

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(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. WELL OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	3. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 452
2. NAME OF OPERATOR Robert L. Bayless	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache Tribe
3. ADDRESS OF OPERATOR P.O. Box 168, Farmington, NM 87499	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 790' FNL & 790' FWL	8. FARM OR LEASE NAME Jicarilla 452
14. PERMIT NO	9. WELL NO. 4
15. ELEVATIONS (Show whether OF, RT, CR, etc.) 7070' GL 7082' RKB	10. FIELD AND POOL, OR WILDCAT Wildcat Unders. p.c.
	11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Sec. 5, T29N, R3W
	12. COUNTY OR PARISH Rio Arriba
	13. STATE NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) Perforate

(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.)

SEE ATTACHED DAILY REPORTS (12/19/88 thru 12/29/88).

RECEIVED  
BLM MAIL ROOM  
89 JAN -3 PM 2:11  
FARMINGTON RESOURCE AREA  
FARMINGTON, NEW MEXICO

RECEIVED  
JAN 11 1989  
OIL CON. DIV.  
DIST. 3

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

SIGNED

Kevin H. McCord

TITLE Petroleum Engineer

DATE 12/30/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE ACCEPTED FOR RECORD

CONDITIONS OF APPROVAL, IF ANY:

NMOCO

JAN 09 1989

FARMINGTON RESOURCE AREA

\*See Instructions on Reverse Side

BY KLT

# ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING  
P. O. BOX 168  
FARMINGTON, NEW MEXICO 87499  
(505) 326-2659

Jicarilla 452 #4

## DAILY REPORT

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12/19/88 Move in and rig up Bayless Rig 3. Nipple up wellhead. Nipple up BOP. Pick up 3 7/8" bit, casing scraper, and 2 3/8" tubing. Tag DFFC (PBD) at 4048' RKB. Shut down for night.

12/20/88 Rigged up the Western Company. Pressure tested casing to 3500 psi--held OK. Circulated hole clean with 2% KCL water. Moved tubing to 4010'. Spotted 250 gallons of 7 1/2% DI HCL acid across perforation interval. Trip tubing, scraper, and bit out of hole. Rigged up Basin Perforators. Ran GR-CLL from corrected PBD of 4045' to 3500'. Perforated Lower Pictured Cliffs interval with 3 1/8" casing gun and 2 JSPF as follows:

3970 - 3978	8'	17 holes
3980 - 3990	10'	21 holes
3992 - 3997	5'	11 holes
4006 - 4010	<u>4'</u>	<u>9 holes</u>
	27'	58 holes (.34" diameter)

Broke down Lower Pictured Cliffs perforations @ 1300 psi. Established an injection rate into perforations of 7.5 BPM @ 500 psi, ISIP = 350 psi. Acidized the Lower Pictured Cliffs interval with 500 gallons of 7 1/2% weighted HCL acid containing 87 1.1 s.g. RCN ball sealers. Acid rate 8.5 BPM @ 450 psi. Saw very little ball action. Balled off casing to 3500 psi. Surged off ball sealers. Established injection rate into perforations at 8.0 BPM @ 500 psi, ISIP = 300 psi. Ran junk basket on wireline to recover ball sealers. Recovered 17 balls. Fracture stimulated Lower Pictured Cliffs interval with 54,000 gallons of 20#/1000 gallons X-linked gelled water containing 75,000# of 20-40 mesh sand as follows:

9,000 gal. of 20#/1000 X-linked gel pad	30 BPM @ 850 psi
15,000 gal. of 1 ppg 20-40 sand	30 BPM @ 750 psi
30,000 gal. of 2 ppg 20-40 sand	30 BPM @ 650 psi
2,651 gal. of flush w/un-X-linked gel	30 BPM @ 700 psi

ISIP = 400 psi	5 min. = 375 psi
10 min. = 325 psi	15 min. = 325 psi

Average rate - 30 BPM. Average pressure - 700 psi. Maximum pressure - 850 psi. Minimum pressure - 650 psi. All water contained 2% KCL and 1/2 gal/1000 clay stabilization agent. Total load fluid to recover - 1,682 bbls. Set wireline set retrievable bridge plug at 3950' RKB. Pressure test plug to 3500 psi--held OK. Trip in hole with tubing to 3520'. Drop 5 gallons of sand on top of bridge plug. Shut down for night.

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Jicarilla 452 #4

## DAILY REPORT

Page 3

12/21/88 Rigged up the Western Company. Spotted 250 gallons of 7 1/2% DI HCL acid across perforation interval. Trip tubing out of hole. Rigged up Basin Perforators. Perforated Pictured Cliffs interval with 3 1/8" casing gun and 2 JSPF as follows:

3748 - 3756	8'	17 holes
3760 - 3772	12'	25 holes
3774 - 3783	9'	19 holes
3786 - 3803	17'	35 holes
3810 - 3813	3'	7 holes
3816 - 3820	4'	9 holes
	53'	112 holes (.34" diameter)

Broke down perforations @ 2200 psi. Established an injection rate into perforations down casing of 8.1 BPM @ 650 psi, ISIP = 350 psi. Acidized Pictured Cliffs interval down the casing with 500 gallons of 7 1/2% weighted HCL acid containing 168 1.1 s.g. RCN ball sealers. Acid rate 8.1 BPM @ 725 psi. Saw good ball action. Did not obtain balloff. Final injection rate was 8.0 BPM @ 1400 psi, ISIP = 500 psi. Ran junk basket on wireline to retrieve ball sealers. Recovered 118 balls. Fracture stimulated Pictured Cliffs interval with 109,000 gallons of 70 quality foam containing 118,000# of 20-40 sand as follows:

30,000 gal. of 70 quality foam pad	30 BPM @ 1750 psi
40,000 gal. of 1 ppg 20-40 sand	30 BPM @ 1750-1800 psi
39,000 gal. of 2 ppg 20-40 sand	30 BPM @ 1850 psi*

\*Well screened off to 3500 psi at this point.

118,000# of sand pumped, with 114,000# in the formation and 4,000# in the wellbore. ISIP = 3400 psi, 15 min. = 2750 psi (shut-in). Average rate - 30 BPM. Average pressure - 1800 psi. Maximum pressure - 3500 psi. Minimum pressure - 1750 psi. Average nitrogen rate - 14,700 SCF/min. Total nitrogen pumped - 1,272,400 SCF. Total load fluid to recover - 1,121 bbls. Shut well in for 3 hours. Opened well to the atmosphere through a 1/2" tapped bullplug. Left well flowing to the atmosphere to clean up after frac. Shut down for night.

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DAILY REPORT

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- 12/22/88 to 12/25/88 Well flowing to atmosphere to clean up after frac.
- 12/26/88 Well barely flowing. Trip in hole with retrieving head on tubing. Tag sand fill at 3760' RKB. Well not flowing strong enough to clean out sand. Shut down for night.
- 12/27/88 Cleaned out 190 ft. of sand with well gas to retrievable bridge plug at 3950' RKB. Retrieved bridge plug. Well stopped flowing, allowing sand to fall. Bridge plug hanging up. Worked on tubing and plug. Pulled 20 stands of tubing. Shut down for night.
- 12/28/88 Bridge plug still hanging up with sand. Worked on tubing and plug. Recovered bridge plug. Trip in hole with tubing. Tag sand fill at 3891'. Wait for well to come around. Shut down for night.
- 12/29/88 Well came around overnight. Cleaned out 157 ft. of sand with well gas to PBTD of 4048'. Landed tubing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	10.00	0- 10
127 jts. 2 3/8" 4.7#/ft J-55 EUE tubing	3943.69	10-3954
1 seating nipple	.85	3954-3955
1 jt. 2 3/8" 4.7#/ft J-55 EUE tubing	<u>30.93</u>	3955-3985
	3985.47	

Nipple down BOP. Nipple up wellhead. Rig down completion unit. Released rig. Left well flowing to pit to clean up for AOF.