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(Ja	ine	1990)

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UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Evnires: March 31, 1993

County or Parish, State

San Juan, New Mexico

11.

			Expires: March 31, 1993	
Do not	SUNDRY NOTICE AND REPORTS ON WELLS use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION"?	5.	Lease Designation and Serial No. NM-03189	
	use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION 3 TO DRILL" for permit for such proposals 15 JAN 11 TO DRILL"	6.	If Indian, Allottee or Tribe Name	
	RECEIVED			
	OTO FARMINGTON IN	7.	If Unit or CA, Agreement Designation	
	SUBMIT IN TRIPLICATE		Cox Canyon	
	Type of Well Oil Well X Gas Well Other	8.	Well Name and No. Cox Canyon #004C	
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	9.	API Well No. 30-045-33170	
3.	Address and Telephone No. PO Box 640 Aztec, NM 87410-0640	10.	Field and Pool, or Exploratory Area BLANCO MV/BASIN DK	

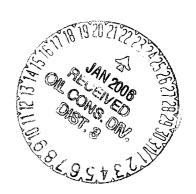
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Change of Plans Abandonment Recompletion New Construction X Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Altering Casing Conversion to Injection X Other <u>Multiple zone completion</u> Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

Williams Production Company, LLC. hereby requests authority to drill this as a Mesa Verde/Dakota dual as per attached operations plan.

Location of Well (Footage, Sec., T., R., M., or Survey Description)

1675 FSL & 1690 FEL, Sec 21, T32N, R11W



14.	I hereby certify that the foregoing is true and correct Signed Larry Higgins	Title	Drilling C.Q.M.	Date	January 9, 2006
	(This space for Federal of State office use) Approved by Conditions of approval, if any:	Title	Pet Eng		Date

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.

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

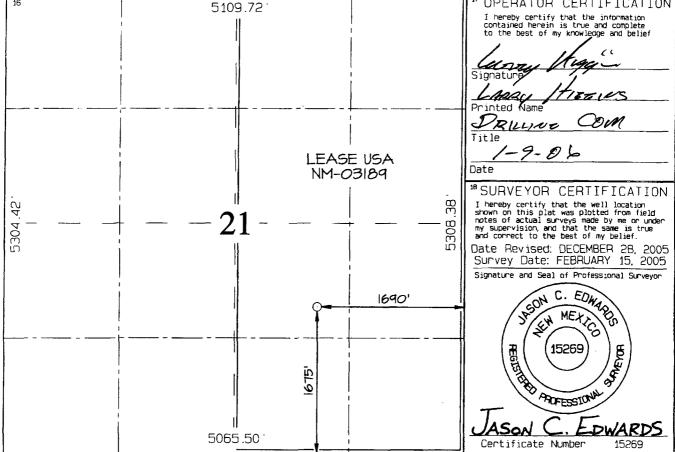
District IV PO 8ox 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

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

2008 JAN 11 AM 8 23 AMENDED REPORT

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			WELL	LOCAT	ION AND A	CREAGE DEDI	ICATION PL	-AT		
	API Numbe	<u>г</u>		²Pool Co	de	<u> </u>	Pool Nam	e		
30-045-33170 72319 / 7					7 1599	BLANCO MESAVERDE / BASIN DAKOTA				
'Property Code					*Property Name			• 14	●Well Number	
	i				COX CANY	ON UNIT			4C	
'OGRID	No.			-	*Operator	Name		9	Elevation	
12078	2			WILL	IAMS PRODU	CTION COMPAN	٧Y		6578	
					¹⁰ Sunface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
J	21	32N	11W		1675	SOUTH	1690	EAST	SAN JUAN	
	·	11 E	Bottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
¹² Oedicated Acres	320	.0 Acre	s - (E	/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	²⁵ Onder No.			
NO ALLOW	ABLE W					ON UNTIL ALL EN APPROVED			NSOLIDATED	
16			5	109.72			17 OPER.	ATOR CERT	IFICATION	
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WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

1/9/2006

FIELD:

Basin DK/BlancoMV

WELL NAME:

Cox Canyon #4C

SURFACE:

BLM

BH LOCATION:

NWSE Sec 21-32N-11W

MINERALS:

BLM

ELEVATION:

6,578' GR

San Juan, NM

LEASE#

NM-03189

MEASURED DEPTH: 8,047'

I. **GEOLOGY:** Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Ojo Alamo	1,447	Cliff House	5,092
Kirtland	1,507	Menefee	5,187
Fruitland	2,817	Point Lookout	5,547
Pictured Cliffs	3,282	Mancos	5,872
Lewis	3,422	Gallup	6,917
Huerfanito Bentonite	3,957	Greenhorn	7,622
		Graneros	7,687
		Dakota	7,752
		Morrison	8,017
		TD .	8.047

- B. MUD LOGGING PROGRAM: Mud logger on location from approximately 7,707' to TD.
- C. LOGGING PROGRAM: High Resolution Induction/ GR and Density/ Neutron log over zones of interest from surface casing to intermediate casing then to protection casing TD. Cased hole logs over Dakota/ Morrison Onsite geologist will pick Density/ Neutron log intervals logging runs.
- D. NATURAL GAUGES: 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. 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. Use air w/Air Hammer from 7 in. csg.to TD.
- B. <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	14-3/4"	+/- 300'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-2,742'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 7,707'	5-1/2"	17.0# N-80
Production Liner	4-3/4"	+/-7,607' - 8,047	' 3-1/2"	9.3#

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. INTERMEDIATE CASING: 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: 3-1/2" & 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

C. CEMENTING:

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

- 1. <u>SURFACE</u>: Slurry: <u>255sx</u> (356 cu.ft.) of "Type III" + 2% CaCl₂ + ½ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. INTERMEDIATE: Lead 430 sx (900) 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 = 1089 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.

- 3. PRODUCTION CASING: 10 bbl Gelled Water space. Lead: $100sx (259ft^3)$ of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ½ #/sk cello flake and 4% Phenoseal. (Yield = 2.59 cu.ft./sk, Weight = 11.6 #/gal.). Cement: $120_sx (251 ft^3)$ of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ½ #/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 50ft³. WOC 12 hours
- 4. PRODUCTION LINER: 10 bbl Gelled Water space. Cement: 50 sx (100 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ½ #/sk cello flake. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess should cover 100 ft above liner top. Total volume 100ft³. WOC 12 hours

IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement not circulated to surface..

B. PRESSURE TEST

1. Pressure test 7 5/8" & 5-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

- 1. Stimulate Dakota with approximately 70,000# of 20/40 sand in x-link foam.
- 2. Isolate Dakota with a RBP.
- 3. Stimulate Point Lookout with approximately 80,000# of 20/40 sand in slick water.
- 4. Isolate Point Lookout with a RBP.
- 5. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 6. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 7. Test each zone before removing bridge plugs.

D. RUNNING TUBING

- 1. <u>Dakota</u>: Run 2-1/16", 3.25#, J-55, IJ tubing with 1/2 mule shoe on bottom, SN with pump-out plug on top of adeem joint and 5 Seal Units. Land tubing approximately 100' below top Dakota perf.
- 2. <u>Mesa Verde:</u> Run 2-1/16", 2.9#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforations.

Sr. Drilling Engineer

larry Kigg =