FORM 3160-3
(December 1990)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: SF-0078762

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

1b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER [ ] SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Rosa Unit

8. FARM OR LEASE NAME, WELL NO.: No. 382

2. NAME OF OPERATOR: Williams Production Company, LLC

9. API WELL NO.: 30039 29364

3. ADDRESS OF OPERATOR: P. O. Box 316 - Ignacio, CO 81137 (970) 563-3308

10. FIELD AND POOL OR WILDCAT: Basin Fruitland Coal

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At Surface: 95' FSL & 1415' FEL
At proposed Prod. Zone: 575' FSL & 1555' FEL to 1980' FSL & 1980' FEL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: O Sec. 12,T31N, R5W (W½SE¼)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 30 miles NE of Blanco, NM

12. COUNTY OR PARISH: Rio Arriba

13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 575

16. NO. OF ACRES IN LEASE: 2,560.00

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320.0 (E/2)

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.: 5,000

19. PROPOSED DEPTH: 5954'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6,671' GR

22. APPROX. DATE WORK WILL START*: April 1, 2005

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'	~206 cu.ft. Type III with 2% $CaCl_2$
8-3/4"	7"	20.0#	+/- 3742'	~1,070 cu.ft.65/35 poz & ~139 cu.ft.Type III
6-1/4"	4-1/2"	10.5#	+/- 3200'-7164'	Open hole completion - no cement

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

The surface is under the jurisdiction of the Carson National Forest, Jicarilla Ranger District.
This location has been archaeologically surveyed by La Plata Archaeological Consultants.
Copies of their report have been submitted directly to the Jicarilla Ranger Distrcit of the Carson National Forest.
This APD also is serving as an application to obtain a pipeline right-of-way. No new access road will be required by this well.
A pipeline tie of approximately 8,218.80 feet will be required by this action.
The pipeline begins at the existing Rosa #371 well in the SW¼, Section 13, T. 31N., R. 5W.
and extends to the proposed Rosa #382 well. HOLD C104 FOR Directional Survey

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 Larry Higgins TITLE Larry Higgins, Drlg COM DATE 11/19/2004

(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 AFM DATE 6-8-05

*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.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

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

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

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-29364	71629	BASIN FRUITLAND COAL

[4] Property Code	[5] Property Name	[6] Well Number
17033	ROSA UNIT	382

[7] OGRID No.	[8] Operator Name	[9] Elevation
120782	WILLIAMS PRODUCTION COMPANY	6671'

[10] Surface Location

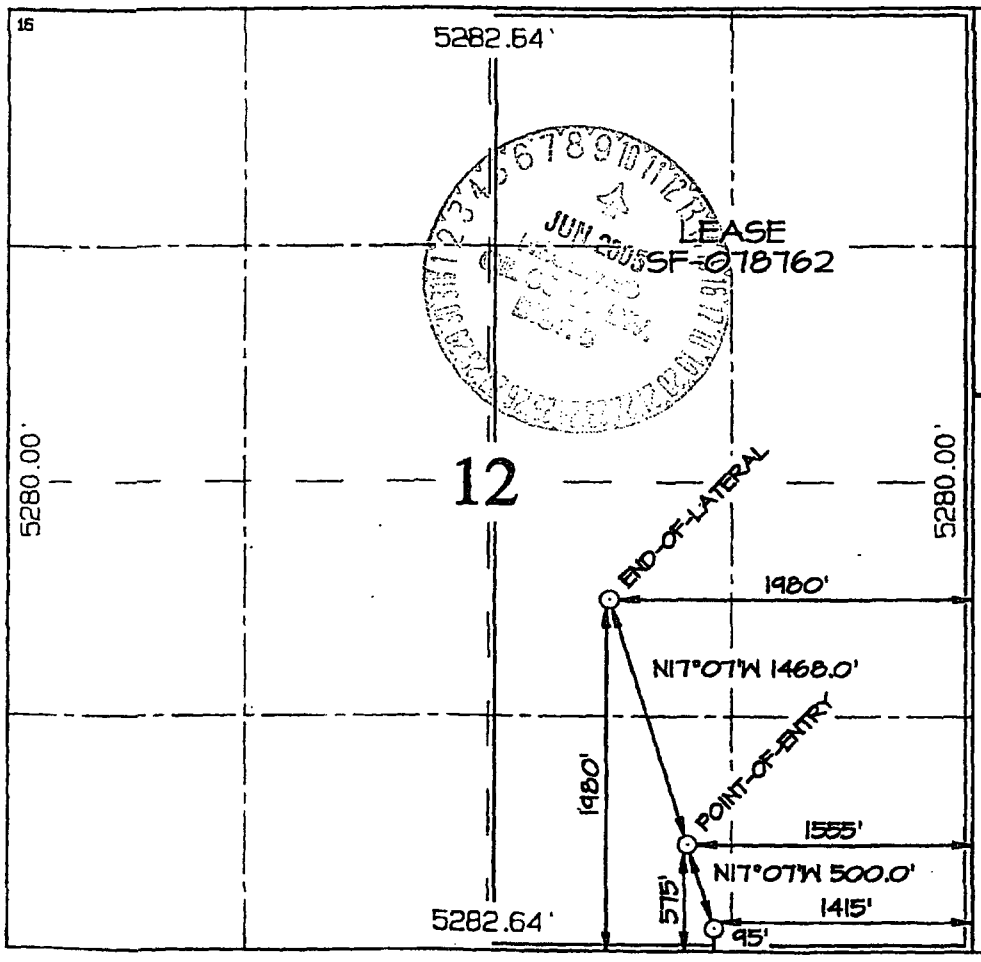
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	12	31N	5W		95	SOUTH	1415	EAST	RIO ARRIBA

[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
J	12	31N	5W		1980	SOUTH	1980	EAST	RIO ARRIBA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320.0 Acres - (E/2)			

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

Signature

Printed Name: Lacey Higgins

Title: Drilling Com

Date: 12-3-04

[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: JUNE 21, 2004

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS

Certificate Number 15269

Plat #2 Well Location and Dedication Plat

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
May 27, 2004

WELL API NO.

5. Indicate Type of Lease FEDERAL
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
Federal NMSF-0078762

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Rosa Unit

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

8. Well Number 382

2. Name of Operator
Williams Exploration and Production Company

9. OGRID Number 120782

3. Address of Operator
P.O. Box 316, Ignacio, CO 81137

10. Pool name or Wildcat
Basin Fruitland Coal

4. Well Location
Unit Letter O: 95 feet from the south line and 1415 feet from the east line
Section 12 Township 31N Range 5W NMPM County Rio Arriba

11. Elevation (*Show whether DR, RKB, RT, GR, etc.*)
6,671' GR

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type drilling Depth to Groundwater >100' Distance from nearest fresh water well >1,000' Distance from nearest surface water >1,000'

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:	☐			OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Below-grade Tank to be constructed in accordance with NMOCD Interim Pit and Below-grade Tank Guidelines

Production pit to be located approximately 50 feet west of the well head.

Reserve pit to be located approximately 30 feet east of the well head.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Larry Higgins TITLE Drilling COM DATE 11-22-2004

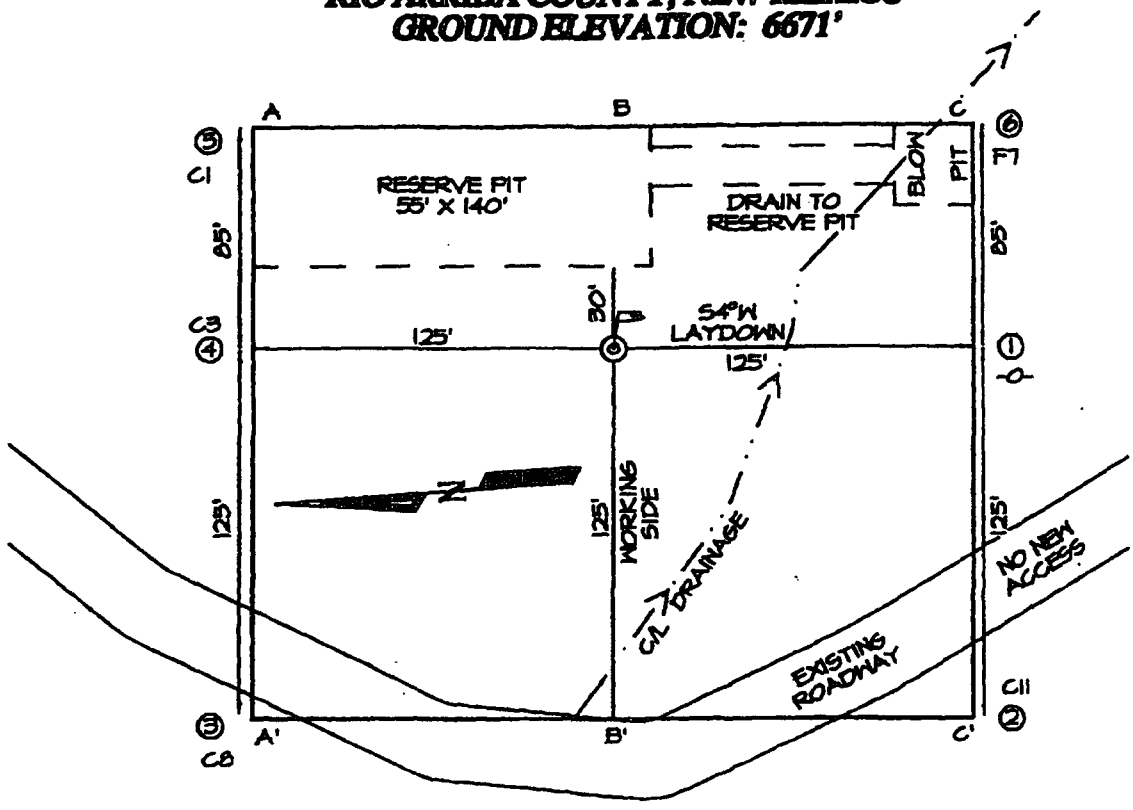
Type or print name Larry Higgins E-mail address: larry.higgins@williams.com Telephone No. (970) 563-3308

For State Use Only

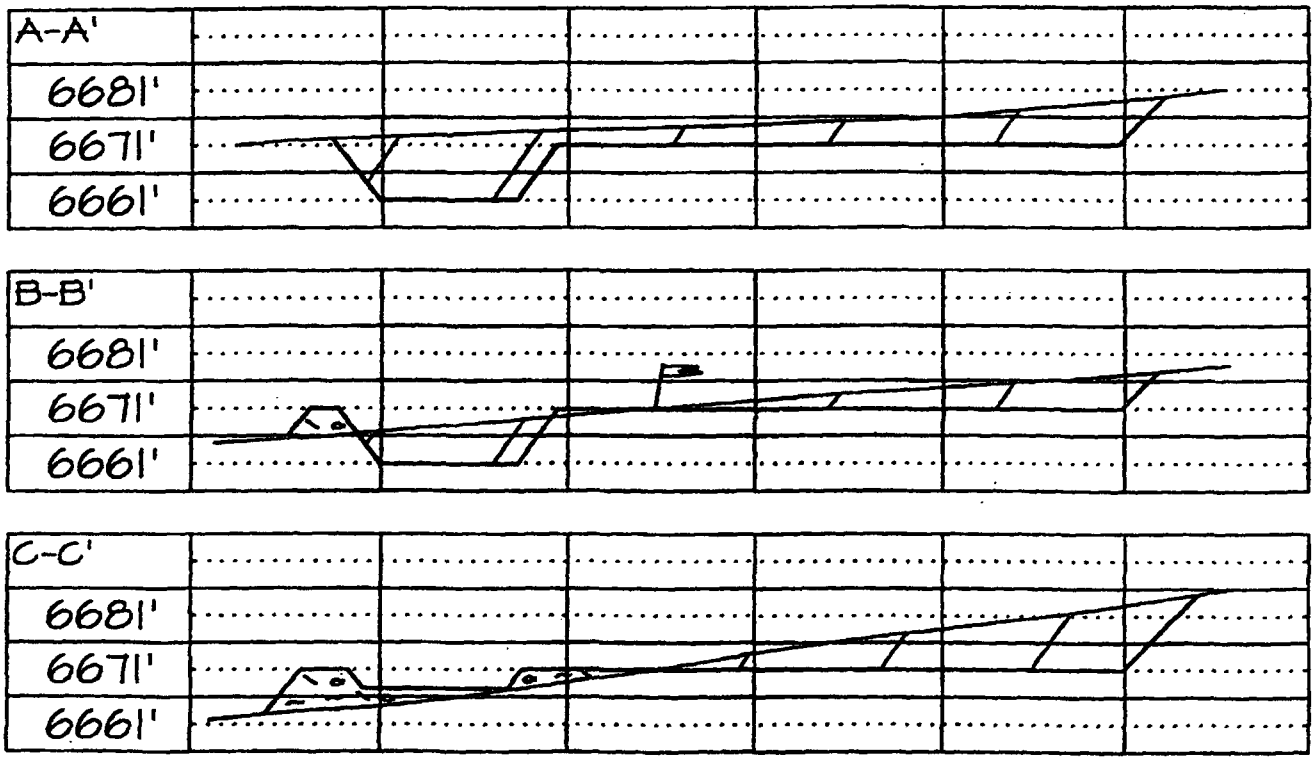
APPROVED BY: _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE JUN 10 2005

Conditions of Approval (if any):

WILLIAMS PRODUCTION COMPANY ROSA UNIT #382
95' FSL & 1415' FEL, SECTION 12, T31N, R5W, NMPM
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6671'



LATITUDE: 36°54'25"
LONGITUDE: 107°18'31"
DATUM: NAD1927



FILE NAME: ROSA382CP-2	SHEET 2 OF 9	NCE SURVEYS, INC.	DRAWN BY: KER	CHECKED BY: JCE

Plat #4 Location Layout

WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:	**10/19/2004**		
WELLNAME:	Rosa #382	**FIELD:**	Basin Fruitland Coal
SURF LOCATION:	SWSE Sec. 12-T31N-R5W San Juan, NM	**SURFACE:**	Forest
BH LOCATION	NWSE Sec 12-31N-5W		
ELEVATION:	6,671' GR	**MINERALS:**	Federal
TOTAL DEPTH:	5,954'	**LEASE #**	SF-078762

I. **GEOLOGY:** Surface formation - San Jose

A. **FORMATION TOPS:** (KB)

		Pilot Hole	Horizontal Section				Pilot Hole	Horizontal Section
		TVD	MD				TVD	MD
San Jose		Surface	Surface		Top Coal		3,391	3,451
Nancimiento		1,586	1,586		Top Target Coal		3,486	3,742
Ojo Alomo		2,866	2,866		Bottom Target Coal		3,491	
Kirtland		2,976	2,976		Base Coal		3,501	
Fruitland		3,321	3,349		Picture Cliffs		3,506	
					TD		3,601	7,164

- **NOTE: Well will be vertically drilled to 100' into Picture Cliff, logged through the PC, plug back the PC and 8-3/4" hole to 200 ft. above adjusted KOP. Dress / Kick-off cement plug and horizontally drill through the coal.**

B. **LOGGING PROGRAM:** High Resolution Induction/ GR and Density/ Neutron log from surface to intermediate casing point and High Resolution Induction/ GR and Density/ Neutron log from intermediate shoe to TD. Onsite geologist will pick Density/ Neutron log intervals on both logging runs.

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

D. **SURVEYING:** Run Single Shot surveys every 500 ft. while drilling the Pilot Hole to 3,469 ft. (MD).

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 3459' DO NOT drill deeper until Engineering is contacted.

B. Drilling Fluid: Horizontal section will be drilled with Calcium Chloride water.

C. MUD LOGGING PRORAM: Mud logger will pick intermediate casing point and TD.

D. 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 the 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:

CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,742'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,200-7,164'	4-1/2" perfed	10.5# K-55

***Note: All casing depths are measured depths.**

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.

2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. **(NTL-FRA 90-1).**

3. PRODUCTION LINER: 4-1/2" perforated liner with guide shoe on bottom.

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 3459' DO NOT drill deeper until Engineering is contacted.

B. Drilling Fluid: Horizontal section will be drilled with Calcium Chloride water.

C. MUD LOGGING PRORAM: Mud logger will pick intermediate casing point and TD.

D. 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 the 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.

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CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,742'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,200-7,164'	4-1/2" perfed	10.5# K-55

***Note: All casing depths are measured depths.**

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.

2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. **(NTL-FRA 90-1).**

3. PRODUCTION LINER: 4-1/2" perforated liner with guide shoe on bottom.

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 3459' DO NOT drill deeper until Engineering is contacted.

B. Drilling Fluid: Horizontal section will be drilled with Calcium Chloride water.

C. MUD LOGGING PRORAM: Mud logger will pick intermediate casing point and TD.

D. 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 the 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:

CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,742'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,200-7,164'	4-1/2" perfed	10.5# K-55

***Note: All casing depths are measured depths.**

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.

2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. **(NTL-FRA 90-1).**

3. PRODUCTION LINER: 4-1/2" perforated liner with guide shoe on bottom.

C. CEMENTING:

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

1. SURFACE: Use 155 sx (206 cu.ft.) of "Type III" with 2% $CaCl_2$ and 1/4# of cello-flake/sk (Yield = 1.41 cu.ft./sk, Weight = 14.5 #/gal.). **Use 100% excess** to circulate the surface. WOC 12 hours. Total volume = 206 cu.ft. Test to 1500#.

2. INTERMEDIATE: Lead – 445 sx (931 cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% $CaCl_2$ and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 100 sx (139cu.ft.) of "Type III" with 1/4# cello-flake/sk, and 1% $CaCl_2$ (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use **120% excess in Lead Slurry** to circulate to surface. **No excess in Tail Slurry.** Total volume = 1,070 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.

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

C. RUNNING TUBING

1. *Fruitland Coal:* Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.375" ID) on top of bottom joint. Land tubing at approximately 3,730'.

Gary Sizemore
Sr. Drilling Engineer

file:Rosa#382 horizontal

Williams Production Company, LLC

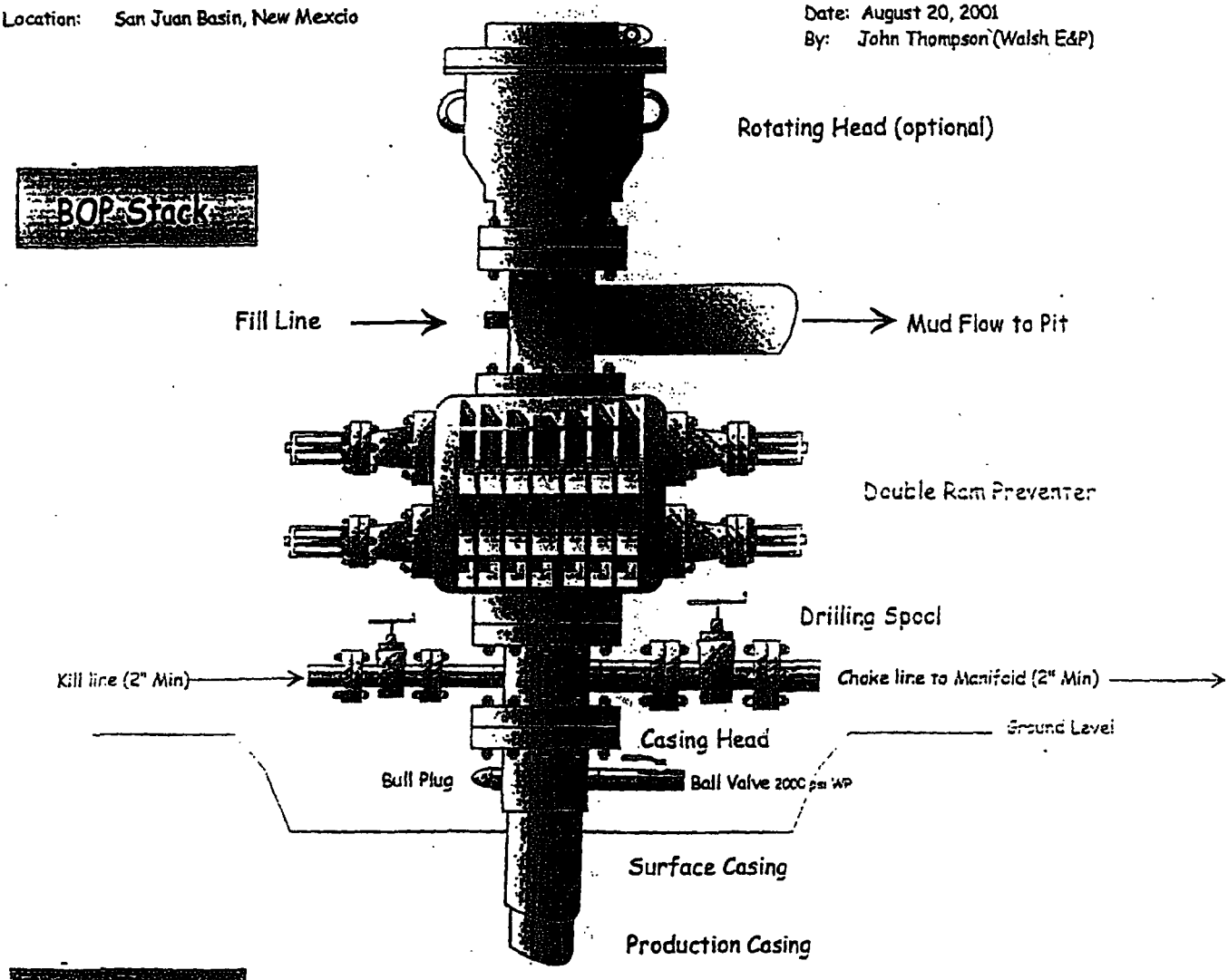
Well Control Equipment Schematic for 2M Service

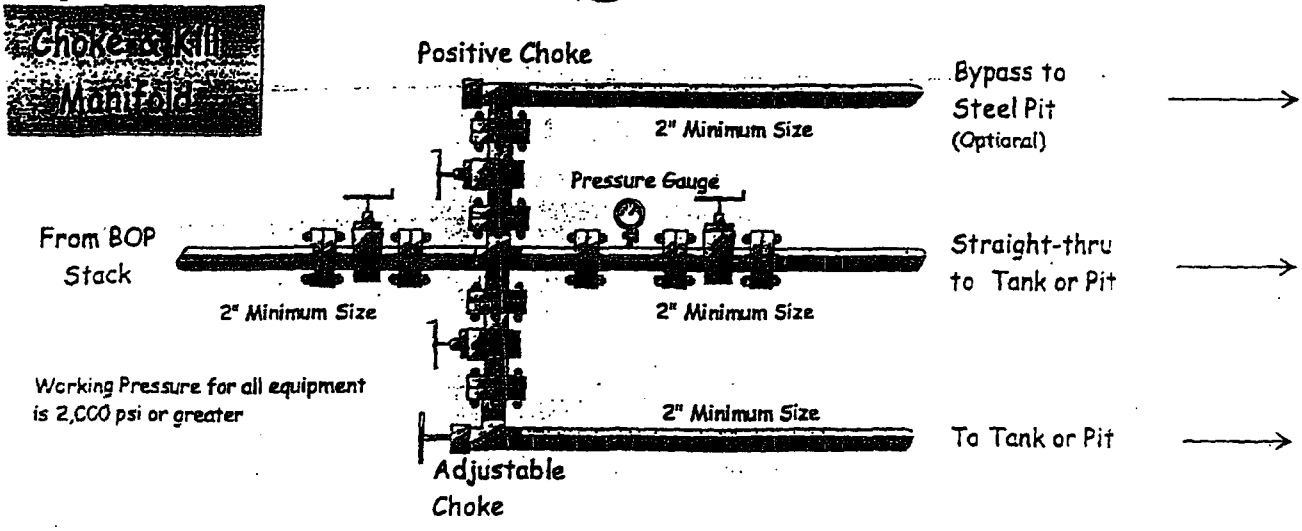
Attachment to Drilling Technical Program

Typical BOP setup

Location: San Juan Basin, New Mexcio

Date: August 20, 2001
By: John Thompson (Walsh E&P)





Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
May 27, 2004

WELL API NO.
30-039-29364

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Rosa

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

8. Well Number **382**

2. Name of Operator
Williams Production Company, LLC

9. OGRID Number
120782

3. Address of Operator
999 Goddard Ave., Ignacio, CO 81137

10. Pool name or Wildcat
Fruitland Coal

4. Well Location
Unit Letter **O** : **95** feet from the **FSL** line and **1415** feet from the **FEL** line
Section **12** Township **31N** Range **05W** NMPM County **Rio Arriba**

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
6671' GR

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type_____ Depth to Groundwater >100 ft Distance from nearest fresh water well >1000 ft Distance from nearest surface water >500 ft

Pit Liner Thickness: ____ mil Below-Grade Tank: Volume 120 bbls; Construction Material Steel (Plastic Liner)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:	☐			OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Below Grade tank to be located approximately 50 feet from well head. BGT constructed, operated and closed in accordance with NMOCD guidelines and Williams procedures. (Resubmittal of earlier 11/22/04 application)

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.**

SIGNATURE [signature] TITLE EH&S Specialist DATE 6/28/05

Type or print name **Michael K. Lane** E-mail address: **myke.lane@williams.com** Telephone No. **970-563-3319**

For State Use Only

APPROVED BY: H. Villanueva TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE JUN 29 2005

Conditions of Approval (if any):

In Lieu of
Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals

SUBMIT IN TRIPLICATE

5.	Lease Designation and Serial No. SF-078762		
6.	If Indian, Allottee or Tribe Name		
7.	If Unit or CA, Agreement Designation		
1.	Type of Well Oil Well X Gas Well Other	8.	Well Name and No. ROSA UNIT #382
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	9.	API Well No. 30-039-29364
3.	Address and Telephone No. PO BOX 3102 MS 25-2, TULSA, OK 74101 (918) 573-6254	10.	Field and Pool, or Exploratory Area BASIN FRUITLAND COAL
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description) 95' FSL & 1415' FEL, SW/4 SE/4 SEC 12-T31N-R05W	11.	County or Parish, State RIO ARRIBA, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
X Subsequent Report	Recompletion	New Construction
Final Abandonment	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	Other Spud	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.)*

This well was spud @ 0300 hrs 09/20/05

APD/ROW

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DIST. 3

2005 OCT 18 AM 10 09
RECEIVED
070 FARMINGTON NM

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

Signed Tracy Ross (Tracy Ross) Title Sr. Production Analyst Date October 13, 2005

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD
OCT 24 2005
FARMINGTON FIELD OFFICE
BY

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.

NMOCD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Williams Production Co. LLC Telephone: 505/634-4219 e-mail address: myke.lane@williams.com
Address: PO Box 640, Aztec, NM 87410
Facility or well name: Rosa #382 API #: 30-039-29364 U/L or Qtr/Qtr O Sec 12 T 31N R 5W
County: Rio Arriba Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Pit Volume ~11,000 bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not. _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet ✓ 100 feet or more	(20 points) (10 points) ✓ (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes ✓ No	(20 points) ✓ (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet ✓ 200 ft or more, but less than 1000 ft 1000 feet or more	(20 points) ✓ (10 points) (0 points)
	Ranking Score (Total Points)	**10**

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DIST. 3

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☒ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:
Former Drilling/Completion pit located as specified on APD plat. . Remediation initiated on Nov 30, completed Dec 1, 2005.
Pit closed in accordance with NMOCD guidelines and approved Williams's closure procedures.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 12/2/05
Printed Name/Title Michael K. Lane, San Juan Basin EH&S Specialist Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Signature _____ Date: DEC 05 2005

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator				Lease or Unit Name			
Williams Production Company				**Rosa Unit**			
Test Type		Test Date		Well Number (API #)			
X Initial **Annual** **Special**		**10/30/2005**		**#382 (API # 30-039-29364)**			
Completion Date	Total Depth	Plug Back TD	Elevation	Unit	Sec	Twp	Rng
10/7/2005	**4415'**		**6671'**	**O**	**12**	**31N**	**05W**
Casing Size / Weight / d	Set At	Perforations:		County			
4 1/2" / 11.6#	**4415'**			**Rio Arriba**			
Tubing Size / Weight / d	Set At	Perforations:		Pool			
2 3/8" / 4.7#	**3640'**			**Basin**			
Type Well - Single-Bradenhead-GG or GO Multiple		Packer Set At		Formation			
				Fruitland Coal			
Producing Thru	Reservoir Temp. oF	Mean Annual Temp. oF	Barometer Pressure - Pa	Connection			
Tubing							

L	H	Gq	%CO2	%N2	%H2S	Prover	Meter Run	Taps
		0.6				**3/4"**		

	FLOW DATA			TUBING DATA		CASING DATA		
NO	Prover Line Size X Orifice Size	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Duration of Flow
SI	**2" X 3/4"**			**250**	**69**	**1200**		**0**
1				**240**	**69**	**1160**		**0.5 hr**
2				**240**	**62**	**1160**		**1.0 hr**
3				**210**	**62**	**1040**		**1.5 hrs**
4				**205**	**54**	**1040**		**2.0 hrs**
5				**205**	**54**	**990**		**3.0 hrs**

RATE OF FLOW CALCULATION

NO	Coefficient (24 Hours)	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q,Mcfd
1	**9.604**		**217**	**1.0058**	**1.29**	**1.018**	**2753**
2							
3							
4							

NO	Pr	Temp. oR	Tr	Z
1				
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ration ____ Mcf/bbl.

A.P.I Gravity of Liquid Hydrocabrons _____. ____ Deg.

Specific Gravity Separator _____. XXXXXX

Specific Gravity Flowing Fluid xxxxxxxxx ____

Critical Pressure _____ p.s.i.a. ____ p.s.i.a.

Critical Temperature _____ R ____ R

Pc **1212** Pc2 **1468944**

NO	Pt1	Pw	Pw2	Pc2-Pw2
1		**1002**	**1004004**	**464940**
2				
3				
4				

(1) Pc2 = **3.159427** (2) Pc2^n = **2.3697703**
Pc2-Pw2 Pc2-Pw2

AOF = Q Pc2^n = **6523**
Pc2 - Pw2

Absolute Open Flow **6523** Mcfd @ 15.025

Angle of Slope _____. Slope, n **0.75**

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Mark Lepich	Tracy Ross	

Williams Production Company
New Mexico
Rio Arriba County
Sec. 12-T31N-R05W
Rosa Unit #382 - MWD survey

Halliburton Sperry-Drilling Survey Report

6 October, 2005

Surface Coordinates: 2149813.97 N, 653414.00 E (36° 54' 25.0000" N, 107° 18' 31.0000" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Western Zone

Surface Coordinates relative to Global Coordinates: 644822.85 N, 355733.24 E (Grid)
Surface Coordinates relative to SE Cor of Sec 12: 95.00 N, 1415.00 W (True)
Kelly Bushing Elevation: 6686.00ft above Mean Sea Level
Kelly Bushing Elevation: *68.00ft below Structure*

Survey Ref: svy9360

Surface 95/S 1415/E
B.H.L. 673/S 1591/E
BHL 2 1093/S 1843/E
MD 4814
TVD 3493

30-039-29364

HALLIBURTON
Sperry Drilling Services

Survey Report for Sec. 12-T31N-R05W - Rosa Unit #382H - MWD survey

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates N-S (ft)	Local Coordinates E-W (ft)	Dogleg Severit (°/100ft)	Lease Calls FNL-FSL (ft)	Lease Calls FEL-FWL (ft)	Global Coordinates Grid Y (ft)	Global Coordinates Grid X (ft)
0.00	0.000	0.000	0.00	0.00	0.00 N	0.00 E		95.00 FSL	1415.00 FEL	2149813.97 N	653414.00 E
506.00	0.980	78.060	505.98	-0.62	0.90 N	4.23 E	0.19	95.89 FSL	1410.77 FEL	2149814.89 N	653418.23 E
1015.00	1.160	181.620	1014.92	-6.02	3.36 S	8.35 E	0.33	91.64 FSL	1406.65 FEL	2149810.67 N	653422.37 E
1551.00	0.620	156.700	1550.86	-13.96	11.44 S	9.34 E	0.12	83.56 FSL	1405.66 FEL	2149802.58 N	653423.41 E
2242.00	0.700	234.400	2241.82	-18.82	17.33 S	7.39 E	0.12	77.67 FSL	1407.61 FEL	2149796.68 N	653421.49 E
2935.00	0.620	235.100	2934.78	-20.90	21.94 S	0.87 E	0.01	73.06 FSL	1414.13 FEL	2149792.04 N	653414.99 E
2966.00	0.640	217.920	2965.78	-21.03	22.17 S	0.63 E	0.61	72.82 FSL	1414.38 FEL	2149791.80 N	653414.75 E
2997.00	0.500	228.240	2996.77	-21.18	22.40 S	0.42 E	0.56	72.60 FSL	1414.58 FEL	2149791.58 N	653414.55 E
3029.00	0.500	244.180	3028.77	-21.24	22.55 S	0.19 E	0.43	72.44 FSL	1414.81 FEL	2149791.42 N	653414.32 E
3061.00	0.840	325.670	3060.77	-21.03	22.42 S	0.07 W	2.85	72.58 FSL	1415.07 FEL	2149791.55 N	653414.06 E
3091.00	2.820	337.910	3090.75	-20.08	21.56 S	0.47 W	6.69	73.44 FSL	1415.47 FEL	2149792.41 N	653413.65 E
3123.00	5.590	343.000	3122.67	-17.73	19.34 S	1.22 W	8.73	75.66 FSL	1416.22 FEL	2149794.63 N	653412.89 E
3155.00	9.300	343.620	3154.39	-13.59	15.36 S	2.41 W	11.60	79.64 FSL	1417.41 FEL	2149798.60 N	653411.68 E
3185.00	13.790	342.110	3183.78	-7.60	9.63 S	4.19 W	15.00	85.37 FSL	1419.19 FEL	2149804.32 N	653409.87 E
3216.00	18.690	340.370	3213.53	1.06	1.43 S	7.00 W	15.88	93.57 FSL	1422.00 FEL	2149812.50 N	653407.02 E
3249.00	23.860	339.170	3244.27	13.03	9.79 N	11.15 W	15.72	104.79 FSL	1426.15 FEL	2149823.70 N	653402.80 E
3280.00	29.270	338.810	3271.99	26.89	22.73 N	16.12 W	17.46	117.73 FSL	1431.12 FEL	2149836.61 N	653397.76 E
3312.00	34.490	339.990	3299.15	43.78	38.55 N	22.05 W	16.43	133.55 FSL	1437.05 FEL	2149852.40 N	653391.74 E
3343.00	37.840	341.680	3324.18	62.07	55.83 N	28.04 W	11.27	150.83 FSL	1443.04 FEL	2149869.64 N	653385.65 E
3374.00	41.330	343.370	3348.06	81.80	74.67 N	33.96 W	11.78	169.67 FSL	1448.96 FEL	2149888.45 N	653379.63 E
3405.00	45.380	343.520	3370.60	103.03	95.06 N	40.02 W	13.07	190.06 FSL	1455.02 FEL	2149908.81 N	653373.45 E
3436.00	49.570	342.860	3391.55	125.84	116.93 N	46.63 W	13.61	211.93 FSL	1461.63 FEL	2149930.64 N	653366.72 E
3468.00	54.100	342.500	3411.32	150.96	140.94 N	54.12 W	14.18	235.94 FSL	1469.12 FEL	2149954.61 N	653359.10 E
3500.00	58.610	342.530	3429.04	177.56	166.34 N	62.12 W	14.09	261.34 FSL	1477.12 FEL	2149979.97 N	653350.96 E
3531.00	64.340	342.680	3443.84	204.76	192.32 N	70.26 W	18.49	287.32 FSL	1485.26 FEL	2150005.91 N	653342.68 E

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates N-S (ft)	Local Coordinates E-W (ft)	Dogleg Severit (°/100ft)	Lease Calls FNL-FSL (ft)	Lease Calls FEL-FWL (ft)	Global Coordinates Grid Y (ft)	Global Coordinates Grid X (ft)
3562.00	70.220	342.680	3455.81	233.30	219.61 N	78.77 W	18.97	314.61 FSL	1493.77 FEL	2150033.14 N	653334.02 E
3593.00	76.640	341.980	3464.64	262.97	247.91 N	87.78 W	20.82	342.91 FSL	1502.78 FEL	2150061.39 N	653324.85 E
3662.00	86.260	337.800	3474.89	331.11	311.88 N	111.24 W	15.17	406.88 FSL	1526.24 FEL	2150125.23 N	653301.04 E
3692.00	86.450	337.570	3476.80	361.03	339.58 N	122.60 W	0.99	434.58 FSL	1537.60 FEL	2150152.87 N	653289.52 E
3723.00	86.550	337.310	3478.69	391.94	368.15 N	134.47 W	0.90	463.15 FSL	1549.47 FEL	2150181.37 N	653277.49 E
3752.00	86.480	336.700	3480.46	420.85	394.80 N	145.78 W	2.11	489.80 FSL	1560.78 FEL	2150207.96 N	653266.04 E
3783.00	86.480	336.530	3482.36	451.74	423.20 N	158.06 W	0.55	518.20 FSL	1573.06 FEL	2150236.29 N	653253.60 E
3813.00	85.780	336.180	3484.39	481.62	450.62 N	170.06 W	2.61	545.62 FSL	1585.06 FEL	2150263.64 N	653241.44 E
BHL1 3843.00	86.840	336.180	3486.32	511.50	478.01 N	182.15 W	3.53	573.01 FSL	1597.15 FEL	2150290.96 N	653229.20 E
3874.00	89.380	336.880	3487.34	542.42	506.42 N	194.49 W	8.50	601.42 FSL	1609.49 FEL	2150319.31 N	653216.71 E
3905.00	90.700	337.230	3487.32	573.39	534.97 N	206.57 W	4.41	629.97 FSL	1621.57 FEL	2150347.79 N	653204.47 E
3937.00	91.670	337.580	3486.65	605.35	564.51 N	218.86 W	3.22	659.51 FSL	1633.86 FEL	2150377.26 N	653192.01 E
3968.00	91.490	337.930	3485.80	636.32	593.19 N	230.59 W	1.27	688.19 FSL	1645.59 FEL	2150405.88 N	653180.12 E
3999.00	90.880	336.350	3485.16	667.27	621.75 N	242.63 W	5.46	716.75 FSL	1657.63 FEL	2150434.37 N	653167.93 E
4030.00	88.420	334.770	3485.35	698.18	649.97 N	255.45 W	9.43	744.97 FSL	1670.45 FEL	2150462.52 N	653154.95 E
4061.00	91.490	334.420	3485.37	729.05	677.97 N	268.75 W	9.97	772.97 FSL	1683.75 FEL	2150490.44 N	653141.50 E
4092.00	92.110	332.490	3484.40	759.84	705.69 N	282.59 W	6.54	800.69 FSL	1697.60 FEL	2150518.08 N	653127.50 E
4123.00	91.410	331.960	3483.45	790.55	733.10 N	297.03 W	2.83	828.10 FSL	1712.03 FEL	2150545.42 N	653112.91 E
4154.00	88.330	330.550	3483.52	821.20	760.28 N	311.94 W	10.93	855.28 FSL	1726.94 FEL	2150572.51 N	653097.85 E
4185.00	86.130	329.500	3485.02	851.70	787.10 N	327.40 W	7.86	882.10 FSL	1742.40 FEL	2150599.25 N	653082.24 E
4217.00	86.040	330.900	3487.20	883.18	814.80 N	343.27 W	4.37	909.80 FSL	1758.27 FEL	2150626.86 N	653066.22 E
4248.00	84.810	332.310	3489.67	913.76	841.99 N	357.96 W	6.02	936.99 FSL	1772.96 FEL	2150653.96 N	653051.37 E
4279.00	85.960	333.890	3492.17	944.44	869.54 N	371.94 W	6.29	964.54 FSL	1786.94 FEL	2150681.44 N	653037.24 E
4310.00	88.510	335.470	3493.66	975.27	897.53 N	385.18 W	9.67	992.53 FSL	1800.18 FEL	2150709.35 N	653023.85 E
last MWD survey											
4341.00	90.880	337.410	3493.83	1006.21	925.94 N	397.57 W	9.88	1020.94 FSL	1812.57 FEL	2150737.70 N	653011.30 E
Projection to TD											
4419.00	90.880	337.410	3492.63	1084.13	997.95 N	427.52 W	0.00	1092.95 FSL	1842.52 FEL	2150809.54 N	652980.95 E

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB (6671'+15'KB). Northings and Eastings are relative to Wellhead.

Based upon Minimum Curvature type calculations, at a Measured Depth of 4419.00ft.,
The Bottom Hole Displacement is 1085.67ft., in the Direction of 336.807° (True).

Survey Report for Sec. 12-T31N-R05W - Rosa Unit #382H - MWD survey

Comments

Measured Depth (ft)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Comment
4341.00	3493.83	925.94 N	397.57 W	last MWD survey
4419.00	3492.63	997.95 N	427.52 W	Projection to TD

North Reference Sheet for Sec. 12-T31N-R05W - Rosa Unit #382H

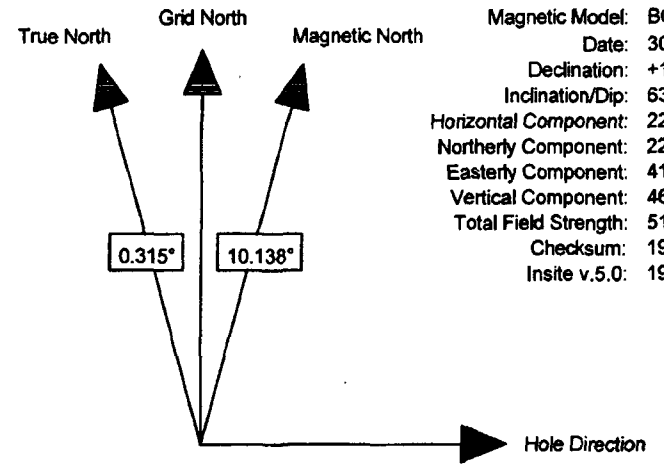
Coordinate System is NAD27 New Mexico State Planes, Western Zone, US Foot
Source: Snyder, J.P., 1987, Map Projections - A Working Manual

Datum is North American Datum of 1927 (US48, AK, HI, and Canada)

Spheroid is Clarke - 1866
Equatorial Radius: 6378206.400m.
Polar Radius: 6356583.800m.
Inverse Flattening: 294.978698213901

Projection method is Transverse Mercator or Gauss Kruger Projection
Central Meridian is -107.833°
Longitude Origin: 0.000°
Latitude Origin: 31.000°
False Easting: 152400.00m
False Northing: 0.00m
Scale Reduction: 0.99991667

Grid Coordinates of Well: 2149813.97 N, 653414.00 E
Geographical Coordinates of Well: 36° 54' 25.0000" N, 107° 18' 31.0000" W
Surface Elevation of Well: 6686.00ft
Grid Convergence at Surface is +0.315°
Magnetic Declination at Surface is +10.453° (30 September, 2005)



Magnetic Model:	BGGM2005
Date:	30-Sep-05
Declination:	+10.453
Inclination/Dip:	63.870
Horizontal Component:	22674 nT
Northerly Component:	22297 nT
Easterly Component:	4114 nT
Vertical Component:	46221 nT
Total Field Strength:	51483 nT
Checksum:	1937011
Insite v.5.0:	1937011

Grid North is 0.315° East of True North (Grid Convergence)
Magnetic North is 10.453° East of True North (Magnetic Declination)
Magnetic North is 10.138° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.315 degrees
To convert a Magnetic Direction to a True Direction, Add 10.453 degrees
To convert a Magnetic Direction to a Grid Direction, Add 10.138 degrees

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Reformatted July 20, 2001

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
WILLIAMS PRODUCTION COMPANY P O BOX 3102, MS 25-1 TULSA, OK 74101	120782
	[3] Reason for Filing Code/ Effective Date NW

[4] API Number	[5] Pool Name	[6] Pool Code
30 – 039-29364	BASIN FRUITLAND COAL	71629
[7] Property Code	**[8] Property Name**	**[9] Well Number**
17033	ROSA UNIT	382

II. [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
O	12	31N	5W		95	SOUTH	1415	EAST	RIO ARRIBA

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	12	31N	5W		1093	SOUTH	1843	EAST	RIO ARRIBA

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] POD	[21] O/G	[22] POD ULSTR Location and Description
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE, AZ 85267		O	
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA, OK 74102		G	

JUN 2006
OIL CONS. DIV.
DIST. 3

IV. Produced Water

[23] POD	[24] POD ULSTR Location and Description

V. Well Completion Data

[25] Spud Date	[26] Ready Date	[27] TD	[28] PBTD	[29] Perforations	[30] DHC, MC
09/20/05	10/07/05	4415'		3645-4411	

[31] Hole Size	[32] Casing & Tubing Size	[33] Depth Set	[34] Sacks Cement
12-1/4"	9-5/8", 36#, K-55	324'	255
8-3/4"	7", 23#, K-55	3645'	600
6-1/4"	4-1/2", 17#, N-80	4415'	0
	2-3/8", 6.5#, J-55	3640'	

VI. Well Test Data

[35] Date New Oil	[36] Gas Delivery Date	[37] Test Date	[38] Test Length	[39] Tbg. Pressure	[40] Csg. Pressure
		10/30/05		205	990
[41] Choke Size	**[42] Oil**	**[43] Water**	**[44] Gas**	**[45] AOF**	**[46] Test Method**
¾"			344		

[47] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Tracy Ross

Printed name: TRACY ROSS

Title: SR. PRODUCTION ANALYST

Date: 06/15/06

Phone: 918-573-6254

7-17-06 OIL CONSERVATION DIVISION

Approved by: Charlie Perrin 7-18

Title: SUPERVISOR DISTRICT # 3

Approval Date: JUN 19 2006

B

Submit 3 Copies
To Appropriate
District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
811 South First, Artesia NM 88210

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised 1-1-89

WELL API NO.
30-039-29364

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS

7. Lease Name or Unit Agreement Name:
ROSA UNIT

1. Type of Well:
Oil Well ☐ Gas Well ■ Other

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

8. Well No.
382

3. Address of Operator
P O BOX 3102, MS 25-2, TULSA, OK 74101

9. Pool name or Wildcat
BASIN FRUITLAND COAL

4. Well Location (Surface)
Unit letter O : 1093 feet from the SOUTH line & 1843 feet from the EAST line Sec 12-31N-05W RIO ARRIBA, NM

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
6328' GR

JUL 2006 RECEIVED OIL CONS. DIV. DIST. 3

Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CEMENT JOB	
OTHER:		OTHER: Depths for perforations	

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103.

4 ½" liner information: liner was landed @ 4415' as follows: liner hanger, 1 jt 4 ½", 10.5# J-55 non-perforated csg, 33 jts 4 ½", 11.5#, J-55 pre-perfed csg & shoe on bottom. Liner perfs are from 3056' to 4411'. Liner was not cemented. Please note that the formation tops noted on the attached wellbore diagram are measured depths. The setting depths for the csg are true vertical depths.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Tracy Ross TITLE: SR. Production Analyst DATE: July 12, 2006

Type or print name TRACY ROSS Telephone No: (918) 573-6254

(This space for State use)

APPROVED BY H. Villanueva TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE JUL 14 2006

Conditions of approval, if any:

ROSA UNIT #382
BASIN FRUITLAND COAL

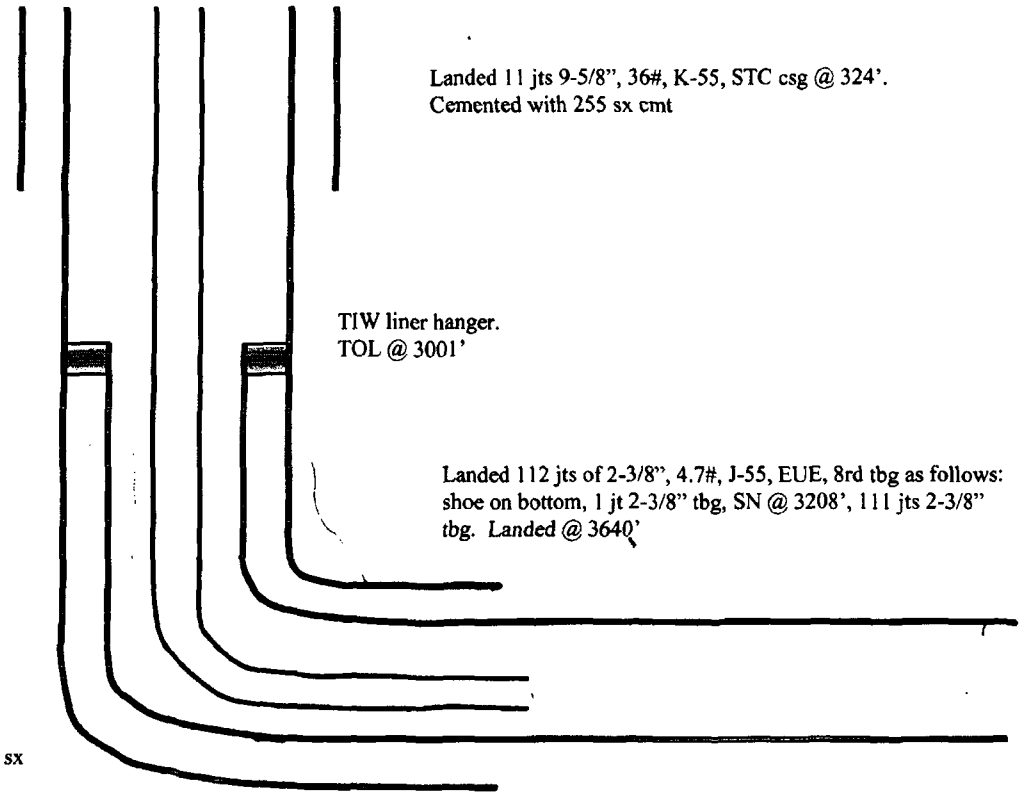
Spud date: 9/20/05
Completed: 10/07/05
1st Delivered: 11/02/05

Location:
SHL: 95' FSL and 1415' FEL
SW/4 SE/4 Sec 12(O), T31N, R05W

BHL: 1093' FSL and 1843' FEL
SW/4 SE/4 Sec 12(O), T31N, R05W
Rio Arriba, New Mexico

Elevation: 6671' GR
API # 30-039-29364

Top	Depth
Ojo Alamo	2867'
Kirtland	2976'
Fruitland	3320'
Base of Coal	3497'



Landed 11 jts 9-5/8", 36#, K-55, STC csg @ 324'.
Cemented with 255 sx cmt

TIW liner hanger.
TOL @ 3001'

Landed 112 jts of 2-3/8", 4.7#, J-55, EUE, 8rd tbg as follows: shoe on bottom, 1 jt 2-3/8" tbg, SN @ 3208', 111 jts 2-3/8" tbg. Landed @ 3640'

TD @ 4415' TMD
@ 3492' TVD

Landed 94 jts 7", 23#, K-55, LT&C csg @ 3645' TMD (3472' TVD). Float @ 3605'. Cemented with 600 sx cmt.

Landed 4-1/2" liner @ 4415' as follows: liner hanger, 1 jt 4 ½", 10.5#, J-55 non-perfed csg, 33 jts, 4 ½", 11.5#, J-55 perfed csg & shoe on bottom. Liner perfs are from 3056' to 4411'. *Did not cement*

Hole Size	Casing	Cement	Volume	Top of CMT
12-1/4"	9-5/8",36#	255 sx	354 cu ft.	surface
8-3/4"	7", 23#	600 sx	1144 cu ft.	surface
6-1/4"	4-1/2",11.6#	Did Not Cmt	N/A	N/A

TR 07/12/06

In Lieu of Form 3160 (June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals

2006 JUN 15 PM 10 52

SUBMIT IN TRIPLICATE

1.	Type of Well Oil Well X Gas Well Other	5. Lease Designation and Serial No. SF-078762
		6. If Indian, Allottee or Tribe Name
		7. If Unit or CA, Agreement Designation
		8. Well Name and No. ROSA UNIT #382
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	9. API Well No. 30-039-29364
3.	Address and Telephone No. PO BOX 3102 MS 25-2, TULSA, OK 74101 (918) 573-6254	10. Field and Pool, or Exploratory Area BASIN FRUITLAND COAL
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description) 95' FSL & 1415' FEL, SW/4 SE/4 SEC 12-T31N-R05W	11. County or Parish, State RIO ARRIBA, NM

RECEIVED
JUN 2006
OIL CONS. DIV.
DIST. 3

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

TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment	Altering Casing	Conversion to Injection
	Other Completion	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.)*

09-19-2005 MIRU

09-20-2005 MIRU, drill rat & mouse hole, spud well @ 0300 hrs, 09/20/05.

09-21-2005 Drilling 12 ¼" surface hole from 40' to 330', circulate & condition hole, TOOH. RU csg crew. RIH & land 7 jts, 9⅝", 36#, K-55, ST&C csg @ 324'. Cmt surface csg as follows: 255 sxs (354 cu.ft.) Type III cmt w/ 2% CaCl2 + ¼#/sx Cello Flake. Plug down @ 2130 hrs with 15 bbls cmt to surface. WOC

09-22-2005 NU BOP, pressure test, TIH w/ bit #2, drilling plug & cmt from 280' to 340'. Drilling 8 ¾" hole from 340' to 1393'.

09-23-2005 Drilling 8 ¾" hole from 1393' to 2745'.

09-24-2005 Drilling 8 ¾" hole from 2745' to 3606'.

Continued on Back

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

Signed Tracy Ross (Tracy Ross) Title Sr. Production Analyst Date June 15, 2006

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

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.

JUN 19 2006

FARMINGTON FIELD OFFICE

NMOCD

09-25-2005 Circulate & condition, TOOH. TIH, tag @ 3570' (36' of fill). TIH to knock out bridge @ 955', CO to bottom, tag fill @ 3575'. Raise viscosity to 80 sec/qt. Wash from 3575' to 3606'. TIH to knock out bridges & condition hole.

09-26-2005 Circulate & condition hole. Viscosity - 100 sec/qt, water loss - 7. TIH to knock out bridges to 2082', TOOH, TIH to knock out bridges.

09-27-2005 TIH to knock out bridges, TOOH. TIH w/ 15 jts 3 ½" DP, 97 jts 4 ½" DP. Tag fill @ 3550', circulate, RU cementers. Pump cmt as follows: 20 bbl water spacer, 69 bbl (387 cu/ft, 300 sx) Type III w/ .1% CD-32. + ¼#sx Cello Flake mixed @ 15 ppg. Displace w/ 5 bbl water & 27 bbls mud. Cmt plug from 2600' to 3520', TOOH 25 stds, WOC, slow circulate @ 3.5 bbl/ min.

09-28-2005 WOC, tag cmt @ 0600 hrs @ 2652', TOOH, LD 3 ½" DP. MU bit & TIH w/ DC's & DP to 2600', circulate. Drilling cmt from 2652' to 3004'. Circulate & condition hole, TOOH, PU & TIH w/ directional drilling assembly.

09-29-2005 TIH w/ directional drilling assembly. Circulate & wash 23' to 3004'. Time drill fr/ 3004' to 3027'.

09-30-2005 Drilling 8 ¾" hole from 3027' to 3210'.

10-01-2005 Drilling 8 ¾" hole from 3210' to 3545'.

10-02-2005 Drilling 8 ¾" hole from 3545' to 3645', circulate, short trip to csg shoe, circulate, TOOH, LD DP & BHA.

10-03-2005 RU csg crew, run guide shoe, 94 jts 7", 23#, K-55, LT&C csg w/ insert float in top of first joint. Csg total length – 3660', set @ 3645' MD, 3472' TVD. Circulate csg @ 3000', no centralizers. Circulate casing @ 3645'. RU cementers, cmt 7" csg w/ 10 bbl H2O flush, 167 bbl (937 cu.ft, 450 sx) Premium LT HS, w/ 8% gel, 1% CaCl, ¼#/sx Cello Flake - mixed @ 12.1 ppg, 37 bbl (207 cu.ft, 150 sxs) Type III w/ 1% CaCl, ¼#/sx Cello Flake, mixed @ 14.5 ppg. Displaced w/ 142 bbl H2O. Bump plug w/ 1560 psi, float held, RD cementers. Circulated 65 bbls cmt to surface. Plug down @ 1720 hrs. ND BOP, set csg slips w/ 70,000, cut off csg. NU BOP & choke manifold. Pressure test pipe rams, choke manifold & csg - 250 psi - 15 min, 1500 psi - 30 min. OK. PU 6 ¼" bit, directional drlg assy & ABI. Test same (ok). PU 3 ½" DP & TIH w/ dir drlg assy & DP.

10-04-2005 PU 3 ½" DP & TIH w/ dir drlg assy & DP. Drill cmt & equipment, horizontally drilling 6 ¼" hole rotate & sliding from 3645' to 3820'. Target coal came in @ 3812' TMD, 3484' TVD. Horizontally drlg 6 ¼" hole, rotate & slide from 3820' to 4139'.

10-06-2005 Horizontally drlg 6 ¼" hole, rotate & slide from 4139' to 4419'. Circulate drilling gas out of hole @ 7" shoe, 3600' TMD. TOOH & LD directional tools. Sperry drlg tools out of hole @ 4419'. Circulate & work tight hole, pressuring up & dragging, TOOH to 7" csg shoe. Circulate drlg gas out of hole @ 7" shoe, 3600' TMD. TOOH & LD directional tools, Sperry drlg tools out of hole @ 1830 hrs on 10/5/05. LD 16 – 5" DC's out of derrick. TIH w/ re-run bit on 3 ½" DP to 4150', no drag, no fill. Pull up to 3600', circulate trip gas out of hole. TOOH to PU 4 ½" liner. RU csg crew.

10-07-2005 Run 33 jts 4 ½" liner & liner hanger. TIH w/ 4 ½" liner on 3 ½" DP. Attempt to hang liner, no good, set liner on bottom, rotate off liner & pack off liner top. Liner top @ 3001' TMD. Overlap = 645'. 7" csg shoe @ 3645' TMD. 1 ½" liner shoe @ 4415' TMD, 3492' TVD. LDDP & setting tool, PU & break 3 ½" kelly. Set retrievable bridge plug @ 600' & load hole. ND BOP & install tbg head, XO spool 11" – 3000# x 7" – 3000# & NU BOP. Retrieve bridge plug, circulate gas bubble out of hole, RU csg crew, change rams to 2 ⅜", stab flow line on BOP. Run 112 jts 2 ⅜" tbg, landed @ 3640', SN 1 jt above mule shoe @ 3608' TMD. Displace CaCl in annulus w/ FW. Land tbg hanger & ND BOP, rig released @ 1000 hrs, 10/7/05.

In Lieu of Form 3160-4 (July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

2006 JUN 15 PM 10 51

RECEIVED
070 FARMINGTON NM

5. LEASE DESIGNATION AND LEASE NO.: NMSF-078762

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

1a. TYPE OF WELL: ☐ OIL WELL X GAS WELL DRY OTHER

b. TYPE OF COMPLETION: X NEW WELL WORKOVER DEEPEN PLUG BACK DIFF.RESVR. OTHER

2. NAME OF OPERATOR: WILLIAMS PRODUCTION COMPANY

8. FARM OR LEASE NAME, WELL NO.: ROSA UNIT #382

3. ADDRESS AND TELEPHONE NO.: P.O. BOX 3102 MS 25-1 TULSA, OK 74101 (918) 573-6254

9. API WELL NO.: 30-039-29364

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 95' FSL & 1415' FEL
At top production interval reported below :
At total depth: 1093' FSL & 1843' FEL

JUN 2006
RECEIVED
OIL CONS. DIV.
DIST. 3

10. FIELD AND POOL, OR WILDCAT: BASIN FRUITLAND COAL

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SW/4 SE/4 SEC 12-31N-5W

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR	13. STATE
		RIO ARRIBA	NEW MEXICO

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPLETED (READY TO PRODUCE)	18. ELEVATIONS (DK, RKB, RT,GR,ETC.)*	19. ELEVATION CASINGHEAD
09/20/05	10/06/05	10/07/05	6671' GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTCOMP., HOW MANY	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
3488' ~~MD~~ TVD 4419 MD				X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
3645 - 4419

25. WAS DIRECTIONAL SURVEY MADE: YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED: NO

28. CASING REPORT (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8" K-55	36#	324'	12-1/4"	255 SX - SURFACE	
7" K-55	23#	3645'	8-3/4"	600 SX – SURFACE	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4-1/2",11.6#,J-55	3001'	4415'	0 sx	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8", 4.7#, J-55	3640'	

31. PERFORATION RECORD (Interval, size, and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	WELL WAS NOT ACIDIZED OR FRACED

33. PRODUCTION

DATE OF FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)	WELL STATUS (PRODUCING OR SI)
	Flowing	Producing

DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
10/30/05	3 hr	3/4"			344		

FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
205	990					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: MARK LEPICH

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Tracy Ross TITLE Sr. Production Analyst DATE June 15, 2006

NMOCD

ACCEPTED FOR RECORD

JUN 19 2006

FARMINGTON FIELD OFFICE

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):					38.GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						OJO ALAMO	2868'	
						KIRTLAND	2976'	
						FRUITLAND	3320'	
						BASE OF COAL	3497'	

Williams Production Company, L.L.C.

Rosa Unit Well No. 382

30-039-29364

Spud: Date: Sept. 20, 2005

TD'ed: 4,419' MD on 10-6-2005

Reported top of coal @ ~~3391' or 3295'~~ (3320')

Surface Location: 95' FSL - 1415' FEL (O) 12-T31N-R5W

Sub-surface Locations:

KOP @ 3004'

Top of Coal (3320')

calculated @ 138' FSL & 1439' FEL

Horizontal Inclination achieved @ 3843' MD (3486' TVD)

573' FSL - 1597' FEL

TD @ 4419'

1093' FSL & 1843' FEL (O) 12-T31N-R5W

Horizontal Length = 576'

7" Casing landed @ 3645' MD (3472' TVD)

(cemented to surface) → 391' FSL - 1520' FEL

4 1/2" liner from 3001' to 4415'

Perforations from 3056' to 4411'

@ ~3937' MD the wellbore is 660' FSL of Sec. 12