

In Lieu of
Form 3160-5
(June 1990)

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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. 14080014704 NM-010910
2. Name of Operator NORTHWEST PIPELINE CORPORATION	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO BOX 58900 MS 2M3, SALT LAKE CITY, UTAH 84158-0900 (801) 584-68795	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 790' FNL & 990' FEL, SEC 19, T32N, R11W	8. Well Name and No. NEW MEXICO 32-11 #2
	9. API Well No. 30-045-11380
	10. Field and Pool, or Exploratory Area IGNACIO 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	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 25, 1994

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

See attached procedure.

RECEIVED
MAR 20 1995
OIL CON. DIV.
DIST. 3

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Signed STERG KATIRGIS

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

APPROVED

MAR 14 1995

DISTRICT MANAGER

NMOCD

3-2-95

RECOMPLETION PROCEDURE
N.M. 32-11 COM #2

PURPOSE: To recomplete the upper Cliff House member of the Mesaverde formation.

1. Notify BLM 24 hours prior to work.
2. Set 8 frac tanks, blow tank and dig circulation pit. Install rig anchors as needed. Set up drill gas and compressor.
3. MIRUSU.
4. Blow down well. Kill tubing with 2% KCl water only if necessary. ND wellhead and NU BOP.
Order out 2-3/8" tubing string (5680').
5. Repair wellhead as necessary.
6. TOH with 1-1/4" tubing laying down. Visually inspect and replace any bad joints.
7. TIH with retrievable BP on 2-3/8" tubing and set BP at 4995'. Drop 10' sand on top of BP. Pressure test BP and casing to 2000 psi. TOH. TOH.
8. On wireline run CBL-CCL across upper Cliff House from BP to 4700'. Review log with engineering. Squeeze with cement if necessary.
9. On wireline run cased hole neutron log, Blue Jet GSL log (run through PND-S software) from BP to 4700'. Review logs with engineering and pick perfs.
10. Spot 300 gals 7-1/2% HCl acid across interval to be perforated from 4930'-4780'. Acid to contain 1 gal/100 gals surfactant and corrosion inhibitor (12 hour inhibition @ 130° F)
11. The following perf and stimulation schedule is based on Welex Radioactivity log of 4-19-58. Number of holes and depths may change after running cased hole logs above.

*Plan to stimulate the upper Cliff House in 1 stage limited entry, w/ 80,000# 20/40 sand in slick water down 5-1/2" casing. Filter frac water down to 25 microns and add 1% KCl.

*Rates during frac job will depend on number of perforations and will be designed for 2 BPM/Perforation and 2000 psi max treating pressure.
12. Perforate the upper Cliff House formation in 5" casing w/ 18 0.38" holes using a 3-1/8" select fire casing gun from top down at the following depths; 4781, 4785, 4816, 4817, 4826, 4829, 4835, 4849, 4864, 4869, 4876, 4880, 4893, 4897, 4909, 4920, 4922, 4929.
13. Establish an injection rate and shut down for ISIP.


14. Breakdown and balloff perforations with 900 gals 15% HCl acid and 50% excess RCN ball sealers. Do not exceed 2000 psi STP.
Acid to contain 1 gal/1000 gals surfactant and corrosion inhibitor (12 hour inhibition @ 130° F).
15. RIH with wireline junk basket and retrieve or knock off balls.
16. Rig up pump trucks and fracture stimulate the upper Cliff House with 80,000# 20/40 Brady sand at 36 BPM injection rate down 5-1/2" casing as follows.
DO NOT OVERFLUSH. Shut in and record 15 minute ISDP. MIP=2000 psi and MIR=36 BPM.

<u>STAGE</u>	<u>FLUID</u>	<u>SAND</u>
Pad	20,000 gals	-
0.5 ppg	20,000 gals	10,000#
1.0 ppg	30,000 gals	30,000#
1.5 ppg	20,000 gals	30,000#
2.0 ppg	5,000 gals	10,000#
Flush	4,770 gals	-
	<u>99,770 gals</u>	<u>80,000# 20/40 Brady sd</u>

Required amount of usable water = 99,770 gals (2375 bbls), 7-400 bbl tanks plus breakdown

All frac fluid to contain 0.5 gal/1000 gal FR-30 friction reducer, and 1 gal/1000 gal surfactant (Aquaflo) and 1% KCl.

17. 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 retrieving head. Retrieve BP and TOH.
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 minimum 5700'. Land tubing at ±5680'. Pump out plug if used and reverse circulate 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. Notify Production and get well back on production ASAP.


Stergie Katirgis
Sr. Engineer

DATA SHEET

WELLNAME: N.M. 32-11 Com #2 FIELD: Blanco Mesaverde
LOCATION: NE/4 NE/4 SEC. 19, T32N, R11W ELEVATION: 6610 GR KB: 10'
COUNTY: San Juan State: NM TD: 5720' KB

FORMATION TOPS: Ojo Alamo Cliff House Trans. 4780'
Kirtland 1993' Cliff House 5014'
Fruitland 3164'? Menefee 5118'
Pictured Cliffs 3370' Point Lookout 5520'
Lewis 3580'

I.D.DATE: 7-58

CASING RECORD:

<u>CASING</u>	<u>SIZE</u>	<u>WT. & GRADE</u>	<u>DEPTH SET</u>	<u>CEMENT</u>	<u>TOC</u>
SURFACE	10-3/4"	32.75# H-40	257'	300 SX	surface
PRODUCTION	7-5/8"	26.4# J-55	3505'	200 SX	
LINER	5-1/2"	15.5# J-55	5720	200 SX	3940'(TS)

WELLHEAD EQUIPMENT: Casinghead: 10" 600 Shaffer Tubinghead: 10" 600 x 6" 600 Schaffer
Bonnet: 6" 600 Schaffer

TUBING EQUIPMENT: 175 JTS. 1-1/4" 2.3# J-55 10rd NUE & 5 JTS 1-1/4" EUE on top. 2' perfed nipple on bottom.
Landed @ 5676' KB.

LOGGING RECORD: GR, Radioactivity

STIMULATION: 5682'-5016' frac w/ 149,000 gals water and 240 balls

PRODUCTION HISTORY: Cumulative production: 2810 MMCF Current production: 125 MCFD

WELLBORE DIAGRAM NEW MEXICO 32-11 COM #2

NE/4NE/4 19-32N-11W
San Juan County, NM

10-3/4" 32.75", H-40 @ 257
13-3/4" Hole
Cmt w/ 300 sx

Elevation 6610'

Ojo Alamo
Kirtland 1993
Fruitland 3164
Pictured Cliffs 3370
Lewis 3580
CH Trans. 4780
Cliff House 5014
Menefee 5118
Point Lookout 5520

10-3/4" 32.75", H-40 @ 257
13-3/4" Hole
Cmt w/ 300 sx

TOL @ 3420'

7-5/8" 26.4#, J-55 @ 3505'
9-7/8" Hole
Cmt w. 200 sx

175 jts 1-1/4", 2.3#, 10rd, NUE
& 5 jts 1-1/4" 2.4# 10rd EUE
on top. 2' perf nipple on bottom
Landed @ 5676'.

5016' top perf

Mesaverde

5682' bottom perf

5-1/2" 15.5#, J-55 @ 5720'
6-3/4" Hole
Cmt w. 200 sx
TOC @ 3940 (temp survey)

PBTD=5715'