5. LEASE Jicarilla 70

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

| GEOLOGICAL SURVEY  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME   |
|--|--|
| GEOLOGICAL SORVET  | Jicarilla Apache   |
| SUNDRY NOTICES AND REPORTS ON WELLS  | 7. UNIT AGREEMENT NAME   |
| SUNDRY NOTICES AND INC. ON TO BE BOOK to a different   | · · · · · · · · · · · · · · · · · · ·  |
| Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9–331–C for such proposals.)   | 8. FARM OR LEASE NAME  |
| 1 oil - 525 -  | Jicarilla 70   |
| well W well other  | 9. WELL NO.  |
| 2. NAME OF OPERATOR  | 10 = 0   |
| Chace Oil Company, Inc.  | 10. FIELD OR WILDCAT NAME S. Lindrith Gallup Dakota  |
| 3. ADDRESS OF OPERATOR   | 11. SEC., T., R., M. OR BLK. AND SURVEY OR   |
| 313 Washington, 3. h., indequal-que,   | AREA SECTION S |
| 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below) Unit "C" 660' NL & 1650' WL  | Sec. 34, T24N,R4W  |
| below.) Unit "C" 660' NL & 1650' WL AT SURFACE:  | 12. COUNTY OR PARISH 13. STATE   |
| AT TOP PROD. INTERVAL:   | Rio Arriba New Mexico  |
| AT TOTAL DEPTH:  | 14. API NO.  |
| 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,  | 30-039-22683   |
| REPORT, OR OTHER DATA  | 15. ELEVATIONS (SHOW DF, KDB, AND WD)  |
|  | 7002 DF 7003 KB 6991 GR  |
| REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF  | <b>र्द</b> मुख्य । असे सम्ब  |
| TEST WATER SHUT-OFF  | der version of the second of t |
| FRACTURE TREAT   |  |
| SHOOT OR ACIDIZE   | (NOTE: Report results of multiple completion or zone   |
| PULL OR ALTER CASING   | change on Form 9-330.)   |
| MULTIPLE COMPLETE  | JO 00 1982 - 43\$\$ - F ELBS C   |
| CHANGE ZONES   |  |
| ABANDON*   | ေသမ္းေႏြးရည္ခ်ဳပ္ မီး ရိုက္ခ်ဳပ္ေဆိ  |
| (other)<br>Progress Report   | - [의 시 사 기계 발표회 <u>라 - [티 티티킨스 - 함</u>   |
|  | te all pertinent details, and give pertinent dates,  |
| 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stational control of the c | directionally drilled, give subsurface locations and   |
| including estimated date of starting any proposed work. If well is measured and true vertical depths for all markers and zones pertine   | 1  |
|  | 로그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그   |
|  | 0.000 (1. |
| See Well History attached.   |  |
| See Well History accached.   |  |
| /2 P   |  |
|  | The state of the s |
| 100 +  | State of the control  |
| OST. C   | . <b></b>  |
| \ ? @  | State of the state |
| \ \ \omega \omega \ \ | The bandur but bought one will between Ender the received are the received and another the received and another the received to the received t |
| \ ?  | steved to an analysis of the control |
|  | ant bang<br>94 side<br>ban lak<br>ala 916 t<br>oldapih<br>ondani o<br>ragny t<br>ragnya<br>ta bord<br>pandool  |
|  | ton eldini le el |
|  | The paradic and bangle in the paradic and have a least liquid to another the paradic and p |
| Subsurface Safety Valve: Manu. and Type  |  |
| 18. I hereby certify that the foregoing is true and correct  | The partition of the pa |
| 18. Thereby certify that the integoring is a rough President   | The person of th |
| SIGNED J.W. MULL TITLE PLESTABILE  | DATEDATE   |
| (This space for Federal or State   | office use)  |
|  | DATE TO THE TAX TO THE |
| APPROVED BY ACCEPIED FOR RECORD TITLE  | DATE SALES S |
| CONDITIONS OF APPROVAL, IF ANY:  | nul ned  |
| AUG 1 0 1982   | and nead a modelle and nead a modelle and a  |
| AUU 10102  |  |
| EADMINICTION DISTRICT *See Instructions on Revers  | se Side  |
| NMOCC  |  |
| BY FINOUG  |  |

# Well History Chace Oil Company Jicarilla 70-10

#### 7-26-82:

Moved Spartan rig in, and Nasco. Pulled tubing and rods. Set bridge plug at 6815'. Ran correlation log.

#### 7-27-82:

Tested casing. Old Gallup perfs broke down. Pumped in 5 BPM at 2700'. Went in hole with 2 3/8" tubing. Spotted 1200 gallons 7½% Hcl from 6815 to 5460'. COHWT&P. Old and new correlation log would not jibe. Re-ran correlation log from 6800 up to short joint @ 5782t, plus one collar. Went in and perforated 6702,6704, 6712, 6754, 6756, 6758, 6760, 6762. COHWG. WBIHWT&P and set packer at 6620t. Broke Tocito down @ 1700#. 6½ BPM @ 3400#. Dropped 50 balls. Could not ball off. Hooked Nasco to csg. side, and pumped acid into Gallup formation. Took fluid and acid at 8½ BPM @ 1400#. Broke off Nasco, and hooked up to swab. Swabbed Tocito through 2 3/8" tbg. Second swab gas, oil and water. Continued swabbing till noon. Mostly oil and gas. Unseated packer, and COOHWT. Pick up 2 7/8" tubing. Strap into hole (.4½ Baker model "R" pkr.) Set @ 6600. 7:45 P. M.

```
Prepare to frac. 8:15 P. M.
3600# @ 9.8 BPM
3700# @ 11.6 BPM
Shut down to reset popoff valve. Tested popoff. Taking out valve, be-
cause it pops at 4000#. Will be fracing up to 4500#.
.00529 @ 6600. 38 bbl. capacity.
4000# @ 13.8 )
               190 bbl. pad
4200# @ 14.2 )
3700# @ 12.3 )
1/2 lb. 3800# @ 12.0 )
                        119 bbl.
        3700# @ 12.0 )
3/4 lb. 3700# @ 11.7 )
                        105 bbl.
        3900# @ 11.7 )
        4000# @ 11.8 )
1/2 lb. 4000# @ 12.0
        4200#
                         12.3 bbl.
Start flush
For. stopped tubing fluid.
Total fluid: 436 bbl.
Flowed back about 2 min. SI 1700#. Tried to pump in 25.8 bbls. Surged
it again. Flowback 4 min. Pumped in 2900# @ 7.4 BPM. Flush 49.7 bbls.
1/2 2500
    3307
3/4
      378
1/2
                       Total fluid: 503
Tot. \overline{6185} sd.
ISIP 2100#.
15 min. SIP 2100# - 10:00 P. M.
After 3 hours, SIP 1700#.
```

## Jicarilla 70-10

#### 7-28-82:

```
1:15 A. M. Opened up. Flowed back water w/ skim oil. Very little sd.
After 1 hr 45 min., small stream water. Will unseat packer and circulate.
Come out of hole. Lay down 2 7/8".
4:15 A. M. GIHW bridge plug. Set @ 6640.
9:30 Prepare to frac Gallup. Breakdown formation. Establish rate.
35.6 @ 2200#
46.4 @ 2700#
47.6 @ 2700#
ISIP 600#. Balls in hole (20).
3200# @ 8.2 BPM. 2 balls per bbl. Total 100 balls.
2800# @ 12.1. Several good breaks
ISIP 900#. Total fluid: 196.5 bbl.
GIHWJB. Pick up balls. 10:45 A. M. Picked up 14 hits.
Pad:
3200# @ 30.7 BPM
3300# @ 35.7 BPM
                       470 bbl.
3200# @ 39.2 BPM
3160# @ 40.5 BPM
3000# @ 35.1 BPM
1/2# sd. 3000# @ 35.4 BPM 121 bbls.
         3000# 34.9 BPM
         3100 @ 34.6 BPM
l# sd
         2800 @ 35.2 BPM
         2700 @ 36.0 BPM
                                124 bbl.
         2500 @ 35.4 BPM
          2300 @ 36.4 BPM
          2100 @ 36.7 BPM
1 1/2 # sd 2100 @ 36.4 BPM
             1900 @ 36.2 BPM
                                 245 bbls.
             2600 @ 39.6 BPM
             3100 @ 35.0 BPM
                                 Total sd 60,100#
Flush 9.3 bbls. 3200# Shut down.
Surge back.
Continue flush 47.9 bbls.
              - 12
I shut in 300 \# - \overline{35.9}
Shut in 3 hours. Bled down. GIH with mill. Located about 1000' sd
in hole.
7-29-82:
```

Twisted off @ 5557 while milling on bridge plug. Fishing.

## 7-30-82:

Milling and fishing.