Form 3160-3 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No

NMSF-078774

	APPLICATI		RMIT TO DR		EENTERO7 MAR	15 PM	6 If Indian, Allottee or Trib	e Name
la. Type of Work	⊠ DRILL		☐ REENTER	CEIVED BLM	7 If Unit or CA Agreement, I Rosa Unit	Name and No		
1b. Type of Well	Oil Well	☐ Gas Well	Other	⊠ Su	igle Zone 217 FAR	ole Zone T	8 Lease Name and Well No 372A	
2. Name of Operat	tor						9. API Well No.	
	oduction Comp	any, LLC					<u> 30-039-30</u>	
3a. Address			ļ	3b Phone No	(ınclude area code)		10 Field and Pool, or Explorat	tory
	0 Aztec, NM 8				34-4208		Basin Fruitland Coal	
4 Location of Well At surface At proposed pro	955 Fel. &	•	ion 31, T. 31N., I	-	nts. *)		11. Sec, T., R, M., or Blk. an Section 31, T. 31N., R. 4W.	•
14 Distance in mile	s and direction fi	om nearest town	or post office*				12 County or Parish	13 State
		heast of Blanco	, New Mexico				Rio Arriba	NM
15 Distance from proceed to the location to neared property or lease (Also to nearest	st	any) noo	,	16 No. of A			y Unit dedicated to this well	
	(Also to hearest drig drift line, if any) 890. 18. Distance from proposed location*			508.840 19 Proposed Depth 2		294.84 (W/2) Section 31 20. BLM/BIA Bond No. on file		
to nearest well, d applied for, on th	rilling, complete	d, 2000'		3.522		UTO		
21. Elevations (Sho	w whether DF,		c.)		mate date work will st		23 Estimated duration	
6583' GR				June 1	, 2007		1 month	
				24. Attac	hments			
The following, comp	leted in accordan	ce with the requi	rements of Onshore	e Oil and Gas	Order No 1, shall be atta	ached to this	form	1.00
Well plat certified A Drilling Plan. A Surface Use Plane SUPO shall be fi	an (if the locati	on is on Nationa	•	ands, the	Item 20 above). 5 Operator certification	ition. pecific info	unless covered by an existing	,
25. Signature	11	•		Name	Printed/Typed)		Date	_
Title	Hugg			<u>: l</u>	arry Higgins		3	14-07
Drilling CQM	Ma.							/ /
Approved by (Signation	Mani	lea es	_ (/ ع	Name	(Printed/Typed)		Date	11/07
Title		ten		Office	10			
Application approval operations thereon Conditions of approv			e applicant holds l	egal or equitab	le title to those rights in	the subject	ease which would entitle the app	olicant to conduct
Title 18 U S C. Secti States any false, fiction						d willfully to	make to any department or age	ncy of the United
*(Instructions on rever	rse)							

Williams Exploration and Production Company, LLC, proposes to drill a well to develop the Basin Fruitland Coal formation 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 an access road and gas pipeline. Required for this location is a 1,450.00-foot access road, and a gas pipeline of 1560.50 feet, to be placed adjacent to the access road.

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT



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

أمه واستمهدس بهاو

PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Ro, Aztec. NM 87410

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

State of New Mexico Energy, Minerals & Natural Resources Department

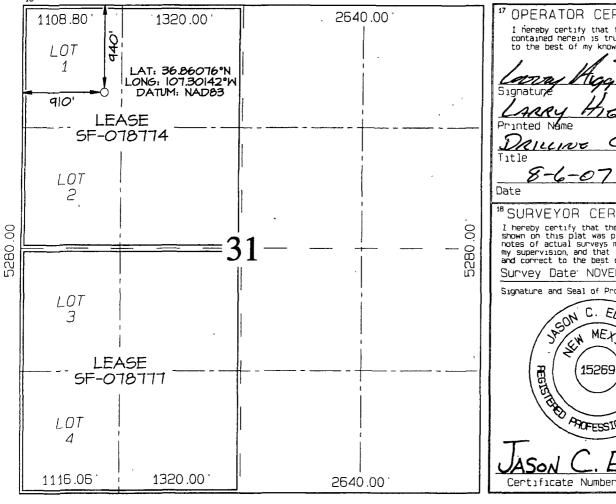
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 'Pool Code 'Pool Name												
i .	_				• • • • • • • • • • • • • • • • • • • •							
3003	59.3	<i>5023</i>	O	71629	,	, BA	211/	FRUITLA	AND CO	IAL		
*Property	Code				*Propert	y Name				*Well Number		
1703	3		ROSA UNIT 372A							372A		
'OGRID	No				*Operato	r Name				*E	levation	
12078	32									6583 '		
	¹⁰ Surface Location											
UL or lot no	Sect ion	Township	Range	Lot-Jon	Feet from the	North/South line	Fee	et from the	East/Wes	st line	County	
D	31	31N	4W		940	NORTH		910	WE:	ST	RIO ARRIBA	
		11 E	Bottom	Hole L	ocation I	f Different	Fro	om Surf	ace ·	-		
UL or lot no	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line `	Fee	et from the	East/Wes	st line	County	
									_			
12 Dedicated Acres	20.4	· ·			¹³ Joint or Infill	¹⁴ Consplidation Code	15 Order	r No				
	294.	84 Acre	es - (W	/2)				•				
NO ALLOW	ABLE W	ILL BE A				ON UNTIL ALL				EN CON	SOLIDATED	
16	OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION											
1108.80) / /	1320	.00 '		. 2640	.00 '		₽ .	ATOR (FICATION	



to the best of my knowledge and belief 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 Survey Date NOVEMBER 16, 2006 Signature and Seal of Professional Surveyor SON C. EDWARDS EN MEXICO AND ESSIONAL

LDWARDS

Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Reso	urces May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVIS	10N 30.039.3032 W
District III	1220 South St. Francis Dr.	5. Indicate Type of Lease FEDERAL X
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE FEE
District IV	Santa Fe, INIVI 8/303	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		NMSF-078774
	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG BACK	
	CATION FOR PERMIT" (FORM C-101) FOR SUCH	Rosa Unit
PROPOSALS.)	Gas Well 🛛 Other	8. Well Number: 372A
	Gas well \(\square\) Other	·
2. Name of Operator	C	9. OGRID Number 120782
Williams Production Company, LL		Basin Fruitland Coal
3. Address of Operator		Basin Fruitand Coal
P.O. Box 640 Aztec, NM 87410		
4. Well Location:		
Surface: Unit Letter D: 940 f	eet from the north line and 910 feet from the	west line
Section 31 Township	p 31N Range 4W 1	NMPM County Rio Arriba
	11. Elevation (Show whether DR, RKB, RT	T. GR. etc.)
	6,583' GR	
Pit or Below-grade Tank Application 🛛 o		>200
Pit type reserve Depth to Groundwate	er > 100' Distance from nearest fresh water well >	1,000'_ Distance from nearest surface water ====================================
1		nstruction Material
Pit Liner Thickness: 12 mil Below-	Grade lank: Volume bbis; Co	Instruction Material
12. Check A	Appropriate Box to Indicate Nature of	Notice, Report or Other Data
NOTICE OF IN		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON ☐ REMED	DIAL WORK ALTERING CASING
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON REMED CHANGE PLANS COMME	
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In Lieu Form 3 (June 1	160 DEPARTM	TED STATES ENT OF INTERIOR AND MANAGEMENT		FORM APPROVED Budget Bureau No 1004-0135 Expires March 31, 1993
	SUNDRY NOTICE AND t use this form for proposals to drill or to deepen of	REPORTS ON WELLS, AFI 10: AFI	² 5	Lease Designation and Serial No NMSF-078774
	TO DRILL" for perm	int for such proposals RECEIVED SLH	6.	If Indian, Allottee or Tribe Name
	SUBMIT IN '	Since of the state	7	If Unit or CA, Agreement Designation Rosa Unit
1.	Type of Well Oil Well X Gas Well Other		8.	Well Name and No. Rosa Unit #372A
2	Name of Operator WILLIAMS PRODUCTION COMPANY	•	9.	API Well No. 30 - 039 - 30226
3.	Address and Telephone No PO Box 640 Aztec, NM 87410-0640		10	Field and Pool, or Exploratory Area Basin Fruitland coal
4.	Location of Well (Footage, Sec, T, R, M, or 940' FNL & 910' FWL Sec 31, 7	Survey Description) 731, R4 NMPM	11.	County or Parish, State Rio Arriba, New Mexico
	CHECK APPROPRIA	TE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR	OTHER DATA
	TYPE OF SUBMISSION	ТҮРЕ С	F ACTIO	ON
	Notice of Intent	Abandonment Recompletion		Change of Plans New Construction
	X Subsequent Report	Plugging Back		Non-Routine Fracturing Water Shut-Off
	Final Abandonment	Casing Repair Altering Casing X Other Change location	Dispose	Conversion to Injection Water (Note. Report results of multiple completion on Well Completion or Recompletion Report
				and Log form.)

Williams Production Company, LLC. Per attached plat hereby requests authority to change the site of this well from 950 FNL & 890 FWL, sec 31, T31N, R4W to 940 FNL & 910 FWL, sec 31, T31N, R4W. The outside corners remain the same but the pad was rotated 180 deg at on site.

RCVD AUG 21'07 DIL CONS. DIV. DIST. 3

14	I hereby certify that the foregoing is true and correct Signed Larry Higgins	Title Drilling C O M	Date <u>8-6-07</u>	
	(This space for Federal or Safe office use) Approved by Conditions of approval, if any:	Title AFM	,	Date 8/17/57

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.

^{13.} Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

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

FORMATIO	LITHOLOGY	WATER	GAS	OIL/COND	OVER-PRES	LOST CIRC
Nacımıento	Interbedded shales, siltstones 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 interbedded shales	Possible	Yes	Possible	No	Possible
Lewis	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
Point Lookout	Regressive coastal barrier sandstone	Possible	Yes	Possible	No	Yes
Mancos	Marine shale and interbedded sandstone	No	Possible	Possible	No	Possible
Upr Dadota	Marine sand and shales	No	Yes	Possible	No	Possible
Lwr Dakota	Fluvial sands, shales, & coal	Possible	Yes	Possible	No	Possible

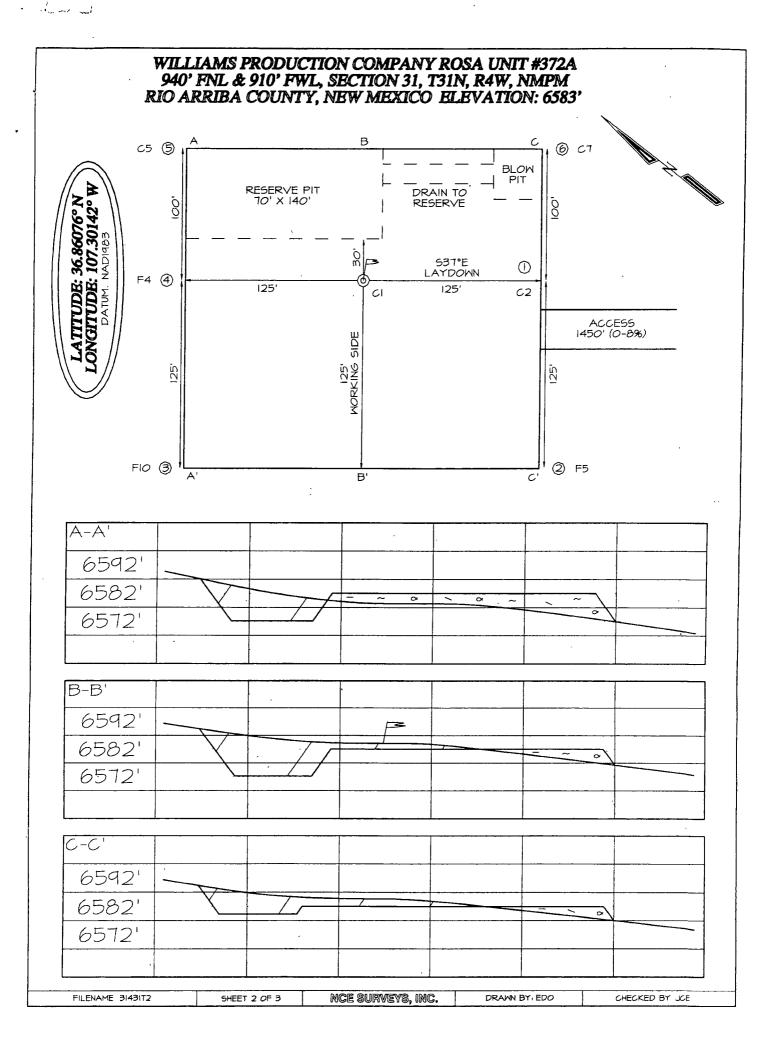
DRILLING

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:

- 1 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

Operations Plan

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

DATE:

1/23/2007

WELLNAME:

Rosa Unit #372A

FIELD:

Basin Fruitland Coal

BH LOCATION:

NWNW Sec 31-T31N-4W

SURFACE:

USFS

Rio Arriba, NM

FED

ELEVATION:

6,583' GR

MINERALS:

TOTAL DEPTH:

3,522

LEASE #

SF-078774

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	MD	NAME	MD
San Jose	Surface	Top Coal	3,342
Nacimiento	1,652	Bottom Coal	3,422
Ojo Alamo	2,742	Pictured Cliffs	3,427
Kirtland	2,847	TD	3,522
Fruitland	3,222		

- **B.** <u>LOGGING PROGRAM:</u> SDR from TD to Intermediate casing. DSN from TD to surface casing.
- 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.

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 3,322', <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	30	00	9 5/8	36	K-55
Intermediate	8 3/4	3,3	22	7	20	K-55
Liner	6 1/4	3,233	3,422	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. <u>PRODUCTION LINER / CASING:</u> 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place centralizers as needed across selected production intervals.

C. CEMENTING:

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

- 1. <u>SURFACE</u>: Use 160 sx (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 120% excess to circulate the surface. WOC 12 hours. Total volume = 206 cu.ft. Test to 1500#.
- INTERMEDIATE: Lead 415 sx (859 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 = 929 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. COMPLETION

A. PRESSURE TEST

1. Pressure test 7" casing to 1500# for 15 minutes as per state regulations.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

