ENT OF INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
reentry to a different reservoir Use "ARPLICATION"	5. Lease Designation and Serial No.
it for such proposals 2000 UNIV 14 AUT	6. If Indian, Allottee or Tribe Name
070 FARMINGT	7. If Unit or CA, Agreement Designation Cox Canyon
	8. Well Name and No. Cox Canyon #007B
	9. API Well No. 30-045-33022
	10. Field and Pool, or Exploratory Area BLANCO MV/BASIN DK
	11. County or Parish, State San Juan, New Mexico
TE BOX(s) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
ТҮРЕС	OF ACTION
Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Multiple zone completion	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
learly state all pertinent details, and give pertinent dates, in and measured and true vertical depths for all markers and	cluding estimated date of starting any proposed work. If well is zones pertinent to this work.)*
/Dakota dual as per attached	LAN 2006  CONS. ON.  LAN 2006  CONS. ON.  LAN 2006  L
	Survey Description) 250 FWL (bhl), Sec 17, T32N, R11W TE BOX(s) TO INDICATE NATURE OF NOTICE, REP  TYPE of Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Multiple zone completion

Conditions of approval, if any:

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.

Title

Title <u>Drilling C.O.M.</u>

14.

Signed

Approved 6

I hereby certify that the foregoing is true and correct

(This space for Federal or State office

Date January 9, 2006

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

Property Code

State of New Mexico Energy, Minerals & Natural Resources Department

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

Well Number

7B

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

OIL CONSERVATION DIVISION PO Box 2088

Santa Fe. NM 87504-2088

Property Name

COX CANYON UNIT

\*Pool Code

72319 / 71599

2006 JAN 11 AM 8 27 AMENDED REPORT

RECEIVED

Pool Name

BLANCO MESAVERDE / BASIN DAKOTA

# WELL LOCATION AND ACREAGE DEDICATION PLATED

,										L		
'OGRID	No.	*Operator Name						• 1	*Elevation			
12078	32			WILL	ĮAMS PRODU	CTION COMPA	.NY		6659			
L		L		***************************************	<sup>10</sup> Surface	Location	<del></del>			<u> </u>		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fe	et from the	East/We	est line	County	
С	17	32N	11W		1140	NORTH		1560	l WE	ST	SAN JUAN	
L		<u> </u>		16-7-1	L	<u> </u>						
UL or lot no.	Section	Township	Range	Hole L	ocation I	f Different North/South line		om Surf et from the		st line	County	
C	17	32N	11W	200 141	660	NORTH		1950	WE		SAN JUAN	
					<sup>34</sup> Consolidation Code	25 Orde	er No.			<u> </u>		
320.0 Acres - (E/2 W/2 & W/2 E/2)						NWU#162						
NO ALLOW	NABLE W	ILL BE A	ASSIGNE	TO TH	IS COMPLETI	ON UNTIL ALL	INT	ERESTS H	IAVE BE	EN CO	NSOLIDATED	
						EN APPROVED						
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			N38°04	.2'E 602	2.1'	1 1		Signature				
156	1560' SURFACE LOCATION						LARRY HERINS					
		H		<del></del>		<b> </b>		Printed	Name			
						! [		DR	ILLIA	15	COM	
							Title					
		LE	EASE	NM-C	13190	 		<u> </u>	9-0	7-06		
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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 #7B

**SURFACE:** 

BLM

**SURF LOCATION:** 

NENW Sec17-32N-11W

**BH LOCATION:** 

NENE Sec 16-31N-6W

**MINERALS:** 

BLM

**ELEVATION:** 

6,659' GR

San Juan, NM

LEASE#

NM-03190

MEASURED DEPTH: 8,185'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	TVD	MD	Name	TVD MD
Ojo Alamo	1,483	1,513	Cliff House	5,088 5,173
Kirtland	1,498	1,529	Menefee	5,253 5,338
Fruitland	2,828	2,913	Point Lookout	5,603 5,688
Pictured Cliffs	3,298	3,383	Mancos	5,913 5,998
Lewis	3,443	3,528	Gallup	6,973 7,075
Huerfanito Bentonite	3,978	4,063	Greenhorn	7,688 7,773
			Graneros	7,753 7,838
			Dakota	7,833 7,918
			Morrison	8,098 8,183
			TD	8.098 8.185

- **B.** MUD LOGGING PROGRAM: Mud logger on location from approximately 7,773' to TD.
- C. LOGGING PROGRAM: Cased Hole logs only.
- 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	<b>HOLE SIZE</b>	DEPTH (MD)	<b>CASING SIZE</b>	WT. & GRADE
Surface	14-3/4"	+/- 300'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-2,847'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 7,862'	5-1/2"	17.0# N-80
Production Liner	4-3/4"	+/-7,762' - 8,185'	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. <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: 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. <u>CEMENTING:</u>

#### (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% CaCl<sub>2</sub> + 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 455 sx (945) cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% CaCl<sub>2</sub> 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% CaCl<sub>2</sub> (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 = 1,084 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.). Tail Cement:  $125 cx(254 ct^3)$  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 513ft³. 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, ¼ #/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.

2 Sr. Drilling Engineer



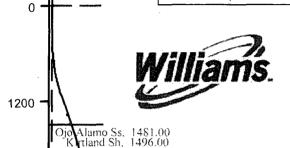
Sperry Drilling Services

# **Williams Production Company**

**DrillQuest** 

**New Mexico** San Juan County Sec. 17-T32N-R11W Cox Canyon Unit #7B Plan 010406

Plan 010406 Proposal Data									
	Measured Depth	Incl.	Azim.	Vertical Depth	Northings	Eastings	Vertical Section	Dogleg Rate	
	0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
Kick-Off Point	400.00	0.000	0.000	400.00	0.00 N	0.00 E	0.00	0.00	
Hold Angle	1151.20	18.780	39.094	1137.82	94.70 N	76.94 E	122.01	2.50	
Start Drop	2296.27	18.780	39.094	2221.93	380.80 N	309.40 E	490.65	0.00	
Drop to Vertical	2847.46	5.000	39.094	2760.00	468.73 N	380.84 E	603.94	2.50	
Hold Angle	3180.80	0.000	0.000	3092.91	480.01 N	390.01 E	618.48	1.50	
Total Depth	8185.89	0.000	0.000	8098.00	480.01 N	390.01 E	618.48	0.00	



# Cox Canyon Unit #7B Surface Location

RKB Elevation:

6671.00ft above Mean Sea Level

Ref. Structure:

1140.00 S, 1560.00 E

Ref. Global Coordinates: Ref. Geographical Coordinates:

2179376.14 N, 447024.14 E 36° 59' 21.0000" N, 108° 00' 53.0000" W

7" Int Cox Canyon 7B 2400 Point Target 2760.00 TVD. 479.98 N. 390.03 E Fruitland Im. 2826.00

Plan 010406 Bottom Hole Location 8098.00ft 1427.00ft

Ref. RKB(6659'+12'KB): Ref. Structure:

Ref. Wellhead:

480.01 N, 390.01 E (True North)

Ref. Global Coordinates:

7" Int Cox Canyon 7B

Ref. Geographical Coordinates:

2179855.40 N, 447415.06 E 36° 59' 25.7465" N, 108° 00' 48.1926" W

Vertical Depth Huerfanita Bentonite, 3976.00 4800 Hiff House Ss Trans,4831.00

Pictured Cuiffs Ss., 3296.00 Lewis Sh, 3441.00

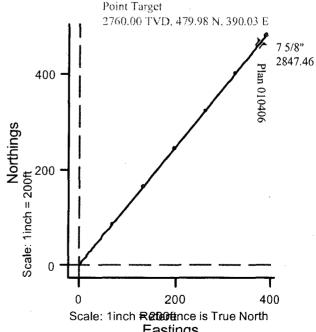
Cliff House Ss. 5086.00 Menefee Fm, 5251.00

Point Lookout Ss. 5601.00

5911.00 6000 . Mancos S JallupSs. 6971.00 Scale: 1inch = 1200ft 00078 00078

Greenhorn Ls. 7686.00 Graneros Sh. 7751.00 Dakota Ss. 7831.00 Morrison, 8096.00

Section Azimuth: 39.094° (True North)



Eastings

repared by: Dennis Cook

4 January, 2006 - 16:57

Checked

Approved