

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 12 2009

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

SUNDRY NOTICE AND REPORTS ON WELLS

Bureau of Land Management
Farmington Field Office

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use APPLICATION
TO DRILL" for permit for such proposals

Lease Designation and Serial No
NM-03189

6 If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

7 If Unit or CA, Agreement Designation
Cox Canyon **NMM- 77388A-MV**

1 Type of Well
Oil Well ☒ Gas Well ☐ Other ☐

8. Well Name and No.
Cox Canyon Unit #3C

2 Name of Operator
WILLIAMS PRODUCTION COMPANY

9. API Well No.
30-045-32864

3. Address and Telephone No.
PO BOX 640 Aztec, NM 87410-0640 632-4222

10 Field and Pool, or Exploratory Area
Blanco MV

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 180' FSL & 1745' FWL Sec. 9, T32N, R11W

11 County or Parish, State
San Juan, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

Subsequent Report

Final Abandonment

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

☒ Other Formation Change and
Casing Design Change

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.)

13. 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, plans to drill this well as a Mesaverde stand alone and has changed the casing design as per the attached Operations Plan. ✓

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

RCVD NOV 16 '09

OIL CONS. DIV.

DIST. 3

APD will expire 4/30/2010

14. I hereby certify that the foregoing is true and correct

Signed

Heather Riley

Title Regulatory Specialist

Date 11/12/09

(This space for Federal or State office use)

Approved by

Troy L. Salyers

Title

PE

Date

11/13/09

Conditions of approval, if any:

NMOCD

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.

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WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE: 11/12/09 **FIELD:** Blanco MV
WELL NAME: Cox Canyon Unit #3C **SURFACE:** BLM
BH LOCATION: SESW Sec 9-32N-11W **MINERALS:** Federal
San Juan, NM
ELEVATION: 6,625' GR **LEASE #** NM-03189 ✓
MEASURED DEPTH: 6,096'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Ojo Alamo	1,406	Huerfanito Bentonite	3,986
Kirtland	1,446	Cliff House	5,146
Fruitland	2,786	Menefee	5,231
Picture Cliffs	3,321	Point Lookout	5,596
Lewis	3,471	Mancos	5,921
		TD	6,096 ✓

B. MUD LOGGING PROGRAM: None

C. LOGGING PROGRAM: DIL from intermediate csg to TD, CNL/FDC over intervals of interest

D. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM: Use Water + Gel/Polymer sweeps to drill Surface hole. Convert to a LSLD - EZ-MUD system mud (+/-50 Vis.) to drill 8-3/4 in. Intermediate Hole. Increase vis to +/-60 to run Casing. **Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.** Use Air , Air Hammer and 6-1/4 in. Flat btm. bit to drill-out of 7 in. csg. and to TD well at +/- 6,096. (MD). **Run TOTCO Survey at TD.**

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:

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 2,736	7"	23# K-55
Prod. Liner	6-1/4"	+/- 2,636'-6,096'	4-1/2"	11.6# K-55

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) 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 CASING: 4-1/2" 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. SURFACE: Slurry: 120sx (215 cu.ft.) of "Type III" + 2% Cal-Seal 60 + ¼ # of poly-e-flake/sk + 0.3% Versaset + 2% Econolite + 6% Salt (Yield = 1.796 cu.ft./sk, Weight = 13.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi. - **30 min**
2. INTERMEDIATE: 20 bbl Water Spacer + Lead - 220 sx (601 cu.ft.) of of "EXTENDACEM" + 5 #/sk pheno-seal + 5% Cal-Seal 60 + 0.5% D-Air-3000 (Yield = 2.73 cu.ft./sk, Weight = 11.5 #/gal.). Tail - 100 sx (117.8cu.ft.) of Premium cement + 0.125 #/sk Poly-E-Flake, (Yield = 1.178 cu.ft./sk, Weight = 15.6#/gal.). **SHOULD CIRCULATE TO SURFACE** Total volume = 718.4 cu.ft. Bump Plug to 1,500 psi. **Test csg. to 1800 psi - 30 min**
3. PRODUCTION LINER: 20 bbl Gelled Water spacer. Cement: 355 sx (465 ft³) of "FRACCEM" +0.4% Halad-9 +2.5 lb/sk Kol-Seal + 0.05% HR-5 + 0.3% D-AIR 3000 + 0.4% Halad-413. (Yield = 1.31 ft³/sk, Weight = 13.5 #/gal.). Displace cement at a minimum of 8 BPM. **SHOULD COVER 150 FEET INTO 7" CASING** Total volume (465) ft³. 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 is not circulated to surface. ✓

B. PRESSURE TEST

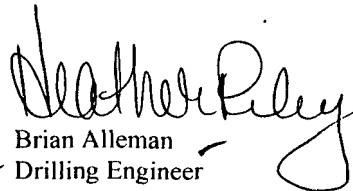
1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

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

D. RUNNING TUBING

1. Mesa Verde: Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.

for 
Brian Alleman
Drilling Engineer