FORM 3160-3 (December 1990) SUBMIT IN TRIPLICATE* (Other instructions on Form approved. Budget Bureau No. 1004-0136

everse side)	verse	side)	
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UNITED STATES DEPARTMENT OF THE INTERIOR 2004 GHO OF THE INTERIOR

Expires December 31, 1991 5. LEASE DESIGNATION AND SERIAL NO.

BUI	REAU OF LAND MAI	NAGEMENT (#	n nuo 21 1 3	SF- 0787	73.
APPLICATION F	OR PERMIT TO D	RILL, DEEPEN. (OR PLUG BACK	6. IF INDIAN, ALLOTTEE (OR TRIBE NAME
	LLX DEEPEN		OTO FARMINGE O	7: UNIT AGREEMENT NAM	ME
1b. TYPE OF WELL				Rosa Uni	t
				8. FARM OR LEASE NAME	
WELL W	$\max_{X} X$ other	SINGLE X ZONE	MULTIPLE ZONE] 237A	
2. NAME OF OPERATOR Williams I	Production Company,	LLC	15 15 77 200	9. APLWELL NO. 30 045-	32558
3. ADDRESS OF OPERATOR		A 70	A CO	10. FIELD AND POOL OR V	
P. O. B	ox 361, Ignacio, CO 81	(137 (505) 563-3308/		Basin Fru	itland Coal
4. LOCATION OF WELL (Report loc		th any State requirements.*)	NOV 2004	SEC., T., R., M., OR BLK	
At Surface 450' FSL d	& 1965' FEL	Par.	Device D	AND SURVEY OR AREA	
At proposed Prod. Zone	0.001012227	£	- CIL CONE. DW.	Surface - Sec. 4,	
1430' FSL c	& 2310' FEL	an opposit	O DAGE S	12. COUNTY OR PARISH	c. 4, T31N, R6W (J)
	itely 23 miles NE of B		F. 21	San Juan	I3. STATE NM
15. DISTANCE FROM PROPOSED* LOC		16. NO. OF ACRES IN LEAS	SE CONTROL STORY	NO. OF ACRES ASSIGNED TO	
OR LEASE LINE, FT. (Also to nearest of 1190	ddg. unit line, if any)	25	52.71	345.77· 347.4	18 ALI
18. DISTANCE FROM PROPOSED LOCA		19. PROPOSED DEPTH	20.	ROTARY OR CABLE TOOLS	
DRILLING, COMPLETED, OR APPLI 115	IED FOR ON THIS LEASE, FT.	34	90'	Rotary	
21. ELEVATIONS (Show whether DF, RT,	GR, etc.)		<u> </u>	22. APPROX. DATE WORK	WILL START*
6460' GR				September	r 30, 2004
23.		SING AND CEMENTING		· ·	
12-1/4"	9-5/8"	<u> </u>	SETTING DEPTH +/- 300'		TY OF CEMENT II with 2% CaCl ₂
8-3/4"	7"	20.0#	+/- 3090'		poz & \sim 70 cu.ft.Type I
					· · · · · · · · · · · · · · · · · · ·
.6-1/4"	5-1/2"	15.5#	+/- 2990'-3470'	Open hole comple	etion - no cement
Williams Production Codescribed location in activities location has been obeen submitted directly. This APD also is serving the APD also is serving this APD also is serving the APD also is also is serving the APD also is a	cordance with the att archaeologically surv to your office. g as an application to ipeline & Well Plats	ached drilling and eyed by Independen obtain BLM road 3 & #4). This exis obtain BLM road	surface use plans. It Contract Archaeolog and pipeline right-of-v ting road crosses the l and pipeline right-of-v	gy. Copies of their ways. This well wil N/2 of Sec. 9 T31N	report have I require no
IN ABOVE SPACE DESCRIBE PRO If proposal is to drill or deepen direction 24.					e.
SIGNED LAWRING	Hagin	TITLE <u>Lar</u>	ry Higgins, Drlg COM	DATE	8/23/2004
(This space for Federal or State office use	e)				
PERMIT NO.		APPROVAL DATE			
Application approval does not warrant or CONDITIONS OF APPROVAL, IF AN	certify that the applicant holds legal or	equitable title to those rights in the	subject lease which would entitle the app	Dicant to conduct operations there	on.

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

*See Instructions On Reverse Side

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

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

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

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office
Lease - 4 Copies
Lease - 3 Copies OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

AUG 2 4 2004 AMENDED REPORT

Bureau of Land Management Familington Field Office

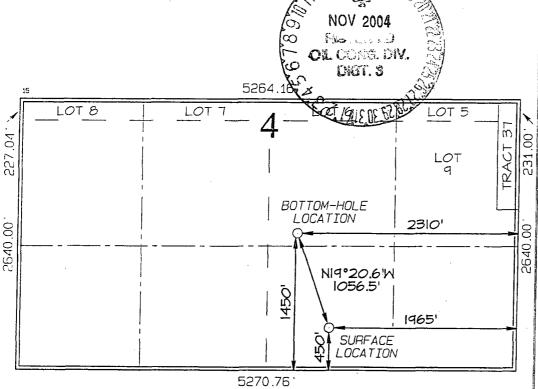
WELL LOCATION AND ACREAGE DEDICATION PLAT

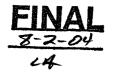
30045-37558	*Pool Code 71629	COAL	
'Property Code 17033		operty Name A UNIT COM	*Well Number 237A
'OGRID No. 120782		erator Name RODUCTION COMPANY	filevation 6460

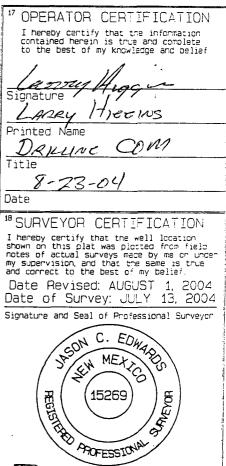
10 Surface Location

Solitace Location									
UL or lot no.	Section .	Township	Range	Lot Idn	Feet from the	North/South lire	Feet from the	East/West line	County
0	4	31N	6W		450	SOUTH	1965	EAST	SAN JUAN
		11 [ottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lat no.	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	4	31N	6W		1450	SOUTH	2310	EAST	SAN JUAN
¹² Dedicated Acres	347	148.	-A11	/	13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		`

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNITALIST BEEN APPROVED BY THE DIVISION







Certificate Number

-DWARDS

15269

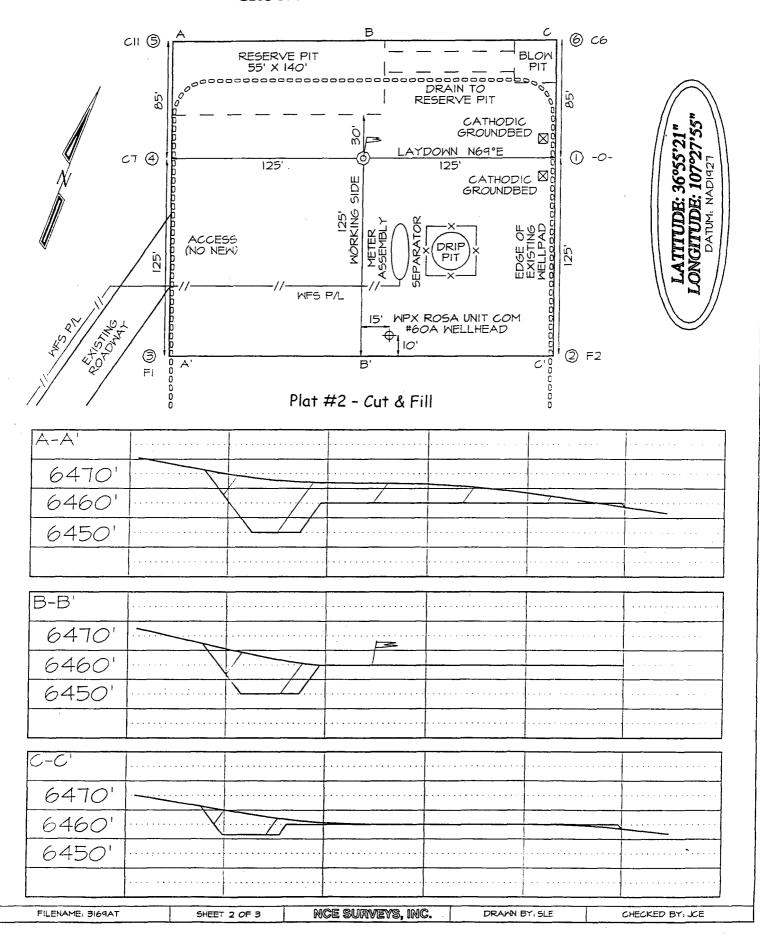
Submit 3 Copies To Appropriate District Office District 1 635 N. Franck Do Habba NM 88340		New Mexico and Natural Resource	ees WELL API NO	Form C-103 May 27, 2004		
625 N. French Dr., Hobbs, NM 88240 District II	OIL CONCEDI	VATION DIVISIO		<i>)</i> .		
1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South	n St. Francis Dr.	5. Indicate Ty Federal	*		
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe	e, NM 87505	6. State Oil &	Gas Lease No.		
				7. Lease Name or Unit Agreement Name Rosa Unit		
1. Type of Well: Oil Well	Gas Well X Other		8. Well Numb			
2. Name of Operator Williams Production Co.	ampany		9. OGRID Nu 1 20782	9. OGRID Number 120782		
3. Address of Operator P.O. Box 316, Ignacio,	CO 81137-0316		10. Pool name Basin Fruitlan	1		
4. Well Location Unit Letter O 450' f	eet from the South line	and 1965' feet from	the <u>East</u> line			
Section 4		N Range 6W	NMPM	County San Juan		
Pit or Below-grade Tank Application X or	11. Elevation (Show wh		'R, etc.)			
Pit type <u>Drilling</u> Depth to Groundwater		fresh water well1000'	Distance from nearest	surface water 1000°		
	elow-Grade Tank: Volume		onstruction Material	January Tares		
	Appropriate Box to In	dicate Nature of No	otice. Report or Oth	er Data		
	••		•			
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	COMMEN	SUBSEQUENT R . WORK CE DRILLING OPNS EMENT JOB	ALTERING CASING		
OTHER:	<i>r</i>	OTHER:		П		
13. Describe proposed or compl		state all pertinent deta		ates, including estimated date gram of proposed completion		
•						
Reserve pit to be constructed in	n accordance with NI	MOCD Interim Pit	and Below-Grade T	ank Guidelines.		
I hereby certify that the information a grade tank has been/will be constructed or of	bove is true and completed according to NMOCD s	e to the best of my kno guidelines □, a general per	wledge and belief. I fur mit or an (attached) alte	ther certify that any pit or below- rnative OCD-approved plan [].		
SIGNATURE Larry /	Luggin ?	TITLE <u>Drilling Com</u>	DATE August 23,	2004		
Type or print name Larry Higgins For State Use Only	E-mail address: 1	larry.higgins#william	•	0101		
APPROVED BY: Conditions of Approval (if any):	Affyl	DEPUTY OIL & G	as inspector, dist. (E NOV 1 5 2004'		

WELL API NO.	Submit 3 Copies To Appropriate District Office		New Mexico	00		Form C-103 May 27, 2004
Oil County San Juan 1220 South St. Francis Dr. Santa Fe, NM 87505		Ellergy, Willierais	and Natural Resourc	WEL	L API NO.	Way 27, 2004
District		OIL CONSERV	VATION DIVISION	N F	1' · T ·	
Santa Fe, NM 87505 6. State Oil & Gas Lease No.	District III	1220 Soutl	n St. Francis Dr.	5. In		Lease
SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name DO NOT USE THIS FORM FOR PROPOSALS 10 DRILLOR TO DEPTREASE TRESERVOR. USE "APPLICATION FOR FREMIT" FORM C-101) FOR SUCH Rosa Unit	<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fo	e, NM 87505	6. St		Lease No.
1. Type of Well: Oil Well	SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO	A		Init Agreement Name		
2. Name of Operator 9. OGRID Number 120782 3. Address of Operator 10. Pool name or Wildcat Basin Fruitland Coal 4. Well Location Unit Letter 0 450° feet from the South line and 1965° feet from the East line Section 4 Township 31N Range 6W NMPM County San Juan	· —	Can Wall V Other				37A
3. Address of Operator P.O. Box 316, Ignacio, CO 81137-0316 4. Well Location Unit Letter O 450' feet from the South line and 1965' feet from the East line Section 4 Township 31N Range oW NMPM County San Juan 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6450' Pit type Production Depth to Groundwater >100' intake from nearest fresh water well_1000' Distance from nearest surface water_1000' Pit Liner Thickness mil Below-Grade Tank Volume 120 bits; Construction Material Elberglass 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON CASING CERILLING OPINS PAND A LITERING CASING COMMENCE GRILLING OPINS PAND 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. Below-grade tank to be constructed in accordance with NMOCD Interim Pit and Below-Grade Tank Guidelines. 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 dosed according to NMOCD guideline D. a general permit or an (attached) alternative OCD-approved plan D. SIGNATURE TITLE Drilling Com DATE August 23, 2004 Type or print name Larry Higgins Email address: larry.higgins#williams.com Telephone No. 970/563/3308 For State Use Only	2. Name of Operator			,		
P.O. Box 316, Ignacio, CO 81137-0316 Basin Fruitland Coal		mpany				7ildost
Well Location		CO 81137-0316		l l		1
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Section 4 Township 31N Range 6W NMPM County San Juan		feet from the South line	and 1965' feet from	the East 1	ine	
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Pit type Production	THE STATE OF	11. Elevation (Show wh	hether DR, RKB, RT, G	R, etc.)		TOTAL SECTION IN
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Type or print name Larry Higgins E-mail address: larry.higgins#williams.com Telephone No. 970/563/3308 For State Use Only	SIGNATURE Janua !	, //				
		E-mail address:				
APPROVED BY: DATE	APPROVED BY:	/W.1 -	riti c		T.	A TE

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f

WILLIAMS PRODUCTION COMPANY ROSA UNIT COM #237A 450' FSL & 1965' FEL, SECTION 4, T31N, R6W, NMPM SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 6460'





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

8/23/2004

WELLNAME:

Rosa Unit #237A

FIELD:

Basin Fruitland Coal

BH LOCATION:

NWSE Sec 4-31N-6W

SURFACE:

BOR

SURF. LOCATION:

SWSE Sec 4-31N-6W

San Juan, NM

ELEVATION:

6460' GR

MINERALS:

FED

TOTAL DEPTH:

3,490'

LEASE#

SF-078772

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	TVD	MD	NAME	TVD	MD
San Jose	Surface	Surface	Top Coal	3,130	3,370
Nancimiento	1,075	1,089	Bottom Coal	3,230	3,470
Ojo Alomo	2,420	2,632	Pictured Cliffs	3,230	3,470
Kirtland	2,535	2,757	TD	3,250	3,490
Fruitland	3,040	3,280			

B. LOGGING PROGRAM: None

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

II. DRILLING

- A. <u>MUD PROGRAM:</u> 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 3,090' DO NOT drill deeper until Engineering is contacted.
- **B.** <u>Drilling Fluid:</u> Coal section will be drilled with Fruitland Coal water. Mud logger will pick TD at +/- 3,490°.
- C. MUD LOGGING PRORAM: Mud logger will be on location at drill out below 7" casing to TD.

C. <u>BOP TESTING</u>: 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	<u>DEPTH</u> (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,090'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2,990-3,470'	5-1/2"	15.5# K-55

B. FLOAT EQUIPMENT:

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

C. CEMENTING:

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

- 1. <u>SURFACE</u>: Use <u>190 sx</u> (264 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 = 264 cu.ft. Test to 1500#.
- 2. INTERMEDIATE: Lead 460 sx (962 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 50 sx (70 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 100% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 1,032 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.

Williams Production Company, LLC Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

