Form 9-330
(Rev. 5-63)

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: Contract 360

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla Tribe

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Bonanza

2. NAME OF OPERATOR: J. Gregory Merrion & Robert L. Bayless

9. WELL NO.: 3

3. ADDRESS OF OPERATOR: P. O. Box 507, Farmington, NM 87401

10. FIELD AND POOL, OR WILDCAT: Chacon Dakota

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 790' FNL & 790' FWL
At top prod. interval reported below: same
At total depth: same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 1, T22N, R3W

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: Sandoval | 13. STATE: New Mexico

| 15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (*Ready to prod.*) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD |
|---|---|---|---|---|
| 10-30-80 | 11-11-80 | 1-10-81 | 7156 GL, 7169 KB | |

| 20. TOTAL DEPTH, MD & TVD | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY | ROTARY TOOLS | CABLE TOOLS |
|---|---|---|---|---|---|
| 7149 KB | 7113 KB | | → | 0-7149 | |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 6898-7004 Dakota

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: Spherecally focused induction log, compensated neutron, formation density

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 |
|---|---|---|---|---|---|
| 8-5/8" | 28 | 190 | 11 | 175 sacks | none |
| 4-1/2" | 10.5 & 11.6 | 7148 | 7-7/8 | 1050 sacks - 2 stage | none |
| | | | | | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|---|---|---|---|---|
| | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 2-3/8" | 6880 | none |

31. PERFORATION RECORD (*Interval, size and number*)
6897-6913 11 holes (0.43) 32 holes (0.52)
6928-6942 10 holes (0.43) 32 holes (0.52)
6994-7004 20 holes (0.52)

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| 6994-7004 | 38600 gal.water & 30000# 20-40 sd |
| 6897-6942 | 109200 gal.water & 84000# 20-40 sd |
| | |

33.* PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*) | WELL STATUS (*Producing or shut-in*) |
|---|---|---|
| 1-9-81 | flowing | shut in |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| 1-10-81 | 24 | 3/4 | | 184 | 693 | 32 | 3766 |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| 55 | 550 | | 184 | 693 | 32 | 48.2 |

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

TEST WITNESSED BY: Steven S. Dunn

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD

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

SIGNED Greg Merrion TITLE Co-Owner DATE JAN 13 1981 1-13-81

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

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

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---|---|---|---|
| Tertiary | 0 | 2438 | Sand & shale, fresh water |
| Fruitland | 2428 | 2666 | Sand, shale & coal, tite |
| Pictured Cliff | 2666 | 2783 | Silt & shale, tite gas |
| Lewis | 2783 | 4182 | Silt & shale, tite |
| Mesaverde | 4182 | 4880 | Sand & shale, water |
| Mancos | 4880 | 6790 | Silt & shale, tite |
| Greenhorn | 6790 | 6860 | Limey shale, tite |
| Dakota | 6860 | 7149 | Sand & shale, oil, gas, & water |

38. GEOLOGIC MARKERS

| NAME | TOP | |
|---|---|---|
| | MEAS. DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo | 2322 | |
| Fruitland | 2438 | |
| Pictured Cliffs | 2666 | |
| Cliffhouse | 4182 | |
| Point Lookout | 4772 | |
| Mancos | 4880 | |
| Greenhorn | 6790 | |
| Graneros | 6860 | |

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12-10-80 Move in Flint Rig. SDON. (SSD)

12-11-80 Rig up. Trip in and tagged stage tool. Rig up power swivel. SDON. (SSD)

12-12-80 Drill out stage tool and trip to bottom. Pressure tested to 4000 PSIG. Held okay. Unable to mix slick water w/Cementers, Inc. SDON. (SSD)

12-13-80 Rig up Western. Mix slick water and 20 bbls. 50# gel. Swep hole and spotted 250 gal. 15% HCL across zone. Trip out with tubing. SD to work on rig. (SSD)

12-15-80 Rig up Blue Jet, Western Co. Ran Gamma-Ray Correlation Log from 7034' KB to 5700' KB. Perforated 6994' - 7004' w/2 PF 3-1/2" glass jets. Total 20 holes .43". Broke down and fraced w/ 920 bbls. slick water and 30,000# 20/40 sand. Flushed w/500 gal. 15% acid followed by slick water. ISDP 1950 psig, final shut in 1500 PSIG in 10 minutes. Ran wireline; set bridge plug and set @ 6980' KB. Dumped 5 gal. sand in hole. Ran select fire and perforated 10 holes @ 6944', 6943', 6940', 6938.5', 6937', 6935.5', 6934', 6932.5', 6931', 6929.5'. Unable to break down.* Ran 4 ft. gun, 3-1/2" glass 2 PF. Hung up @ 6947'; pulled free. Pulled up to stage tool to check depth. Depth okay. Hung up @ 5500' going back in. Pulled free, came out of hole w/gun. Left all charges in the hole. Trip in w/junk basket. Unable to get below 6917' KB. Trip out. Had perf. tape and frac sand. SDON. (SSD)(*Flowed back; still unable to break down

12-16-80 Shut in pressure 900 PSIG overnite, bled off. Trip in w/bit and scraper, stacked out @ 110 stands plus 20', 6898' KB - 48' above plug. Picked up power sub and circulated frac sand out down to 6946'. Spotted 500 gal. 15% HCL on bottom. Tripped out w/tubing and scraper. SDON. (SSD)

12-17-80 SIP 750 PSIG. Broke down upper Dakota perfs @ 3200 PSIG. Pumped 3 bbls. and shut down. Tripped select fire gun and perfed Graneros sand: 6913', 6912', 6910.5', 6909', 6907.5', 6906', 6904.5', 6903', 6901.5', 6900', 6898.5'. Rig up and broke down, 7 holes indicated open. ISDP 1950 PSIG. Did ball off w/500 gal. 15% HCL. Ran junk basket to retrieve balls. Lost flapper from basket in hole. Trip in w/tubing, bit, & scraper. Drilled for 30 min. Could not make any hole @ 6945' KB. Pulled 3 jts. Shut in. (SSD)

12-18-80 Blew well down. Spotted 250 gals 15% HCL on bottom. Tripped out with tbg. Ran in w/ 3-1/2 glass jets. Hung up @ 5400 ft. Pulled free, came out of hole, left 5 charges in hole. Ran junk basket to 6945' K.B. Retrieved glass debris. Ran new gun and perforated 6897-6913 w/ 2 PF 3-1/2" glass. Total 32 holes. Broke down and established an injection rate 3750 PSIG @ 35 BPM. 10 holes indicated open. Ran in perforated 6928-42' w/ 3-1/2" glass, total 32 holes. Broke down and pumped 750 gals. 15% HCL putting 5 bbls away. Shut down to let acid soak. 10 holes indicated open. Started frac pad, 13 holes open 40 BPM @ 3500 PSIG. Pressure was building. Shut down. ISDP 2000 PSIG. Fraced well w/ 2600 bbls slick water and 84,000 lbs. 20/40 sand. Sanded off. Shut in. (SSD)

12-19-80 Well dead. Trip in w/ bit to 3300 ft. Well unloading, unable to go deeper. Killing well. SDON. (SSD)

12-20-80 Killed well. Trip out. Rig up float in tubing string. Trip in 100 stands w/ bit. SDOWE. (SSD)

12-22-80 Tag fill @ 6917' KB. Cleaned out to 6945 KB on metal flapper. Trip out. Trip in w/ magnet. Trip part way out. SDON. (SSD)

12-23-80 Trip out. Had part of flapper. Trip in w/ mill. Tag fill @ 6944. Milled w/ tongs for 1/2 hour. Pulled six joints. Landed tubing in wellhead. Rig down, moved Flint rig. (SSD)

01-05-81 Move in, rig up Bayless #3. Unable to kill well w/ rig pump. Wind blowing oil into rig. SDON. (SSD)

01-06-81 Kill well down tubing. Trip out w/ mill shoe. Well came in. Unable to kill. SDON. (SSD)

01-07-81 Kill well w/ Cementers Inc. pump truck. Trip in w/ hydrostatic bailer and retrieving head. Tag fill @ 6943' K.B. by tally. Ran to 6980' K.B. by tally and unset bridge plug. Pulled up above perfs and well came in. Unable to kill completely. SDON. (SSD)

01-08-81 Mixed 500 bbl. 9 lb/gal. salt water and killed well. Trip out. Did not get bridge plug. Had fishing neck and safety nut off of bridge plug in retrieving head. Trip in w/ overshot to 6990 ft. SDON. (SSD)

01-09-81 Tagged plug @ 6998' K.B. Unable to pull free. Could not get a bite on bridge plug. Trip out w/out bridge plug. Marks on overshot indicated on metal, 3-3/4" OD circle. Trip in w/ same overshot. Spudded on bridge plug. Trip out, had bridge plug. SDON. (SSD)

01-10-81 Ran in tagged fill and cleaned out to 7089' K.B. Pulled up and landed w/ 219 joints in hole, seating nipple on bottom @ 6880' K.B. Swabbed well in and blew for 4-1/2 hours. Well making 80% oil, 20% frack water. Started potential test 5 P.M. (SSD)

01-11-81 Well produced 184 BO & 32 BW & 693 MCF gas on 3/4 choke in 24 hours. Tbg. pressure 55,casing pressure 550, gravity of oil 48.2° API . Shut in to complete surface installation. (JGM)