

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. NM-010909
2. Name of Operator NORTHWEST PIPELINE CORP. C/O WILLIAMS PRODUCTION CO.	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P. O. BOX 58900 MS 10317 SALT LAKE CITY, UTAH 84158-0900	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 950' FSL & 1600' FEL SEC. 20, T32N, R11W	8. Well Name and No. NM 32-11 COM #1
	9. API Well No. 30-045-11309
	10. Field and Pool, or Exploratory Area BLANCO MESAVERDE
	11. County or Parish, State SAN JUAN COUNTY, NM.

**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 checked="" 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.)\*

Estimate start date: April 1, 1994.

See attached procedure.

RECEIVED  
FEB 24 1994  
OIL CON. DIV.  
DIST. 3

RECEIVED  
BLM  
94 FEB 14 PM 2:44  
070 FARMINGTON, NM

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

Signed

*Kathy Barney*  
KATHY BARNEY

Title

SR. OFFICE ASSISTANT

Date

02/07/94

(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  
FEB 17 1994  
DISTRICT MANAGER

NMOCD

SIDETRACK PROCEDURE  
New Mexico 32-11 Com #1

1. "NOTIFY BLM and NMOC D 24 HOURS PRIOR TO WORK".
2. Locate and test anchors. Set new anchors if necessary. Set blow tank. Dig circulation pit.
3. MIRUSU.
4. Blow down well. Kill tubing with water if necessary. ND wellhead and NU 6" BOP. Test BOP.
5. Pull tubing hanger and TOH with 2-3/4" tubing. Visually inspect and replace any bad joints. Be prepared to run freepoint and fish stuck tubing to below 7" casing shoe in open hole.
6. TIH with 2-3/8" work string with 4-1/4" bit and clean out to TD. If fish is in hole review procedure with BLM and engineering. If fill is encountered attempt to circulate out with gas.

P & A MV AS PER CONDITIONS ENCOUNTERED

7. On tubing set 7" cement retainer at 4878'. Roll hole with fresh water. Pressure test tubing to 3000 psi.
  8. Establish circulation below retainer with water. Pump Class "B" cement with silica flour and lost circulation additives below retainer. Volume will be dictated by the hole conditions. Calculate volume from retainer to TD or fill or fish plus 20%. Displace to retainer. Pull out of retainer and spot 50' cement plug on retainer. Reverse out at least one hole volume.
  9. Pressure test casing to 1000 psi maximum. TOH. Squeeze any casing leaks.
  10. On wireline run CBL/CCL from cement retainer to TOC plus 300'. Squeeze existing 7" as needed. See Cement Squeeze Procedure.
  11. Install casing spool.
- CEMENT SQUEEZE
12. If pressure test holds, with wireline shoot 3 cement circulation holes +/- 30' above TOC.
  13. TIH with tubing and packer. Set packer +/-100' above squeeze holes. Establish circulation up bradenhead. Continue circulation to surface with water until clear.
  14. Circulate to Bradenhead at surface with 65/35/6 cement to contain Celloflake LCM and tail in with 100 sx class "B" neat. Calculate cement volume using 100% excess. Do not exceed 1,000 psig pump pressure. Hesitate in with last few sacks.  
  
\* If cement is not circulated to surface run CBL from squeeze holes to TOC after cleanout and review with BLM.
  15. Hold pressure for 1 hour.

16. Release packer and reverse circulate out any cement. Shut well in overnight with pressure.
17. Pick up 6-1/4" drill bit on tubing and cleanout 7" casing to 4828'. Pressure test squeeze holes to 800 psig. TOH. Resqueeze as necessary.

#### SIDETRACK

##### Objective

KICK OFF ±200' ABOVE CLIFF HOUSE TRANSITION ZONE @ 4878' INSIDE 7" CASING.

DRILL TO TD = 6000'

RUN OPEN HOLE LOGS DIL, CNL, FDC, GR, TEMP

LAND 4-1/2" CASING FROM SURFACE TO TD

18. On wireline set CIBP at kickoff depth just above a casing collar at a point with good cement bond.
19. Pick up Whipstock(anchorstock) slide assembly and TIH with 3-1/2" DP, 4-3/4" Drill Collars and one joint high grade drill pipe below drill collars. Refer to manufacturer's specs for all recommended milling weights, number of drill collars and RPM.  
Tool length=16 1/2", Anchorstock whip=8' length, 3° whip face angle
20. Set bottom of slide assembly at ±4675' by applying pressure down drill string. Approximately 3500 psi. May need pump truck.
21. Shear off from slide assembly. Approximately 45,000 psi over drag weight. Begin milling with starter mill.  
  
Mill as per manufacturer's recommended procedure. Circulate with water.
  - a. Run starter mill with joint of high grade drill pipe, S-135, below drill collars. Drill approx. 16".
  - b. Run window mill with joint of drill pipe below drill collars. Mill length of whip face plus 10' into formation.
  - c. Run window mill and watermellon mill on drill collars. Make several passes through window to clean up burrs. Ream until smooth with no drag.
22. Displace water with gas. Take deviation surveys until 5°-6° is reached. TOH.
23. Do not rotate a bit or stabalizer down the whip face.
24. TIH with 6-1/4" bit, near bit stabalizer and drill collars. Drill enough hole depth to pass the packed BHA through window. TOH.
25. TIH with 6-1/4" bit and packed bottom hole assembly (stiff) on DP to maintain deviation. Displace water with gas. Continue normal drilling operations to TD of 6000' taking frequent surveys. TOH.
26. Run the following open hole wireline logs from TD-7" casing;  
DIL,FDC,SNL,GR
27. Blow wellbore clean and check for fill. TOH.  
LDDP and collars.
28. Change over to 4-1/2". Install 4-1/2" stripping head.

29. Run and configure casing as follows in 6-1/4" hole. Threadlock all connections?

4-1/2", J-55, 10.5# (or 11.6# if in stock), ST&C casing from surface to TD=6000'.  
w/ 4-1/2" guide shoe on bottom  
40' shoe joint above guide shoe  
float valve  
4-1/2" casing to surface  
No centralizers

30. Break circulation with gas on last joint in hole and wash to bottom. Blow wellbore until clean.
31. Pump 20 bbls gel water followed by 10 bbls fresh water. Cement long string as follows using 65% excess;
- LEAD: 60 sx 65/35 class "B" Pozmix with 6% gel, 2% CaCl<sub>2</sub>, 3pps Gilsonite and 1/4pps Celloflakes  
yield= 1.77 ft<sup>3</sup>/sk
- TAIL: 112 sx class "B" with 2% CaCl<sub>2</sub>  
yield= 1.18 ft<sup>3</sup>/sk
32. Bump plug and pressure to 1000 psi. ND BOP. Cut off casing . Leave enough 4-1/2" stub to seal in tbg spool.
33. ND BOP. Land casing with 50,000 psi and cut off.
34. NU new 4-1/2" spool. Test to 2000 psi. NU BOP.

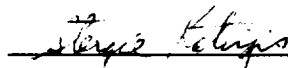
#### Completion

Plan on three slick water fracs in the Cliff House, Menefee and Point Lookout down 4-1/2" casing.

Cleanup well after frac and obtain gauges when possible.

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 TD. Land tubing near bottom perf. Pump out plug if used and reverse circulate clean. Obtain pitot tube gauge.

24. ND BOP and NU wellhead. Shut well in for buildup.
25. Cleanup location and release rig.

  
Stergie Katirgis  
Sr. Production Engineer

PERTINENT DATA SHEET

WELLNAME: New Mexico 32-11 #1                      FIELD: Blanco Mesaverde

LOCATION: 960'FSL,1600'FEL,Section 20,T32N,R11W    ELEVATION: 6694' GR, TD: 6008'  
10'KB    PBTD: 6008'

COUNTY: San Juan                      STATE: New Mexico

DATE COMPLETED: 7-53                      ID DATE: 11-3-54

CASING TYPE	CASING SIZE	HOLE SIZE	WEIGHT & GRADE	DEPTH	CEMENT	TOP
Surface	10-3/4"			527'	175 sx	Surface
Production	7"		23#,J-55	5006'	300 sx	

TUBING EQUIPMENT

2-3/8#, 4.7#, J-55, EUE, 8RD tubing landed @ 5861' KB.

WELLHEAD:                      Casing Head - 10" 600 Rector  
Tubing Head - 10" 600 x 6" 600 Rector    Bonnet - 6" 600 Rector

FORMATION TOPS:

Ojo Alamo	Cliff House	4970'
Kirtland	Menefee	5277'
Fruitland	Point Lookout	5630'
Pictured Cliffs		
Lewis		
Cliff House Transition		4878'

LOGGING RECORD:                      GR, Electric

PERFORATIONS:                      Open hole 5006' - 6008'

STIMULATION:                      2380 quarts SNG

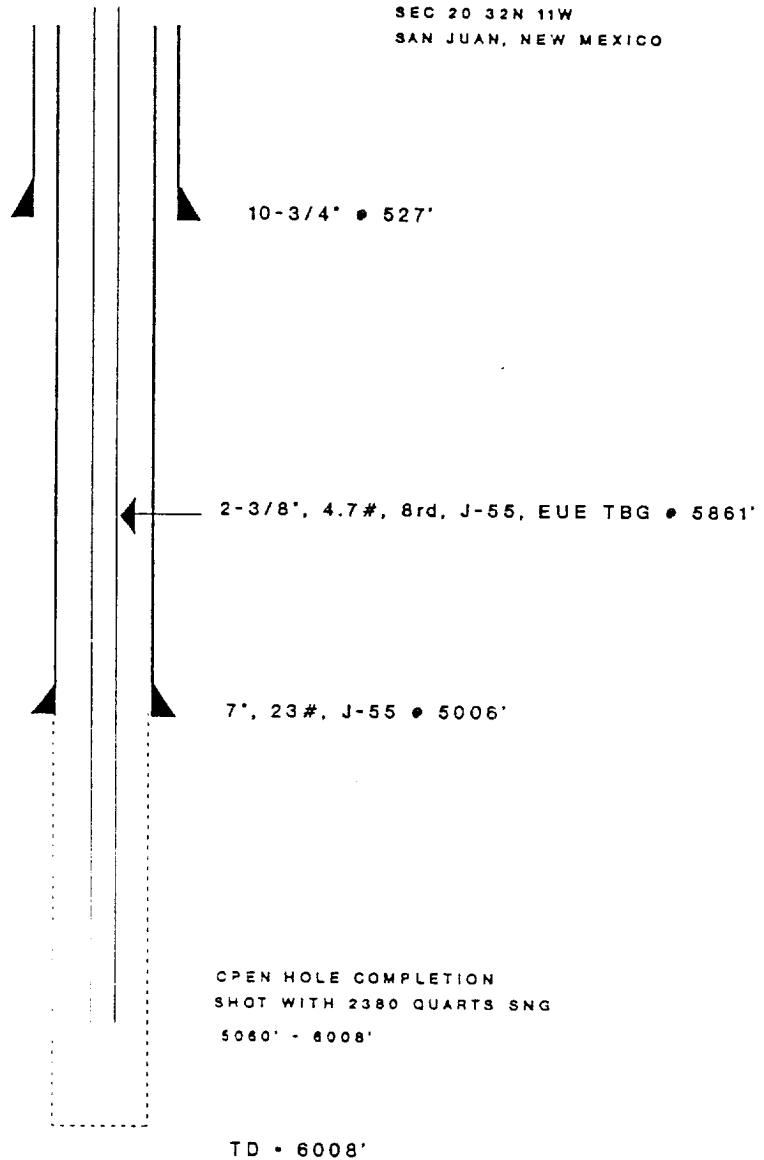
PRODUCTION HISTORY:    IP Test = 8200 MCFD. CAOF= . Remaining reserves = 460 MMCF. Cumulative = 2267 MMCF.  
Current production = 77 MCFD (1993 average).

# WELLBORE SCHEMATIC

BOX 1-18-94

N.M. 32-11 COM #1

960 FSL & 1800 FEL  
SEC 20 32N 11W  
SAN JUAN, NEW MEXICO



CASING	SIZE	HOLE SIZE	CEMENT	CEMENT VOLUME	CEMENT TOP
SURFACE	10-3/4"		175 SX		
PRODUCTION	7"		300 SX		SURFACE