Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

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
~~Robert L. Bayless~~ K & M Production

3. ADDRESS OF OPERATOR
P.O. Box 1541, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1840' FNL & 790' FEL
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

5. LEASE
NOO-C-14-20-5245

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Allottee

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
FBD Com

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Bisti Lower Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 21, T25N, R11W

12. COUNTY OR PARISH
San Juan

13. STATE
N.M.

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6448' GR

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☒
SHOOT OR ACIDIZE	☐		☒
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other)			

RECEIVED
MAY 28 1982
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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

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.)*

per attached.

APPROVED
JUN 3 1982
OIL CON. COM.
DIST. 3

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

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

SIGNED _____ TITLE Operator DATE May 27, 1982

(This space for Federal or State office use)

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

ACCEPTED FOR RECORD
JUN 2 1982
FARMINGTON, N. M.
BY SMH

*See Instructions on Reverse Side

NMOCC

05-18-82 Move in, rig up completion unit. Trip casing scraper and bit in hole with 2-3/8" tubing. Tag cement above D.V. tool at 3932' RKB. Drill cement and D.V. tool, trip tubing to bottom, tag PBTD at 5021' RKB. Pressure test casing to 3500 psi; held okay. Move tubing to 4944'. SDFN.

05-19-82 Rigged up The Western Co. Spotted 250 gallons of 7½% D.I. HCL acid over perforation interval. Tripped tubing out of hole. Rigged up Blue Jet, ran Gamma Ray-Collar Locator log from PBTD of 5009' to 4600'. Ran Cement Bond log variable density log over the same interval. Bond looked very good. Perforated Lower Gallup interval with 3-1/8" casing gun (.45" bull jet charges) at 2JSPF as follows:

4906-4915 ft.	9'	18 holes
4932-4944 ft.	12'	24 holes
Total:	21'	42 holes

Rigged up The Western Co. Broke down perforations at 1900 psi. Established rate into perforations of 24 BPM @ 1600 psi. ISIP=600 psi (then a vaccum) 17 perfs open. Acidized formation down the casing with 500 gallons of 15% HCL weighted acid and 68 RCN ball sealers, 15.5 BPM @ 750 psi; no ball action seen. Balled off casing to 3500 psi. Rigged up Blue Jet and ran junk basket to bottom to recover ball sealers. Recovered 68 ball sealers, 42 with perforation marks. Rigged up The Western Co. and fracture stimulated Lower Gallup interval with 50,000 gallons of 30#/1000 gal. cross linked gel containing 600 scf/bbl CO_2 and 65,000 lbs. 20/40 mesh sand as follows:

25,000 gal pad	30 BPM @ 1100 psi
5,000 1 ppg 20/40 mesh sand	30 BPM @ 1100 psi
5,000 2 ppg 20/40 mesh sand	30 BPM @ 1100 psi
10,000 3 ppg 20/40 mesh sand	30 BPM @ 1100 psi
5,000 4 ppg 20/40 mesh sand	30 BPM @ 1100 psi
3,276 flush with 2% KCL water	30 BPM @ 1100 to 1250 psi

ISIP = 550 psi
5 min. = 550 psi
10 min. = 500 psi
15 min. = 450 psi

Average rate 30 BPM; average pressure 1100 psi; maximum pressure 1250 psi; minimum pressure 1100 psi. CO_2 to recover 47 tons; load fluid to recover 1181 bbls. Shut in to allow fracture to heal.

05-21-82 14 hr. shut in: slight blow of gas, no pressure buildup. Rigged up Blue Jet and ran wireline, set HOWCO drillable bridge plug. Set plug @ 4880' RKB. Rigged up The Western Co. Tested plug and casing to 3500 psi; held okay. Perforated Upper Gallup interval with 3-1/8" casing gun and 2JSPF as follows:

4812-4824	12'	24 holes	(.45" diameter)

Broke down perforations @ 1400 psi. Established injection rate into perforations of 22 BPM @ 2600 psi. ISIP=850 psi (6 perforations open). Fracture stimulated Upper Gallup interval with 14,000 gallons of 70 quality foam with 30,500 lbs. 20/40 mesh sand as follows:

500 gal. 15% HCL acid spearhead	
4,500 gal. 70 quality foam pad	25 BPM @ 2800 psi
1,000 gal. 1 ppg 20/40 mesh sand	25 BPM @ 2700 psi
1,000 gal. 2 ppg 20/40 mesh sand	25 BPM @ 2700 psi
2,500 gal. 3 ppg 20/40 mesh sand	25 BPM @ 2700 psi
5,000 gal. 4 ppg 20/40 mesh sand	25 BPM @ 2800-3000 psi
3,213 gal. 70 quality foam flush	25 BPM @ 2800 psi

ISIP = 2400 psi
5 min. = 2100 psi
10 min. = 2050 psi
15 min. = 2050 psi

Average rate 25 BPM; average pressure 2800 psi; maximum pressure 3000 psi; minimum pressure 2650 psi; nitrogen rate 16,800 scf/min. Total nitrogen pumped 288,960 scf; total load to recover 237 bbls. Let fracture heal for 3 hrs. Opened well to the atmosphere through 2" x 1" swedge. Well blowing to the pit to cleanup. SDFN.