

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use
"APPLICATION FOR PERMIT--" for such proposals

5. Lease Designation and Serial No.
NM 03189
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

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

2. Name of Operator
NORTHWEST PIPELINE CORPORATION

3. Address and Telephone No.
PO BOX 58900 MS 2M3, SALT LAKE CITY, UTAH 84158-0900 (801) 584-6879

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
990' FNL & 990' FEL, SEC 21, T32N, R11W

7. If Unit or CA, Agreement Designation

8. Well Name and No.
COX CANYON UNIT #4

9. API Well No.
30-045-11368

10. Field and Pool, or Exploratory Area
BLANCO MESAVERDE

11. County or Parish, State
SAN JUAN, NEW MEXICO

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment
- ☒ Recompletion
- ☐ Plugging Back
- ☐ Casing Repair
- ☐ Altering Casing
- ☐ Other _____

- ☐ 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.)*

Estimated start date of work March 20, 1995

It is proposed to recomplete additional pay in the Mesaverde formation.

See attached procedure.



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

Signed STERG KATIRGIS *[Signature]*

Title SR. ENGINEER

Date March 3, 1995

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

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.

*See Instruction on Reverse Side

NMCCD

APPROVED

MAR 07 1995

WATER MANAGER

2-28-95

RECOMPLETION PROCEDURE
Cox Canyon Unit #4

PURPOSE: To perforate and fracture stimulate the upper Cliff House member of the Mesaverde formation.

1. Notify BLM 24 hours prior to work.
2. Set frac tanks, blow tank and dig pit. Install rig anchors as needed. Move and set compressor.
3. MIRUSU.
4. Kill tubing with water only if necessary. ND wellhead and NU BOP. Repair tubing head as needed. Install seals and injection ports if needed.
5. RIH to bottom perf with tubing and tag fill if any. TOH with 2-3/8" tubing and visually inspect. Replace any bad joints.
6. On wireline set drillable BP at 5050'.
7. Pressure test casing and BP to 1600 psi. Slowly increase pressure to 2000 psi and hold for 30 minutes. Repair if necessary.
8. On wireline run CBL-CCL across upper Cliff House from BP to 4700'. Squeeze as necessary. Review log and procedure with engineering.
9. On wireline run neutron log (Blue Jet GSL through PND-S software) from BP to 4700'.
10. Spot 500 gals 7-1/2% HCl acid across interval to be perforated, from 5020'-4770'.
11. Perforations and stimulation will be based on neutron log above.

Plan to stimulate the upper Cliff House limited entry, .38" diameter holes, with 80,000 lbs 20/40 sand in slick water.

Rates during frac job will depend on number of perforations and will be designed for 2 BPM/Perforation or approximately 50 BPM and 2000 psi max treating pressure.

6 tanks on location per frac job.
12. Establish an injection rate and shut down for ISIP.
13. Breakdown and balloff perforations with 1200 gals 15% HCl acid and 50% excess RCN ball sealers. Do not exceed 2000 psi.
14. RIH with wireline junk basket and retrieve or knock off balls.

15. Fracture stimulate well. Flush to top perforation. DO NOT OVERFLUSH. Shut in and record ISDP and 15 minute ISDP.
16. Shut well in for 1 hour. TIH w/ tubing, and notched collar and cleanout sand to BP w/ gas. Obtain pitot tube gauge when possible. TOH. TIH with 2-3/8" tubing and 4-1/4" mill (or retrieving head and retrieve RBP), drill up BP and push to PBTD. Obtain pitot tube gauge when clean.
17. TOH when well has cleaned up.
18. TIH w/ 2-3/8", J-55, 4.7#, 8rd, EUE tubing w/ notched collar on bottom and SN 1 joint up. Clean out to PBTD'. Land tubing at $\pm 5707'$. Pump out plug if used and reverse circulate well clean. Obtain pitot tube gauge.
19. ND BOP and NU wellhead. Shut well in for buildup.
20. Cleanup location and release rig. Fill in pit.
21. Return well to production.


Stergie Katirgis
Sr. Engineer

WELLBORE DIAGRAM
COX CANYON #4
 NE/4 NE/4 SEC 21, 32N, 11W
 San Juan County, NM

COX CANYON #4
 COX CANYON #4

990'FNL & 990'FEL
 21 32N 11W
 San Juan County, NM
 Elevation: 6535' GL

Ojo Alamo	2153
Kirtland	2778
Fruitland	3260
Pictured Cliffs	3442
Lewis	5060
Cliff House Trans.	4770
Cliff House	5064
Menefee	5162
Point Lookout	5512

PBTD=5717'

9-5/8" H-40, 8RD @203'
 Cmt w/ 125 sx
 TOC @ surface (circ)
 12-1/4" hole

7" 20#, J-55 @ 3460'
 Cmt W/ 200 sx
 TOC @ 2282' (calc)
 8-3/4" hole

186 jts 2-3/8", 4.7#, J-55, 8rd, EUE
 5697' set @ 5707'
 3' perfor nipple on botm

top per 5072'

Mesaverde

bottom perf 5716

5" 11.5#, J-55, 8rd, @ 5719'
 Cmt w/ 150 sx
 TOC @ 3988' (calc)
 6-1/4" hole

DATA SHEET

WELLNAME: Cox Canyon Unit #4 **FIELD:** Blanco Mesaverde
LOCATION: NE/4 NE/4 SEC. 21, T32N, R11W **ELEVATION:** 6535' GR KB: 12'
COUNTY: San Juan **State:** NM **TD:** 5719' KB

FORMATION TOPS:	Ojo Alamo	2153'	Cliff House Trans.	4770'
	Kirtland	2778'	Cliff House	5064'
	Fruitland	3260'	Menefee	5162'
	Pictured Cliffs	3442'	Point Lookout	5512'
	Lewis	5060'		

I.D.DATE: 10-28-56

CASING RECORD:

<u>CASING</u>	<u>SIZE</u>	<u>WT. & GRADE</u>	<u>DEPTH SET</u>	<u>CEMENT</u>	<u>TOC</u>
SURFACE	9-5/8"	32.3# H-40	203'	125 SX	surface
INTERMEDIATE	7"	20# J-55	3460'	200 SX	2282'(calc)
PRODUCTION	5"	11.5# J-55	5719'	150 SX	3988'(calc)

WELLHEAD EQUIPMENT: Casinghead: 10" 600 OCT C-20 Tubinghead: 10" 600 x 6" 600 OCT T-16
 Spool: 10" 600 x 10" 600 OCT C-20 Bonnet:

TUBING EQUIPMENT: 186 JTS. (5697') 2-3/8" 4.7# J-55 EUE W/ 3' perfed nipple on bottom.
Landed @ 5707' KB.

LOGGING RECORD: GR, Radioactivity

STIMULATION: 5642'-5716' Frac w/ 50,400 gals water
 5516'-5612' Frac w/ 46,200 gals water
 5202'-5480' Frac w/ 54,000 gals water
 5104'-5072' frac w/ 50,400 gals water

PRODUCTION HISTORY: Cumulative production: 5374 MMCF Current production: 230 MCFD