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## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

|                 | Budget E   | Bureau No. 42⊶f(14 |
|-----------------|------------|--------------------|
| 5. LEASE        |            |                    |
| <b>→</b> 068990 |            |                    |
| 6. IF INDIAN,   | ALLOTTEE O | R TRIBE NAME       |

| GEOLOGICAL SURVEY  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME   |
|--|--|
| GEOLOGIONE SCHIEF  | S. II INDIAN, ALLOTTEE OR TRIBE NAME   |
| SUNDRY NOTICES AND REPORTS ON WELLS  | 7. UNIT AGREEMENT NAME   |
| (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.)   | <u> </u>   |
|  | 8. FARM OR LEASE NAME  |
| 1. oil gas (X) other   | Hudson E   |
| 2. NAME OF OPERATOR  | 9. WELL NO.  |
| Tenneco Oil Company  | 10. FIELD OR WILDCAT NAME  |
| 3. ADDRESS OF OPERATOR   | Fulcher Kutz   |
| 720 S. Colo. Blvd., Denver, CO 80222   | 11. SEC., T., R., M., OR BLK. AND SURVEY OR  |
| 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17   | AREA EAREA   |
| below.) AT SURFACE: 480'FSL, 800'FEL   | Sec. 33; T30N; R12W=   |
| AT TOP PROD. INTERVAL:   | 12. COUNTY OR PARISH 13. STATE  San Juan New Mexico  |
| AT TOTAL DEPTH:  | San Juan New Mexico  |
| 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,  | <u>                                     </u>   |
| REPORT, OR OTHER DATA  | 15. ELEVATIONS (SHOW DF, KDB, AND WD)  |
| REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:   | 5729'KB  |
| TEST WATER SHUT-OFF  |  |
| FRACTURE TREAT   |  |
| SHOOT OR ACIDIZE   | 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  |
| PULL OR ALTER CASING   | (NOTE: Report results of multiple completion or zone change on Form 9–330.   |
| MULTIPLE COMPLETE  | ASARAR A SECTION ASARA   |
| ABANDON*   | [M. ] HE SE  |
| (other) workover FARM TRAIN TO THE FARM TRAIN TR |  |
| 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is di   | rectionally drilled discounterprises Inserting a second  |
| measured and true vertical depths for all markers and zones pertinen   | t to this work.)*  |
|  | 목표를 받는 것 한 환경이   |
| 2/13/80  |  |
|  |  |
| We propose to fracture treat the Hudson E #1   | well by following the  |
| attached procedure.  |  |
|  | A Digital Control of the Control of  |
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|  | 그때 프론 전 및 구 - 교육 및   |
|  | intelligence of the control of the c |
|  |  |
|  | 78 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| Subsurface Safety Valve: Manu. and Type  | Set @ Ft.  |
| 18. I hereby certify that the foregoing is true and correct  |  |
|  | 188 000  |
| SIGNED TITLE Admin. Superv   | VISOPDATE 12/10/10/10  |
| (This space for Federal or State office  | ce use)  |
| APPROVED BY  | DATE DATE  |
| CONDITIONS OF APPROVAL, IF ANY:  | and and moil moil moil moil moil moil moil moil  |
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\*See Instructions on Reverse Sid

|   | LEASE Hudson E   |
|---|--|
|   | WELL NO. 1   |
|   | 16 "OD, 60 LB, CSG.W/ 10 SX  |
|   | TOC @ Surface?   |
| 40'                                     |  |
|   | 7 "OD, 20 LB, CSG.W/ 50 SX   |
| roposed)                                | TOC @  |
| -55 NUE)                                | DETAILED PROCEDURE  1. MIRUPU. Blow dn csq & tbg to atmosphere. Kill well w/water if necessary.  2. Install Radigan tbg BOP & pull 1" syphon string.   |
| roposed)                                | 3. Install Larkin type K 7 x 3½ head. Install double ram BON   |
| (''IJ')                                 | 4. Run 3½ 9.2# J-55 NUE 10rd tbg to 1901' PBTD. Use centralizers on 4th, 6th & 8th it & every 4 its thereafter. Use slotted BP shoe & omega latch dn baffle on bottom.  5. Displace 3½" csg w/water, then cement in place w/170 SX 65-35 cement having 12½% gel, 12½ #/SX gilsonite followed by 80 SX B cement w/4% gel, 2% CaCl <sub>2</sub> , 12½ #/SX gilsonite. Flush lines, drop omega wiper plug & displace w/100 gals 10% acetic acid followed by water. Do not overdisplace. WOC 12 hrs. |
|   | 6. Install Larkin type MX 3½ x 1½ tbg head. Install BOPE.  7. RIH w/1¼" IJ tbg & circulate hole clean using 1% KCL   |
|   | water. Spot 100 gals 15% DI HCL across zone.   |
|   | 8. Run GR/CNL/CCL & perf' porosity using 2-1/8" Hyperdome I expendable hollowcarrier gun (2 SPF).  |
|   | 9. Breakdown perfs w/1% KCL water. Obtain rates & pressures Spearhead 500 gals 15% HCL & foam frac per attached schedule using 30,000# 10-20 sand. RD frac trucks & flow back to pit.  |
| 1805                                    | 10. After cleanup, run 1½" 2.4#, J-55 IJ 10rd tbg & CO to bottom. Land tbg 1 jt off bottom. Blow well through tbg to pit.  |
| (++++++++++++++++++++++++++++++++++++++ | 11. PDMOPU.  |
| ( ±    ± ;<br>( ±    ± ;                |  |
| (                                       | O8' PBTD   |
| (Gravel )                               | 55' TD   |
|   |  |
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