

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <u>Not Complete</u>
2. NAME OF OPERATOR Northwest Pipeline Corporation						5. LEASE DESIGNATION AND SERIAL NO. Contract #61	
3. ADDRESS OF OPERATOR P.O. Box 90, Farmington, New Mexico 87401						6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1650' FSL & 990' FWL At top prod. interval reported below Same as above At total depth Same as above						7. UNIT AGREEMENT NAME	
14. PERMIT NO. U. S. GEOLOGICAL SURVEY API 30-039-21468 FARMINGTON, N. M.						8. FARM OR LEASE NAME Indian I	
15. DATE SPUDDED 9-27-77						9. WELL NO. #2	
16. DATE T.D. REACHED 10-9-77						10. FIELD AND POOL, OR WILDCAT Gavilan Picutred Cliffs	
17. DATE COMPL. (Ready to prod.) 6-17-80 Not completed						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 35 T28N R3W	
18. ELEVATIONS (DT, RSB, BT, GR, ETC.)* 6982' GR						12. COUNTY OR PARISH Rio Arriba	
19. ELEV. CASINGHEAD						13. STATE New Mexico	
20. TOTAL DEPTH, MD & TVD 3896'		21. PLUG, BACK T.D., MD & TVD 3883'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ALL	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Pictured Cliffs Top 3597'						25. WAS DIRECTIONAL SURVEY MADE NO	
26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Density, Induction, Gamma Ray CCL						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)						29. LINER RECORD	
Casing Size		Weight, lb./ft.	Depth Set (MD)	Hole Size	Cementing Record	Amount Pulled	
8-5/8"	24#	139'	12-1/4"	90 Sx			
2-7/8"	6.4#	3893'	6-3/4"	160 Sx			
30. TUBING RECORD				31. PERFORATION RECORD (Interval, size and number)			
Size	Top (MD)	Bottom (MD)	Sacks Cement*	Screen (MD)	3604' - 3792' Total 14 holes		
1-1/4"					32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
Depth Interval (MD)		Amount and Kind of Material Used					
3604' - 3792'		Fraced with 40,000# 10/20 sand @ 1 ppg BD @ 2600#, AIR- 28 BPM - MIR 28 BPM, AIP 3400# MIP 4000#, ISIP 400#					
33. PRODUCTION						34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
Date First Production 5-17-80		Production Method (Flowing, gas lift, pumping—size and type of pump) FLU				Well Status (Producing or shut-in) GSI	
Date of Test 6-17-80	Hours Tested	Choke Size	Prod'n. for Test Period	Oil—BBL. 0	Gas—MCF. 20 MCFD	Water—BBL. 20 BWPD	Gas-Oil Ratio
Flow. Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil—BBL.	Gas—MCF.	Water—BBL.	Oil Gravity-API (CORR.)	
35. LIST OF ATTACHMENTS Vented during tests, shut-in						TEST WITNESSED BY S. Katergis	

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all

SIGNED

P. M. Pippin

TITLE Sr. Prod. Engineer

DATE Aug 27, 1980

SEP 17 1980

*(See Instructions and Spaces for Additional Data on Reverse Side)

FARMINGTON DISTRICT

BY

NMOCC

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33 below regarding separate reports for separate completions.

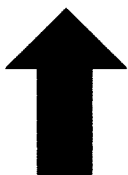
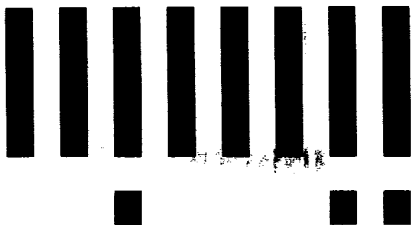
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Pictured Cliffs	3597'		SS, lt gry, fm-med gr s&p ws & r, sl calc.	Pictured Cliffs	3597'	



LTR



Job separation sheet

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Northwest Pipeline Corporation

3. ADDRESS OF OPERATOR
P.O. Box 90, Farmington, N.M. 87499

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1650 FSL & 990 FWL NW/SW
AT TOP PROD. INTERVAL: 1650 FSL & 990 FWL
AT TOTAL DEPTH: 1650 FSL & 990 FWL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Location Clean Up

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
Contract #61

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Indian I

9. WELL NO.
#2

10. FIELD OR WILDCAT NAME
Gavilan Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 35, T28N, R3W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
N.M.

14. API NO.
30-039-21468

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6982' GR

17. 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.)*

Location clean up and reseeding completed on 9-6-83

RECEIVED
OCT-9-1983
CON. DIV.
DIST. 3

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Donna J. Brace TITLE Production Clerk DATE 9-20-83
Donna J. Brace

*(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY

B
djb/

*See Instructions on Reverse Side

NMOC

ACCEPTED FOR RECORD

OCT 05 1983

FARMINGTON RESOURCE AREA
6. 10/11



LTR



Job separation sheet

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Contract #61	
2. NAME OF OPERATOR Williams Production Company NWP Northwest Pipeline Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
3. ADDRESS OF OPERATOR 300 W. Arrington, Suite 020, Farmington, NM 87401		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1650' FSL & 990' FWL		8. FARM OR LEASE NAME Indian I	
14. PERMIT NO. API 30-039-21468		9. WELL NO. #2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6982' GR		10. FIELD AND POOL, OR WILDCAT Gavilan PC	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 35, T28N, R3W	
		12. COUNTY OR PARISH Rio Arriba	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. 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 plans to P&A the subject well as per the attached procedure.

RECEIVED

NOV 20 1991

OIL CON. DIV. I
DIST. 3

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

SIGNED Mike J. Purnbaugh

TITLE Production Superintendent

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

*See Instructions on Reverse Side

NMCOO

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.

APPROVED

DATE 11-12-91

DATE NOV 18 1991

AREA MANAGER
FARMINGTON RESOURCE AREA

WELL DATA SHEET

WELLNAME: Indian I #2 PC

FIELD: Choza Mesa Pictured Cliffs

LOCATION: NW/4 SW/4 Sec. 35, T28N R03W

ELEVATION: 6982'GR KB = 11'

COUNTY: Rio Arriba

STATE: New Mexico

TOTAL DEPTH: 3893' PBTD: 3750'

DATE COMPLETED: 06/17/80

CASING RECORD	CASING SIZE	WT. & GRADE	DEPTH SET	CEMENT	TOP CEMENT
Surface	8-5/8"	24# K-55	139'	90 sx	Surface
Production	2-7/8"	6.4# J-55	3893'	160 sx	3100' survey

WELLHEAD EQUIPMENT Casinghead: 9" 1500 Larkin

TUBING EQUIPMENT: 112 joints of 1-1/4", 2.3#, J-55 IJ 10rd NU Tubing. Landed @ 3658'

FORMATION TOPS				
Ojo Alamo	2930'	Lewis	N/A	
Kirtland	3116'	Cliff House Trans.	N/A	
Fruitland	3426'	Cliff House	N/A	
Upper PC	3600'	Menefee	N/A	
Massive PC	3707'	Point Lookout	N/A	

LOGGING RECORD: Compensated Density Log, Gamma Ray/Induction and Temperature Survey.

PERFORATIONS: 3604', 3608', 3612', 3642', 3646', 3650', 3654', 3658', 3664', 3776', 3780', 3784', 3788', 3792'

STIMULATION: 40,000# 10/20 sand in water.

PRODUCTION HISTORY: Well incapable of production, never first delivered. Swabbed a total of 19 days, TSTM. Unloaded well w/ compressor, no gas. Set BP @ 3750' (above bottom set of perfs). Attempted to produce well, no gas. No activity since 1980.

WORKOVER PROCEDURE

1. TA well (see attached procedure).
2. P & A well (see attached procedure)
3. Fruitland Test (see attached procedure)

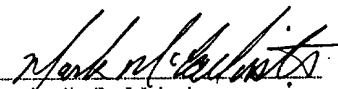
file i#2data

WELLBORE DIAGRAM

PLUG AND ABANDON PACKAGE

INDIAN I #2 FC
P&A PROCEDURE

1. Set anchors, blade location and dig blow pit.
2. MOL RU Service Unit.
3. Hold safety meeting and discuss procedure.
4. Kill tubing and ND wellhead and NU BOP's.
5. Kill casing, pull tubing hanger and TOH.
6. Squeeze perforations with 25 sx. class "B" cement and spot 14 sx of cement from top perforation to 3100'
7. Perforate 2 squeeze holes at 3100'.
8. Squeeze Ojo Alamo with 90 sx class "B" and spot 84 sx in casing to 50' below surface casing shoe
9. Perforate 50' below surface casing shoe and squeeze with class "B" cement to surface. Spot 5 sx. (5.9 cu.ft.) class "B" cement in 2-7/8" casing to surface.
10. Cut off wellhead, install P&A marker, clean up location and seed to land owner's specifications.


Mark McCallister
Sr. Engineer
Production & Drilling

NW/4 SW/4 SEC. 35, T28N, R03W
RIO ARRIBA CO., NM.

ELEV. = 6982' GR
KB = 11'

—

2-7/8" 6.4# J-55 NU 10RD @ 3893'

MASSIVE PICTURED CLIFFS: 3707'

PRTD @ 3086'

CASING STRING	HOLE SIZE	CASING SIZE	CEMENT	CEMENT VOLUME	TOP OF CEMENT
SURFACE	12-1/4"	8-5/8"	90	106 cu. ft.	SURFACE
PRODUCTION	6-1/4"	2-7/8"	160	301 cu. ft.	3100' (survey)

* ALL CEMENT VOLUMES ARE REDUCED BY A 75% EXCESS TO CALCULATE CEMENT TOPS.

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 2 Indian I

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 326-6201.
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made (when applicable):

Office Hours: 7:45 a.m. to 4:30 p.m.

GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON RESOURCE AREA

1. Secure prior approval either on a Sundry Notice (Form 3160-5) or verbally from the Fluids Drilling & Production Section at this office before changing the approved plugging program.
2. Plugging equipment used shall have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs. The Operator is responsible for providing all measuring devices needed to assure proper measurement of materials being used.
3. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations. Unattended pits are to be fenced.
4. All cement plugs are to be placed through tubing (or drillpipe) and shall be a minimum of 100 feet in length with 50% excess inside casing or 100% excess when plug is set in open hole or squeezed into perforations. 15.6#/gal slurry weight is to be used when using class A or B neat cement or when CaCl_2 is used. Advanced approval is required for extended cements.
5. Any cement plugs placed when a well is not full of fluid, or when the well may be taking fluid, (i.e. any cement plugs across or above perforations or leaky casing, unless a bridge plug or cement retainer is positioned above the interval) will be tagged (or tested) after the cement has set, to verify proper location.
 - 5a. Testing The first plug below the surface plug shall generally be tested by either tagging the plug with the working pipe string, or pressuring to a minimum pump (surface) pressure of 1000 psig, with no more than a 10 percent drop during a 15-minute period (cased hole only). If the integrity of any other plug is questioned, it must be tested in the same manner. Also, any cement plug which is the only isolating medium for a fresh water interval or a zone containing a valuable mineral deposit should be tested by tagging with the drill string.
6. A mud slurry is required between all cement plugs. The slurry is to be made up with a minimum of 25 pounds of sodium bentonite per barrel of water, with a minimum viscosity of 40 sec./qt. and a minimum water loss of 14 c.c./30 minutes. Slurry density (lbs./gal.) must be sufficient to stabilize the hole, and to prevent any back flow. Fresh water (less than 5,000 ppm. chlorides) is to be utilized for mixing the mud. Calcium hardness is to be treated with soda ash or caustic soda, if needed to promote proper hydration of the bentonite. If a polymer is used, it must be of a non fermenting type. In the event that a weighting agent is needed, barite is preferred. If a salt water slurry is used, the bentonite must be prehydrated in fresh water.
 - 6a. Mud viscosity and water loss measurement equipment must be on hand during mud mixing and plugging operations.

6b. The requirement to keep mud measurement equipment available at the rig is waived when the mud slurry is prepared, according to our specifications, at another location and certified, as such; by the organization doing the preparation.

6c. Drilling mud may be used to plug a well, provided; that well is plugged without first being cased.

7. Following the placement of a cement plug, the withdrawal rate for at least the length of the cement plug shall not exceed 30 ft/min, in order to minimize the contamination of the plug.

8. Within 30 days after plugging work is completed, file a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5), in quintuplicate with Area Manager, Bureau of Land Management, 1235 La Plata Highway, Farmington, NM 87401. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.

9. All permanently abandoned wells are to be marked with a regulation marker (4" pipe extending approximately 4' above the ground line) containing the information as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10. After plugging work is completed the surface is to be rehabilitated in accord with instructions from the Environmental Compliance Staff of the Farmington Resource Area Office.

11. These requirements become applicable to a specific well when attached to the Notice of Intent to Abandon, for that well, at the time approval is granted.

All the above are minimum requirements. The period of liability under the bond of record will not be terminated until the lease is inspected and surface work approved.

Please advise this office when the well location is ready for final inspection.

Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.400 et. seq.