897 45	0.63
3400.00	23.60	64.06	3201.68	424.62	424.62	933 36	0.36
3500.00	20.32	66.27	3294.41	440.36	440.36	967.27	3.38
3600.00	17 09	66.35	3389 12	453.25	453.25	996.63	3.23
3650.00	16.49	67.15	3436.98	458.95	458.95	1009 90	1.29

RCVD SEP 19 '08

OIL CONS. DIV.

DIST. 3

ROSA UNIT #378
BASIN FRUITLAND COAL

Surface Location:

2060' FNL and 1945' FEL
SW/4 NE/4 Sec 27 (G), T31N, R5W
Rio Arriba, NM

Bottom Hole Location:

1601' FNL and 935' FEL
SE/4 NE/4 Sec 27 (H), T31N, R5W
Rio Arriba, NM

Elevation: 6511' GR
API # 30-039-30410

Spud: 07/26/08

Completed: 09/16/08

1st Delivered: 00/00/00

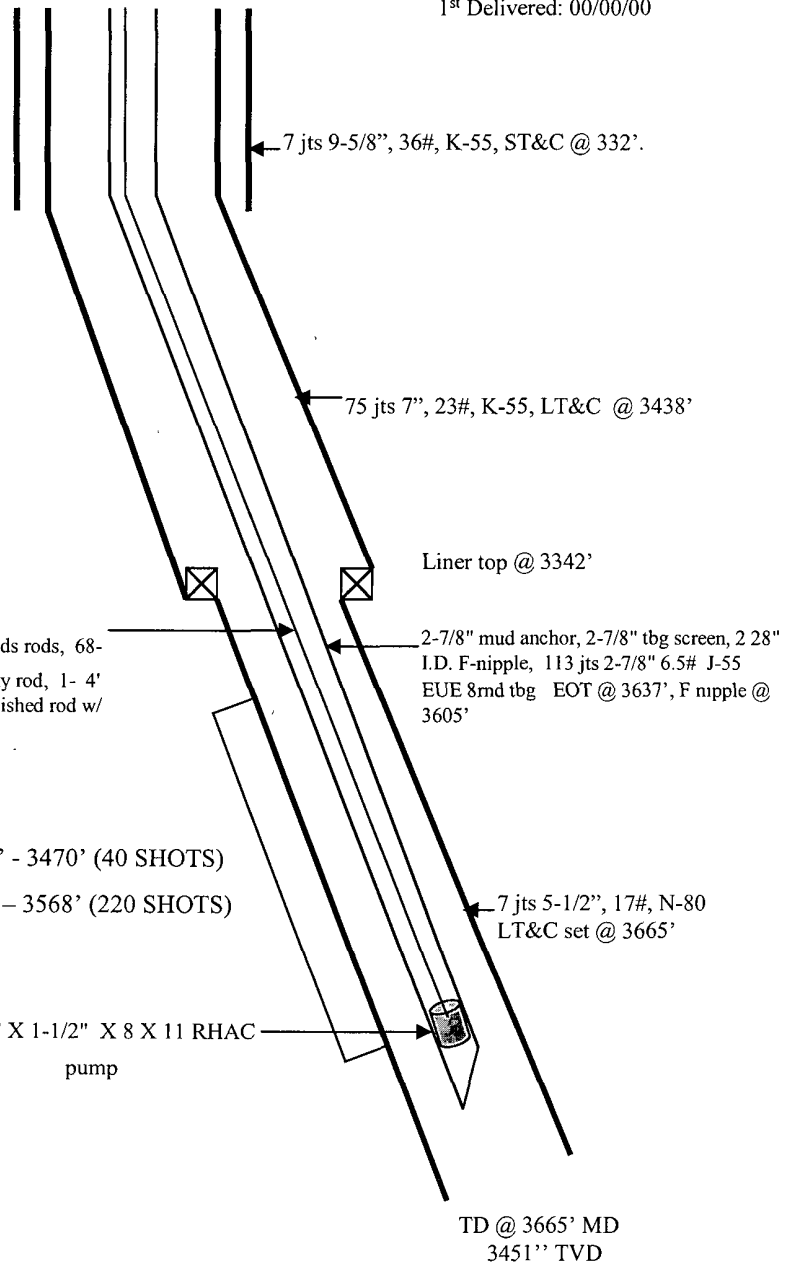
Top	MD Depth	TVD Depth
Ojo Alamo	2810'	2660'
Kirtland	2930'	2770'
Fruitland	3332'	3140'

3 - 1-1/2" HF sinker rods, 72 -3/4" API D rods rods, 68-
3/4" API D 3 per 2-1/2 guided rods, 1- 8' pony rod, 1- 4'
pony rod, 1 - 2' pony rod & 1-1/4" X 16' polished rod w/
8' X 1-1/2" liner

0.53", 4SPF 3460' - 3470' (40 SHOTS)
260 holes total 3513' - 3568' (220 SHOTS)

2-1/2" X 1-1/2" X 8 X 11 RHAC
pump

Open hole from 6-1/4" to 9-1/2"
from 3444' to 3665' MD



Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	150 sxs	212 cu.ft.	Surface
8-3/4"	7", 23#	490 sxs	998 cu.ft.	Surface
6-1/4"	5-1/2", 17#	Did Not Cmt		