P.im 3160-3 √(September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

5. Lease Serial No.

SF-078770

6. If Indian, Allottee or Tribe Name

ia. Type of Work: DRILL REENTER	LUUD LIEU 14	HM	9 7. [f Onit or CA Agreement, N	ame and No.
ia. Type of Work.	1		Rosa Unit	
1b Type of Well Oil Well Gas Well Other	Single Zone, D Multir	ELVED	8. Lease Name and Well No.	
10. Type of 1. on.	Single Zone, O in Minist	III VIII	. 258A	*
2. Name of Operator		,	9. API Well No. 39-3	30/42
Williams Production Company, U.C. 3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explorate	orv
P.O. Box 640 Aztec, NM, 87410	P.O. Box 640 Aztec, NM 87410 (505) 634-4208		Basin Fruitland Coal	,
4. Location of Well (Report location clearly and in accordance with any			11. Sec., T., R., M., or Blk. and	Survey or Area
At surface 2320' FNL & 180' FEL, Section 21, T.31N.,			BHL Section 22, T31N, R5W	E'
At proposed prod. zone 1650' FNL & 990' FWL, Section22, T.3	1N., R.5W.	H	Surface Section 21 T31N, R5	w
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
approximately 35 miles northeast of Blanco, New Mexico			Rio Arriba	NM
15. Distance from proposed*	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this well	-1INIVI
location to nearest property or lease line, ft.			y	
(Also to nearest drig. unit line, if any)	2,560.00	320	.0 (W/2) Section 22	
18. Distance from proposed location*	19. Proposed Depth		BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.				
600'	3,859'	UT0		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	art*	23. Estimated duration	
-6644 GR 6539	June 1, 2007		1 month	
	24. Attachments		RCVD MAR	(12.00
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be atta	ched to this	form:	: NILL
1. Well plat certified by a registered surveyor.	4. Bond to cover the	e operations	s unless covered by an existing	
2. A Drilling Plan.	Item 20 above).	•	na.	•
3. A Surface Use Plan (if the location is on National Forest System)	Lands, the 5. Operator certification of Such other site s		rmation and/or plans as may be	_
SUPO shall be filed with the appropriate Forest Service Office).	authorized office	•	mation and/or plans as may or	required by the
25. Signature	Name (Printed/Typed)		Date	
larray Argan	Larry Higgins		12	12-06
Title				
Drilling_COM //				
Approved by (Signature)	Name (Printed/Typed)		Date_	11/08
- Comment	<u> </u>			71700
Title AFM	Office			
Application approval does not warrant or certify that the applicant holds	egal or equitable title to those rights in	the subject	lease which would entitle the app	licant to conduct
operations thereon.	agai or equinate time to those rights in			
Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to		dwillfully to	o make to any department or ager	ncy of the United
*(Instructions on reverse)				
Williams Exploration and Production Company, LLC, proposes to accordance with the attached drilling and surface use plans.	drill a well to develop the Basin Fru	uitland Coa	I formation at the above descri	bed location in
The surface is under jurisdiction of the U.S. Forest Service, Jicaril	la Ranger District, Carson Nationa	l Forest.		
This location has been archaeologically surveyed La Plata Archae Jicarilla Ranger District.	eological Consultants. Copies of the	eir report ha	ave been submitted directly to	the USFS,
This APD is also serving as an application to obtain an access roapipeline of 593.60 feet, to be placed adjacent to the access road.	ad and gas pipeline. Required for the	nis location	is a 450.00-foot access road,	and a gas

Sirectional survey as Eurle & Glo2

NMOCD NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

AMENDED REPORT

Form C-102

RECEIVED

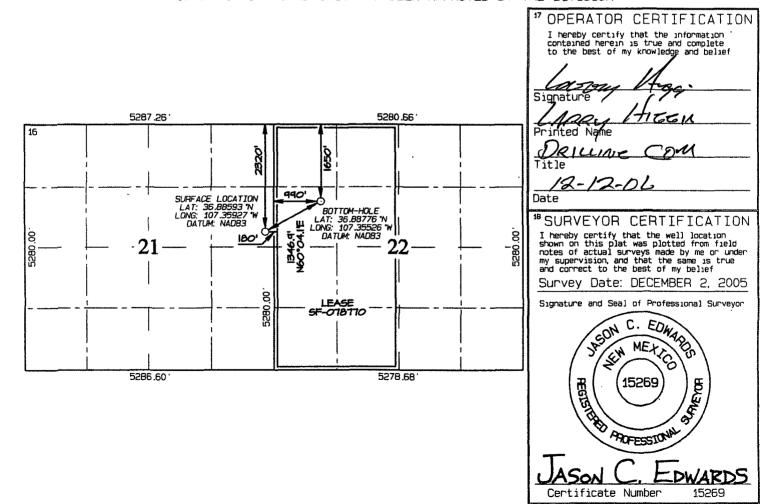
9 24

WELL LOCATION AND ACREAGEA DEDICATION PLAT

'API Number		*Pool Code	Pool Name	
30.039.3	SPICE	71629	BASIN FRUITLAND	COAL
*Property Code		Pr	operty Name	*Well Number
17033	,	RC	OSA UNIT	258A
'OGRID No.	***************************************	* Op	erator Name	"Elevation
120782		WILLIAMS PF	RODUCTION COMPANY	6539 ·
		10 Cup f	aco Location	

					- Suilace	Lucation			
U. or lot no.	Section 21	Townshap 31N	Range 5W	Lot Idn	Feet from the 2320	North/South line NORTH	Feet from the	East/West line EAST	RIO ARRIBA
		11 E	Bottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no.	Sect ion	Townshap	Range	Lot Idn	Feet from the	North/South lane	Feet from the	East/West line	County
E	22	31N	5W		1650	NORTH	990	WEST	RIO ARRIBA
12 Dedicated Acres		0.0 Acr	es – W	/2	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 UNIT HAS BEEN APPROVED BY THE DIVISION



Office Office	State of New Mex		Form C	
District I	Energy, Minerals and Natura	al Resources	May 27,	2004
1625 N. French Dr., Hobbs, NM 88240		\ W	ELL API NO.	ŀ
District II	OIL CONSERVATION	DIVISION 📙	30.039.30142	٠
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. France	1.5	Indicate Type of Lease FEDERAL	X
1000 Rio Brazos Rd., Aztec, NM 87410			STATE FEE	
District IV	Santa Fe, NM 875		State Oil & Gas Lease No.	1
1220 S. St. Francis Dr., Santa Fe, NM	200 6 DE	014 AM 9 &	₿-078770	
87505	CES AND REPORTS ON WELLS		Loggo Nama or I Init Agramant Na	
(DO NOT USE THIS FORM FOR BRODO	SALS TO DRILL OR TO DEEPEN OR PLUC	GBEGEWED '	Lease Name or Unit Agreement Na	me
DIFFERENT RESERVOIR LISE "APPLIA	CATION FOR PERMIT" (FORM C-101) FOR	SISTICHUMOTOM HA	1	1
PROPOSALS.)	CATION TOKTERWIT (TORM C-101/10)			
	Gas Well Other	8.	Well Number 258A	
2. Name of Operator		9	OGRID Number 120782	
Williams Production Company, LI	.C			
3. Address of Operator		В	asin Fruitland Coal	
P.O. Box 640 Aztec, NM 87410] _		
4. Well Location:				
	feet from the north line and 180 feet	from the east line		
Section 21 Townshi	p 31N Range 5W	NMPM	County Rio Arriba	į
Bottom Hole: Unit Letter E:	1650 feet from the north line and 990	feet from the west lir	ne	
Section 22 Townshi	p 31N Range 5W	NMPM	County Rio Arriba	
	11. Elevation (Show whether DR,			20 AC 41
	6,539' GR	MMD, M1, ON, etc.)	and the second	
Pit or Below-grade Tank Application 🛛 o				**************************************
i				
Pit typereserve_Depth to Groundwat	er>100'_Distance from nearest fresh wat	er well_>1,000'_ Distance	from nearest surface water_>1,000'	
Pit Liner Thickness: 12 mil Below	-Grade Tank: Volumeh	obls; Construction Mate	rial	
10 Charle	Annoquiata Dan ta Indianta Na	Anna aCNIation Da	n ant an Othan Data	
12. Check A	Appropriate Box to Indicate Na	iture of Notice, Re	port or Other Data	
	TENTION TO:	CURCE	OUENT PEROPT OF	
NOTICE OF IN	I		QUENT REPORT OF:	. —
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WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

10/25/2006

WELLNAME:

Rosa Unit #258A

FIELD:

Basin Fruitland Coal

BH LOCATION:

SWNW Sec. 22-T31N-5W

SURFACE:

USFS

SURF LOCATION:

SENE Sec 21-31N-5W

MINERALS:

BLM

Rio Arriba, NM

LEASE #

SF-078770

ELEVATION:

6,539' GR

TOTAL DEPTH:

3,859

I. GEOLOGY:

Surface formation - San Jose

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

NAME	TVD	MD	NAME	TVD	MD
San Jose	Surface	Surface	Top Coal	3,273	3,649
Nacimiento	1,478	1,595	Bottom Coal	3,383	3,759
Ojo Alamo	2,683	3,048	Pictured Cliffs	3,383	3,759
Kirtland	2,793	3,163	TD	3,483	3,859
Fruitland	3,168	3,544			

- 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.
- **D.** MUD LOGGING PRORAM: Mud logger will be on location at drill out below 7" casing to TD. Mud Logger to pick TD

II. <u>DRILLING</u>

- 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 3,629', <u>DO NOT</u> drill deeper until Engineering is contacted.
- B. DRILLING FLUID: Coal section will be drilled with Fruitland Coal water.

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 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.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12 1/4	300	9 5/8	36	K-55
Intermediate	8 3/4	3,629	7	20	K-55
Liner	6 1/4	3,529 3,759	5 1/2	15.5	J-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: 5-1/2" whirler type cement nose guide shoe

C. <u>CEMENTING:</u>

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

- 1. <u>SURFACE</u>: Use <u>160 sx</u> (224 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 455 sx (950 cu.ft.) of "Premium Light" 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 (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 = 1,020 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. <u>COMPLETION</u>

A. PRESSURE TEST

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

B. STIMULATION

1. <u>Cavitate well</u> with reciprocation and rotation. Surge wells with water and air and then flow back. Cavitate for 2 to 3 weeks. Maximum pressure not expected to exceed 2,000 psi.

C. RUNNING TUBING

1. <u>Fruitland Coal:</u> Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing approximately 50' above TD.

Gary Sizemore
Sr. Drilling Engineer

Rosa #258A Dir Op.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	OIL/COND	OVER-PRES	LOST CIRC
Nacimiento	interbedded shales, siltstones and sandstones	Possible	Possible	No	No	No
Ojo Alamo	Sandstone and conglomerates	Fresh	No	No	No	No
Kirtland	with lenses of shale Shale Winterbedded sandstones	No	Possible	No	No	No
Fruitland	Inter, SS, SiltSt, SH &Coals w/carb, SS, SiltSt, SH	Yes	Yes	No	Possible	Possible
	Massive Sandstone w/thin interbedded shales	Possible	Yes	Possible	No	Possible
j	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
	Regressive coastal barrier	Possible	Yes	Possible	No	Yes
.ookout :	sandstone					
Mancos	Marine shale and interbedded sandstone	No	Possible	Possible	No	Possible
Ipr Dadota	Marine sand and shales	No	Yes	Possible	No	Possible
wr Dakota I	Fluvial sands, shales, & coal	Possible	Yes	Possible	No	Possible

DRILLING

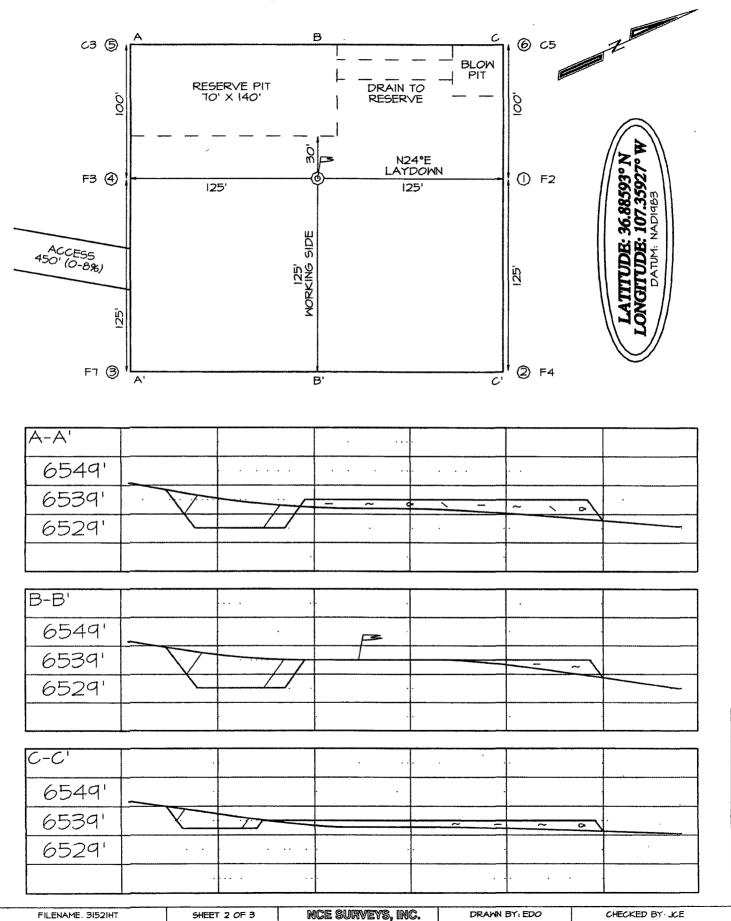
Potential Hazards:

- 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.

WILLIAMS PRODUCTION COMPANY ROSA UNIT #258A 2320' FNL & 180' FEL, SECTION 21, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6539'





Rosa Unit 258A Section 21 T 31N R 5W 2320' FNL & 180' FEL Rio Arriba County, NM Plan 1

True Vertical Depth [500ft/in]

3000

3250

250

500

Vertical Section at 60.07° [500ft/in]

750

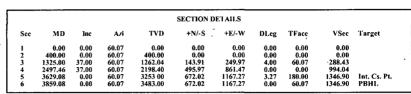
1000

1250

1500

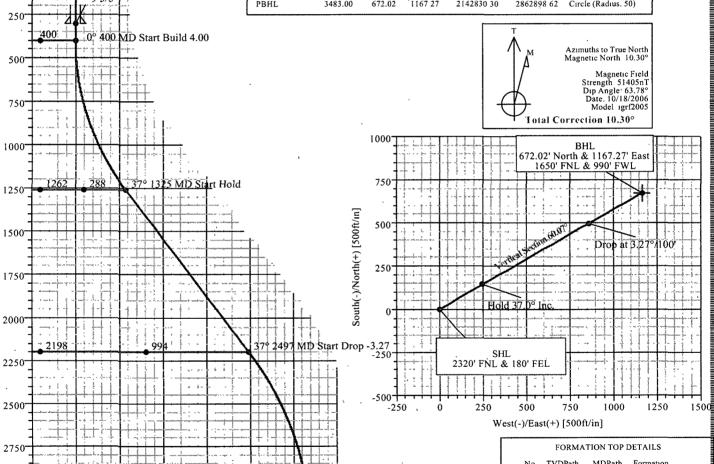
KB ELEVATION: 6553' GR ELEVATION: 6539'

Weatherford[®]



			WELL I	DETAILS			
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rosa Unit 258 A	0 00	0 00	2142152 48	2861734 70	36°53'09 348N	107°21'33 372W	N/A

	TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	· Easting	Shape
Int Cs. Pt PBHL	3253 00 3483.00	672.02 672.02	.1167 27 1167 27	2142830 30 2142830 30	2862898.62 2862898 62	Point Circle (Radius, 50)



29 MD Start Hold

No	TVDPath	MDPath	Formation
1	1478 00	1595.42	Nacimiento
2	2683 00	3048.52	Ojo Alamo
2	2793.00	3163.63	Kirtland
4	3168 00	3544.05	Fruitland
5	3273.00	3649 08	Top Coal
6	3383.00	3759.08	Base Coal
7	3383 00	3759.08	Pictured Cliffs

Plan Plan #1 (Rosa Unit 258 A)

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remains reduction company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

