SUBMIT IN TRIPLICATE* (Other instructions on Form approved. Budget Bureau No. 1004-0136

J	UNITED STAT	TES .	reverse side)	Expires December 31, 1991		
DEPAR	TMENT OF TH	E INTERIOR		5. LEASE DESIGNATION AND SERIAL NO.		
BURE	AU OF LAND MAI	NAGEMENT !!!	12 60 11 37	SF-078765		
	· ····	1201		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
APPLICATION FO	R PERMIT TO DI	RILL, DEEPEN, (OR PLUG BACK			
LA TYPE OF WORK DRILL	X DEEPEN	1 070	FARMINGTON NM	7. UNIT AGREEMENT NAME		
1b. TYPE OF WELL			1. Martin 11 C 2 (2.12.13. 14.0)	Rosa Unit		
<u></u>		_		8. FARM OR LEASE NAME, WELL NO.		
OIL GA	S X OTHER	SINGLE	MULTIPLE	222A		
WELL WELL	L	ZONE	ZONE			
2. NAME OF OPERATOR				9. API WELL NO.		
	oduction Company	, LLC	A (19 11 11 11 11 11 11 11 11 11 11 11 11 1	30039 27825		
3. ADDRESS OF OPERATOR	16 7	1127 (070) (1)	8 9 10 11 (B)	10. FIELD AND POOL OR WILDCAT		
	16 - Ignacio, CO 8		27 93	Basin Fruitland Coal		
4. LOCATION OF WELL (Report loc		ce with any State requirements	st) of p	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
	and 2180' FEL	40	~ 5004 A	·		
At proposed Prod. Zone			र्ज वर्ष	\int Sec. 15, T31N, R6W (J)		
14. DISTANCE IN MILES AND DIRECTI	ON FROM NEAREST TOWN OF	POST OFFICE*	- 107 Cop - St	12. COUNTY OR PARISH 13. STATE		
	of Blanco New Me	4		Rio Arriba / NM		
15. DISTANCE FROM PROPOSED* LOC			SE> 0. 17.	NO. OF ACRES ASSIGNED TO THIS WELL		
OR LEASE LINE, FT. (Also to nearest of	blg. unit line, if any)		SEL292 92 92 92 92 92 92 92 92 92 92 92 92	220 1120 12		
450'		246	00.23	320 A E 2		
 DISTANCE FROM PROPOSED LOCA DRILLING, COMPLETED, OR APPLI 		19. PROPOSED DEPTH	20.	ROTARY OR CABLE TOOLS		
300'	,	315	55'	Rotary		
21. ELEVATIONS (Show whether DF, RT,	GR, etc.)			22. APPROX. DATE WORK WILL START*		
6321' GR			······································	July 30, 2004		
23.	- 	ING AND CEMENTING				
SIZE OF HOLE 12-1/4"	SIZE OF CASING 9-5/8"	<u> </u>	SETTING DEPTH +/- 300'	QUANTITY OF CEMENT ~206 cu.ft. Type III with 2% CaCl 2		
8-3/4"	7"	20.0#	+/- 3010'	~200 cu.ft. Type III with 2% CaCt ₂ ~765 cu.ft.65/35 poz & ~70 cu.ft. Type I		
	 		 	~703 cu.jt.03733 poz & ~70 cu.jt.1ype		
6-1/4"	5-1/2"	15.5#	+/- 2910'-3155'	Open hole completion - no cement		
described location in accipurisdiction of the Burea This location has been a submitted directly to you This APD also is serving approximately 50' of new This road crosses the E/L	cordance with the act of Reclamation. It is considered to the construction of the cons	ttached drilling and veyed by Independent of obtain road and this new road joins of N/2 of Sec. 14 who sal is to deepen or plug back,	d surface use plans. lent Contract Archae pipeline right-of-way an existing road in the ere it joins the main l	ology. Copies of their report have be vs. This well will require e SE/4 of Sec. 15, T31N, R6W. Rosa Road in the NE/4 of Sec. 14,		
SIGNED	. // `	I az	ry Higgins, Drlg COM	7/12/2004		
SIGNED CONTRACT	I I man	TITLE LUI	IY IIIXXIIIS, Drig COM	DAIE //12/2004		
	1199					
(This space for Federal or State office use)					
PERMIT NO.	,	APPROVAL DATE		the applicant to conduct operations thereon		

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 fraudulentistatements or representations as to any matter within its jurisdiction.

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 fraudulentistatements or representations as to any matter within its jurisdiction.

"GENERAL HEQUIREMENTS".

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

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

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

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

API Number

State of New Mexico Energy, Minerals & Natural Resources Department

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

Pool Code

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Conject

¹Pool Name

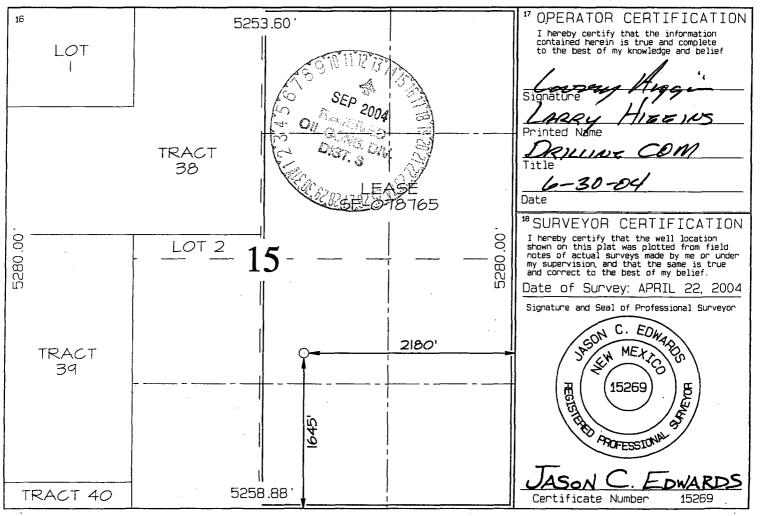
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30.03	9-2	7875	5	71629	BASIN FRUITLAND COAL				
Property	Code		°Property Name ROSA UNIT					5 V	lell Number 222A
'OGRID 1 12078	, Sport Cook Training					9	Elevation 6321'		
¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feat from the	North/South line	Feet from the	East/West line	County
J	15	31N	6W		1645	SOUTH	2180	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
320.0 Acres - (E/2)			¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order Na.				

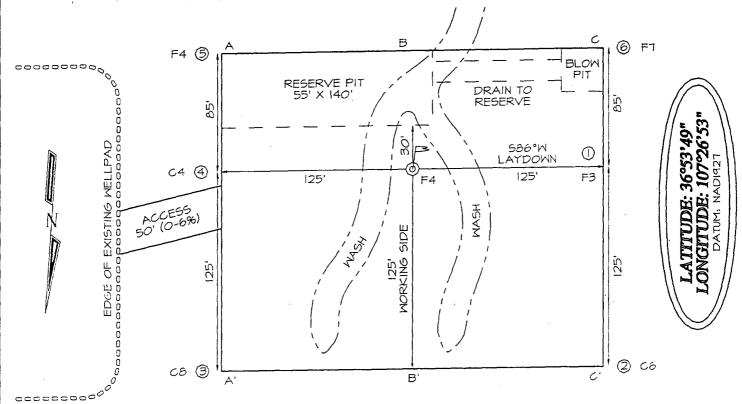
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



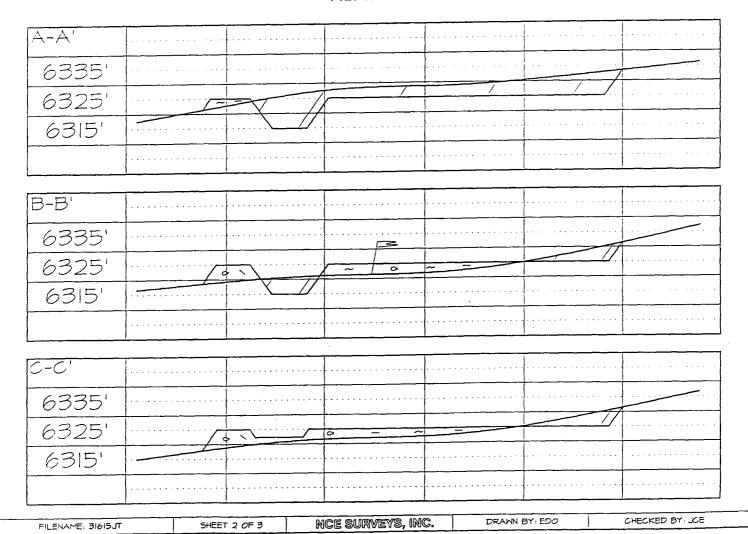
Submit 3 Copies To Appropriate District Office District 1 1625 N. French Dr., Hobbs, NM 88240	State of New Me Energy, Minerals and Natu	Form C-103 May 27, 2004 WELL API NO.		
District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505		5. Indicate Type of Lease Federal	
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Sama re, min 8	6. State Oil & Gas Lease No.		
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICAT		UG BACK TO A	7. Lease Name or Unit Agreement Name Rosa Unit	
PROPOSALS.) 1. Type of Well: Gas Well X			8. Well Number 222A	
2. Name of Operator Williams Produc	tion Company		9. OGRID Number 120782	
3. Address of Operator			10. Pool name or Wildcat	
P.O. Box 316, Ig 4. Well Location	gnacio, CO 81137		Basin Fruitland Coal	
Unit Letter J: 1645 feet fro	om the South line and 2180			
Section 23 Township		NMPM	County Rio Arriba	
Pit or Below-grade Tank Application X	1. Elevation (Show whether DR, 6321' GR	RKB, RT, GR, etc.		
Pit typeProductionDepth to Groundwater	->100'_Distance from nearest fresh	water well_>1000' I	Distance from nearest surface water_>1000'	
Pit Liner Thickness: mil Belo	w-Grade Tank: Volume 120 bbls	s; Construction Mate	rial Fiberglass	
12. Check App	propriate Box to Indicate N	ature of Notice,	Report or Other Data	
TEMPORARILY ABANDON 🗍 C	ENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	SUB REMEDIAL WOR COMMENCE DRI CASING/CEMEN	LLING OPNS. P AND A	
OTHER:	П	OTHER:	П	
13. Describe proposed or complete		pertinent details, an	d give pertinent dates, including estimated date tach wellbore diagram of proposed completion	
Below-grade tank to be constructed in a	ccordance with NMOCD Interin	n Pit and Below-Gr	ade Tank Guidelines	
			•	
			e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan	
SIGNATURE Correy / Try	TITLE TITLE	Drilling COM	DATE7-12-2004	
Type or print name Larry Higgins For State Use Only	E-mail address: larry.higgins@v	williams.com Te	lephone No. (970) 563-3308	
APPROVED BY:	TITLE		DATE	
Conditions of Approval (if any):	7			

Submit 3 Copies To Appropriate District Office District 1 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Energy, Minerals and Natural Resources	Form C-103 May 27, 2004 WELL API NO.	
District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1220 South St. Francis Dr.	5. Indicate Type of Lease Federal	
- 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505	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	7. Lease Name or Unit Agreement Name Rosa Unit	
PROPOSALS.) 1. Type of Well: Gas Well X.	8. Well Number 222A	
Name of Operator Williams 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 J: 1645 feet from the South line and 2180 feet from the Ea	ast line	
Section 23 Township 31N Range 6W NMPM	County Rio Arriba	
11. Elevation (Show whether DR, RKB, RT, GR, 6321' GR Pit or Below-grade Tank Application X	etc.)	
Pit typeDrillingDepth to Groundwater_>100'Distance from nearest fresh water well_>1000'	Distance from nearest surface water >1000'	
Pit Liner Thickness: 12 mil Below-Grade Tank: Volumebbls; Construction M		
12. Check Appropriate Box to Indicate Nature of Notice		
	•	
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL W	DRILLING OPNS.□ P AND A □	
	_	
OTHER: OTHER: OTHER: OTHER: OTHER:	and give portinent dates, including estimated date	
of starting any proposed work). SEE RULE 1103. For Multiple Completions: or recompletion.		
Reserve pit to be constructed in accordance with NMOCD Interim Pit and Below-Grade	e Tank Guidelines	
I hereby certify that the information above is true and complete to the best of my knowled grade tank has been/will be constructed or closed according to NMOCD guidelines XX, a general permit		
SIGNATURE Larry / trage TITLE Drilling COM_	DATE7-12-2004	
Type or print name Larry Higgins E-mail address: larry.higgins@williams.com For State Use Only		
APPROVED BY:	DATE	
Conditions of Approved (in diff).		

WILLIAMS PRODUCTION COMPANY ROSA UNIT #222A 1645' FSL & 2180' FEL, SECTION 15, T31N, R6W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6321'



Plat #2 - Cut & Fill





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

6/25/2004

WELLNAME:

Rosa Unit #222A

Rio Arriba, NM

FIELD:

Basin Fruitland Coal

LOCATION:

NWSE Sec. 15-T31N-6W

SURFACE:

BOR

ELEVATION:

6,321' GR

MINERALS:

Federal

TOTAL DEPTH:

3,155'

LEASE #

SF-078765

I. GEOLOGY:

Surface formation - San Jose

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

NAME	DEPTH	NAME	DEPTH
San Jose	Surface	Top Coal	3,030
Nancimiento	1,130	Bottom Coal	3,155
Ojo Alamo	2,365	Pictured Cliffs	3,155
Kirtland	2,480	TD	3,155
Fruitland	2,885		

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 3,010' DO NOT drill deeper until Engineering is contacted.
- B. <u>Drilling Fluid</u>: Coal section will be drilled with Fruitland Coal water.
- C. <u>MUD LOGGING PRORAM</u>: 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	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,010'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2,910'- 3,155'	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>155 sx</u> (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. <u>INTERMEDIATE</u>: Lead 365 sx (765 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 (70cu.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 = 835 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

