FORM 3160-3 (December 1990) 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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

NM-03189

					OR PLUG BACK	HAA Face
1b. TY	PE OF WORK	DRILLX	DEEPEN]		7. UNIT AGREEMENT NAME COLLEGE STOP, N
,	PE OF WELL	<u></u>	_	_		Cox Canyon Unit
			_			8. FARM OR LEASE NAME, WELL NO.
	WELL	WELL X	OTHER	SINGLE X	MULTIPLE ZONE	204
2. NAN	1E OF OPERATOR		. ~	* * ~		9. API WELL NO.
3 ADT	Will PRESS OF OPERATO		iction Company,	LLC		30 045 32 25
J. ADL			- Ignacio Colora	ło 81137 - (970) 56	3_3308	Basin Fruitland Coal
4. LO				with any State requirements		11. SEC., T., R., M., OR BLK.
At Sur		0' FSL and	*	/://///-//////////////		AND SURVEY OR AREA
At pro	posed Prod. Zi 22	265' FSL an	nd 10' FWL		168 200 ·	K Sec. 21, T32N, R11W
14. DIS			ROM NEAREST TOWN OR P	OST OFFICE*		12 COUNTY OR PARISH 13. STATE
		<u>v</u>	Aztec, NM	<u>්</u> ලා		San Juan NM
	STANCE FROM PROF LEASE LINE, FT.(A) 10'		N TO NEAREST PROPERTY nit line, if any)	p-	£ 17. ₽60	NO OF ACRES ASSIGNED TO THIS WELL 320 IV/>
18. DIS		POSED LOCATION	* TO NEAREST WELL.	19. PROPOSED DEPTH	C. 14.	ROTARY OR CABLE TOOLS
DR	ILLING, COMPLETE 250'		OR ON THIS LEASE, FT.	523	9' (measured depth)	Potan
21 ELI	EVATIONS (Show who			323	9 (measurea aepin)	Rotary 22. APPROX. DATE WORK WILL START*
ZI. ELE		9' GR	ic.)	•		February 15, 2004
23.			PROPOSED CASIN	NG AND CEMENTING	G PROGRAM	
	SIZE OF HOL		SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
			9-5/8"	<i>36.0</i> #	+/- 300'	~206 cu.ft. Type III with 2% CaCl 2
	12-1 8-3/					
	8-3/ 6-1/	/4" /4"	9-5/8" 7" 4-1/2"	36.0# 20.0# 10.5#	+/- 300' +/- 3730' +/- 3200' - 5239'	~206 cu.ft. Type III with 2% CaCl ₂ ~843 cu.ft.65/35 poz & ~209 cu.ft.Type Open hole completion - no cement
This subrany well com	8-3/6-1/ iams Production has location has nitted directs accessed hects with the	ction Component on in accordance of the second of the condesiste of the second of the	9-5/8" 7" 4-1/2" any proposes to a dance with the attached and application to ipeline & Well Paing road in the SE qtr out	36.0# 20.0# 10.5# drill a horizontal vertached drilling and veryed by Independent of obtain road and lats #3 & #4). This ses the West half of sec 20, T32N, R	+/- 300' +/- 3730' +/- 3200' - 5239' well to develop the Fract Surface use plans. dent Contract Archae pipeline right-of-wate well will be placed for sec 21 and the Eatle. HOLD C104 F	~206 cu.ft. Type III with 2% CaCl 2 ~843 cu.ft.65/35 poz & ~209 cu.ft. Type Open hole completion - no cement ruitland Coal formation at the above ology. Copies of their report have be ys. This well will not require adjacent to the CC#5 pad. This st half of sec 20 where it
This subn This any well com	8-3/6-1/ iams Productions Production had nitted direction had nitted direction had new access of its accessed nects with the overspace description.	ction Component on in accordance of the second of the second of the second of the second of the Glade roce of the Glade roce of the Glade roce of the second	9-5/8" 7" 4-1/2" any proposes to a dance with the attachment and application to ipeline & Well Plant of the SE qtr of the Decoration the SE qtr of the program: If proposes	36.0# 20.0# 10.5# drill a horizontal vertached drilling and veryed by Independent of obtain road and lats #3 & #4). The sses the West half free 20, T32N, Ral is to deepen or plug back,	+/- 300' +/- 3730' +/- 3200' - 5239' well to develop the Find surface use plans. dent Contract Archae pipeline right-of-wate well will be placed for sec 21 and the Eatl IW. HOLD C104 Figure data on present productive	~206 cu.ft. Type III with 2% CaCl ₂ ~843 cu.ft.65/35 poz & ~209 cu.ft.Type Open hole completion - no cement ruitland Coal formation at the above ology. Copies of their report have be ys. This well will not require adjacent to the CC#5 pad. This st half of sec 20 where it
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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.

19.10

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

District II PO Drawer DD, Artesia, NM 88211-0719

SCAN PRESTO CONTO

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

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-192 Revised February 21, 1994 Instructions on back Ait to Appropriate District Office

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

³Pool Name

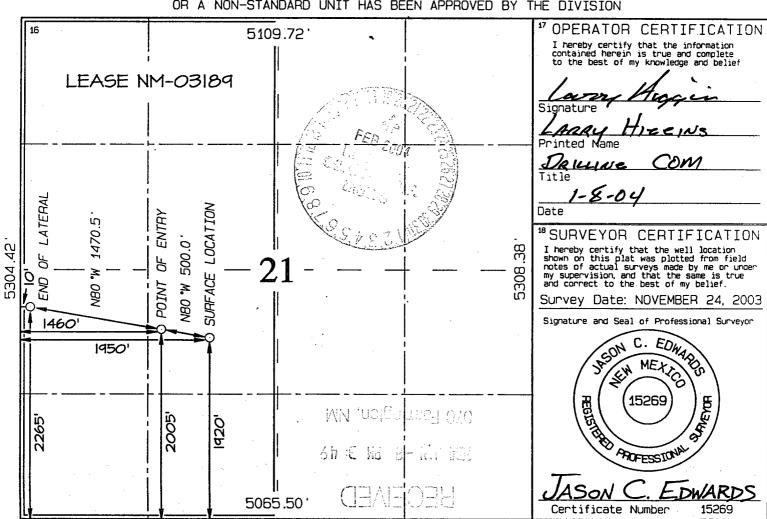
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

				FOOT COL	,c	1 bol Name					
30-045-32125 71629				3	BASIN FRUITLAND COAL						
*Property Code				Property Name				⁴Well Number			
17036				COX CANYON UNIT				204			
OGRID No.					Operator Name				*Elevation		
120782 WILLIAMS					IAMS PRODU	PRODUCTION COMPANY			6879 ·		
¹⁰ Surface Location											
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the East/West line County				
К	21	32N	11W		1920	SOUTH	1950	WEST SAN JU			
¹¹ Bottom 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/Wes	t line	County	
L	21	32N	11W		2265	SOUTH	10	WES	ST	SAN JUAN	
320.0 Acres - (W/2)				¹³ Joint or Infill	³⁴ Consolidation Code	Sorder No.	-500	52			

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:

1/8/2004

WELLNAME:

Cox Canyon #204

FIELD:

Basin Fruitland Coal

LOCATION:

NE/4 SW/4 Sec. 21-T32N-R11W

SURFACE:

Federal

ELEVATION:

6879' GR

San Juan, NM

MINERALS:

Federal

TOTAL DEPTH:

5239'

LEASE #

NM-03189

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

	Pilot Hole	Horizontal Section		Pilot Hole	Horizontal Section	
	TVD	MD		TVD	MD	
San Jose	Surface	Surface	Top Coal	3,324	3,357	
Nancimiento	124	124	Top Target Coal	3,474	3,730	
Ojo Alomo	1,239	1,239	Bottom Target Coal	3,484		
Kirtland	1,264	1,264	Base Coal	3,569		
Fruitland	3,129	3,130	Picture Cliffs	3,574		
			TD	3,669	5,239	

- NOTE: Well will be vertically drilled to 95' into Picture Cliff, logged through the PC, plug back the PC and 8-3/4" hole to 200 ft. above adjusted KOP. Dress / Kick-off cement plug and horizontally drill through the coal.
- **B. LOGGING PROGRAM:** High Resolution Induction/ GR and Density/ Neutron log from surface to intermediate casing point and High Resolution Induction/ GR and Density/ Neutron log from intermediate shoe to TD. Onsite geologist will pick Density/ Neutron log intervals on both logging runs.
- C. <u>NATURAL GAUGES</u>: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.
- D. SURVEYING: Run Single Shot surveys every 500 ft. while drilling the Pilot Hole to 3,469 ft. (MD).

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 3459' DO NOT drill deeper until Engineering is contacted.
- B. <u>Drilling Fluid:</u> Horizontal section will be drilled with Calcium Chloride water. Mud logger will pick TD at +/- 3363'.
- C. MUD LOGGING PRORAM: Mud logger will pick intermediate casing point and 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 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	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3730'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3200-5239'	4-1/2" perfed	10.5# K-55

^{*}Note: All casing depths are measured depths.

B. FLOAT EQUIPMENT:

- 1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe.
- 2. <u>INTERMEDIATE CASING:</u> 7" cement nose guide shoe with a self-fill insert float. Place float one(1) joint above the shoe and five(5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1585' to the surface. Total centralizers = 5 regular and 14 turbulent.
- 3. PRODUCTION LINER: 4-1/2" perforated liner with guide shoe on bottom.

C. CEMENTING:

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

- 1. <u>SURFACE</u>: Use <u>155 sx</u> (206 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. <u>INTERMEDIATE</u>: Lead 405 sx (843 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 100 sx (139cu.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 = 982 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

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

B. STIMULATION

None

C. RUNNING TUBING

1. <u>Fruitland Coal:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.375" ID) on top of bottom joint. Land tubing at approximately 3,730'.

Sr. Drilling Engineer

file:CC #204 horizontal

Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

