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

5. Lease Designation and Serial No.: Jic. MDA 701-90-0002

6. If Indian, Allottee or Tribe Name: Jicarilla Apache Tribe

7. If Unit or CA, Agreement Designation:

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.: Jicarilla 31-3-6-2

2. Name of Operator: Robert L. Bayless

9. API Well No.: 30-039-70537

3. Address and Telephone No.: P.O. Box 168, Farmington, NM 87499 (505) 325-2659

10. Field and Pool, or Exploratory Area: Basin Fruitland Coal

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1565' FSL & 1015' FWL, Section 6, T31N, R3W

11. County or Parish, State: Rio Arriba, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Completion	☐ 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.)*

Per attached Daily Summary.

RECEIVED
DEC 17 1993
OIL CON. DIV.
DIST. 3

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

Signed Kenny A. McCord Title Petroleum Engineer Date 11/24/93

(This space for Federal or State office use)

Approved by SHIRLEY MONDY Acting Title AREA MANAGER RIO PUERCO RESOURCE AREA Date DEC 15 1993

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

NMOCD

JICARILLA 31-3-6-2

5/20/91 Move in and rig up Bayless Rig 4. Nipple up BOP. Nipple up wellhead.

5/21/91 Pick up. 3 7/8" bit, casing scraper, and new 2 3/8" tubing. Tagged DV tool and drilled out. Tagged cement and drilled out to 3883' KB PBTD. SDFN.

5/22/91 Rigged up the Western Company. Pressure tested casing and wellhead to 2500 PSI. Held ok for 10 minutes. Circulated hole clean with 1% KCL water. Moved tubing to 3717. Spotted 250 gallons of 7 1/2% DI HCL acid across perforation interval. Trip tubing out of hole. Rigged up Jet West wireline. Ran GR-CLL-CBL from corrected PBTD of 3878' RKB to 3000'. Good bond. Perforated Fruitland Coal interval with 3 1/8" casing gun as follows:

3671 - 3676	5'	11 holes	(2 JSPF)
3697 - 3703	6'	24 holes	(4 JSPF)
3705 - 3717	12'	48 holes	(4 JSPF)
	23'	83 holes	(.39" diameter)

Broke down perforations immediately. Established injection rate into perforations down casing of 8.7 BPM @ 1150 psi, ISIP = 700 psi (.62 FG). Acidized with 250 gallons of 7 1/2% DI HCL weighted acid containing 125 1.1 s.g. RCN ball sealers - 8.6 BPM @ 1125 psi - Saw some ball action when balls hit formation - Re-established injection rate of 8.7 BPM at 1600 psi, ISIP = 1050 psi (FG .72) - 5 minutes = 600 psi, - 10 minutes = 550 psi, 15 minutes - 550 psi - load fluid to recover - 87 bbls. in formation and 57 bbls in casing, 144 bbls total. - flowed back 30 bbls - (left to recover 114 bbls) - ran junk basket to recover ball sealers - recovered 65 balls - Tripped 2 3/8" tubing in hole to 3675 - rigged to swab - initial fluid level at surface - made 3 swab runs, fluid level dropped to 400 feet from surface - recovered 15 bbls of fluid (99 bbls left to recover) - shut well in - SDFN.

5/23/91 Overnight shutin pressures: tubing 80 psi, casing 0 psi - initial fluid level at 500 ft. - Made 14 swab runs and swabbed well dry - well is making gas and fluid and gassing between runs - wait 1 hour between last 2 swab runs, made 1 more barrel of fluid swabbing - casing built pressure to 40 psi - could not get gas to burn - made a total of 49 bbls. of fluid swabbing (50 bbls of load left to recover) - shut well in - SDFN.

5/24/91 Overnight shutin pressure: tubing 380 psi, casing 150 psi - tubing blew down dry gas-initial fluid level at 2700' - made 6 swab runs - kicked well off - well flowed for 15 minutes - casing pressure dropped to 50 psi from 120 psi - swabbed well dry - well has slight flow of burnable gas to pit after each swab run - recovered 11 bbls. of fluid swabbing (39 barrels left to recover) - casing pressure at 40 psi at end of day - SDFN.

5/25/91 Overnight shutin pressures: tubing 400 psi, casing 260 psi - blew well down dry gas - rigged to swab - initial - fluid level at 3100' - kicked well off on 1st swab run - well flowed for 20 minutes - casing pressure dropped to 60 psi - swabbed well dry - well has slight blow of burnable gas to pit after each swab run - recovered 3 bbls. of fluid swabbing (36 bbls of load fluid left to recover)

SDFN.

5/26/91 Shut down - Holiday

5/27/91 Shut down - Holiday

5/28/91 Three day shutin pressures: tubing 580 psi, casing 410 psi - blew well down dry gas - rigged to swab - initial fluid level at 2800'. Kicked well off on 1st swab run - well flowed for 30 minutes bringing gas and fluid casing pressure dropped from 350 psi to 60 psi during flow - well was dry on remaining swab runs (1 hr. apart) - slight blow of burnable gas after each swab run - recovered 5 barrels of fluid swabbing (31 barrels of load fluid left to recover) - SDFN.

5/29/91 Left well shutin

5/30/91 Left well shutin

5/31/91 Three day shutin tubing pressure 460 psi, casing pressure 320 psi - blew well down - casing pressure dropped to 280 psi - Rigged to swab - initial fluid level at 3000 ft. - kicked well off on first run flowing - gas and water for 30 minutes - casing pressure dropped from 280 psi to 75 psi - well died - made 3 more swab runs - well dry each run - well has slight blow of burnable gas after each run - recovered total of 4 bbls. of fluid from swab and flow -(27 bbls. of load fluid left to recover). SDFN.

6/1/91 Left well shutin

6/2/91 Left well shutin

6/3/91 Three day shutin tubing pressure 420 psi, casing pressure 330 psi - blow well down - after 30 minutes, casing pressure was 280 psi - after 1 hr. casing pressure was 290 psi and building - well has slight blow on tubing - well did not bring up any fluid on its own - Rigged to swab - Initial fluid level at 3100 ft. - made 1 swab run and kicked well off flowing - well flowed for 30 minutes - casing pressure dropped to 70 psi - made swab runs 1 hour apart - well gassing slightly between runs - made a total of 3 barrels of fluid (24 barrels left to recover) - shut in well - SDFN.

6/4/91 Left well shutin

6/5/91 Left well shutin

6/6/91 Three day shutin tubing pressure 370 psi, casing pressure 320 psi - blew well down - well started unloading fluid - casing pressure at 270 psi at start of flow - well flowing gas and water for 20 minutes - casing pressure at 140 psi when well stopped bringing fluid - well still flowing dry gas - casing pressure down to 110 psi - well flowing slightly - rigged to swab - initial fluid level at 3400 ft. - well made some fluid and flowed slightly - approximately a 3 ft. flare of burnable gas - Trip tubing out of hole - Rigged up the Western Company - Fracture stimulated the Fruitland Coal interval with 42,250 gallons of 70 to 60 quality foam using 20#/1000 gal linear quar gel water base containing 6,000 lbs of 40-70 mesh sand and 78,000 lbs. of 20-40 mesh sand as

follows:

15,000 gals of 70 quality foam pad	40 BPM @	2900-3300 psi
2,000 gals of 1 ppg 40-70 sand, 70 quality foam	40 BPM @	3400 psi
2,000 gals of 2 ppg 40-70 sand, 70 quality foam	40 BPM @	3500 psi
5,000 gals of 2 ppg 20-40 sand, 70 quality foam	40 BPM @	3400-3600 psi
5,000 gals of 2 ppg 20-40 sand, 65 quality foam	38 BPM @	3600-3500 psi
7,000 gals of 3 ppg 20-40 sand, 65 quality foam	38 BPM @	3500 psi
7,550 gals of 4 ppg 20-40 sand, 65 quality foam	38 BPM @	3500-3800 psi
1,700 gals of 4 ppg 20-40 sand, 60 quality foam	37 BPM @	3900 psi
882 gals of linear gelled water flush	22 BPM @	3600-4000 psi

Well screened out to 4000 psi maximum pressure - ISIP 3950 psi, 5 min 3500 psi, 10 min 3400 psi - 15 min 3400 psi, - Average rate 39 BPM - Average pressure 3600 psi-Minimum pressure 2800 psi - Maximum pressure 4000 psi - Nitrogen rates varied from 24,500 SCF/min to 27,500 SCF/min for 70 quality foam, 22,000 SCF/min to 24,000 SCF/min for 65 quality foam, and 20,000 SCF/min for 60 quality foam - total nitrogen pumped 711,000 SCF - total load fluid to recover 353 barrels - left 6000 lbs of sand in the casing, total sand in formation is 6000 lbs. of 40-70 and 72,000 lbs of 20-40 - shut well in for 4 hours - flowed well back through 1/2" tapped bullplug with 1/4" insert - left well flowing - SDFN.

6/7/91 Well flowing to cleanup after frac.

6/8/91 Well flowing slightly - tripped in hole with open ended tubing - tagged sand fill at 3750 (perfs not covered) - circulated 128 feet of sand out of hole - move tubing up hole and landed as follows:

Description	Length	Depth
KB to landing point	10.75	0-11
115 jts. of 2 3/8" 4.7#/ft J-55 EUE tubing	3636.49	11-3647
1 seating nipple	.75	3647-3648
1 jt. of 2 3/8" 4.7#/ft J-55 EUE tubing	32.22	3648-3680
	3680.21	

nipple down BOP - nipple up wellhead - rigged to swab - recovered 85 bbls. of fluid - casing starting to build pressure - fluid is gas cut - shut well in - SDFN.