FORM 3160-3 (December 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

(Other instructions on

reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

BUR	EAU OF LAND MA	NAGEMENT 20	2 115 21 PM 1:	11 NM-03190		
APPLICATION F	OR PERMIT TO	DRILL, DEEPEN, O		6. IF INDIAN, ALLOTTEE OR TR	1703	
1a. TYPE OF WORK DRIL	LX DEEPE		Processing and an annual an annual and an annual an annual and an annual an annual and an annual an annual and an annual an annual and an annual a	T IN HELD A CONTROL OF THE CONTROL O	1000	
/Ib. TYPE OF WELL				7. UNIT AGREEMENT NAME	1.1.	
				Cox Canyon	unit	
METT MEI	AS X OTHE	R SINGLE ZONE	MULTIPLE ZONE	8. FARM OR LEASE NAME, WE $\#8C$	LL NO.	
2. NAME OF OPERATOR				9. API WELL NO.		
Williams Pr	oduction Company	LLC		3004	5 3/187	
3. ADDRESS OF OPERATOR			AN 1777	10. FIELD AND POOL OR WILD		
c/o Walsh Engineering 7	415 E. Main St., Fari	mington, NM 87402 (5	05) 327-4892	Blanco Mesa	Verde	
 LOCATION OF WELL (Report local 	tion clearly and in accordance v	rith any State requirements.*)	San	11. SEC., T., R., M., OR BLK.		
At Surface 1055' FSL &	€ 585' FEL			AND SURVEY OR AREA		
At proposed Prod. Zone				ρ Sec. 17, T321	V, <i>R11W</i>	
14 DISTANCE IN MILES AND DIRECTION	FROM NEAREST TOWN OR P	OST OFFICE*		12: COUNTY OR PARISH	13. STATE	
12 miles No	rth of Aztec, NM			San Juan	NM	
 DISTANCE FROM PROPOSED* LOCA OR LEASE LINE, FT. (Also to nearest dri 	TION TO NEAREST PROPERTY	16. NO. OF ACRES IN LEASE	1	7. NO. OF ACRES ASSIGNED TO THI		
585'	,	328	20	328.2		
18. DISTANCE FROM PROPOSED LOCAT	ION* TO NEAREST WELL,	19. PROPOSED DEPTH		0. ROTARY OR CABLE TOOLS		
DRILLING, COMPLETED, OR APPLIED $\sim 500'$	FOR ON THIS LEASE, FT.					
21. ELEVATIONS (Show whether DF, RT, G	2 40)	630	<u> </u>	Rotary		
6810' GR	K, etc.)				22. APPROX. DATE WORK WILL START*	
23.	PROPOSED C	SING AND CEMENTING	NDOCD 415	October 1, 20	002	
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT				
12-1/4"	9-5/8"	36#	SETTING DEPTH $\sim 250 \text{ ft}$	~176 cu.ft. Type III with	F CEMENT	
8-3/4"	7"	20#	~2987 ft	690 cu.ft. Type III Will	1 2% CaCl 2	
6-1/4"	4-1/2"	10.5#	~6307 ft	~689 cu.ft.65/35 poz &		
	1	10.511	~0307 ji	~196 cu.ft. Prem.Lite H	S & 225 cu.ft PLHS w	
Williams Production Conabove described location This location has been an have been submitted direct This APD also is serving an existing road that cross SE/SE of section 16 NW	in accordance with achaeologically sur celly to your office. as an application to see the NW/SE, SW NW, NE/NW, NW/	the attached drilling veyed by Independent o obtain BLM road at V/NE, NE/NE of section NE, SE/NE of section	and surface use pla Contract Archaeolo nd pipeline right-of- on 17, SW/SW, SE/S 22, SW/NW, NE/N	ons. Ogy. Copies of their repoways. This well will be W of section 9, SE/SW W section 24, SW/NW	e accessed by , SW/SE, , SW/NW, NW/SW	
SW/SE of section 19, NE/ IN ABOVE SPACE DESCRIBE PROPO If proposal is to drill or deepen directional 24.	SED PROGRAM: If proposal	is to deepen or plug back, give dat urface locations and measured and to	re it joins San Juan a on present productive zone and the vertical depths. Give blower	County Road CR 2300 proposed new productive zone. at preventer program, if any.	!. 	
NEW/SE of section 19, NE/ IN ABOVE SPACE DESCRIBE PROPORTING TO BE TO STATE OF THE PROPORTION OF THE P	SED PROGRAM: If proposal	is to deepen or plug back, give dat urface locations and measured and to	re It Joins San Juan	County Road CR 2300 proposed new productive zone. preventer program, if any.	1/2002	
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*See Instructions On Reverse Side

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.

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

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 87410

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

'API Number

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
to Appropriate District Office

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

AMENDED REPORT

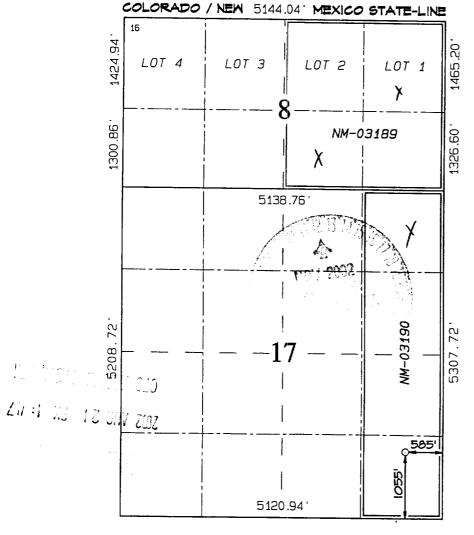
WELL LOCATION AND ACREAGE DEDICATION PLAT

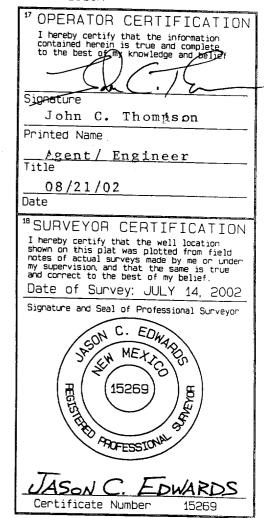
7- 10 7187			つ	Pool Code		Pool Name				
30-04	30-04S-3//\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			9	BLANCO MESAVERDE					
1703	6		Property Name COX CANYON UNIT					* We	ell Number 8C	
'0GRID N		*Operator Name WILLIAMS PRODUCTION COMPANY				i i	*Elevation			
¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	

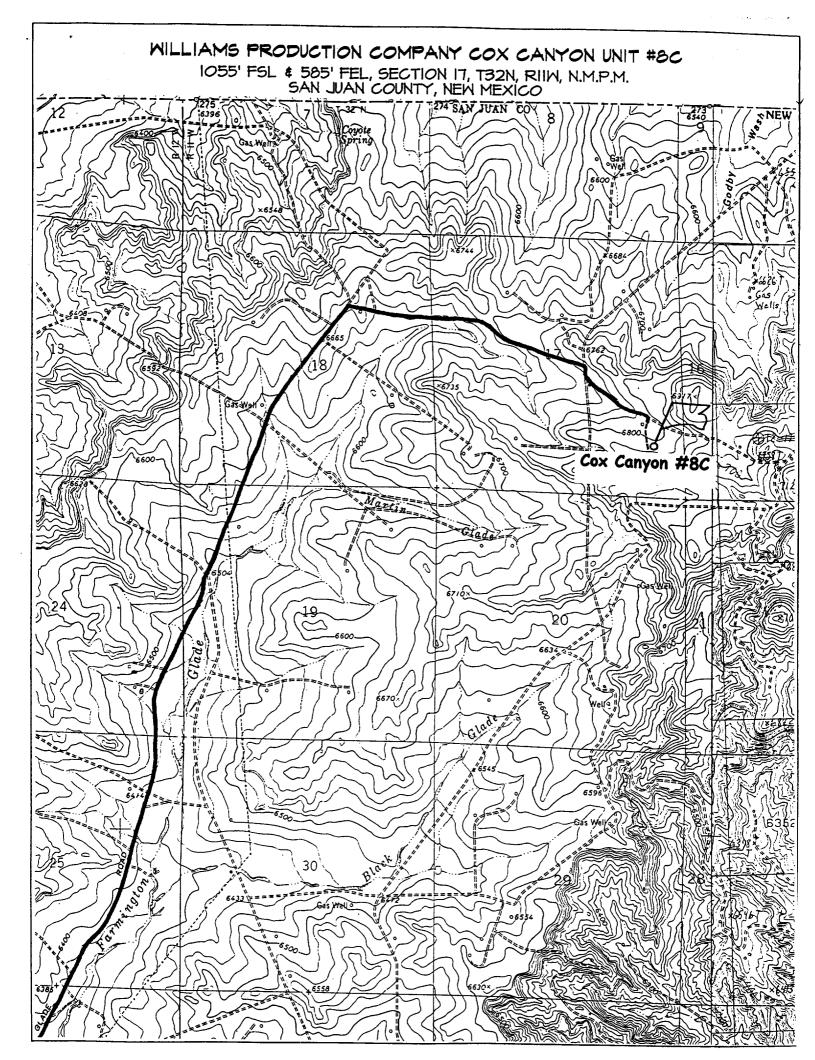
Pool Code

1/ 35N 11W 1055 SOUTH 585 EAST SAN JUAN ¹¹Bottom Hole Location If Different From Surface 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 ⁱ³Joint or Infill ¹⁴ Consolidation Code 328.20 Acres 15 Order No. E/2 Section 8, E/2 E/2 Section 17

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









WILLIAMS PRODUCTION COMPANY Operations Plan

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

DATE:

8/20/2002

FIELD:

Blanco MV

WELL NAME:

Cox Canyon Unit #8C

SURFACE:

FEDERAL

LOCATION:

SE/4 SE/4 Sec 17-32N-11W

MINERALS:

FEDERAL

ELEVATION:

6810' GR

San Juan, NM

LEASE#

NM-03190

MEASURED DEPTH:

6307

L **GEOLOGY:** Surface formation - San Jose

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

MD
5312'
5407
5757
6082
6307
0507

- B. LOGGING PROGRAM: HRI from intermediate casing to TD. GR/D/N over intervals of interest. On-site geologist will pick the intervals. Subject to change as wellbore conditions dictate.
 - 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. 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.
- B. BOP TESTING: 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	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 250'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 2987'	7"	20# K-55
Prod. Casing	6-1/4"	+/- 6307'	4-1/2"	10.5# 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 (3) joints of Surface Casing.
- INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install one Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (4) joints to the surface casing. Total centralizers = (26) regular and (3) turbulent.
- 3. <u>PRODUCTION CASING:</u> 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20" bottom joint. Place marker joint above 5630'. Place one positive standoff turbolizer every other joint. Total turbolizers is 34.

C. CEMENTING:

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

- 1. <u>SURFACE</u>: Slurry: <u>140sx</u> (176 cu.ft.) of "Type III" + 2% CaCl₂ + ½ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 125% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. INTERMEDIATE: Lead: 330sx (689 ft³) of "Type III" 65/35 poz + 8% gel + 1% CaCl₂ + ½ # cello-flake/sk (Yield = 2.09 ft³./sk, Weight = 12.1 #/gal.). Tail: 150x (209 ft³) of class "Type III" + 1% CaCl₂ + ½ # cello-flake/sk. (Yield = 1.39 ft³/sk, Weight = 14.5#/gal.). The 100% excess in lead and tail should circulate cement to the surface. Total volume = 898 ft³. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated to the surface. Test csg. to 1500psi.
- 3. PRODUCTION LINER: 10 bbl Gelled Water space. Lead: 75sx (196ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.61 cu.ft./sk, Weight = 11.6 #/gal.). Tail: $105_{\underline{SX}}$ (225 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in lead and tail should cover 100 ft into intermediate casing. Total volume 421ft³. WOC 12 hours.

Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

