

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Williams Exploration and Production Company

3a. Address

P.O. Box 316 Ignacio, CO 81137

3b. Phone No. (include area code)

(970) 563-9308

4. Location of Well (Report location clearly and in accordance with any State requirements)

At surface 1290' FNL & 170' FWL, Section 11

At proposed prod. zone from 1165' FNL & 315' FEL to 660' FNL & 2310' FEL, Section 10

14. Distance in miles and direction from nearest town or post office*

approximately 30 miles northeast of Blanco, NM

15. Distance from proposed*

location to nearest

property or lease line, ft.

(Also to nearest drg. unit line, if any)

170'

16. No. of Acres in lease

2,544.640

17. Spacing Unit dedicated to this well

320.00 (N2) Sec 10

18. Distance from proposed location*

to nearest well, drilling, completed,
applied for, on this lease, ft.

800'

19. Proposed Depth

5,954

20. BLM/BIA Bond No. on file

LIT 0847

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

6,826' GR

22. Approximate date work will start*

April 1, 2005

23. Estimated duration

1 month

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized officer.

25. Signature

Name (Printed/Typed)

Date

Title

Larry Higgins

12/06/04

Drilling DOM

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

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, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on reverse)

Williams Exploration and Production Company, LLC proposes to drill a well to develop the Fruitland Coal formation at the above described location in
accordance with the attached drilling and surface use plans. The surface is under jurisdiction of the Carson National Forest, Jicarilla Ranger District.

This action is a twinned location with the proposed Rosa 351A.

This location has been culturally surveyed by La Plata Archaeological Consultants. Copies of their reports have been submitted directly to your office.

This APD is also serving as an application to obtain road and pipeline right-of-ways. An associated pipeline tie of 323.8 feet would be required for this location.
Approximately 1,097 feet of existing 2-track road would be upgraded to access the site.

HOLD G101 FOR Directional Survey

NMOC

NMOC

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
TECHNICAL REQUIREMENTS.

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

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

District II
PO Drawer 00, 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 30039-29366		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 350
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6826'

¹⁰ Surface Location

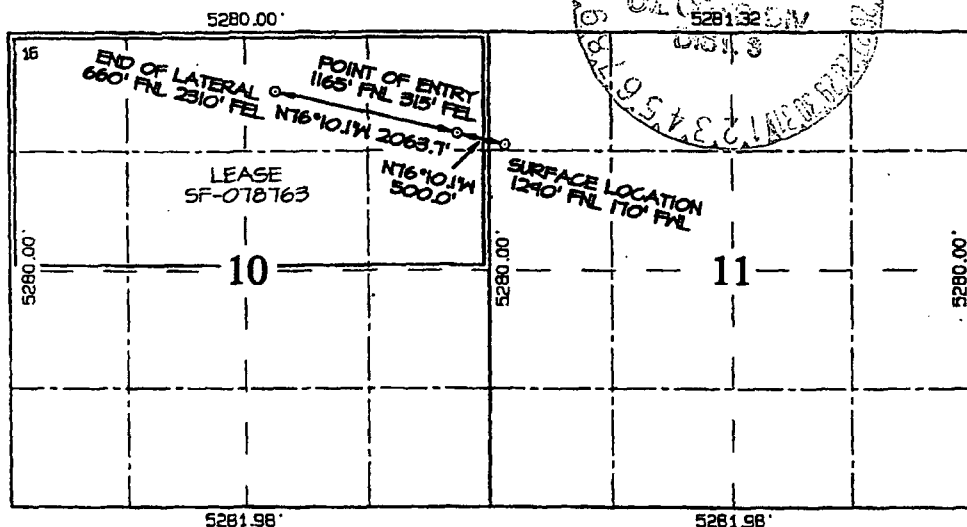
U. or Lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	11	31N	5W		1290	NORTH	170	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

U. or Lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	31N	5W		660	NORTH	2310	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (N/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



¹⁷ OPERATOR CERTIFICATION

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

Signature: Larry Higgins
Printed Name: LARRY HIGGINS
Title: DRILLING COVY
Date: 12-6-04

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 8, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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 X
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
Federal NMSF-0078763

7. Lease Name or Unit Agreement Name

Rosa Unit

8. Well Number 350

9. OGRID Number 120782

10. Pool name or Wildcat
Basin Fruitland Coal

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.)

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

2. Name of Operator

Williams Exploration and Production Company

3. Address of Operator

P.O. Box 316, Ignacio, CO 81137

4. Well Location

Unit Letter D: 1290 feet from the south line and 170 feet from the west line

Section 11 Township 31N Range 5 W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6,826' GR

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type production 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:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

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.

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

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

Reserve pit to be located approximately 30 feet north of the well head, in the northwest corner of the pad

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 12-02-2004

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

For State Use Only

APPROVED BY: [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 88 DATE JUL 18 2005

Conditions of Approval (if any):

Submit 3 Copies To Appropriate District Office

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1301 W. Grand Ave., Artesia, NM 88210

District III

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Energy, Minerals and Natural Resources

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Form C-103

May 27, 2004

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STATE ☐ FEE ☐

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Rosa Unit

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PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

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SIGNATURE Larry Higgins TITLE Drilling COM DATE 12-02-2004

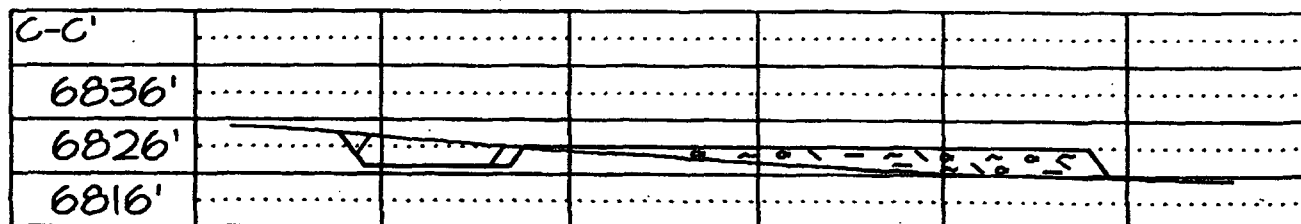
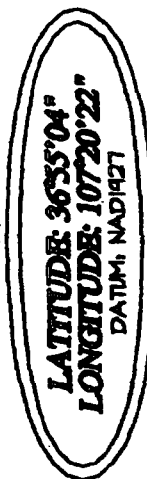
Type or print name Larry Higgins E-mail address: larry.higgins@williams.com Telephone No. (970) 563-3308

For State Use Only

APPROVED BY: [Signature] TITLE _____ DATE _____

Conditions of Approval (if any):

Plat #2 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 #350 **FIELD:** Basin Fruitland Coal

SURF LOCATION: NWNW Sec. 11-T31N-R5W **SURFACE:** Forest
San Juan, NM

BH LOCATION NENE Sec 10-31N-5W

ELEVATION: 6826' GR **MINERALS:** Federal

TOTAL DEPTH: 5,954' **LEASE #** SF-078763

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	3,491	3,542
Nancimiento	1,601	1,601	Top Target Coal	3,601	3,863
Ojo Alamo	2,941	2,941	Bottom Target Coal	3,606	
Kirtland	3,056	3,056	Base Coal	3,611	
Fruitland	3,341	3,349	Picture Cliffs	3,611	
			TD	3,711	5,954

- **NOTE:** Well will be vertically drilled to 95' 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:**

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	~ 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	~ 3,863'	7"	20# K-55
Prod. Liner	6-1/4"	~ 3,300-5,954'	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% CaCl₂ 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 - 465 sx (971 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 - 100 sx (139 cu.ft.) of "Type III" with 1/4# cello-flake/sk and 1% CaCl₂ (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 = 1,110 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

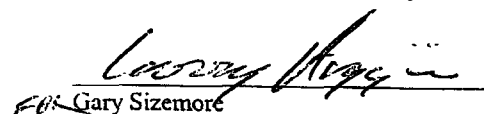
Pressure test 7" casing to 3300# for 15 minutes.

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'.


for Gary Sizemore
Sr. Drilling Engineer

file:Rosa#152C horizontal

GENERAL ROSA DRILLING PLAN

Rosa Unit boundries:

T31N, R4W: all except sections 32-36
 T31N, R5W: all except sections 1 & 2
 T31N, R6W: all except sections 6,7,18,20, & 27-36
 T32N, R6W: sections 32-36

FORMATION	LITHOLOGY	WATER	GAS	OIL/COND	OVER-PRES	LOST CIRC
Nacimiento	Interbedded shales, siltstones and sandstones	Possible	Possible	No	No	No
Ojo Alamo	Sandstone and conglomerates with lenses of shale	Fresh	No	No	No	No
Kirtland	Shale W/interbedded sandstones	No	Possible	No	No	No
Fruitland	Inter, SS, SiltSt, SH & Coals w/carb, SS, SiltSt, SH	Yes	Yes	No	Possible	Possible
Pictured Cliffs	Massive Sandstone w/thin interbedded shales	Possible	Yes	Possible	No	Possible
Lewis	Shale w/thin interbedded sandstones and siltstones	No	Possible	No	No	No
Cliff House	Transgressive sandstones	Possible	Yes	No	No	No
Menefee	Sandstones, carb shales and coal	Possible	Yes	No	No	No
Point Lookout	Regressive coastal barrier sandstone	Possible	Yes	Possible	No	Yes
Mancos	Marine shale and interbedded sandstone	No	Possible	Possible	No	Possible
Upr Dadota	Marine sand and shales	No	Yes	Possible	No	Possible
Lwr Dakota	Fluvial sands, shales, & coal	Possible	Yes	Possible	No	Possible

DRILLING

Potential Hazards:

1. There are no overpressured zones expected in this well.
2. No H2S zones will be penetrated while drilling this well.

Mud System:

1. Surface - The surface hole will be drilled with a low-solids, non-dispersed system with starch and lost circulation material as needed. Expected mud weights will be in the 8.4 to 9.0 lb per gal range. Viscosities will be in the 30 to 60 sec/qrt range as needed to remove drill cuttings.
2. Intermediate - The intermediate hole will be drilled with clear water and Benex to TD where the well will be mudded up to log and run casing. The mud system will be low-solids, non-dispersed with mud weights in the 9 to 10 lb per gal range as needed to control the well. Viscosities will be in the 45 to 55 range as needed to support any weight material. The weight material will consist of Barite.
3. Production - The well will be drilled using air from the intermediate casing point to TD. For Fruitland Coal wells, the coal section will be drilled with air/mist.

WILLIAMS PRODUCTION Company, LLC
Well Control Equipment Schematic for LM 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)

Rotating Head (optional)

BOP Stack

Fill Line

Mud Flow to Pit

Double Ram Preventer

Drilling Spool

Kill line (2" Min)

Choke line to Manifold (2" Min)

Ground Level

Casing Head

Bull Plug

Ball Valve 2000 psi WP

Surface Casing

Production Casing

Choke & Kill
Manifold

Positive Choke

Bypass to
Steel Pit
(Optional)

2" Minimum Size

Pressure Gauge

From BOP
Stack

Straight-thru
to Tank or Pit

2" Minimum Size

2" Minimum Size

Working Pressure for all equipment
is 2,000 psi or greater

2" Minimum Size

To Tank or Pit

Adjustable
Choke

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

2005 OCT 31 PM 2

5. Lease Designation and Serial No.
NMSF-078763

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

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

8. Well Name and No.
ROSA UNIT #350

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

9. API Well No.
30-039-29366

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)
1290' FNL & 170' FWL NW/4 NW/4 SEC 11-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
X Subsequent Report	Recompletion
Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	Other <u>Spud</u>
	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.)*

This well was spud @ 1700 hrs 10/27/05

APD/ROW



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

Signed Tracy Ross
Tracy Ross

Title Sr. Production Analyst

Date October 28, 2005

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

NOV 02 2005

FARMINGTON FIELD OFFICE
BY db

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

sperry-sun
DRILLING SERVICES

End of Well Report

30-039-29364

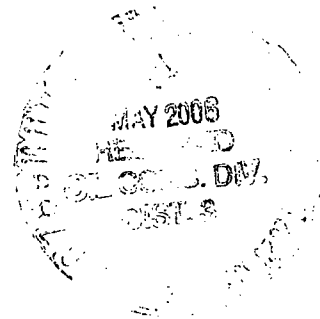
	Surface	1290/N	170/W	Sec 11	T31N	R5W
start	BHL 1	1019/N	437/E	Sec 10	"	"
end	BHL 2	791/N	1896/E	Sec 10	"	"

Rosa Unit # 350

Williams Production Company

HOLD G104 FOR NSL

11/19/2005



86

HALLIBURTON

9800 W RENO • OKLA CITY, OK 73127
PHONE 405.324.2222 • FAX 405.324.1009

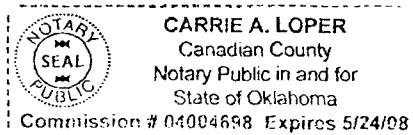
November 23, 2005

Re: Williams Production Co.
Rosa Unit #350
Sec. 11-T31N-R05W
Rio Arriba County, New Mexico

Enclosed please find the original and one copy of the surveys performed on the referenced well by Halliburton/Sperry Drilling Services.

<u>Name & Title of Supervisor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Dennis Cook Directional Supervisor	Original	510' – 5,510'	11/01/05 – 11/16/05	MWD
Dennis Cook Directional Supervisor	Projection to TD	5,510' – 5,575'		MWD

If any other information is required, please contact the undersigned at the letterhead address and phone number.



Dennis Cook
Directional Supervisor

My Commission Expires:

5/24/08

Carrie A. Loper
Notary Public



Williams Production Company
New Mexico
Rio Arriba County
Sec. 11-T31N-R05W
Rosa Unit #350 - MWD Survey

Haliburton Sperry-Drilling Survey Report

19 November, 2005

Surface Coordinates: 2153798.45 N, 644229.94 E (36° 55' 04.8840" N, 107° 20' 23.8265" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Western Zone

Surface Coordinates relative to Global Coordinates: 648807.32 N, 346549.17 E (Grid)
Surface Coordinates relative to Structure: 1290.00 S, 170.00 E (True)
Kelly Bushing Elevation: 6840.00ft above Mean Sea Level
Kelly Bushing Elevation: 73.00ft above Structure

Survey Ref: svy9455

HALLIBURTON

Sperry Drilling Services

Survey Report for Sec. 11-T31N-R05W - Rosa Unit #350 - MWD Survey

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates N-S (ft)	E-W (ft)	Dogleg Severit ("'/100ft)	Lease Calls FNL-FSL (ft)	FEL-FWL (ft)	Global Coordinates Grid Y (ft)	Grid X (ft)
0.00	0.000	0.000	0.00	0.00	0.00 N	0.00 E		1290.00 FNL	170.00 FWL	2153798.45 N	644229.94 E
510.00	0.400	170.690	510.00	-0.71	1.76 S	0.29 E	0.08	1291.76 FNL	170.29 FWL	2153796.69 N	644230.24 E
1009.00	1.000	118.490	1008.96	-5.63	5.55 S	4.40 E	0.16	1295.55 FNL	174.40 FWL	2153792.92 N	644234.37 E
1513.00	1.880	51.560	1512.83	-14.90	2.51 S	14.74 E	0.35	1292.51 FNL	184.74 FWL	2153796.01 N	644244.69 E
2006.00	1.670	76.740	2005.60	-26.18	4.16 N	28.06 E	0.16	1285.84 FNL	198.06 FWL	2153802.76 N	644257.98 E
2508.00	0.570	103.350	2507.49	-35.16	5.27 N	37.61 E	0.24	1284.73 FNL	207.61 FWL	2153803.91 N	644267.53 E
3044.00	1.140	92.900	3043.43	-43.05	4.38 N	45.53 E	0.11	1285.62 FNL	215.53 FWL	2153803.06 N	644275.45 E
3077.00	0.620	106.340	3076.43	-43.55	4.31 N	46.03 E	1.68	1285.69 FNL	216.03 FWL	2153803.00 N	644275.95 E
3108.00	1.180	282.600	3107.43	-43.40	4.34 N	45.88 E	5.80	1285.66 FNL	215.88 FWL	2153803.02 N	644275.80 E
3140.00	3.790	281.590	3139.39	-42.02	4.62 N	44.52 E	8.16	1285.38 FNL	214.52 FWL	2153803.30 N	644274.44 E
3171.00	6.680	280.810	3170.26	-39.19	5.16 N	41.75 E	9.33	1284.84 FNL	211.75 FWL	2153803.83 N	644271.66 E
3203.00	10.020	282.210	3201.92	-34.55	6.10 N	37.20 E	10.46	1283.90 FNL	207.20 FWL	2153804.74 N	644267.11 E
3234.00	13.360	284.680	3232.27	-28.27	7.58 N	31.10 E	10.89	1282.42 FNL	201.10 FWL	2153806.19 N	644261.00 E
3266.00	16.700	286.960	3263.17	-19.98	9.86 N	23.12 E	10.60	1280.14 FNL	193.12 FWL	2153808.43 N	644253.01 E
3297.00	20.190	286.720	3292.58	-10.18	12.70 N	13.73 E	11.26	1277.30 FNL	183.73 FWL	2153811.22 N	644243.61 E
3328.00	23.190	286.470	3321.38	1.26	15.97 N	2.75 E	9.68	1274.03 FNL	172.75 FWL	2153814.43 N	644232.61 E
3359.00	26.540	285.730	3349.50	14.29	19.58 N	9.77 W	10.85	1270.42 FNL	160.23 FWL	2153817.98 N	644220.07 E
3391.00	29.620	283.090	3377.73	29.35	23.31 N	24.36 W	10.38	1266.69 FNL	145.64 FWL	2153821.63 N	644205.46 E
3423.00	32.960	282.390	3405.07	45.96	26.97 N	40.57 W	10.50	1263.03 FNL	129.43 FWL	2153825.21 N	644189.24 E
3455.00	36.030	282.390	3431.44	64.07	30.86 N	58.26 W	9.59	1259.14 FNL	111.74 FWL	2153829.00 N	644171.52 E
3486.00	39.810	282.040	3455.89	83.10	34.88 N	76.88 W	12.21	1255.12 FNL	93.12 FWL	2153832.93 N	644152.88 E
3518.00	43.590	281.690	3479.78	104.37	39.26 N	97.71 W	11.83	1250.74 FNL	72.29 FWL	2153837.20 N	644132.03 E
3550.00	47.110	281.510	3502.27	127.11	43.83 N	120.01 W	11.01	1246.17 FNL	49.99 FWL	2153841.66 N	644109.71 E
3581.00	50.710	282.740	3522.64	150.45	48.75 N	142.84 W	11.99	1241.25 FNL	27.16 FWL	2153846.46 N	644086.85 E
3612.00	56.070	283.270	3541.12	175.32	54.35 N	167.08 W	17.34	1235.65 FNL	2.92 FWL	2153851.93 N	644062.58 E

Sec. line crossed

Start

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates N-S (ft)	E-W (ft)	Dogleg Severit (°/100ft)	Lease Calls FNL-FSL (ft)	FEL-FWL (ft)	Global Coordinates Grid Y (ft)	Grid X (ft)
3643.00	62.310	284.320	3556.99	201.93	60.70 N	192.92 W	20.34	1229.30 FNL	22.92 FEL	2153858.15 N	644036.71 E
3675.00	68.380	283.800	3570.33	231.00	67.76 N	221.12 W	19.03	1222.24 FNL	51.12 FEL	2153865.06 N	644008.47 E
3707.00	73.740	283.620	3580.72	261.25	74.93 N	250.52 W	16.76	1215.07 FNL	80.52 FEL	2153872.08 N	643979.04 E
3738.00	77.780	283.800	3588.34	291.29	82.05 N	279.70 W	13.04	1207.95 FNL	109.70 FEL	2153879.05 N	643949.82 E
3770.00	81.030	284.150	3594.22	322.74	89.65 N	310.22 W	10.21	1200.35 FNL	140.22 FEL	2153886.49 N	643919.26 E
3801.00	84.730	284.680	3598.06	353.50	97.30 N	340.01 W	12.06	1192.70 FNL	170.01 FEL	2153893.99 N	643889.43 E
3887.00	88.000	285.310	3603.52	439.31	119.51 N	422.90 W	3.87	1170.49 FNL	252.90 FEL	2153915.77 N	643806.43 E
3918.00	88.240	285.320	3604.53	470.28	127.89 N	452.78 W	0.77	1162.31 FNL	282.78 FEL	2153923.80 N	643776.50 E
3950.00	88.950	285.470	3605.32	502.27	136.18 N	483.63 W	2.27	1153.82 FNL	313.63 FEL	2153932.13 N	643745.62 E
3982.00	89.720	285.760	3605.69	534.26	144.79 N	514.44 W	2.57	1145.21 FNL	344.44 FEL	2153940.58 N	643714.76 E
4014.00	88.680	286.130	3606.14	566.24	153.58 N	545.21 W	3.45	1136.42 FNL	375.21 FEL	2153949.21 N	643683.95 E
4046.00	87.190	286.170	3607.29	598.20	162.48 N	575.92 W	4.66	1127.52 FNL	405.92 FEL	2153957.95 N	643653.18 E
4078.00	87.350	286.010	3608.81	630.15	171.34 N	606.64 W	0.71	1118.66 FNL	436.64 FEL	2153966.65 N	643622.43 E
4110.00	88.920	285.570	3609.85	662.12	180.04 N	637.41 W	5.10	1109.96 FNL	467.41 FEL	2153975.19 N	643591.61 E
4141.00	89.750	285.110	3610.21	693.11	188.24 N	667.30 W	3.06	1101.76 FNL	497.30 FEL	2153983.24 N	643561.67 E
4205.00	90.960	285.290	3609.82	757.10	205.02 N	729.06 W	1.91	1094.98 FNL	559.06 FEL	2153999.70 N	643499.83 E
4237.00	90.590	284.630	3609.38	789.09	213.28 N	759.98 W	2.36	1076.72 FNL	589.98 FEL	2154007.80 N	643488.87 E
4269.00	90.990	285.370	3608.94	821.09	221.56 N	790.88 W	2.63	1068.44 FNL	620.88 FEL	2154015.92 N	643437.92 E
4333.00	89.080	286.770	3608.90	885.05	239.27 N	852.38 W	3.70	1050.73 FNL	682.38 FEL	2154033.31 N	643376.34 E
4397.00	89.200	286.230	3609.86	948.99	257.45 N	913.73 W	0.86	1032.55 FNL	743.73 FEL	2154051.17 N	643314.89 E
4429.00	88.770	285.660	3610.43	980.97	266.24 N	944.50 W	2.23	1023.76 FNL	774.50 FEL	2154059.80 N	643284.08 E
4492.00	90.770	284.130	3610.68	1043.96	282.43 N	1005.38 W	4.00	1007.57 FNL	835.38 FEL	2154075.68 N	643223.12 E
4524.00	91.260	283.350	3610.12	1075.96	290.03 N	1036.46 W	2.88	999.97 FNL	866.46 FEL	2154083.12 N	643192.00 E
4556.00	89.780	282.760	3609.83	1107.95	297.26 N	1067.63 W	4.98	992.74 FNL	897.63 FEL	2154090.18 N	643160.79 E
4588.00	88.400	281.850	3610.34	1139.92	304.07 N	1098.89 W	5.17	985.93 FNL	928.89 FEL	2154096.84 N	643129.50 E
4652.00	90.180	282.280	3611.13	1203.87	317.45 N	1161.46 W	2.86	972.55 FNL	991.46 FEL	2154109.89 N	643086.85 E
4694.00	91.600	282.840	3610.63	1235.85	324.41 N	1192.69 W	4.77	965.59 FNL	1022.69 FEL	2154116.69 N	643035.59 E
4716.00	91.050	282.510	3609.89	1267.83	331.43 N	1223.91 W	2.00	958.57 FNL	1053.91 FEL	2154123.55 N	643004.34 E
4748.00	90.520	282.650	3609.45	1299.81	338.40 N	1255.13 W	1.71	951.60 FNL	1085.13 FEL	2154130.35 N	642973.07 E
4780.00	89.660	283.220	3609.40	1331.80	345.56 N	1286.32 W	3.22	944.44 FNL	1116.32 FEL	2154137.36 N	642941.85 E

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates N-S (ft)	E-W (ft)	Dogleg Severit (°/100ft)	Lease Calls FNL-FSL (ft)	FEL-FWL (ft)	Global Coordinates Grid Y (ft)	Grid X (ft)
4812.00	89.480	283.170	3609.64	1363.80	352.86 N	1317.48 W	0.58	937.14 FNL	1147.48 FEL	2154144.50 N	642910.66 E
4844.00	89.080	283.700	3610.05	1395.79	360.30 N	1348.60 W	2.07	929.70 FNL	1178.60 FEL	2154151.77 N	642879.50 E
4876.00	89.540	283.930	3610.43	1427.79	367.94 N	1379.67 W	1.61	922.06 FNL	1209.67 FEL	2154159.25 N	642848.39 E
4908.00	89.750	283.570	3610.63	1459.79	375.54 N	1410.75 W	1.30	914.46 FNL	1240.75 FEL	2154166.70 N	642817.27 E
4971.00	91.200	283.550	3610.11	1522.78	390.31 N	1471.99 W	2.30	899.69 FNL	1301.99 FEL	2154181.15 N	642755.95 E
5036.00	91.540	282.880	3608.55	1587.75	405.17 N	1535.25 W	1.16	884.83 FNL	1365.25 FEL	2154195.68 N	642692.61 E
5067.00	91.290	281.890	3607.79	1618.72	411.81 N	1565.52 W	3.29	878.19 FNL	1395.52 FEL	2154202.17 N	642662.31 E
5131.00	90.960	282.010	3606.53	1682.66	425.06 N	1628.12 W	0.55	864.94 FNL	1458.12 FEL	2154215.09 N	642599.64 E
5195.00	90.340	282.360	3605.80	1746.61	438.57 N	1690.68 W	1.11	851.43 FNL	1520.68 FEL	2154228.28 N	642537.02 E
5259.00	90.090	281.290	3605.56	1810.55	451.68 N	1753.32 W	1.72	838.32 FNL	1583.32 FEL	2154241.07 N	642474.31 E
5322.00	90.060	280.260	3605.48	1873.44	463.46 N	1815.21 W	1.64	826.54 FNL	1645.21 FEL	2154252.52 N	642412.36 E
5386.00	87.410	277.910	3606.89	1937.15	473.56 N	1878.38 W	5.53	816.44 FNL	1708.38 FEL	2154262.30 N	642349.14 E
5418.00	88.670	278.000	3607.99	1968.94	477.99 N	1910.05 W	3.95	812.01 FNL	1740.05 FEL	2154266.56 N	642317.45 E
5450.00	89.880	277.960	3608.39	2000.74	482.43 N	1941.74 W	3.78	807.57 FNL	1771.74 FEL	2154270.84 N	642285.74 E
5482.00	90.060	277.450	3608.41	2032.53	486.72 N	1973.45 W	1.69	803.28 FNL	1803.45 FEL	2154274.97 N	642254.00 E

last MWD survey

5510.00	90.590	277.390	3608.25	2060.33	490.34 N	2001.21 W	1.90	799.66 FNL	1831.21 FEL	2154278.44 N	642226.22 E
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projection to TD

5575.00	90.590	277.390	3607.58	2124.87	498.70 N	2065.67 W	0.00	791.30 FNL	1895.67 FEL	2154286.47 N	642161.72 E
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All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB(6825°+15°KB). Northings and Eastings are relative to Wellhead.

Based upon Minimum Curvature type calculations, at a Measured Depth of 5575.00ft.,
The Bottom Hole Displacement is 2125.02ft., in the Direction of 283.573° (True).

Survey Report for Sec. 11-T31N-R05W - Rosa Unit #350 - MWD Survey

Comments

Measured Depth (ft)	Station Coordinates		Comment
	TVD (ft)	Northings (ft)	
5510.00	3608.25	490.34 N	2001.21 W
5575.00	3607.58	498.70 N	2065.67 W
			last MWD survey projection to TD

North Reference Sheet for Sec. 11-T31N-R05W - Rosa Unit #350

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

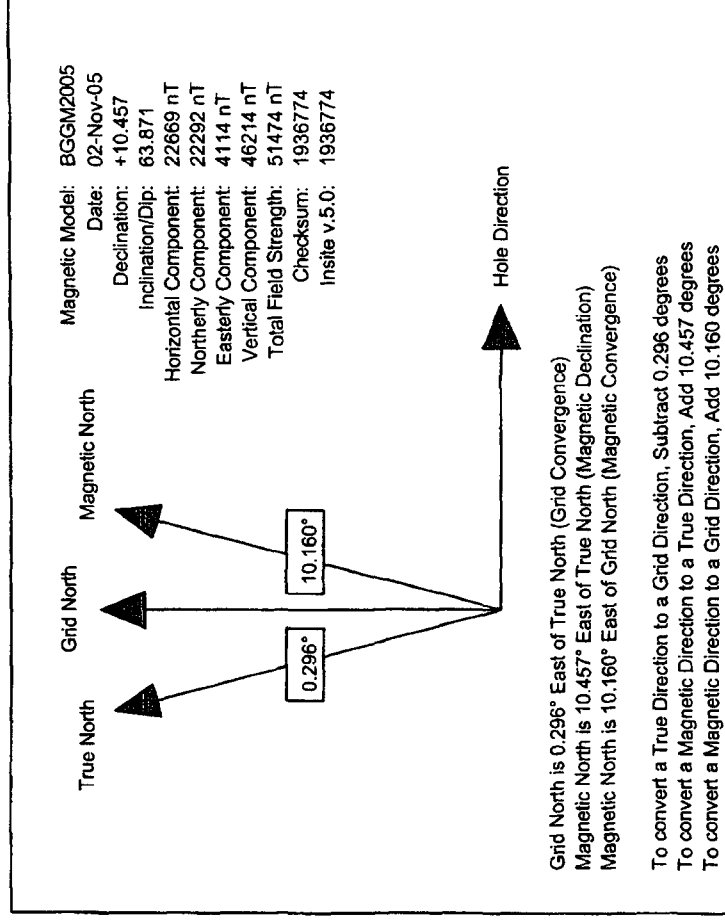
Datum is North American Datum of 1927 (US48, AK, HI, and Canada)

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

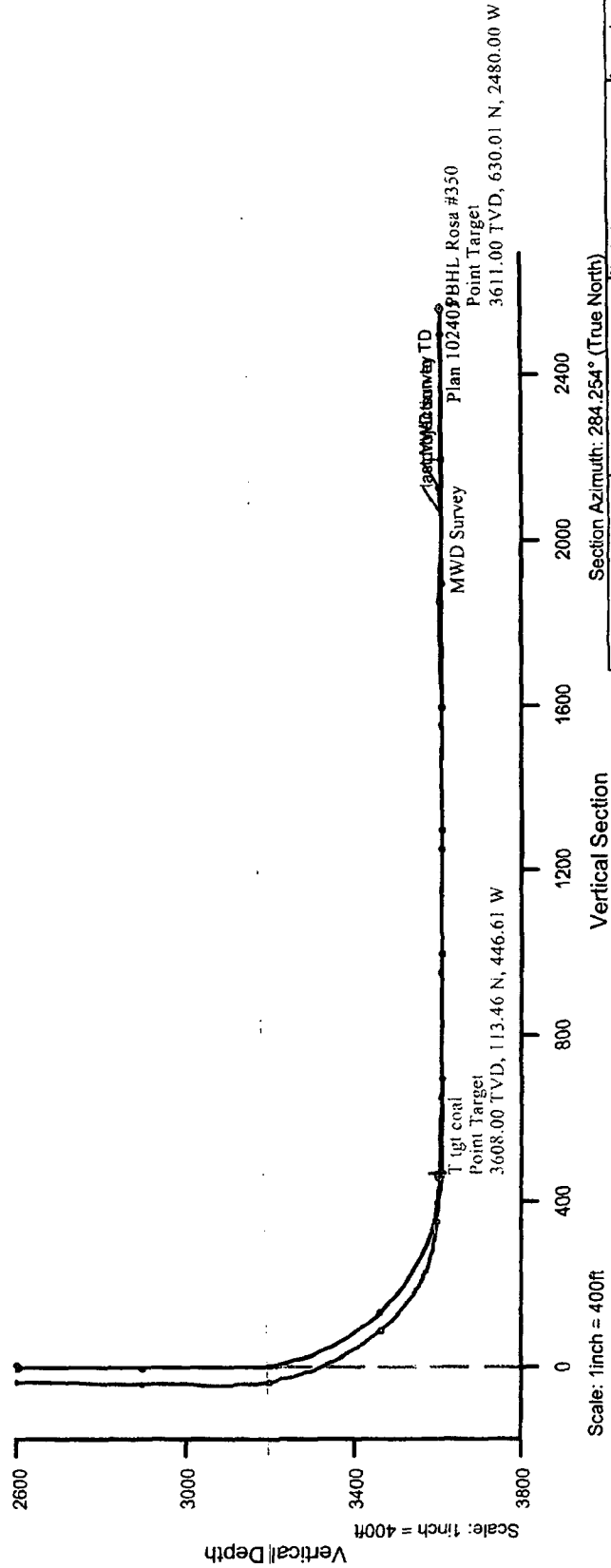
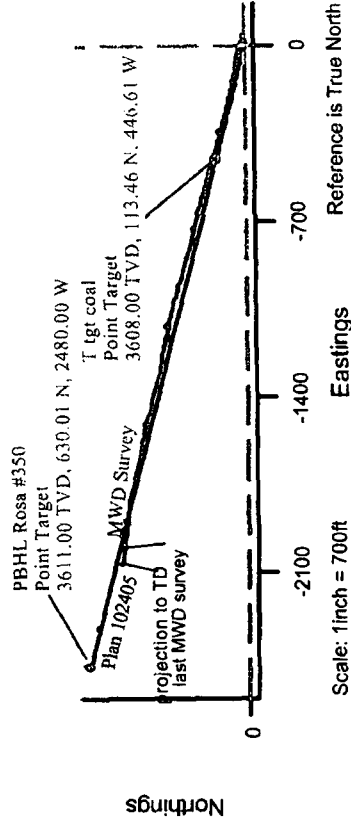
Projection method is Transverse Mercator or Gauss Kruger Projection

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: 2153798.45 N, 644229.94 E
Geographical Coordinates of Well: 36° 55' 04.8840" N, 107° 20' 23.8265" W
Surface Elevation of Well: 6840.00ft
Grid Convergence at Surface is +0.296°
Magnetic Declination at Surface is +10.457° (2 November, 2005)



New Mexico
Rio Arriba County
Sec. 11-T31N-R05W
Rosa Unit #350



OCT-24-2005 15:48
PO Box 1550, Hobbs, NM 88241-1950

WILLIAMS
Energy, Minerals & Natural Resources Department

9185731298 P.02
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District II
PO Drawer 00, Artesia, NM 88211-0719

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

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

District IV
PO Box 2068, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

Dennis Cook

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 350
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6826'

¹⁰ Surface Location

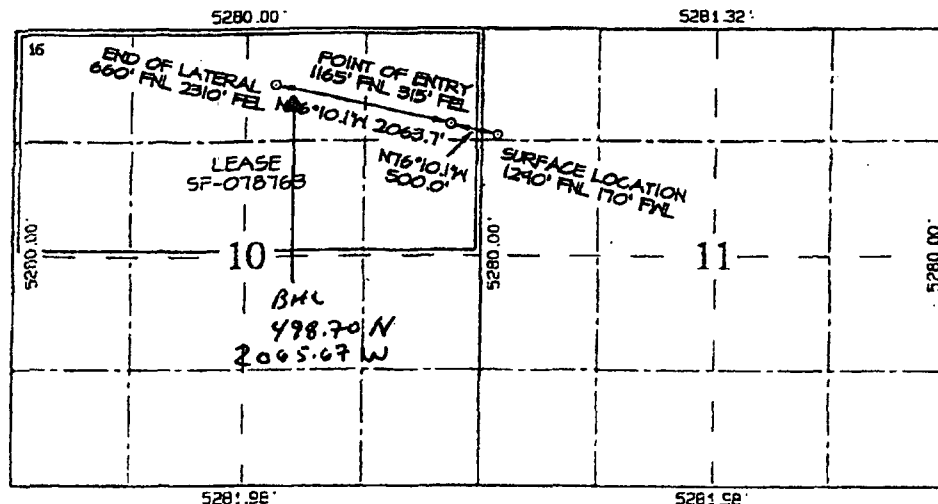
U. or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
0	11	31N	5W		1290	NORTH	170	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
B	10	31N	5W		660	NORTH	2310	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (N/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



¹⁷ OPERATOR CERTIFICATION

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

Dennis Cook
Signature

Printed Name

Dennis Cook

Title

12-6-04

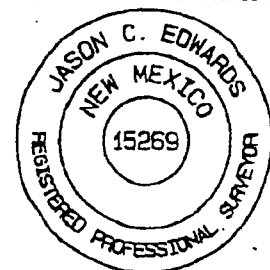
Date

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 8, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 12/14/2005		Well Number (API #) #350 (API # 30-039-29366)				
Completion Date 11/18/2005		Total Depth 5575'		Plug Back TD		Elevation 6826'		Unit Sec Twp Rng B 10 31N 05W	
Casing Size 4 1/2"		Weight 11.6		d		Set At 5574'		Perforations:	
Tubing Size 2 3/8"		Weight 4.7		d		Set At 3848'		Perforations:	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation Fruitland Coal		
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gq 0.6	%CO2	%N2	%H2S	Prover 3/4"	Meter Run	Taps	

FLOW DATA				TUBING DATA		CASING DATA			
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	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	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	
2					Specific Gravity Separator _____	XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 =	(2) Pc2^n =
1212					3.159427	2.3697703
		1002	1004004	464940	Pc2-Pw2	Pc2-Pw2

Absolute Open Flow 6523		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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

5. Lease Designation and Serial No.
NMSF-078763

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

8. Well Name and No.
ROSA UNIT #350

9. API Well No.
30-039-29366

10. Field and Pool, or Exploratory Area
BASIN FRUITLAND COAL

11. County or Parish, State
RIO ARRIBA, NM

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

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.
PO BOX 3102 MS 25-2, TULSA, OK 74101 (918) 573-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1290' FNL & 170' FWL, NW/4 NE/4 SEC 10-T31N-R05W

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

TYPE OF SUBMISSION	TYPE OF ACTION
Notice of Intent	Abandonment
☒ Subsequent Report	Recompletion
Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	Other <u>Completion</u>
	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.)*

10-28-2005 MIRU, drill rat & mouse holes. Spud well @ 1700 hrs, 10/27/05. Drill 12 1/4" surface hole from 0' to 282'.

10-29-2005 Drill 12 1/4" surface hole from 282' to 340', circulate hole clean, TOOH. RU csg crew, RIH & land 7 jts 9 1/2", 36#, J-55, ST&C csg @ 316' as follows: guide shoe, 1 jt csg, insert float, 6 jts csg & 17' landing jt, circulate csg, RD csg crew. RU cementers & cmt as follows: 300 sxs (423 cu.ft.) Type III cmt + 2% CaCl2 + 1/4#/SX Cello Flake + 48.75 bbls FW = 75.30 bbls slurry @ 14.5 ppg (yield 1.41/wps 6.84). Displace w/ 20.9 bbls FW. Bump plug @ 148 psi, check float, held. 10 bbls cmt returns to surface. WOC, NU BOPE & all related equipment. Test BOP & all related equipment 10 min each, low 250 psi/high 1500 psi, csg 1500 psi - 10 min, all test good. PU 8 3/4" bit & BHA, TIH to 259'.

10-30-2005 Tag TOC @ 259', drill cmt from 259' to 282', drill cmt-float-cmt from 282' to 312'. Drill cmt & guide shoe from 312' to 316', CO from 316' to 340', TD of 12 1/4" hole section. Drill 8 3/4" hole from 340' to 1400'.

10-31-2005 Drilling 8 3/4" hole from 1400' to 2236'.

Continued on Back

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

Signed Tracy Ross
Tracy Ross

Title Sr. Production Analyst

Date May 12, 2006

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

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.

FARMINGTON FIELD OFFICE

NMOC

11-01-2005 Drilling 8 3/4" hole from 2236' to 2804'.

11-02-2005 Drill 8 3/4" hole from 2804' to 3100', directional section of well @ 3100'. TOOH, PU & orient directional BHA, RIH w/ BHA.

11-03-2005 Wash/ream from 3040' to 3100'. Kick off @ 3100', drill directional section from 3100' to 3156', circulate & condition mud.

11-04-2005 Directionally drill 8 3/4" hole from 3156' to 3163', hole packed off, TOOH, LD directional BHA. RIH w/ BHA, will not go deeper than 775', wash & ream from 775' to 1067'

11-05-2005 Wash & ream in hole from 1067' to 1642'.

11-06-2005 Wash/ream back in hole from 1642' to 3100'. Circulate & condition mud & hole, get hole back in shape before drilling ahead.

11-07-2005 Circulate & condition mud & hole to inhibit sliding shales. Wash & ream from 3100' to 3163'. Directionally drilling 8 3/4" hole from 3163' to 3388' in slide mode. Down for rig repairs on #1 mud pump

11-08-2005 Wait on welder to replace pop-off valve. Directional drill 8 3/4" hole from 3388' to 3421'. Circulate hole clean to trip for MM. Change bit, MM is good, adjust MM housing, test MM & MWD. RIH w/ new bit to 3300', hit bridge. Wash & ream from 3300' to 3400'. Wait on mechanics to repair mud pump #1, broke swab end off of pony rod.

11-09-2005 Circulate hole, wait on pump parts, complete repairs. Wash & ream from 3400' to 3421'. Directional drill 8 3/4" hole from 3421' to 3592'.

11-10-2005 Directional drill 8 3/4" hole from 3592' to 3688'.

11-11-2005 Directional drill 8 3/4" hole from 3688' to 3864'.

11-12-2005 Circulate & condition mud & hole for wiper trip. Wiper trip back to 9 5/8" csg shoe. RIH to bottom @ 3864', hole is in good condition. POOH, LD drill string, change over to 7" csg rams, RU csg crew, prepare to run csg.

11-13-2005 RIH, land 7" csg @ 3860' as follows: shoe, 1 jt csg, insert float, 98 jts csg = 3845' + 15' landing jt = 3860'. Total of 99 jts 7", 23#, K-55, LT&C csg. Circulate 7" csg, RD csg crew, RU cementers. Cmt 7" csg as follows. Lead: 591 sxs (1241 cu.ft.) Premium Light cmt + 8% gel + 1% CaCl2 + .25#/sx Cello Flake + 163 bbls FW = 221 bbls slurry @ 12.1 ppg. (Yield = 2.10/WGS = 11.57). Tail: 150 sxs (210 cu.ft.) Type III cmt + 1% CaCl2 + .25#/sx Cello Flake + 25 bbls FW = 38 bbls slurry @ 14.5 ppg. (Yield = 1.4/WGS = 6.82). Displace w/ 155 bbls FW @ 1100 psi, bump plug @ 1600 psi, check float, good. 30 bbls cmt returned to surface, good cmt job. RD cementers, ND BOP to install slips & tbg head. NU BOP & test 250 psi low/1500 psi high @ 15 min each test, test 7" csg 1500 psi for 15 min, all tests good. PU new 4 3/4" directional BHA, test MM & MWD, good. RIH w/ new BHA.

11-14-2005 Tag cmt @ 3840', drill cmt, float, cmt, guide shoe from 3840' to 3860', CO from 3860' to 3864', bottom of hole. Drill 6 1/4" hole from 3860' to 4030'.

11-15-2005 Drill 6 1/4" directional hole from 4030' to 4941'.

11-16-2005 Drill 6 1/4" directional hole from 4941' to 5575', circulate & condition hole. POOH to MWD tool.

11-17-2005 LD Halliburton directional tools. RU csg crew. RIH w/ 60 jts 4 1/2", 11.6#, J-55 csg, landed @ 5574', TOL @ 3088', overlap = 772'. POOH, LD drill string used to run liner. RU csg crew to run tbg. RIH w/ 118 jts 2 3/4", 4.7#, J-55 tbg, land @ 3848' (MD), 3600' (TVD). Displace well from 10.5 ppg CaCl to production water. LD landing jt, ND BOP, install bottom xmas tree. ND BOP & related equipment. Turn well to production department.

11-18-2005 Rig is released @ 0600 hrs.

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. 30-039-29366
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: ROSA UNIT
8. Well No. 350
9. Pool name or Wildcat BASIN FRUITLAND COAL

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-91) FOR SUCH PROPOSALS)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	
2. Name of Operator WILLIAMS PRODUCTION COMPANY	
3. Address of Operator P O BOX 3102, MS 25-2, TULSA, OK 74101	
4. Well Location (Surface) Unit letter <u>B</u> : 791 feet from the <u>NORTH</u> line & 1896 feet from the <u>EAST</u> line Sec 10-31N-05W RIO ARRIBA, NM	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6826' GR	

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 performances

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 1/2" liner information: liner was landed @ 5574' as follows: liner hanger, 4 jt 4 1/2", 10.5# J-55 non-perforated csg, 56 jts 4 1/2", 11.5#, J-55 pre-perfed csg & shoe on bottom. TOL @ 3088'. Liner perfs are from 3260' to 5570'. 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 Rose TITLE: SR. Production Analyst DATE: July 18, 2006

Type or print name TRACY ROSS Telephone No: (918) 573-6254
(This space for State use)

APPROVED BY [Signature] TITLE: SENIOR OIL & GAS INSPECTOR, DIST. I DATE: JUL 26 2006
Conditions of approval, if any:

ROSA UNIT #350 BASIN FRUITLAND COAL

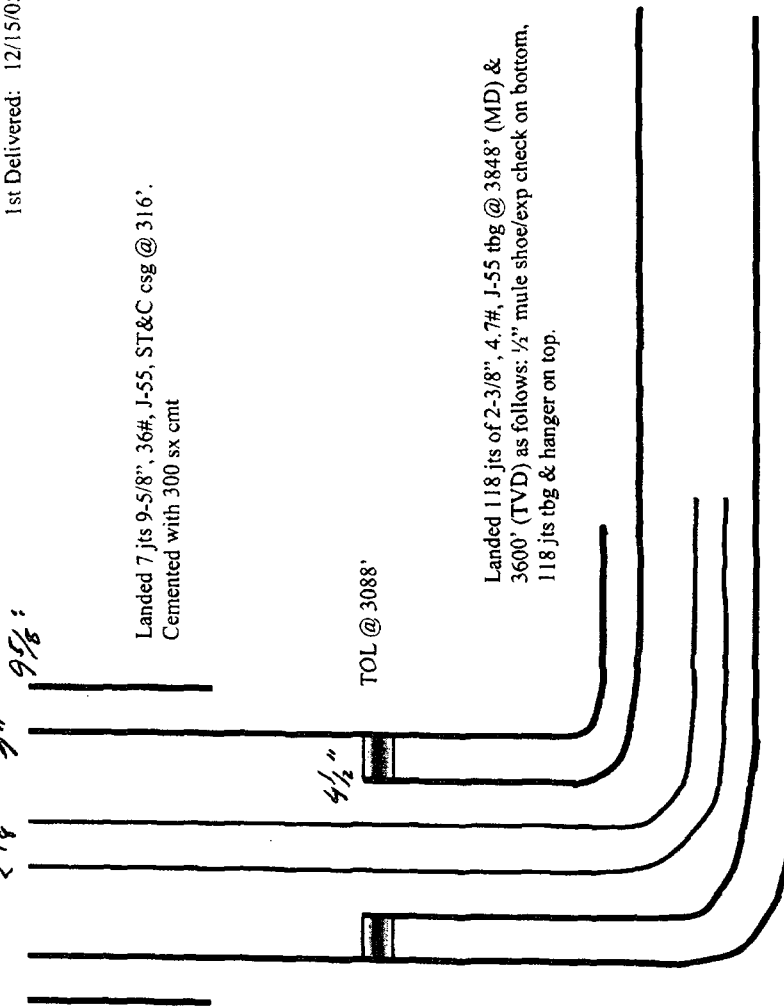
Spud date: 10/27/05
Completed: 11/18/05
1st Delivered: 12/15/05

Location:
SHL: 1290' FNL and 170' FWL
NW/4 NW/4 Sec 11(D), T31N, R05W

BHL: 791' FNL and 1896' FEL
NW/4 NE/4 Sec 10(B), T31N, R05W
Rio Arriba, New Mexico

Elevation: 6826' GR
API # 30-039-29366

Top	MD Depth	TVD DEPTH
Ojo Alamo	2866'	2940'
Kirtland	2976'	3055'
Fruitland	3349'	3340'
Base of Coal	3747'	3615'



TD @ 5575' TMD
@ 3608' TVD

Landed 4-1/2" liner @ 5574', TOL @ 3088' as follows:
liner hanger, 4 jts 4 1/2", 10.5#, J-55 non-perfed csg, 56 jts, 4 1/2", 11.5#, J-55 perfed csg & shoe on bottom. Liner perfs are from 3260' to 5570'. Total feet perforated = 2310' @ 24 SPF. Total of 55,440 (0.50") holes. Did not cement

1179' FNL
227' FEL

Hole Size	Casing	Cement	Volume	Top of CMT
12-1/4"	9-5/8", 36#	300 sx	423 cu.ft.	surface
8-3/4"	7", 23#	741 sx	1451 cu.ft.	surface
6-1/4"	4-1/2", 11.6#	Did Not Cmt	N/A	N/A

Williams Production Company
Rosa Unit Well No. 350
30-029-29366
Spud Date: 10-27-2005
TD @ 11-16-2005 @ 5575' MD
Top of Coal - 3543' MD

Surface Location: 1290' FNL + 170' FWL (D) 11-T31N-R5W
Subsurface Location @ top of coal (3543' MD)
1246' FNL + 50' FWL (D) 11-T31N-R5W
Horizontal Incl. Angle achieved @ 4078' MD (3609' TVD)
1119' FNL - 437' FEL (A) 10-T31N-R5W
TD @ 5575' MD (3608' TVD) - 1497' of horizontal drilled
791' FNL - 1896' FEL (B) 10-T31N-R5W

7" casing @ 3860' (cement to surface)
~ 1177' FNL + 227' FEL

4 1/2" liner from 3088' to 5574'
perforated interval 3260' MD to 5570' MD

Subsurface location @ 3260' is: 1280' FNL - 1446' FEL (A)
Sec. 10-T31N-R5W

Kick-off point @ 3100'

Wellbore crossed into Sec. 10 from Sec. 11 @ an approximate depth of 3617'