

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

2003 APR 16 AM 9:28

5. LEASE DESIGNATION AND SERIAL NO.

SF-078765

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Rosa Unit

8. FARM OR LEASE NAME, WELL NO.

273 A

9. API WELL NO.

30 045 31634

10. FIELD AND POOL OR WILDCAT

Basin Fruitland Coal

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

1/4 Sec. 8, T31N, R6W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

1b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Williams Production Company, LLC

3. ADDRESS OF OPERATOR

c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *)

At Surface 2405' FSL and 2450' FWL

At proposed Prod. Zone 1855' 10'

1080' FSL & 1080' FEL - section 8, T31N, R6W (End of lateral)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

23 miles NE of Blanco, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY
OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

1165'

16. NO. OF ACRES IN LEASE

2460.23

17. NO. OF ACRES ASSIGNED TO THIS WELL

320 5/2

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL,
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

50'

19. PROPOSED DEPTH

3137' TVD

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6312'

22. APPROX. DATE WORK WILL START*

May 15, 2003

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36.0#	+/- 300'	~211 cu.ft. Type III w/ 2% CaCl ₂ & CF
8-3/4"	7"	20.0#	+/- 3230'	~762cu.ft. 65/35 poz & ~209cu.ft. Type III
6-1/4"	4-1/2"	10.5#	~ 3130' - 5367' (MD)	Open hole completion - no cement

Williams Production Company proposes to drill a horizontal well to develop the Fruitland Coal formation at the above described location in accordance with the attached drilling and surface use plans.

This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will require approximately 700' of new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that crosses NE/SW, SE/NW, SW/NW, NW/NW section 8, NE/NE section 7, SE/SE section 6, W/2 sec. 5 all of T31N, R6W, SW/SW, NW/SW sec 32, NE/SE, SE/NE, NE/NE sec. 31, SE/SE, NE/SE, SE/NW & NW/NW of sec. 30 all of T32N, R6W & NE/NE of sec. 25 of 32N, R7W where it joins San Juan County Road #4020.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE John C. Thompson, Agent

DATE

4/15/2003

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

HOLD C104 FOR Directional Survey
And NSL

NMOCD

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.6
and appeal pursuant to 43 CFR 3165.4



District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-31634		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 273A
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6312'

¹⁰ Surface Location

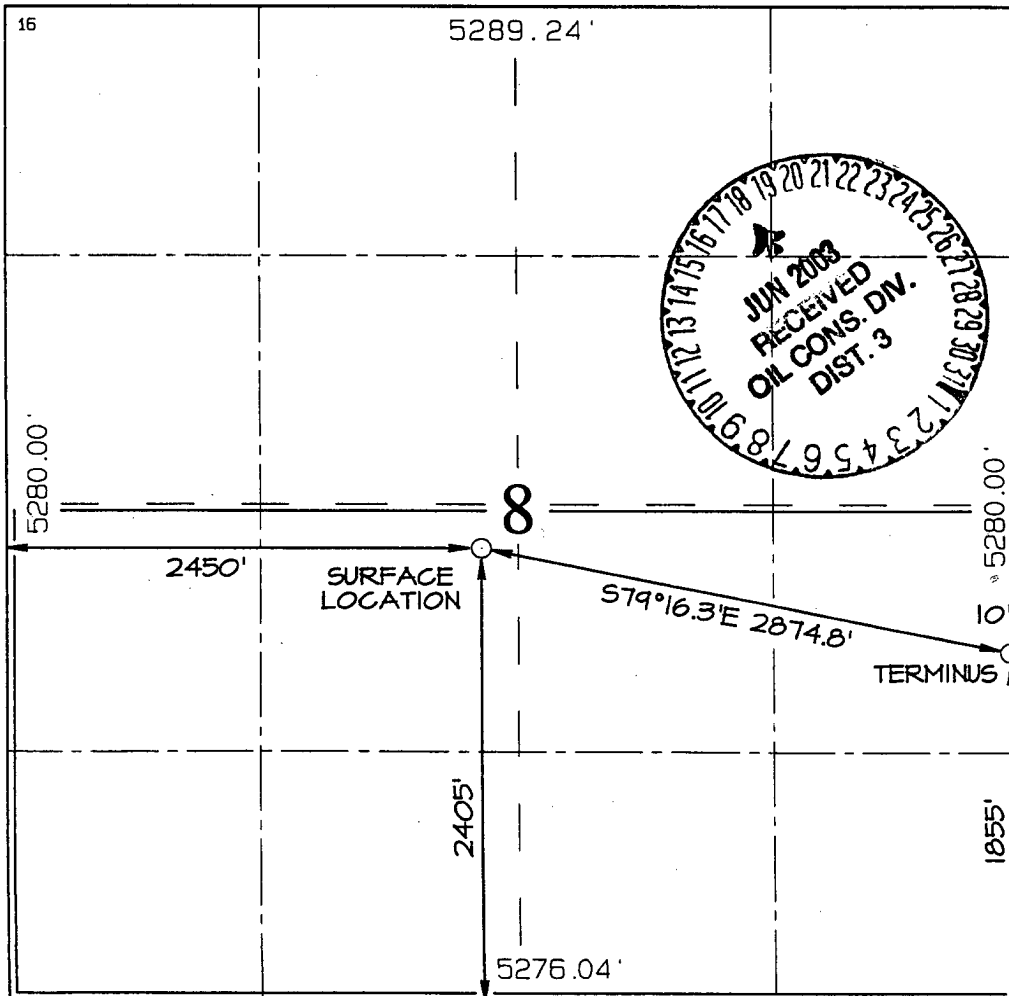
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	8	31N	6W		2405	SOUTH	2450	WEST	SAN JUAN

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
I	8	31N	6W		1855	SOUTH	10	EAST	SAN JUAN

¹² Dedicated Acres 320.0 Acres - (S/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

<p>¹⁶</p> 	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>[Signature]</i></p> <p>Signature</p> <p>John C. Thompson</p> <p>Printed Name</p> <p>Agent/Engineer</p> <p>Title</p> <p>5/27/03</p> <p>Date</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Revised: APRIL 27, 2003</p> <p>Survey Date: DECEMBER 6, 2002</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>[Signature]</i></p> <p>Jason C. Edwards</p> <p>Certificate Number 15269</p>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals

070 Farmington, NM

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Williams Production Company, LLC

3. Address and Telephone No. C/O Walsh Engineering & Production Corp.
7415 East Main, Farmington, NM 87402 505-327-4892

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2405' FSL & 2450' FWL Sec 8, T31N, R6W

5. Lease Designation and Serial No.
SF - 078765

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Rosa

8. Well Name and No.
Rosa #273A

9. API Well No.
3004531634

10. Field and Pool, or Exploratory Area
Basin Fruitland Coal

11. County or Parish, State
San Juan, NM

CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other See Below

- ☒ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Williams Production Company, LLC intends to change the target depth (BHL) for the Rosa #273A (horizontal coal well) from the BHL on the APD to the following BHL. The bottom hole location at TD is now planned to be 1855' FSL & 10' FEL.

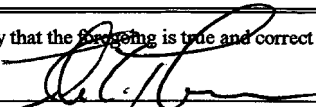
Attached: New Plat showing new BHL

Directional Plan w/ Well Bore Schematic

New operations plan

14. I hereby certify that the foregoing is true and correct

Signed



(John C. Thompson)

Title

Agent/Engineer

Date

05/28/03

(This space for Federal or State office use)

18/ David J. [Signature]

Approved by

Title

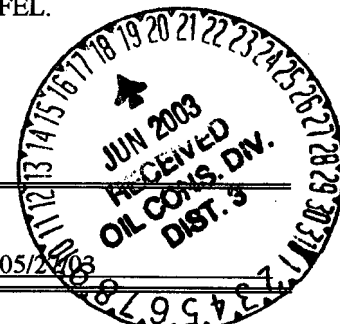
Date

JUN 16 2003

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



NMOC



WILLIAMS PRODUCTION COMPANY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 5/27/2003

WELLNAME: Rosa #273A **FIELD:** Basin Fruitland Coal

LOCATION: NE/4 SW/4 Sec. 8, T31N, R6W **SURFACE:** Fed

ELEVATION: 6512' GR **MINERALS:** Fed

TOTAL DEPTH: 5669' **LEASE #** SF-078765

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB) Tops are estimates only. Logs will determine true depths.

	TVD	MD
Ojo Alamo	2282'	2282'
Kirtland	2397'	2397'
Fruitland	2887'	2924'
Top of Coal	3027'	3257'
Base of Coal	3127'	3357'
Pictured Cliffs	3127'	3357'
Vertical section TD	3032'	5669'
Total Depth	3127'	

*** Note:** Well will be vertically drilled to 100' into Picture Cliff, logged through the PC, plug the PC then pull up and horizontally drill through the coal.

B. LOGGING PROGRAM: High Resolution SDL from TD to intermediate casing; DSN from TD to surface casing. Mud logger will be present to determine TD.

C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM: Clear water with benex to 7" casing point. Treat for lost circulation as necessary. Expect 100% returns prior to cementing. Notify Engineering of any mud losses. If coal is detected before 3125' DO NOT drill deeper until Engineering is contacted.

B. Drilling Fluid: Horizontal Coal section will be drilled with produced Fruitland Coal water.

C. MUD LOGGING PRORAM: Mud logger will be on location at drill out below 7" casing to TD.

C. BOP TESTING: While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the rams will be tested to 1500 psi. The surface and intermediate casing strings will be pressure tested to 1500 psi in conjunction with BOP test before drilling out cement. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	300'(MD)	9-5/8"	36# K-55
Intermediate	8-3/4"	3230'(MD)	7"	20# K-55
Prod. Liner	6-1/4"	3130-5669'(MD)	4-1/2"	10.5# K-55

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe.
2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self- fill insert float. Place float one(1) joint above the shoe and five(5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1585' to the surface. Total centralizers = 5 regular and 14 turbulent.
3. PRODUCTION LINER: 4-1/2"liner with notched collar on bottom.

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

1. SURFACE: Use 160 sx (211 cu.ft.) of "Type III" with 2% CaCl₂ and 1/4# of cello-flake/sk (Yield = 1.41 cu.ft./sk, Weight = 14.5 #/gal.). Use 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
2. INTERMEDIATE: Lead - 365 sx (762 cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% CaCl₂ and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 150 sx (209cu.ft.) of "Type III" with 1/4# cello-flake/sk, and 1% CaCl₂ (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use 100% excess in lead and tail to circulate to surface. Total volume = 971 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated. Test to 1500#.
3. PRODUCTION LINER: Open hole completion. No cement.

IV COMPLETION

A. PRESSURE TEST

Pressure test 7" casing to 3300# for 15 minutes.

B. STIMULATION

None expected

Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

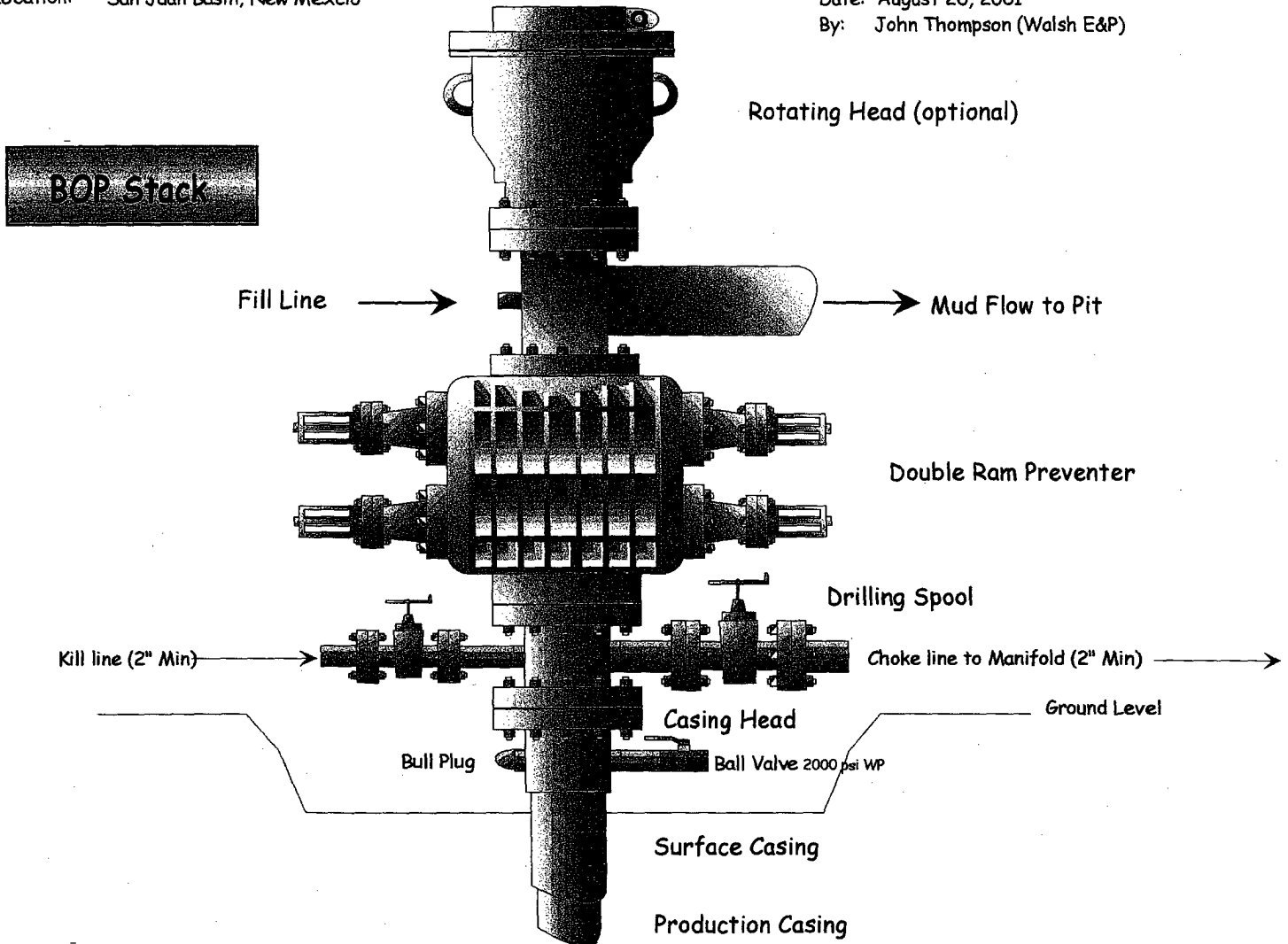
Attachment to Drilling Technical Program

Typical BOP setup

Location: San Juan Basin, New Mexico

Date: August 20, 2001

By: John Thompson (Walsh E&P)



Choke & Kill Manifold

