·State of New Mexico **Energy Minerals and Natural Resources**

Form C-101 May 27, 2004

District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

Oil Conservation Division 1220 South St. Francis Dr

Submit to appropriate District Office

☐ AMENDED REPORT

1220 S. St. F						1	M 875	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				
APPI	ICATIO	ON FOR	PERMIT	TO DI	RILL, RE-	ENT	R. DI	EEPEN	I. PLUGBA	CK, OR A	ADD A ZONE	
Operator Name and Address Williams Production Company, LLC c/o New Horizons Consulta P.O. Box 1391						nts_Inc		120782	OGRID Number			
Williams Production Company, LLC c/o New Horizons Consulta P.O. Box 1391 Cortez, CO 81321					ر کا		<i>⊕ ™?</i> ?	30- 0	4 API Numl	\$245		
3 Prope	erty Code 17033	T			³ Property	Name	<u>√</u> >	c2 ⁵	·沙		Well No.	
	17033				Rosa Ú		<i>مول</i> ا	علامة الأعالية			274A	
			roposed Pool 1 n Fruitland Coa	.i					10 Prop	osed Pool 2		
		Dasi	<u>B Fruitiand Coa</u>		7 Surface	Location						
UL or lot no.	Section	Township	Range	Lot I		rom the	T	outh line	Feet from the	East/West lin	e County	
G	16	31N	6W		l l	320		RTH	1940	EAST	San Juan	
⁸ Proposed Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot I	Lot Idn Feet from the		North/South line Fe		Feet from the	East/West lin	e County	
I	16	31N	6W			535			1180	EAST	San Juan	
11 Work	Type Code	<u> </u>	12 Well Type Co		ditional Wo		ormau		Lease Type Code	15	Ground Level Elevation	
l	N		M		le 13 Cable/Rotary R			S			6328'	
i .	/ultiple Yes		17 Propose +/- 3482				al Aztec Well Services			²⁰ Spud Date When Approved		
Depth to Gro	undwater	50' – 100'		Distance	e from nearest fre	sh water	h water well >1000' Distance from nearest surface water >1200'			ce water >1200'		
Pit: Liner: Synthetic X 12 mils thick Clay ☐ Pit Volume: 10,000 bbls Drilling Method:												
Clos	ed-Loop Syste	em 🔲					<u>F</u> ı	resh Water	X Brine Dies	el/Oil-based	Gas/Air	
			21	Propos	sed Casing	and Ce	ement	Progran	n			
Hole S	Size	Casi	ng Size	Casing	g weight/foot		Setting D	epth	Sacks of Ce	ment	Estimated TOC	
12-1	/4"		5/8"	36		+	+/- 300°		190		Surface	
8-3/4" 7"		7"	20#		+/- 3.343'		455 / 50		Surface			
6-1/4" 5		5-	5-1/2"		15.5 3243° – 3		482' N/A			Onen Hole		
						ļ						
Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.												
	Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.											
Drillin	g Plan, Surf	ace Use Pla	n and pit applic	ation are	attached.							
Federa	Federal surface use is necessary for construction and drilling of this well.											
The second of th												
1 1 / Hell												
directional survey ORIGINAL												
OTTO TIVILE												
23 hamel	urifi; shoe st	info	airon share i si		malata 4- 41							
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be					OIL CONSERVATION DIVISION							
constructed according to NMOCD guidelines X, a general permifer an (attached) alternative OCD-approved plan				Approved by:								
(attached) after native Octo-approved pian				There is the same of the same								
Printed name	: Don Hami	ilton	Don	Hamil	ten	Title:	Title: DEPUTY OIL & GAS INSPEZIOR, DIST. (59					
Title: Agent					Approval Onto 18 2005 Expiration Parts 18 2005							
E-mail Addre	E-mail Address: starpoint@etv.net										0 2000	
Date: 7/8-05	Date: 7/8-05 Phone: 435-719-2018					Conditions of Approval Attached						

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

7/

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

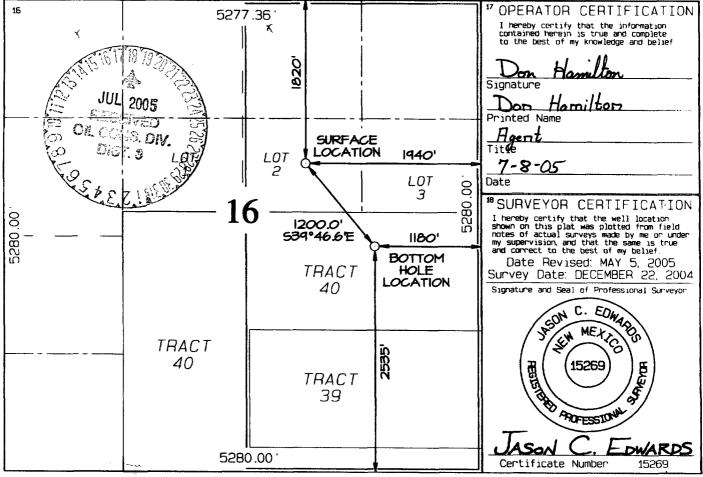
State Lease - 4 Copies Fee Lease - 3 Copies

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

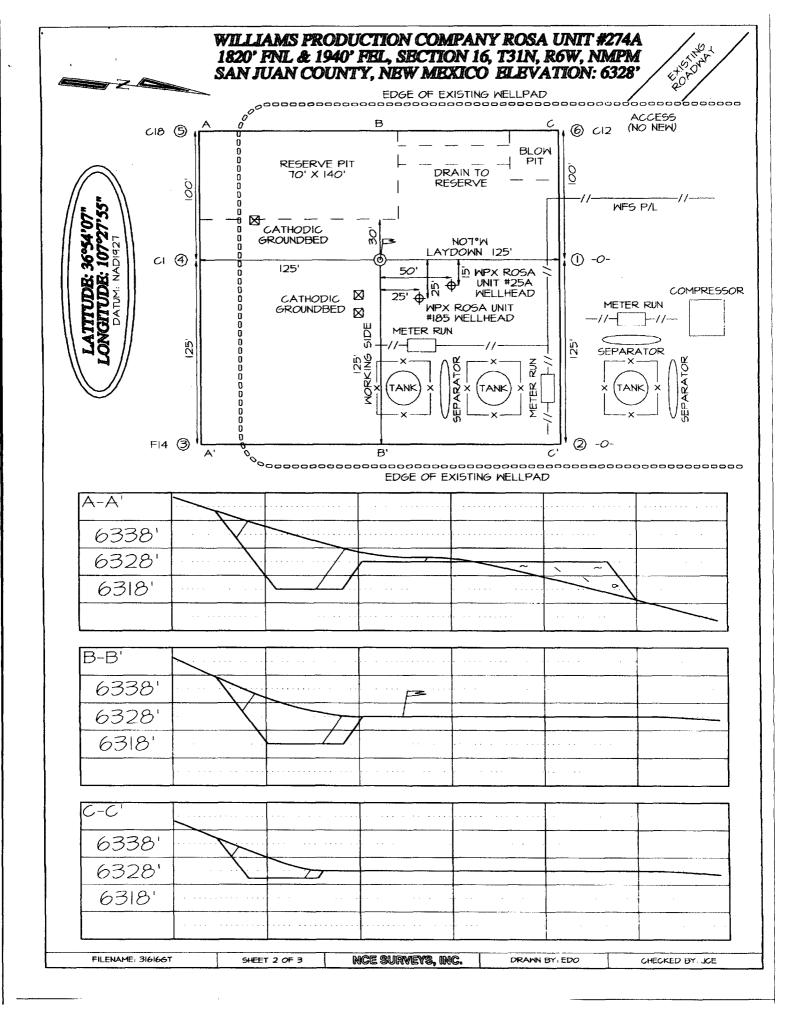
AMENDED REPORT

LOCATION AND ACDEAGE DEDICATION DIAT MIT I

			WELL	LOCATI	IA UNA NO	CHEAGE DEDI	CALLON PL	ΑI		
30-045-33245 'Pool Code 71629				Pool Name BASIN FRUITLAND COAL						
Property Code				*Property Name				"Well Number		
17033				ROSA UNIT				274A		
'OGRID No.				*Operator Name					*Elevation	
12078	2			MILLL	AMS PRUDU	CTION COMPAN	ł Y		6328	
				1	^o Surface	Location				
UL or lot no.	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
G	16	31N	6W		1820	NORTH	1940	EĄST	SAN JUAN	
¹¹ Bottom Hole Location If Different From Surface										
Ut or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West		
I	16	31N	6W		2535	SOUTH	1180	EAST	SAN JUAN	
320.0 Acres - (E/2)					¹³ Joint or Infill	¹⁴ Consolidation Code	²⁵ Order No.			
NO ALLOW	NABLE W	ILL BE OR A	ASSIGNE NON-ST	D TO THI ANDARD (S COMPLETI UNIT HAS BE	ON UNTIL ALL EEN APPROVED	INTERESTS H BY THE DIVI	IAVE BEEN	N CONSOLIDATED	
16	x 1875-167	18 79 70	5	277.36 ^x	1820'		I hereby containe	certify that d herein is to est of my kn	ERTIFICATION t the information true and complete nowledge and belief	
JUL 2005			Ϊ			Don	Hamil	ltom		



Submit 3 Copies To Appropriate District Office	State of New Me Energy, Minerals and Natu		Form C-103 May 27, 2004				
District I 1625 N. French Dr., Hobbs, NM 88240	energy, witherars and water	irai Resources	WELL API NO.				
District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM	OIL CONSERVATION 1220 South St. Fra Santa Fe, NM 87	ncis Dr.	5. Indicate Type of Lease STATE X FEE 6. State Oil & Gas Lease No. SF-078766				
	ICES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name				
DIFFERENT RESERVOIR. USE "APPLIED PROPOSALS.)	OSALS TO DRILL OR TO DEEPEN OR PLICATION FOR PERMIT" (FORM C-101) FOR		Rosa Unit 8. Well Number 274A				
Type of Well: Oil Well Name of Operator	Gas Well Other		9. OGRID Number				
Williams Production Company,	LLC		120782				
3. Address of Operator			10. Pool name or Wildcat				
999 Goddard Ave, Ignacio, CO	81137		Basin Fruitland Coal				
4. Well Location	930 God Grow die N. Brown	1 1040 5 4 5	41				
	820 feet from the N line and						
Section <u>16</u>	Township 31N R 11. Elevation (Show whether DR	ange 6W	NMPM County San Juan				
	6,328' GL	, <i>MD</i> , <i>M</i> 1, <i>ON</i> , <i>cic.</i>)					
Pit or Below-grade Tank Application 🔲							
	dwater 50-100' Distance from neares	t fresh water well <u>>100</u>	<u>10 ft</u> Distance from nearest surface water <u>>1,200 ft</u>				
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Constructi					
12. Check	Appropriate Box to Indicate N	lature of Notice, l	Report or Other Data				
	ITENTION TO:		SEQUENT REPORT OF:				
PERFORM REMEDIAL WORK	PLUG AND ABANDON CHANGE PLANS	REMEDIAL WORK	<u> </u>				
TEMPORARILY ABANDON DULL OR ALTER CASING	COMMENCE DRIL	_					
	MULTIPLE COMPL	O TONTO POEMETT					
OTHER:		OTHER:					
of starting any proposed we or recompletion.	oleted operations. (Clearly state all pork). SEE RULE 1103. For Multip	pertinent details, and le Completions: Att	give pertinent dates, including estimated date ach wellbore diagram of proposed completion				
Pit to be located approximately 50 to 75 feet from well head. Pit will be for multi-use drilling and completion to avoid additional site disturbance and pit will be considered out of service once production tubing set. Pit to be constructed, operated and closed in accordance with NMOCD guidelines and Williams procedures.							
I hereby certify that the information grade tank has been/will be constructed or SIGNATURE Den Hami	above is true and complete to the beclosed according to NMOCD guidelines TITLE	est of my knowledge ⊠, a general permit □ o Agent DA	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan				
* - *			Telephone No. 435-719-2018				
For State Use Only		MM7 63 * 600	JUL 1 8 2005				
APPROVED BY:Conditions of Approval (if any):	TITLE TITLE	PUTV DA & GAS INS	DATE				





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

7/8/2005

WELLNAME:

Rosa Unit #274A

San Juan, NM

FIELD:

Basin Fruitland Coal

BH LOCATION:

NESE Sec 16-31N-6W

SURFACE:

STATE

SURF. LOCATION:

SWNE Sec 16-31N-6W

MINERALS:

BLM

ELEVATION:

6,328' GR

STATE/FED

TOTAL DEPTH:

3,482'

LEASE#

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	TVD	MD	NAME	TVD	MD
San Jose	Surface	Surface	Top Coal	3,047	3,362
Nacimiento	1,167	1,203	Bottom Coal	3,167	3,482
Ojo Alamo	2,337	2,627	Pictured Cliffs	3,167	3,482
Kirtland	2,452	2,751	TD	3,167	3,482
Fruitland	2 912	3 225			

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 3,343 (MD) DO NOT drill deeper until Engineering is contacted.
- B. Drilling Fluid: Coal section will be drilled with Fruitland Coal water. Mud logger will pick TD.
- 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 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	HOLE SIZE	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,343'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,243'-3,482'	5-1/2"	15.5# K-55

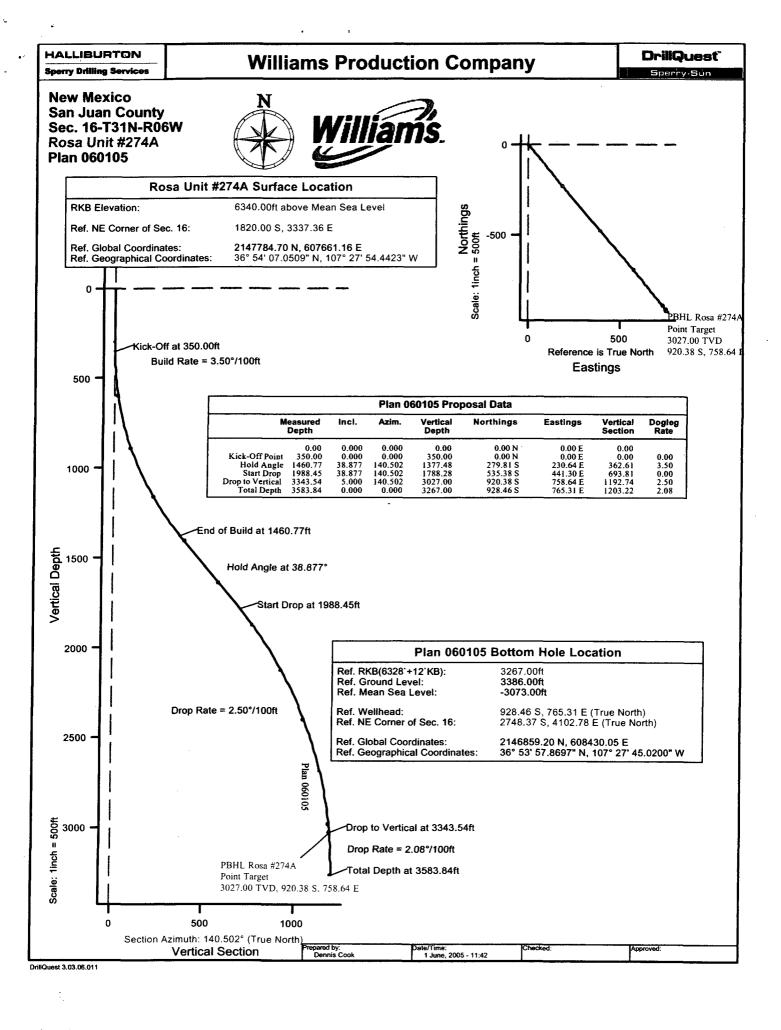
B. FLOAT EQUIPMENT:

- 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 centralizers as needed across selected production intervals.

C. CEMENTING:

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

- 1. <u>SURFACE</u>: 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 100% excess to circulate the surface. WOC 12 hours. Total volume = 264 cu.ft. Test to 1500#.
- INTERMEDIATE: Lead 455 sx (951 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 = 1,021 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

Well Control Equipment Schematic for 2M Service

Typical BOP setup

