13

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

| Land | App | rova | l expi | res 12 | -31 | -60. | | |
|---------|-----|------|----------|--------|----------|------|---|--|
| Lease | S | |)78 1 | 06/ | * | | | |
| | R | E | G | E | | V | E | |

FFR 29 150U

SUNDRY NOTICES AND REPORTS ON WELLS

| | | | | | S GEOLOGICAL SURVE |
|---|--------------------------------------|--|--|--|---|
| NOTICE OF INTE | TION TO DRILL | | SUBSEQUENT REPOR | T OF WATER SHUT-OFF | ARMINGTON, NEW MEXIC |
| NOTICE OF INTE | TION TO CHANGE PLANS | | il . | T OF SHOOTING OR ACIE | A |
| NOTICE OF INTE | NTION TO TEST WATER SHUT- | -OFF | SUBSEQUENT REPOR | T OF ALTERING CASING. | |
| NOTICE OF INTER | TION TO RE-DRILL OR REPA | IR WELL | SUBSEQUENT REPORT | T OF RE-DRILLING OR R | EPAIR |
| NOTICE OF INTER | NTION TO SHOOT OR ACIDIZE | <u>:</u> | SUBSEQUENT REPOR | T OF ABANDONMENT | |
| NOTICE OF INTENTION TO PULL OR ALTER CASING | | | | | i Y |
| 1 | TION TO ABANDON WELL | ļ | | | |
| | | | | | |
| | (INDICATE ABOVE | E BY CHECK MARK NA | TURE OF REPORT, NOTIC | CE, OR OTHER DATA) | |
| | | - | Febr | uary 23 | , 1960 |
| Care | on Unit | | | | |
| | 13 19 | 80 6 6 | [N] 1: 11980 | ([] | 13 |
| Well No. 22- | is located */ | ft. from | line and | ft. from $\left\{\begin{matrix} E \\ W \end{matrix}\right\}$ | ine of sec. |
| SE NW 13 | 25 | N. 12 | N. N. | M.P.M. | Zerru > |
| _ | | | | Meridian) | |
| Bisti | I Bec. No.) | (Twp.) (Ra San J | | Median) | |
| DIB 01 | | (County or Si | 44 | (State or Te | erritars) A |
| (1.4 | Kelly Eush | , - | , | (4.44.0 | WAR 2 1960 |
| The elevation | of the classical states | ahove sea level | is 6385 ft | \ : | Oh mari |
| The elevation | OI CITCAGAGAGAGAGAGAG | above sea level | 10 | 1 | |
| | | DETAILS | S OF WORK | | |
| (6. | | | | | |
| (State names of an | d expected depths to objective ing | e sands; snow sizes, g points, and all othe | weights, and lengths or ir important proposed v | proposed casings; indica vork) | ite mudding jobs, cement- |
| -30-59 Ran a | nd cemented (502 | 51). 4-1/2". | 9.5#. J-55 c | esing at 5034 | ' with 150 sacks |
| to 220 c | u. ft. Fortland | gement trans | ted with Abore | al. Surface t | emperature 15°±F, |
| -1-59 forma | tion temperature | 1200F+ R | stimated stres | oth of cement | after 12 hrs. |
| JOVE COLUMN | oron combetacons | uith ail be | ald 1800 net. | OK. Bullet n | erforated four 1, |
| 1,000 halaa | /ft. 4864-87, 48 | 602-1006 10. | 12_63 1062_7 | one section b | czickietow rowe sy |
| | | 77-4700, 474 | AJUNE AFORE | | |
| | d frac tanks | | . 49 . 6 | a water and one | |
| -3-59 Spott | ed 200 gal. mud | acid. Sand | oll lractured | A March 20,000 | gall. crude, 1#/6 |
| | | | seure increase | , maximum pre | seure of 2250 ps |
| Avers | ge rate 28.1 bbl | s/min. | | | |
| | d frac sand. Ha | un 2-3/8" tul | bing to 4870. | | |
| -5-59 Ran r | ods and pump | | | | |
| | | | | | |
| | | | | | |
| I understand th | at this plan of work must re | ceive approval in wr | iting by the Geological | Survey before operations | s may be commenced. $	hinspace^{q_{pos}}$ |
| | | | | | |
| | | | | | |
| Company | Shell Oil Compan | y | | | |
| | | | | | · |
| | Shell 011 Compan st Office Box 15 | | | | |
| | | | | Original si | |
| Address Po | st Office Box 15 | <u> </u> | | Original si | ราย A กาซ |
| Address Po | | <u> </u> | | Original si P. W. S.I | RPARD |
| Address Po | st Office Box 15 | <u> </u> | Ву | Original si B. W. S.I | RPARD |

12-6-59 Pumped and recovered all load and frac oil, 1583 bbls, plus 30 bbls to formation

1-4-60

1-5-60 Fished and recovered stuck rods and pump

1-18-60

1-19-60 INITIAL PRODUCTION

Pumping 30 B/W gross, 30 B/D oil, cut 0.4%, gas 48 MCR/D, GUK 1600. 1-4-60.

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13

| Budget Bureau No. 42–R355.4. Approval expires 12–31–60. | |
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| Santa Fe, N. 1 | ij, |
| U. S. LAND OF 13 07 3064 | |
| SERIAL NUMBER | |
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UNITED STATES

LE DEPARTMENT OF THE INTERIOR

CHRVEY

LOG OF OIL OR GAS WELL

| LO | CATE WE | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | *** | | 9.0 |
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| Lessor | or Trac | edera et | ll - | var T | 3081 #57 | ິກແຮ ~~•~~~~~ | | Fie | $_{ m eld}$. | P.T | | State | ACW 183 | ************************************** |
| Well N | 22 - 13 [0, 3 | S | ز⊥ ec | T | ! | . R | Meri | dian | • • | • | Cou | ∴a. J mty | uan | |
| Locati | 1930 on | ft. | $\left[N. \right]_0^{I}$ | ý f | _ Lir | 1 930 ne and | <u> </u> | $\left\{ egin{array}{c} \mathbf{E} \cdot \\ \mathbf{W} \end{array} ight\} \mathbf{of}$ | - | Line | Gec. 13 | | Eleva | 6335 .5 |
| \mathbf{T} | he infor | matio | n give | en he | rewi | th is a cor ll availabl | mplet | e and co | orrec | t rec | ord of the w | ell and al | l work d | lone thereon |
| | bruary | | | | | | Sig | gnea | | | Title | tation | In tinee | r |
| \mathbf{T} | he sumi | nary o | n thi | s pag | e is i | for the cor | ndițio | n of the | well | at a | bove date. | | 20 | רה |
| Comm | enced d | rilling | | | | | | | | | rillingN | OAGROUL | | , 13 |
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| Ma 1 | fnor | | | | to | IMPO | | NT WA | | | NDS 11 | t c | | |
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| | Waterland | | | | | | | | | | | Perfo | ated | |
| Size casing | Weight per foot | | inch | 1 | | ke Ame | ount Po | i | shoe | Cut | and pulled from | From- | To- | Purpose rface |
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| casing | 121 t | e set | 1 | 100 | | s of cement | ा छठ | Method u Lacemen | | _ - | Mud gravity | - | nount of m | |
| 124 | 5 03lt* - | * | | | | | 0150 | Lacemen | 3.5 | | - | | | |
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| лиари | 618111 | t ver rar | | | | | | TING R | | | | ******* | | |
| Size | , | Shell us | ed | | Explo | sive used | | Quantity | D | ate | Depth shot | | Depth clear | ned out |
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| | | | | | | , Drill | ler | | | | | | | , Driller |
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| FORMATION RECORD | | | | | | | |
|------------------|--------------|------------|-------------------|--|--|--|--|
| FROM | TO- | TOTAL FEET | FORMATION | | | | |
| 1196 | 2324 | 193 | Pictured Chiffs | | | | |
| 1394 | 1553 | 159 | Lewis | | | | |
| 1553 | 20M | 491 | Cliff dome | | | | |
| 2044 | 3 640 | 1636 | Allison - Benefee | | | | |
| 3630 | 3755 | 175 | Point Lookout | | | | |
| 3355 | 1,707 | 912 | Mancos | | | | |
| h767 | - | | (An 17 mm | | | | |

approximation of the construction of the configuration of the configurat

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SHELL OIL COMPANY

Carson Unit 22-13

Bisti

DRILLING REPORT FOR PERIOD ENDING

San Juan, New Mexico

12-1-59

(SECTION OR LEASE)
T25N R12W

| | (COUN | TY) | (TOWNSHIP OR RANCHO) |
|----------------------|---------|------------|---|
| DAY | DE | PTHS | |
| ŀ | FROM TO | | REMARKS |
| | | | Location: 1980' S and 1980' E of NW Corner, Section 13, T25N, R12W, NMPM, San Juan County, New Mexico. Elevations: GR 6375.6' DF 6383.3' KB 6384.8' |
| 11-24 to 11-25 | 0 | 2498 | Spudded 12 noon, 11-24-59. Ran and cemented (110') 8-5/8", 28#, J-55 casing at 121' with 100 sacks cement treated with 2% calcium chloride. Good returns to surface. Pressure tested casing and BOP with 700 psi, OI |
| 11-26 to 11-29 | 2498 | 4912 | Drilled 2514° |
| 11-30 to 12-1 | | 5035 TD | Drilled 123' Ran micro-SP log. Ran and cemented (5025') 4-1/2", 9.5#, J-55 casing at 5034' with 150 sacks cement treated with 4% gel. Displaced with oil. Final pressure 1700 psi, OK. Released rig 3-00 AM, 12-1-59. Checked BOP daily Mud Summary wt. 9.3-9.6#/gal. vis. 44-120 sec. WL 5-7 ec. FC 1-2/32" Contractor: Brinkerhoff Drilling Co. Company Pusher: C. L. Christiansen |
| | HOLE | | SING SIZE DEPTH SET |
| SIZE | FROM | то | |
| | | | |

DRILL PIPE

SHELL OIL COMPANY

Carson Unit 22-13

Bisti

DRILLING REPORT FOR PERIOD ENDING

| | 7- | |
|--|--------|--|

(SECTION OR LEASE) T25N R12W (TOWNSHIP OR RANCHO)

13

(FIELD) Sar Juan, New Mexico 1025000

| | (COUNTY) | | (TOWNSHIP OR RANCHO) |
|-----------------------|------------|----|--|
| DAY | DEPTHS | | REMARKS |
| 12-1 | 5035 TD | TO | Perforated four 1/2" bullet holes/ft. 4864-87, 4893-4906, 4943-53, 4962-70. |
| 12-2 | | | Filled frac tanks. |
| 12-3 | | | Spotted 200 gal. mud acid. Sand oil fractured with 50,000 gal. crude, 1#/gal. sand. Dropped 140 balls - no pressure effect. Maximum pressure 2250. Average rate 28.1 bbls./min. |
| 12-4 | | : | Bailed fram sand 4935 to 5000°. Ran 2-3/8° tubing to 4870°. |
| 12-5 | | | Ran rods and pump. |
| 12-6-5 to 1-5-6 | | | Pumped and recovered all load and frac oil, 1583 bbls. and 42 bbls. formation oil. |
| 1-6 | | | Shut down - pump sticking |
| 17 | | | Rods appear to be waxed up. Hot oiled well. |
| 1⇔8 | | | Pump still stuck. |
| 1-9 | | | Stripped out rods. Recovered 86 3/4" and 3 5/8" rods. Pulled 75,000# on tubing would not move. Worked tubing up and down. After 2 hrs. tubing worked down 1-1/2". Left 75,000# pull on tubing overnight. |
| 1-10 | | | Ran overshot and recovered 37 - 5/8" rods. |
| 1-11 | | | Backed off and recovered $34 - 5/8^n$ rods in two trips. |
| 1-12 | | | Backed off and recovered $32 - 5/8^n$ rods. Pulled 17000# on fish. Backed off $6^n \pm 6$. |
| 1-13 | | | Backed off 7/8" rod string and found overshot parted. While waiting on new overshot, pulled on tubing and tubing came free. Well started to flow through casing. Killed well. |

| | HOLE | | CASING SIZE | DEPTH SET |
|-----|-----------|----|-------------|-----------|
| . E | FROM | то | | |
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SHELL OIL COMPANY

Carson Unit 22-13 WELL NO.

Bisti

(FIELD)

DRILLING REPORT FOR PERIOD ENDING

13

(SECTION OR LEASE) T25N R12W (TOWNSHIP OR RANCHO)

| San | (FIELD Таат <u>, Т</u> тийоо) | | 1eo | T25N R12W |
|--------------------|-------------------------------------|-----|---|------------------------|
| | (СООИТ | Υ) | | (TOWNSHIP OR RANCHO) |
| DAY DEPTHS | | тнѕ | | |
| - | FROM | то | REMARKS | |
| 1-15 | | | Pulled tubing. Found 3 joints filled with fill in casing at 49129. | frac sand. Top of sand |
| 1-16 to 1-17 | | | Bailed frac sand and formation sand? to 500 | o°. |
| 1-18 to 1-19 | | | Ran 2-3/8" tubing to 4870". Ran rods and p | cmp. |
| 1-20 to 1-24 | | | Pumped 413 bhis. icomation oil. | |
| 1-25 | | | INITIAL PRODUCTION Pumping, 30 B/D gross, 30 B/D clean, 0 GOR 1600. Completed 1-4-60. | .4% cut, gas 48 MCF/D, |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | AT BEGINNING OF PERIOD | |
| | HOLE | C. | SING SIZE DEPTH SET | |

SIZE FROM TO 8-5/8" 12-1/4 1211 115 7-7/8 4-1/2" 50341 115 5035 DRILL PIPE 1-1/2"

M. W. McGarry, Jr.