

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. SF-078766
2. Name of Operator NORTHWEST PIPELINE CORP.	6. If Indian, Allottee or Tribe Name 110:20
3. Address and Telephone No. PO BOX 58900 MS 2M3 SLC UTAH 84158-0900 (801)584-6981	7. If Unit or CA, Agreement Designation 211 1001
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1679' FNL 1835' FEL SEC. 16, T31N, R6W	8. Well Name and No. ROSA UNIT #145
	9. API Well No. 30-045-29166
	10. Field and Pool, or Exploratory Area PICTURED CLIFFS/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 type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>COMPLETION OPERATIONS</u>
	<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.)*

10-04-94

Clean out to 5938'. Attempt to pressure test casing. Established rate of 2.4 BPM at 1000#. TOH. PU 4-1/2" packer and set at 3501'. Pressure test 4-1/2" liner to 3300# - OK. Test liner top - taking 2.4 BPM at 1000#. TOH. PU 7" packer and set at 3420'. Pressure test liner top - taking 2.2 BPM at 1250#. Pressure test 7" casing to 2000# - held OK. Release packer and SI well.

10-05-94

POH and set packer at 3265'. RU Western and established an injection rate of 2.5 BPM at 1500#. Squeezed with 100 sx (118 cu.ft.) of CI "B" cement with 2% CaCl₂. Tailed with 100 sx (118 cu.ft.) of CI "B" neat cement. Displaced cement below packer and hesitate squeeze. Final squeeze pressure was 2100# and holding steady at 2000#.

CONTINUED ON PAGE 2

RECEIVED
OCT 31 1994

OIL CON. DIV.
DIST. 3

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

Signed MARK MCCALLISTER *Mark McCallister* Title SR. ENGINEER Date 10/25/94

(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

OCT 27 1994

FARMINGTON DISTRICT OFFICE

NMOCO

3Y *Smm*

10-06-94

Drill cement from 3458' to 3465'. Pressure test casing to 3300# - held OK. Perforated Point Lookout at following depths: 5627', 5630', 5633', 5636', 5639', 5642', 5645', 5648', 5651', 5657', 5660', 5663', 5666', 5669', 5683', 5686', 5689', 5692', 5697', 5699', 5707', 5709', 5712', 5715', 5718', 5721', 5734', 5736', 5738', 5750', 5753', 5756', 5767', 5798', 5817', 5840', 5843', 5846', 5849', 5869', 5872', and 5875'. Total of 42 (0.36" dia.) holes.

10-07-94

Stimulated Point Lookout with slick water, followed by 78,500# of 20/40 sand at 1 - 2 ppg. Job completed at 1000 hrs 10/6/94. ISIP = 1250#, 2 min. = 0#. ATP = 1650#, AIR = 57 BPM, MTP = 2800#, MIR = 60 BPM. Total fluid = 2113 bbls. Set CIBP at 5625'. Pressure tested plug and casing to 3300# - OK. Perforated Menefee/ Cliffhouse at 5363', 5366', 5368', 5371', 5373', 5401', 5407', 5409', 5411', 5413', 5416', 5418', 5420', 5422', 5424', 5426', 5428', 5430', 5432', 5454', 5473', 5496', 5507', 5526', 5528', 5530', 5532', 5543', 5579', 5581', 5603', and 5621'. Total of 32 (0.36" dia.) holes. Stimulated Cliff House/Menefee with 66,000# of 20/40 sand at 1 - 2 ppg. Job completed at 1900 hrs 10/6/94. ISIP = 1000#, 5 min. = 500#, 10 min = 300#, 15 min. = 250#. ATP = 2300#, AIR = 60 BPM, MTP = 3000#, MIR = 62 BPM. Total fluid = 1983 bbls.

10-08-94

Petro set RBP at 3340'. Pressure tested RBP to 3300# - OK. Perforated PC at 3160' - 3168' (5 holes), 3175' - 3201' (14 holes), 3213' - 3243' (16 holes), 3247' - 3255' (5 holes). Total of 40 holes (0.36" dia.) shot at 1 shot/2'. Stimulated PC with 10,920 gal. pad of 70 quality foam followed by 115,000# of 20/40 sand at 1 - 5 ppg. Job completed at 1800 hrs 10/7/94. ISIP = 1230#. AIR = 31 BPM, ATP = 2900#, MIR = 32.8 BPM, MTP = 3240#. Used 544,000 scf of nitrogen and 390 bbls of 30# borate crosslinked gel.

10-15-94

RU wireline and set an Arrowdrill production packer at 4000'.

Mesa Verde tubing: Ran 184 jts. (5869') of 1-1/2", 2.9#, J-55, EUE 10rd tubing as follows: 1/2 mule shoe on bottom, SN (1.375" ID @ 5847') on top of bottom jt., 58 jts of tail pipe, 3 unit seal assembly, 124 jts of tubing, 1 (1.80") 2-1/16" 3.25# J-55 IJ 10rd pup and one full jt below tbgr. hanger. Landed @ 5880' KB with 4500# on packer and 11,000# on the hanger.

Pictured Cliffs tubing: Ran 101 jts (3240') of 1-1/2", 2.9#, J-55, EUE 10 rd as follows: Orange peeled perf nipple (5.40') on bottom, SN (1.375"ID @ 3217') on top of bottom jt., 100 jts of tubing. Landed @ 3251' KB.

Rig released @ 1800 hours 10-14-94.