RELEASED

ORIGINAL CONTIDENTIAL

| STATE CORPORATION COMPRESSION OF CANADE DEN | API NO. 15- 175-21,114-0000 |
|--|---|
| OIL & GAS CONSERVATION DIVISION WELL COMPLETION FORM | County Seward |
| ACC-1 WELL HISTORY DESCRIPTION OF WELL AND LEASE | |
| Operator: License # 04782 | 3960 Ft. North from Southeast Corner of Section |
| Name: Ensign Operating Company | 3300 Ft. West from Southeast Corner of Section |
| Address 621 Seventeenth Street; Suite | (NUIE: Locate Hell in Section plat below.) |
| · | Lease Name Quillin Well # 1-4 |
| City/State/Zip Denver, Co 80293 | |
| Purchaser: | Producing Formation Marmaton |
| Operator Contact Person: Jerry Simmons | Elevation: Ground 2800 KB 2811 |
| Phone (<u>303)</u> 293–9999 . | Total Depth 6,000 PBTD 5588 |
| Contractor: Name: H-30 Drilling, Inc. | 1950. 1920. |
| License: 5107 | 3960 |
| Wellsite Geologist: | 3630 1300 2970 |
| Designate Type of Completion X New Well Re-Entry Workover | 2640 1 2710 1 2710 1 |
| X Oil SWD Temp. Abd S | Wichita, Kansas Wichita, Wichita, Kansas Wichita, Wichita, Wich |
| Gas Inj Delayed Condi- | 990 MT (92 |
| If OLANO: old well info as follows: | 年 5 1018 |
| Operator: | ्र अविविधानित्रतितित्रतित्रतित्रत्ति । प्राप्ति । प्रा |
| Well Names | Amount of Surface Pipe Set and Cemented at 4,4650 Feet |
| Comp. DateOld Total Depth | |
| Drilling Method: X Mud Rotary Air Rotary Cable | If yes, show depth setFeet |
| 11-18-89 11-29-89 12-2-89 | If Alternate II completion, cement circulated from |
| Spud Date Date Reached ID Completion Date | feet depth to W/ sx cmt. |
| Derby Building, Wichita, Kansas 67202, within 120 days 82-3-106 apply. Information on side two of this form will writing and submitted with the form. See rule 82-3- wireling loss and drillers time loss shall be attached with | and filed with the Kansas Corporation Commission, 200 Colorado s of the spud date of any well, Rule 82-3-130, 82-3-107 and be held confidential for a period of 12 months if requested in 107 for confidentiality in excess of 12 months. One copy of all this form. (ALLICEMENTIME TICKETS FUST BETATTACHED). Submit CP-4 all temporarily abandoned wells. Any recompletion, workover or ays from commencement date of such work. |
| All requirements of the statutes, rules and regulations promu with and the statements herein are complete and correct to | Algated to regulate the oil and gas industry have been fully complied the best of my knowledge. |
| signature Ry Production Operations Manager pate 3 | K.C.C. OFFICE USE ONLY Letter of Confidentiality Attached Wireline Log Received Drillers Timelog Received |
| STIERS DUNING TO THE LOCAL STREET | KCC Distribution SWD/Rep NGPA Plug Other |
| Date Commission Expires October 21, 621 17th St. Suite 1800 | 1991 |
| Denver, Colorado 80293 | |

SIDE TWO

| Operator Name E | nsign Oper | ating Company | Lease Name | Qui | il <u>li</u> n | ⊌ell# | 1-4 |
|---|-----------------------------------|---|-----------------------------|--------------------------------------|----------------------------------|--------------------------|--|
| | | East | | Sewar | | | |
| ec. <u>4</u> Twp. <u>32</u> | Cn. 21 | □ East Nest | county | Dewar | | | |
| nterval tested, tim | e tool open ar , bottom hole 1 | and base of formation nd closed, flowing a temperature, fluid re ppy of log. | nd shut-in pres | ssures, wheth rates if gas | er shut-in pre to surface dur | ssure read ing test. | ched static level, Attach extra sheet |
| n.U.Stem jestselako (Attach Additional | | Yes No | | | Formation Desc | ription <u></u> | fee attoched |
| amples Sent to Geol | ogical Survey | X Yes No | | | Log 🛛 | Sample | Rochio |
| ores Taken | | Yes X No | Name | | Тор | Bott | om |
| lectric Log Run (Submit Copy.) | | Yes No | Sand Sand, Re Red Bed | d Bed and | Anhydrite | | 540' 1,302' |
| | RELE | ASED | Lime and Shale | Shale | 1 | | 1,757' 2,210' 2,610' |
| | | O 1990 ONFIDENTIAL | Lime and Shale | | 2 2 | ,610' ,973' | 2,973' 3,185' |
| | Lime and Rotary T | Shale otal Depth | | | 6,000' 6,000' | | |
| | Report a | CASING RECORD | New U | sed ntermediate, | production, et | c. | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface | 12-1/4" | 8-5/8" | 24# | 1650' | Lite Wt. | 600 | 2% cc |
| Production | - | 4-1/2" | 10,5# | 5633' | Class C Class H | <u> 100</u> 325 | 2% cc 3% KCL 7% Ha |
| | - | | | | | | .25% CDL |
| Shots Per Foot | PERFORATION Specify Footage | N RECORD ge of Each Interval F | Perforated | | Fracture, Shot, | | weeze Record Depth |
| 4 JSPF | 5000-500 | 06' | | 900 gal | 15% Fe HC | 1 | 5000-5006 |
| | | | | 4000 ga] 5500 ga] | W00-202 28% Fe | | 5000-5006 5000-5006 |
| | <u> </u> | | | | | | |
| | | | | | | | |
| TUBING RECORD | Size 2-3/8" | Set At 5048' | Packer At | Liner Run | ☐ Yes 🗓 | No | |
| Date of First Produ 12/8/89 | ction Produci | ng Method Flowing | W _{Pumping} D | Sas Lift [| Other (Explain) | | |
| Estimated Productio Per 24 Hours | n oil 12 | Bbts. Gas | Mcf Wate | | Gas-Oil | Ratio | Gravity 39 |
| isposition of Gas: | | | THOO OF COMPLET | | | 11 - 1 | Production Interva |
| Vented Sold | | | Hole Perfo | oration 🔲 [| i Dually Completé | Com | ningled |
| | | □ Other | (Specify) | อุรูปชี สภาไตุลด 1 โดยเมลิ - 12 ร | <u></u> .i |) (2) kg - (2) (2) kg | |
| | | | 0.1 17.2 10.0 | 12 12 12 1 | (<u> </u> | ` - | |

QUILLIN #1-4 Section 4-T32S-R31W Seward County, Kansas

| Formation Tops | Depth | Datum |
|----------------|--------|--------|
| Herrington | 2641' | + 169' |
| Krider | 2704' | + 106' |
| Topeka | 3539' | - 729' |
| Heebner | 4265' | -1455' |
| Toronto | 4281' | -1471' |
| Lansing | 4374' | -1564 |
| Kansas City | 4610' | -1800' |
| Cherokee | 5188' | -2378' |
| Morrow | 5490' | -2680' |
| Morrow Sand | 5550' | -2740' |
| Chester | 5567 ' | -2751' |
| St. Genevieve | 5758' | -2948' |
| St. Louis | 5803' | -2993' |

CONFIDENTIAL

RELEASED

OCT 3 0 1990

FROM CONFIDENTIAL

ORIGINAL



ORIGINAL CONFIDENTIAL

Ensign Operating Co. #1-4 Quillin page 4

RELEASED

OCT 3 0 1990

SHOW DESCRIPTION: (Continued)

FROM CONFIDENTIAL

| <u>Formation</u> | <u>Interval</u> | Description |
|------------------|-----------------|---|
| Atoka | 5476'-5479' | Dolomite. Brown, dense-microsucrosic, brown oil stain, tight-poor vuggy porosity, dull-bright gold fluorescence, moderate pale streaming cut, strong ring? 25 unit hot wire increase. FAIR-GOOD SHOW. |
| Atoka | 5480'-5488' | Dolomite. Dark brown-dark gray, crystalline, tight-fair vuggy porosity, bright yellow fluorescence, instant pale streaming cut, strong ring. 10 unit hot wire increase. FAIR SHOW. |

DRILL STEM TESTS:

DST #1 5465'-5505' Basal Atoka 30-60-60-120

Initial blow: opened with strong blow, bottom of bucket in 4 minutes Final blow: opened bottom of bucket. Gas to surface 40 minutes at 22.9 MCFD Recovery: 10' Drilling Mud, No Show 5100 ppm C1

FP 31-31, 31-31 SIP 1786-1786 HP 2620-2514

BHT 125°

Pit Sample: 5000 ppm C1

DST #2 5494'-5576' Morrow Sand packers failed immediately. Misrun

DST #3 5545'-5576' Morrow Sand packers failed immediately. Misrun

GAS DETECTION:

Due to oversight by geologist, recorder clock stopped from 5478'-5849'. Otherwise equipment functioned very efficiently throughout the well.

RECEIVED
STATE CORPORATION COMMISSION

DOT 1 5 1990

P.O. BOX 951046 DALLAS, TX 75395-1046 HALLIBURTON SERVICES

A Halliburton Company

WELL/PLANT LOCATION

876713 12/01/1989 WELL/PLANT OWNER

DATE '

INVOICE NO.

KS SAME SEWARD V . 13. 2 CONTRACTOR JOB PURPOSE

SERVICE LOCATION TICKET DATE CEMENT PRODUCTION CASING IBERAL H-30 DRLG 12/01/1989 ACCT NO CUSTOMER AGENT VENDOR NO CUSTOMER P.O. NUMBER SHIPPED VIA COMPANY TRUCK 87050

273943 REED WACKER RELEASED

SENOJPLANT NAME

OCT 3 0 1990

DIRECT CORRESPONDENCE TO:

ENSIGN OPERATING COMPANY SUITE 600 GARDEN CITY, KS 67846 FROM CONFIDENTIAL COLORADO DERBY BUILDING

| PRICE REF. NO | DESCRIPTION | QUANTITY- | U/M∴ | UNIT PRICE | AMOUNT |
|---------------|--------------------------------|-----------|------|------------|----------|
| PRICING A | REA - MID CONTINENT | ł | | | |
| 000-117 | MILEAGE | 31 | MI | 2.20 | 68.20 |
| • | | 1 | UNT | | |
| 001-016 | CEMENTING CASING | 5634 | FT | 1,260.00 | 1,260.00 |
| | | 1 | UNT | <u> </u> | ı |
| 018-317 | SUPER FLUSH | 10 | SK | 72.00 | 720.00 |
| 314-163 | CLAYFIX II | 2 | GAL | 17.00 | 34.00 |
| 50 | FLUIDMASTER CENTRALIZER 4 1/2" | 8 | EΑ | 42.00 | 336.00 |
| 807.935 | 0 🛊 | } | | | |
| 66 | FASGRIP LIMIT CLAMP 4 1/2" | 1 | EA | 9.60 | 9.60 |

INVOICE CODING

| CODED BY BATCH # CAS INV. TYPE TB ACTIVITY DATE | 127 | APPROVED BY ON PROVIDE BY OUR DATE |
|--|-----|------------------------------------|
| CHECK DEMADES. | | • |

| ACCOUNT | AFE | PROPERTY | TYPE CO | OST CENTER | AMOUNT | DESCRIPTION |
|---------------|---------|----------|---------|---------------|----------|--|
| 957-076 | D 89DOG | <u>}</u> | | | 88 F. Co | t and the second |
| - | | | | , | | RECEIVED STATE CORPORATION COMMISSION |
| - | | L | | : | | 00T (R 100) |

INVOICE TOTAL - PLEASE PAY THIS AND

\$8,879.06