Foam 3160-3 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0136

5. Lease Serial No.

SF-078773

PPLICATION FOR PERMIT TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name
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	APPLICAT	ION FOR P	ERMIT TO DR	ILL UK K	SENIER Saar n	ርስ ቀነነ	0.00			
la. Type of Work:	⊠ DRILL		☐ REENTER	ξ ,	++00 E	<u> 10 1 j</u>	11:1	7/JEUnit or CA Agre Rosa Unit	eement, Nan	ie and No.
lb. Type of Well:	Oil Well	☑ Gas Well	Other	⊠ s	ingle Żoñie)	RECE		8. Lease Name and W	ell No.	
2. Name of Operat	or						· 1	9. API Well No.	3 20	1110
	oduction Com	pany, LLC						00-05	1- DC	<u> 1143 </u>
3a. Address				3b. Phone No	o. (include a	rea code)		10. Field and Pool, or	Exploratory	
	O Aztec, NM 8				634-4208			Blanco Mesave		
4. Location of Well				State requirem	ents. *)			11. Sec., T., R., M., or	r Blk. and Si	irvey or Area
At surface		2525' FEL, Se	<i>t</i> .					Section 34, T31N, R5	W, NMPM	
At proposed pro	d. zone 845' F	NL & 2525' FV	K, Section34					$\mathcal{B}_{}$		•
14. Distance in miles	s and direction f	rom nearest tow	n or post office*					12. County or Parish		13. State
		theast of Blanc	o, New Mexico					Rio Arriba		NM
15. Distance from pr location to neare: property or lease (Also to nearest	st line, ft.	fany)			Acres in leas	e	32	g Unit dedicated to this	well	
18. Distance from pro		04	.5′	1910 19. Propose				84 (E/2) BIA Bond No. on file		
to nearest well, di applied for, on the	rilling, complete	ed,			•					
21. Elevations (Show	w whether DF	KDB RT GL	etc.)	6,570		work will sta	UIO	23. Estimated duration	n .	
6776 GR		122, 111, 02,	c.c.,	1	1. 2007	WOIR WIII SW		1 month	•••	
				24. Atta			***	1 111011(11		
The following, comple	eted in accorda	nce with the real	irements of Onshor			chall he attac	ched to this	form:		
 Well plat certified A Drilling Plan. A Surface Use Plan. 	by a registered	surveyor. ion is on Nation			4. Bond Item 5. Opera 6. Such	to cover the 20 above). tor certificat	operations tion.	unless covered by an or		•
25. Signature	1/	«		Name	(Printed/Typ	•		*****	Date	
Title	4/19				Larry Higgi	ins			/ -/	12-06
Drilling COM										, ,
Approved by Signature	X///	Oulco :	1,500	Name	(Printed/Typ	ped)			Date	15/57
Title	7	4	u	Offic	° Z	三				
Application approval operations thereon. Conditions of approva			the applicant holds l	egal or equita	ble title to th	ose rights in	the subject !	ease which would entitle	e the applica	nt to conduct
Title 18 U.S.C. Section States any false, fictit	on 1001 and Tit ious or fraudule	tle 43 U.S.C. Secont statements or	ction 1212, make it representations as to	a crime for an any matter w	ny person kn ithin its juris	owingly and	willfully to	make to any departmen	nt or agency	of the United
*(Instructions on rever	se)									
Williams Exploration	n and Producti	ion Company, I	LLC, proposes to	drill a well to	develop th	e Blanco Me	esaverde fo	ormation at the above	described	location in

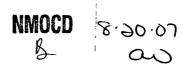
accordance with the attached drilling and surface use plans.

The surface is under jurisdiction of the U.S. Forest Service, Jicarilla Ranger District, Carson National Forest.

This location has been archaeologically surveyed La Plata Archaeological Consultants. Copies of their report have been submitted directly to the USFS, Jicarilla Ranger District.

This APD is also serving as an application to obtain a road and gas pipeline. Required for this location is a 300.00-foot access road, and a gas pipeline of 414.10 feet to be placed adjacent to the access road.

NOTIFY AZTEC OCD 24 HRScvd aug 15'07 PRIOR TO CASING & CEMENTL CONS. DIV.



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 B7410

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 Whit to Appropriate District Office

OIL CONSERVATION DIVISION
PO Box 020BBC 14 87 9 26
Santa Fe, NM 87504-2088

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

RECEIVED
070 FARMINGTON NM

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

			WELL	LUCATI	LUIN AND A	CHEAGE DEDI	CATION PL	.A I		
API Number Pool Co										
30.039.30143 7231										
^Property Code					°Property Name					11 Number
1703					ROSA UNIT				184C	
'OGRID 1	v o.				*Operator	Name			'Elevation	
12078	2	!		WILL	IAMS PRODU	CTION COMPAN	JY			6776 '
						Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County RIO
· B	34	31N	5W		845	NORTH 2525 EA			ST	ARRIBA
		¹¹ B	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Feet from the East/We		County
			,							
¹² Dedicated Acres			/	(0)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
	320	0.0 Acre	s - (E	/2)						
NO ALLOW	IABLE W	ILL BE A	SSIGNEI NON-ST	D TO THI ANDARD	IS COMPLETION UNIT HAS BE	ON UNTIL ALL EN APPROVED	INTERESTS H BY THE DIVI	AVE BE SION	EN CON	SOLIDATED
16	2638	B.68 '		14	263	B.68 '	" OPER	ATOR	CERTI	FICATION
[1.24]						1	I hereby	certify	that the in	oformation
							to the b	est of my	knowledge	and belief
		į				05051			//	
				0		2525'	Can	ry f	Trec.	
					: 36.86104 °N : 107.34926 °W		Signatur	e/	57	
					TUM: NAD83	1	Loss	RY	17/4	
		<u>-</u> -				 	Printed		_	
1				1				ILLIN	بح ر	=
		1		ll l			Title			

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 8 5280.00 5280. Date of Survey: APRIL 20, 2006 Signature and Seal of Professional Surveyor LEASE SF-078773 SEON C. EDWARDS SEN MEXIC ARCHESCIONAL PROFESSIONAL SAMETOR 5280.00 Certificate Number 15269

	Office Office	State of Ne	w Mexico		Form C-103
	District I	Energy, Minerals and	l Natural Resources		May 27, 2004
	1625 N. French Dr., Hobbs, NM 88240		,	WELL API NO.	. ^
-	District II	OIL CONSERVAT	TION DIVISION	30.039.3	
	1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St		5. Indicate Type of Lea	
	1000 Rio Brazos Rd., Aztec, NM 87410			STATE	FEE
	District IV	Santa Fe, N	IM 87505	6. State Oil & Gas Lea	se No.
	1220 S. St. Francis Dr., Santa Fe, NM		8414	SF-078770	
г	87505 SUNDAY NOT	TICES AND REPORTS ON W	FITS DEC 14 AT	75 Lease Name or Unit	Agraement Nama
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ı	DIFFERENT RESERVOIR. USE "APPL	ICATION FOR PERMIT" (FORM C-	-101) FOR SUCHRECFIVE	Dogg Unit	
1	PROPOSALS.)		070 FARMINGT	/91 Wall Number	184C
L	1. Type of Well: Oil Well	Gas Well 🛛 Other	910 1 ATON 1:50		
Ì	2. Name of Operator			9. OGRID Number	120782
L	Williams Production Company, L	LC	· · · · · · · · · · · · · · · · · · ·		·
ŀ	3. Address of Operator			Blanco Mesaverde	
l	P.O. Box 640 Aztec, NM 87410				
r	4. Well Location:				
İ		Init Letter B: 845 feet from the	e north line and 2525 feet	from the east line	
١		nip 31N Range 5W		County Rio Ar	riha
	Section 54 Townsi	np 31N Range 3W	141411 141	County 100 711	1104
1		11 F1 CL L.	DD DED DE CD		
357		11. Elevation (Show wheth			
1	Pit or Below-grade Tank Application 🛛	6,776' C	JK .		
Т					>200
ľ	Pit typereserveDepth to Groundwa	ter>100'_Distance from nearest f	fresh water well_>1,000'_ Dista	nce from nearest surface wat	er_ <u></u> \$1,000'
Į	Pit Liner Thickness: 12 mil Belov	v-Grade Tank: Volume	bbls; Construction M	laterial	
	12 Check	Appropriate Box to Indic	ate Nature of Notice	Report or Other Data	•
	12. Check	Appropriate Box to male	ate mature of motice,	Report of Other Data	•
		TENTION TO	l CHD	CECHENT DEDOE	T OF:
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	NOTICE OF II		_ 1	SEQUENT REPOR	
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WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

9/8/2006

FIELD:

Blanco MV

WELL NAME:

Rosa #184C

Rio Arriba, NM

SURFACE:

Forest

BH LOCATION:

NWNE Sec 34-31N-5W

MINERALS:

FED

ELEVATION:

6,776' GR

LEASE #

SF-078773

MEASURED DEPTH:

6,570°

0,27

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Ojo Alamo	2,905	Cliff House	5,810
Kirtland	3,005	Menefee	5,855
Fruitland	3,360	Point Lookout	6,095
Picture Cliffs	3,635	Mancos	6,385
Lewis	3,945	TD	6,570

B. MUD LOGGING PROGRAM: None

C. LOGGING PROGRAM: Cased Hole only.

D. <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. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer from 7 in. csg.to TD.
- B. <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 BOPE will be tested to 250 psi (Low) for 5 minutes and 1500 psi (High) for 10 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. All tests and inspections will be recorded in the tour book as to time and results.

B. PRESSURE TEST

1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

- 1. Perforate the Point Lookout as determined from the open hole logs.
- 2. Stimulate with approximately 9,300# of 14/30 LitePropTM sand in slick water.
- 3. Isolate Point Lookout with a CIBP.
- 4. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 5. Stimulate with approximately 9,300# of 14/30 LitePropTM sand in slick water.
- 6. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. <u>Mesa Verde:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.

Gary Sizemore
Sr. Drilling Engineer

Rosa #184C Ops Plan.doc

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	OILCOND	OVER-PRES	LOST CIRC
Nacimiento	Interbedded shales, siltstones and	Possible	Possible	No	No	No
	sandstones	1	1	!		
Ojo Alamo	Sandstone and conglomerates	Fresh	No	No	No	No
	with lenses of shale	1	j			
Kirtland	Shale W/interbedded sandstones	No	Possible	No	No	No
Fruitland	Inter, SS, SiltSt, SH &Coals w/carb,	Yes	Yes	No	Possible	Possible
	SS, SlitSt, SH	1				
Pictured	Massive Sandstone w/thin	Possible	Yes	Possible	No	Possible
Cliffs	interbedded shales					
Lewis	Shale w/thin interbedded sandstones	No	Possible	No	No	No
	and siltstones					
Cliff House	Transgressive sandstones	Possible	Yes	No	No	No
Menefee	Sandstones, carb shales and coal	Possible	Yes	No	No	No
Point	Regressive coastal barrier	Possible	Yes	Possible	No	Yes
ookout	sandstone					
/lancos (Marine shale and interbedded sandstone	No	Possible	Possible	No	Possible-
Ipr Dadota II	Marine sand and shales	. No	Yes	Possible	No	Possible
wr Dakota F	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.

Plat#1

WILLIAMS PRODUCTION COMPANY ROSA UNIT #184C 845' FNL & 2525' FEL, SECTION 34, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6776'

