

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.

5. LEASE DESIGNATION AND SERIAL NO.

SF-079086

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Canada Mesa

9. WELL NO.

1-E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 24, T24N, R6W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

N.M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

J. Gregory Merrion & Robert L. Bayless

3. ADDRESS OF OPERATOR

P.O. Box 1541, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1060 FNL & 1840 FWL

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

U.S. DATE ISSUED

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 19. ELEV. CASINGHEAD

02-10-80

02-21-80

05-21-80

6483' GL

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 25. WAS DIRECTIONAL SURVEY MADE

6700'

6664'

0-TD

6474-6529' - Dakota

no

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction, Compensated Neutron, Formation Density Logs

27. WAS WELL CORED

no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
3 jts: 8-5/8"	20#	236'	12-3/4"	150 sacks	
2 jts: 8-5/8"	24#				
4-1/2"	10.5#	6698'	7-7/8"	1st Stage: 400 sx Pozimix;	
				2nd Stage: 275 sx Pozimix; 50 sx Class H;	
				3rd Stage: 200 sx Pozimix; 50 sx Class H	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	6456.65'	none

31. PERFORATION RECORD (Interval, size and number)

6474-6529': total 15 holes w/.40"

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6474-6529	(See Attachment)

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
05-29-80		Flow				Shut In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
05-29-80	3	1"	→	--	1.5 MMCF/D	hvy. spray	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL-GRAVITY-API (CORR.)	
56	Shut-in: 2370	→	--	1.5 MMCF/d	hvy. spray		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

S. Dunn

35. LIST OF ATTACHMENTS

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

SIGNED

TITLE

Operator.

DATE

May 1980, 1980

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

FARMINGTON DISTRICT

RV

# 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.

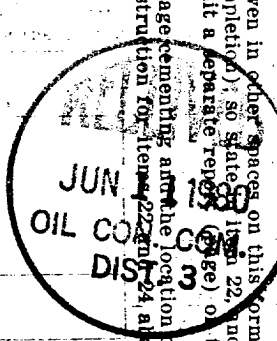
**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**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 (see page 2 of 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; CORRELATE INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Dakota	6474	6529	Natural gas, water

## 38.

### GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUE VERT. DEPTH
San Jose	Surface	
Ojo Alamo	1640'	
Kirtland	1690'	
Pic. Cliffs	2085'	
Cliffhouse	3570'	
Pt. Lookout	4270'	
Gallup	5330'	
Greenhorn	6270'	
Dakota	6440'	

Merrion & Bayless  
Form 9-330  
May 30, 1980

28. Casing Record

Cementing Record: 8-5/8" csg - 150 sacks Class B with 3%  $\text{CaCl}_2$ ;

4-1/2" csg - First Stage: 400 sacks 50-50 Pozimix Class H with 2% gel.

Second Stage: 275 sacks Class H 65-35 Pozimix with 6% D-20, 1%  $\text{CaCl}_2$  followed by 50 sacks Class H with 2%  $\text{CaCl}_2$ .

Third Stage: 200 sacks Class H 65-36 Pozimix with 6% D-20 followed by 50 sacks Class H.

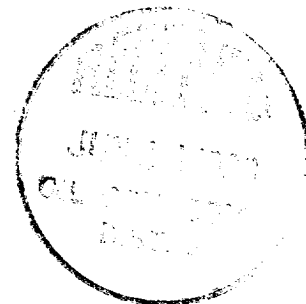
31. Perforation Record

15 holes as follows: 6474, 6475.5, 6477, 6478.5, 6480, 6481.5, 6502, 6505, 6508, 6511, 6514, 6517, 6523, 6526, 6529.

32. Acid, Shot, Fracture, Cement Squeeze, etc.

Prior to perforating: Spotted 250 gal. 7-1/2% HCL across Dakota interval.

Following perforation: Fraced Dakota w/80,000# 20/40 sand followed by 36,000# 10/20 sand w/1344 bbls. Mini-Max III 30-40# gelled water, 1% KCL, 2% oil, 1/2 gal/1000 adocide, 1 gal/1000 aquaflo, gel breaker.



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  
J. Gregory Merrion & Robert L. Bayless

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1060 FNL & 1840 FWL  
AT TOP PROD. INTERVAL: same  
AT TOTAL DEPTH: same

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\* ☐

SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

(other) Completion Operations

RECEIVED

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

U. S. GEOLOGICAL SURVEY  
FARMINGTON DISTRICT

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 Report.

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED

TITLE

Operator

DATE

May 30, 1980

(This space for Federal or State office use)

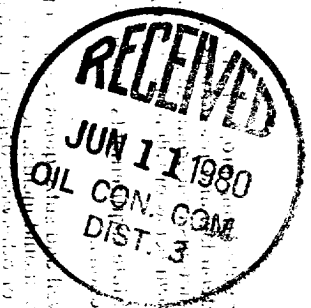
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



ACCEPTED FOR RECORD

JUN 9 1980

BY FARMINGTON DISTRICT

Merrion & Bayless  
CANADA MESA #1-E  
NE/NW Section 24, T24N, R6W  
Rio Arriba County, N.M.  
SF-079086  
WELL HISTORY  
Page 2

- 05-12-80 Rigged up Flint Engineering. Ran 2-3/8" work string to fill at 2155'. Stage tool at 2161'. Rig up power swivel to mill stage tool. Shut in. (JCA)
- 05-14-80 Drilled out first stage tool at 2161'. Pressure tested to 1600# for 10 min. Tripped to second stage tool. Found fill at 4441' K.B. Tool at 4498'. SDON. (JCA)
- 05-15-80 Drilled out second stage tool at 4498'. Tripped to PBTD at 6640'. SDON. (JCA)
- 05-16-80 Rigged up Western Co. Pressure tested casing to 4000#. Held for 10 min. Swept well bore clean with gel water. Spotted 250 gal. 7-1/2% HCL across Dakota interval. Tripped tubing and layed down drilling tools. SDON. (JCA)
- 05-17-80 Rig up McCullogh. Run Cement Bond log across first stage from PBTD to TOC; Across second stage from 4498' K.B. to TOC; Third stage found TOC. Ran Gamma Ray from PBTD to 5200'. SDON. (JCA)
- 05-19-80 Rig up McCullough and Western Company. Perforated two .40" holes at 6529' & 6481.5'. Broke down both perforations. Perforated remaining holes as follows: 6526, 6523, 6517, 6514, 6511, 6508, 6505, 6502, 6480, 6478.5, 6477, 6475.5, 6474. Did ball off w/ 1000 gal 7-1/5% HCL down 4-1/2" casing. Pressures indicated all holes were open. ISDP 1800 PSIG. Ran junk basket, recovered one ball sealer. SDON. (SSD)
- 05-20-80 SIP - 300 PSIG. Fraced Dakota w/ 80,000 lbs 20/40 sand followed by 36,000 lbs 10/20 sand w/ 1344 bbls mini-max III 30-40 lb gelled water, 1% KCL, 2% oil, 1/2 gal/1000 adocide, 1 gal/1000 aquaflo, gel breaker. Avg. treating pressure - 3750 PSIG at avg. rate - 28 bbls/min. ISDP - 2900 PSIG Final shut in in 15 minutes - 2000 PSIG. SDON. (SSD)
- 05-21-80 SIP - 400 PSIG. Flowed back & picked up 2-3/8" hydril production tubing w/ expendable check and seating nipple on bottom. Trip into fill @ 6505' K.B. Circulated out fill to 6592' K.B. Picked up to 217th joint and landed at 6457' K.B. SDON. (SSD)
- 05-23-80 SIP 1850 on backside; 1725 on tubing. Still making a lot of water. (SSD)
- 05-27-80 Casing pressure - 2370; tubing pressure - 2050. (SSD)
- 05-29-80 Well making est. 1.5 MMCF/day. Shut in awaiting pipeline connection.