FORM APPROVED OMB No. 1004-0136

UNITED STATES			l l	Expires Janu	ary 31, 20	J04
DEPARTMENT OF THE IN			[5. Lease Serial No.		
BUREAU OF LAND MANAGEMENT				NMSF-078767		
				6. If Indian, Allottee or Tribe Name		
APPLICATION FOR PERMIT TO DR	RILL OR H	EENTER				
la. Type of Work: DRILL REENTER	e of Work: 🛛 DRILL 📗 REFNTER			7. If Unit or CA Agree	ment, Na	me and No.
· – – –			Ļ	Rosa Unit		
1b Type of Well Oil Well S Gas Well Other	⊠ si	ngle Zone 🔲 Multir	de Zone	8. Lease Name and We	ll No.	
18. Type of wear.		ngac zone	ne zone	206A		• -
Name of Operator Williams Exploration and Production Company, LLC	_	ART 10 20 21 77 7	•	9. API Well No. 97-	294	495
3a. Address	3b. Phone No	((include area code)	3	10. Field and Pool, or E	xplorator	ту
P.O. Box 316 Ignacio, CO 81137	(970)	563-3308	52 A	Basin Fruitland		
4. Location of Well (Report location clearly and in accordance with any	State requirem	ents. *) 11 2000	63	11. Sec., T., R., M., or	Blk. and	Survey or Area
At surface 1980' FNL & 810' FWL	les.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	~3			
		,		B		
The proposed pros. some	1: 27		. 951	Section 24, 31N	. <u>6W</u>	140.00
14. Distance in miles and direction from nearest town or post office*				12. County or Parish		13. State
approximately 30 miles northeast of Blanco, New Mexico	15	x''		Rio Arriba		NM
5. Distance from proposed*	16. No. of A	Acres in lease	17. Spacing	g Unit dedicated to this w	ell	
location to nearest property or lease line, ft.						
(Also to nearest drig. unit line, if any) 810	2,51	3.40	271.	.90 (N/2)		
8. Distance from proposed location*	19. Propose	d Depth	20. BLM/B	IA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.						
1000'	3,24		UTO			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will st	art*	23. Estimated duration	n	
6,302' GR	April	1. 2005		1 month		
	24. Atta	chments				
he following, completed in accordance with the requirements of Onsho	re Oil and Gas	Order No.1, shall be atta	ched to this	form:		
. Well plat certified by a registered surveyor.		4. Bond to cover th Item 20 above).	e operations	sunless covered by an e	xisting b	ond on file (se
2. A Drilling Plan.	T anda sha	5. Operator certification	ation.			
A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).				rmation and/or plans as	may be	required by the
ber o shall be mee with the appropriate result bery to childe.	·	authorized office	эт			
25. Signature	Name	(Printed/Typed)			Date	
to me of the same		Larry Higgins			3/	02/05
Title Title	•					
Drilling COM Approved by (Signature)	Nome	(Printed/Typed)		·····	Date	
All out to 16	140011	(1 runea 1 ypea)			2/	2/-0
Title Title	OFF			i		
AF 11	Offic	FI	/)			
Application approval does not warrant or certify that the applicant holds	legal or equito	ble title to those makes in	the enhiant	leace which would and a	the onel	icant to conduc
Application approval does not warrant or certify that the applicant holds operations thereon.	regar or eding	ore and to mose fights if	i me subject	rease which mound chills	e one abbr	ream to conduc
Conditions of approval, if any, are attached.						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i			d willfully to	make to any departmen	t or agen	cy of the Unite
States any false, fictitious or fraudulent statements or representations as (*(Instructions on reverse)	w any maner v	man its juristiction.				
,			,			
Williams Exploration and Production Company, LLC, proposes to	drill a well to	develop the Basin Fr	uitland Coa	I formation at the above	e descril	bed location in
accordance with the attached drilling and surface use plans.						
The surface is under jurisdiction of New Mexico State Game Con	nission. A Gra	ant of Easement is atta	ached to thi	s APD.		
This location has been probe adjusted by a received by Index and an	A 0AA A-		- 4 - 1	and the second for the second of the second		

This APD is also serving as an application to obtain road and pipeline rights-of-way. An approximately 1100-foot road and a 1418.80-foot pipeline tie would be required for this location.

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

MMOCD

This action is subject to technical and procedural review pursuant to 43 C/R \$165.3 and appeal pursuant to 43 CFR \$165.4

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

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

District III 1000 R10 Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Depart.

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back ait to Appropriate District Office

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

AMENDED REPORT

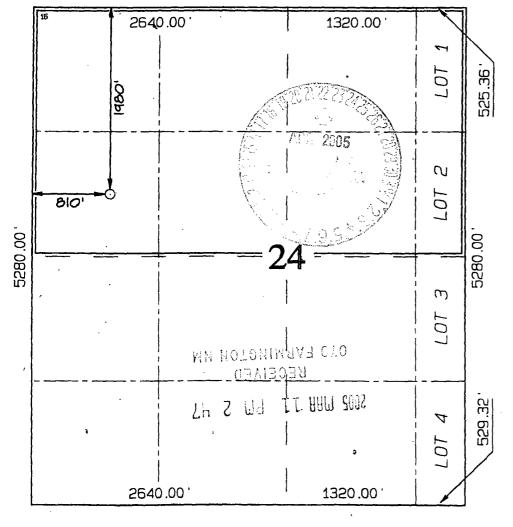
WELL LOCATION AND ACREAGE DEDICATION PLAT

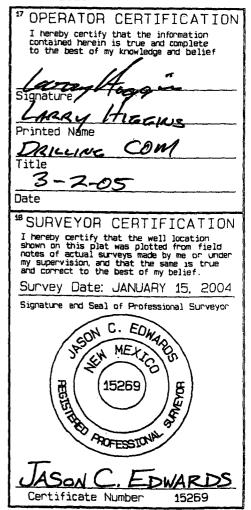
30-039-1	19495 Pool Code 71629	Pool Name BASIN FRUITLAND CC	DAL
'Property Code 17033		roperty Name OSA UNIT	*Well Number 206A
'OGRID №. 120782		perator Name RODUCTION COMPANY	*Elevation 6302

10 Surface Incation

						LUCUCION			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	24	31N	6W		1980	NORTH	810	WEST	RIO ARRIBA
		· 11 E	3ottom	Hole L	ocation I	f Different	From Surf	ace	l.
UL or lot no.	Section	Township	Range	Lot Idn	Feet-from the	North/South line	Feet from the	East/West line	County
	,								
12 Dedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	²⁵ Order No.		
	271	.90 Acre	es - (1	1/2)					

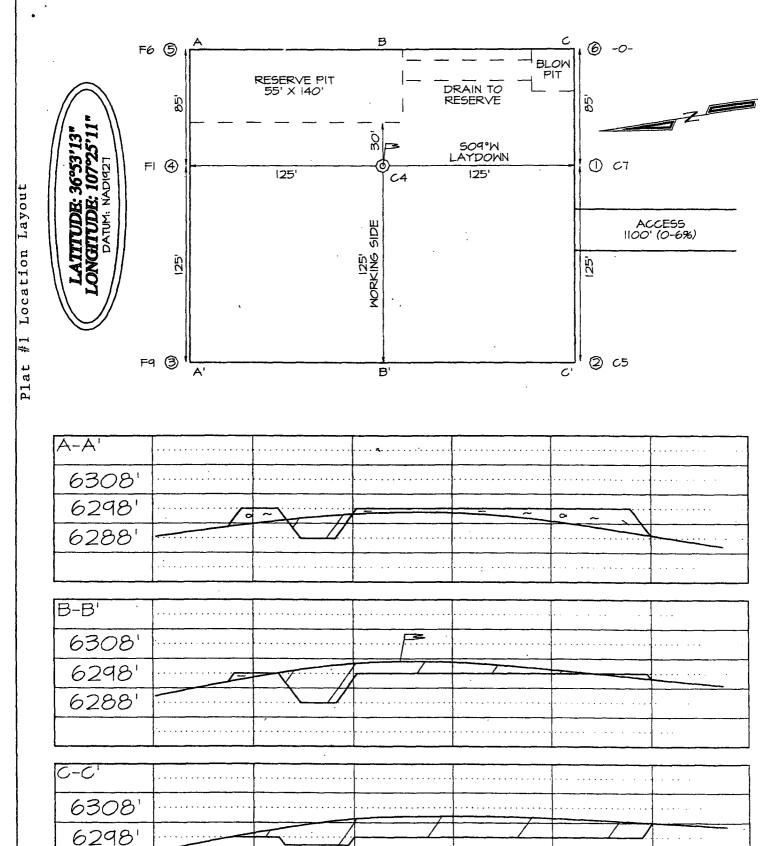
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Resou	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO.
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION DIVISIONI DIVISION DIVISIONI	5. Indicate Type of Lease FEDERAL X
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		Federal NMSF-0078767
l ·	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
The state of the s	SALS TO DRILL OR TO DEEPEN OR PLUG BACK T "ATION FOR PERMIT" (FORM C-101) FOR SUCH	O A Rosa Unit
PROPOSALS.)	<u> </u>	8. Well Number 206A
Type of Well: Oil Well Name of Operator	Gas Well 🛛 Other	9. OGRID Number 120782
Williams Exploration and Production	on Company	9. OGRID Nulliber 120782
3. Address of Operator		10. Pool name or Wildcat
P.O. Box 316, Ignacio, CO 81137		Basin Fruitland Coal
4. Well Location		
Unit Letter W: 1980 feet	from the south line and 810 feet from the wes	t line
Section 24 Townsh		NMPM County Rio Arriba
	11. Elevation (Show whether DR, RKB, RT, 6,302' GR	GR, etc.)
Pit or Below-grade Tank Application ⊠ o		1. 第二次 11万 元 2 元 元 2 元 2 元 2 元 2 元 2 元 2 元 2 元 2
	er_>100'_Distance from nearest fresh water well_>1	,000'_ Distance from nearest surface water >1,000'
1 '		struction Material
12 Check A	Appropriate Box to Indicate Nature of	Notice Report or Other Data
12. Check I	appropriate box to indicate Nature of	Notice, Report of Other Data
NOTICE OF IN		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		IAL WORK ALTERING CASING
TEMPORARILY ABANDON DULL OR ALTER CASING D	•	:NCE DRILLING OPNS.☐ P AND A ☐ #/CEMENT JOB ☐
TOLE ON ALTEN DAOMA	MOETH LE COMP L GASING	
OTHER: / ansultras-	□ OTHER	······································
		etails, and give pertinent dates, including estimated date
or starting any proposed we or recompletion.	ork). SEE RULE 1103. For Multiple Comple	tions: Attach wellbore diagram of proposed completion
or recompletion.		
Reserve pit to be constructed in acco	ordance with NMOCD Interim Pit and Below-	orade Tank Guidelines
	The state of the s	Brand Tame Catalines
Rserve pit to be located approximate	ely 30 feet east of the well head, in the norther	ast corner of the well 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 genera	l permit ☐ or an (attached) alternative OCD-approved plan ☐.
SIGNATURE_	TITLE Drilling Co	OMDATE3-11-2005_
DIGITAL ORD_	TITLE_Diming C	OMDATE_3-11-2003_
Type or print name Larry Higgins	E-mail address: larry.higgins@williams	s.com Telephone No. (970) 563-3308
For State Use Only	//	& GAS INSPECTOR, DIST. 50 APR 22 2005
APPROVED BY:	TITLE CEPUTY O'L	& GAS INSPECTOR, DIST, ST ACC ZUUS
Conditions of Approval (if any):	//~ !/	DVIE
	// *	

WILLIAM CODUCTION COMPANY ROSA VIT #206A 1980' FNL 810' FWL, SECTION 24, T31N, 'W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEV... ITON: 6302'



FILENAME, 31624ET SHEET 2 OF 3 NCE SURVEYS, INC. DRAWN BY, EDO CHECKED BY: LCE

6288'



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

3/10/2005

WELLNAME:

Rosa Unit #206A

FIELD:

Basin Fruitland Coal

LOCATION:

SWNW Sec. 24-T31N-6W

Game & Fish

Rio Arriba, NM

SURFACE:

ELEVATION:

6,302' GR

MINERALS:

FED

TOTAL DEPTH:

3,244'

LEASE #

SF-078767

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	DEPTH	NAME	DEPTH		
San Jose	Surface	Top Coal	2,989		
Nacimiento	1,084	Bottom Coal	3,144		
Ojo Alamo	2,359	Pictured Cliffs	3,144		
Kirtland	2,499	TD	3,244		
Fruitland	2,894				

B. **LOGGING PROGRAM:** None

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

II. DRILLING

- A. MUD PROGRAM: Clear water with benex to 7" casing point. Treat for lost circulation as necessary. Expect 100% returns prior to cementing. Notify Engineering of any mud losses. If coal is detected before 2,969' DO NOT drill deeper until Engineering is contacted.
- B. **Drilling Fluid**: Coal section will be drilled with Fruitland Coal water.
- C. MUD LOGGING PRORAM: Mud logger will be on location at drill out below 7" casing to TD.

D. <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>	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 2,969'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2,869'- 3,144'	5-1/2"	15.5# K-55

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 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 / CASING: 4-1/2" & 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

C. CEMENTING:

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

- 1. SURFACE: Use 190 sx (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 150% excess to circulate the surface. WOC 12 hours. Total volume = 206 cu.ft. Test to 1500#.
- INTERMEDIATE: Lead 400 sx (828 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 120% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 927 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.

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, slitstones 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	Possible .	Yes	Possible	No	Possible
Lewis	Shale w/thin interbedded sandstones and slitstones	No	Possible	No	No	No
Cliff House	Transgressive sandstones	Possible	Yes	No	No	No
	Sandstones, carb shales and coal	Possible	Yes	No	No	No
Point Lookout	Regressive coastal barrier sandstone	Possible	Yes	Possible	No	Yes
	Marine shale and interbedded sandstone	No	Possible	Possible	No	Possible
	Marine sand and shales	No	Yes	Possible	No	Possible
	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:

- 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.
- 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.

Trimums Froduction Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

