

STATE CORPORATION COMMISSION OF KANSAS
 OIL & GAS CONSERVATION DIVISION
 WELL COMPLETION FORM
 ACO-1 WELL HISTORY
 DESCRIPTION OF WELL AND LEASE

API NO. 15- 189-220620000

ORIGINAL

Operator: License # 5208
 Name: Mobil Oil Corporation
 Address P.O. Box 2173
2319 North Kansas Avenue
 City/State/Zip Liberal, KS 67905-2173

County Stevens
NE - SW - SW Sec. 16 Twp. 34 Rge. 36 X W
1250 Feet from SN (circle one) Line of Section
1250 Feet from EW (circle one) Line of Section

Purchaser: Spot Market
 Operator Contact Person: Sharon Cook
 Phone (316) 626-1142
 Contractor: Name: Norseman Drilling Inc.
 License: 3779
 Wellsite Geologist: L. J. Reimer

Footages Calculated from Nearest Outside Section Corner:
 NE, SE, NW or SW (circle one)

Lease Name Persinger #1 Unit Well # 2
 Field Name Hugoton

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Producing Formation Chase
 Elevation: Ground 3076 KB 3085
 Total Depth 3003 PBTD 2949

Amount of Surface Pipe Set and Cemented at 745 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set NA Feet
 If Alternate II completion, cement circulated from NA
 feet depth to NA w/ NA sx cmt.

If Workover:
 Operator: _____
 Well Name: _____
 Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back _____ PBTD
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) _____ Docket No. _____
4-21-96 4-24-96 5-21-96
 Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan ALT 1 4% 1-28-97
 (Data must be collected from the Reserve Pit)
 Chloride content 4,800 ppm Fluid volume 160 bbls
 Dewatering method used Waste Minimization Mud System
 Location of fluid disposal if hauled offsite:

Operator Name Mobil Oil Corporation
 Lease Name Foster #1 SWDW License No. 5208
SW Quarter Sec. 5 Twp. 34 S Rng. 36 EW
 County Stevens Docket No. D-19,820

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Sharon A. Cook Sharon A. Cook
 Title Regulatory Assistant Date 7-19-96
 Subscribed and sworn to before me this 19th day of July, 1996.
 Notary Public Kathleen R. Poulton
 Date Commission Expires August 18, 1998
 6-148.kcc

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
 C Wireline Log Received
 C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
 (Specify)

RECEIVED
 KANSAS CORPORATION COMMISSION



JUL 24 1996
 7-24-96
 CONSERVATION DIVISION
 WICHITA, KS

Operator Name Mobil Oil Corporation Lease Name Persinger #1 Unit Well # 2
 Sec. 16 Twp. 34S Rge. 36 East West
 County Stevens

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:
 NO LOGS RUN

Log Formation (Top), Depth and Datums Sample

Name Top Datum

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-----------------|---------------|--------------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| 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 Casing | 12.250 | 8.625 | 24# | 745 | Class C Class C | 225 180 | 50:50 C/poz 50:50 C/poz |
| Production Casing | 7.875 | 5.500 | 14# | 2994 | Class C Class C | 140 75 | 3% D79 2% B28 |

| ADDITIONAL CEMENTING/SQUEEZE RECORD | | | | |
|---|------------------|----------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|--|--|-------|
| 1 SPF | 2753-2768 | Acid: 1,000 gals 7.5% HCL | |
| | 2808-2823 | Fracd: 18,000 gals 20# Crosslink gel | |
| | | 80,080 lbs 12/20 Brady Sand | |

TUBING RECORD

| Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|------|--------|-----------|---|
| | | | |

Date of First, Resumed Production, SWD or Inj. 5-16-96 Producing Method Flowing Pumping Gas Lift Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | 274 | | | |

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval 2753
2823

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

DATE

PAGE DS DISTRICT

DS-496-A PRINTED IN U.S.A.

| | | | | | |
|--|--|---|--|--|--|
| WELL NAME AND NO. <i>Persinger 1.2</i> | | LOCATION (LEGAL) <i>SEC. 16-345-36W</i> | | RIG NAME: <i>WORKSM94 2</i> | |
| FIELD-POOL <i>HURON</i> | | FORMATION <i>SUIT</i> | | WELL DATA: BOTTOM TOP | |
| COUNTY/PARISH <i>STEVENS</i> | | STATE <i>KS</i> | | BIT SIZE <i>10 7/8</i> CSG/Liner Size <i>8 3/4</i> | |
| NAME <i>Mobil</i> | | API. NO. | | TOTAL DEPTH <i>750</i> WEIGHT <i>24</i> | |
| AND <i>JUL 24 1996</i> | | ADDRESS | | <input type="checkbox"/> ROT <input type="checkbox"/> CABLE FOOTAGE <i>745</i> | |
| SPECIAL INSTRUCTIONS | | MUD TYPE | | GRADE <i>W5550</i> | |
| IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO | | MUD DENSITY | | LESS FOOTAGE SHOE JOINT(S) <i>706</i> | |
| LIFT PRESSURE <i>300</i> PSI | | MUD VISC. | | Disp. Capacity <i>45</i> | |
| PRESSURE LIMIT <i>2000</i> PSI | | BUMP PLUG TO <i>660</i> PSI | | TOTAL | |
| ROTATE RPM RECIPROCATE FT No. of Centralizers | | NOTE: Include Footage From Ground Level To Head In Disp. Capacity | | | |

ORIGINAL

RECEIVED

| | | | | | | | |
|--|--|--|--|---|--|-----------------------------|--|
| SPECIAL INSTRUCTIONS <i>Display cmt 8 3/4 as per customer instructions</i> | | SHOE | | TYPE <i>6 1/2 PLATE</i> | | DEPTH <i>706</i> | |
| IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO | | SHOE | | TYPE <i>CMT NOSE</i> | | DEPTH <i>745</i> | |
| LIFT PRESSURE <i>300</i> PSI | | CASING WEIGHT SURFACE AREA (3.14 x R ²) | | HEAD & PLUGS | | SQUEEZE JOB | |
| PRESSURE LIMIT <i>2000</i> PSI | | BUMP PLUG TO <i>660</i> PSI | | <input type="checkbox"/> Double SIZE | | TOOL TYPE DEPTH | |
| ROTATE RPM RECIPROCATE FT No. of Centralizers | | ARRIVE ON LOCATION TIME: <i>1630</i> DATE: <i>4-21</i> | | <input type="checkbox"/> Single <input type="checkbox"/> WEIGHT | | TAIL PIPE: SIZE DEPTH | |
| | | LEFT LOCATION TIME: DATE: | | <input type="checkbox"/> Swage <input type="checkbox"/> GRADE | | TUBING VOLUME Bbls | |
| | | | | <input type="checkbox"/> Knockoff <input type="checkbox"/> THREAD | | CASING VOL. BELOW TOOL Bbls | |
| | | | | <input type="checkbox"/> TOP <input type="checkbox"/> NEW <input type="checkbox"/> USED | | TOTAL Bbls | |
| | | | | <input type="checkbox"/> BOT <input type="checkbox"/> DEPTH | | ANNUAL VOLUME Bbls | |

| TIME | PRESSURE | | VOLUME PUMPED BBL | | JOB SCHEDULED FOR TIME: DATE: | | | ARRIVE ON LOCATION TIME: DATE: | | LEFT LOCATION TIME: DATE: | |
|------|-------------|--------|-------------------|-----|-------------------------------|------------|---------------|--------------------------------|--|---------------------------|--|
| | TBG OR D.P. | CASING | INCREMENT | CUM | INJECT RATE | FLUID TYPE | FLUID DENSITY | | | | |
| 1805 | | 1500 | X | | | H2O | 8.3 | | | | |
| 1806 | | 150 | 25 | X | 5.7 | " | " | | | | |
| 1811 | | 190 | 77 | 25 | 5.7 | CMT | 12.8 | | | | |
| 1825 | | 200 | 38 | 102 | 5.7 | CMT | 14.6 | | | | |
| 1832 | | | | 140 | | | | | | | |
| 1833 | | 280 | 45 | | | H2O | 8.3 | | | | |
| 1836 | | 200 | 15 | | 5.7 | " | " | | | | |
| 1840 | | 350 | 37 | | 5.7 | " | " | | | | |
| 1843 | | 290 | 43 | | 2.5 | " | " | | | | |
| 1844 | | 660 | 45 | | 2.5 | " | " | | | | |
| 1845 | | 660 | | | | | | | | | |

REMARKS

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS | | | | SLURRY MIXED | |
|-------------|--------------|-----------------|--|---------|------|---------|--------------|--|
| | | | BBLs | DENSITY | BBLs | DENSITY | | |
| 1. | 225 | 1.99 | 20 C + 6% D-20 + 3% S-1 + 5% P-41 (Brow) + 1/4" P-29 | 77 | 12.8 | | | |
| 2. | | | | | | | | |
| 3. | 180 | 1.22 | 30 C + 2.5% S-1 + 1/4" P-29 | 38 | 14.6 | | | |
| 4. | | | | | | | | |
| 5. | | | | | | | | |
| 6. | | | | | | | | |

| | | | | | | | | | | | |
|--|--|--------------------------------------|--|------------------|--|---|--|--|--|---|--|
| BREAKDOWN FLUID TYPE | | VOLUME | | DENSITY | | PRESSURE | | MAX. | | MIN: | |
| <input type="checkbox"/> HESITATION SQ. | | <input type="checkbox"/> RUNNING SQ. | | CIRCULATION LOST | | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | <i>30</i> Bbls. | |
| BREAKDOWN | | PSI FINAL | | PSI | | DISPLACEMENT VOL. <i>45</i> Bbls | | TYPE OF WELL | | <input type="checkbox"/> OIL <input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT | |
| Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO | | TO | | FT. | | MEASURED DISPLACEMENT <i>45</i> | | <input type="checkbox"/> WIRELINE | | <i>895</i> | |
| PERFORATIONS | | TO | | TO | | CUSTOMER REPRESENTATIVE | | DS SUPERVISOR | | | |
| | | | | | | <i>RUSSELL WORLEY</i> | | <i>Referran</i> | | | |

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 25-12-2297 DATE: 4-23-96
 STAGE: DS DISTRICT: Ulysses, Ks

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. **Persinger #1-2** LOCATION (LEGAL) **Sec 16-34s-36w** RIG NAME: **NORSEMAN #2**
 FIELD-POOL **Hugoton** FORMATION **Wichita** WELL DATA: BIT SIZE **7 7/8** CSG/Liner Size **5 1/2** BOTTOM **2949** TOP **0**
 COUNTY/PARISH **Stephens** STATE **Ks.** API. NO. **1590** TOTAL DEPTH **2949** WEIGHT **1494** FOOTAGE **2994** ORIGINAL
 NAME **Mobil Oil Corp** MUD TYPE **Grade** GRADE **USS 55** MUD DENSITY **14.8** MUD VISC. **71.9** LESS FOOTAGE SHOE JOINT(S) **0** DISP. CAPACITY **71.9** TOTAL

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
 SPECIAL INSTRUCTIONS **RECEIVED KANSAS CORPORATION COMMISSION JUL 24 1996**

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE **1766** PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²) **1590** PSI
 PRESSURE LIMIT **1590** PSI BUMP PLUG TO **1590** PSI
 ROTATE RPM **1590** RECIPROCATATE FT **1590** No. of Centralizers

ARRIVE ON LOCATION TIME: **2:00** DATE: **4-23-96** LEFT LOCATION TIME: **02:00** DATE: **4-24-96**
 SERVICE LOG DETAIL

| TIME | PRESSURE | | VOLUME PUMPED BBL | | INJECT RATE | FLUID TYPE | FLUID DENSITY | SERVICE LOG DETAIL |
|------|-------------|--------|-------------------|-----|-------------|------------|--|--------------------|
| | TBG OR D.P. | CASING | INCREMENT | CUM | | | | |
| 0003 | 300 | | | | | | PRE-JOB SAFETY MEETING + PSI test | |
| 0005 | | 0 | 10 | | 5.6 | H2O | start + H2O ahead | |
| 0007 | | 250 | 69 | | 5.6 | cmt | start lead cmt. | |
| 0014 | | 110 | | 43 | 5.6 | cmt | PSI check | |
| 0019 | | 80 | 18 | | 3.8 | cmt | start tail cmt. | |
| 0022 | | 80 | | 10 | 3.8 | cmt | PSI check | |
| 0023 | | 0 | | | | | shut down wash pump lines drop top plug | |
| 0026 | | 0 | 71.9 | | 5.7 | H2O | start displacement | |
| 0032 | | 110 | | 30 | 5.7 | H2O | PSI check | |
| 0033 | | 200 | | 40 | 5.7 | | " " | |
| 0035 | | 310 | | 50 | 5.7 | | " " | |
| 0037 | | 520 | | 60 | 5.7 | | " " | |
| 0038 | | 620 | | 64 | 2.4 | | lower rate | |
| 0039 | | 550 | | 69 | 2.4 | | PSI check | |
| 0040 | | 600 | | 70 | 2.4 | | " " | |
| 0041 | | 1590 | | 72 | 2.4 | | bump top plug | |
| 0042 | | | | | | | block psi of check float + holding end job | |

REMARKS

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS | | | SLURRY MIXED | |
|-------------|--------------|-----------------|--|--|--|--------------|---------|
| | | | | | | BBLs | DENSITY |
| 1. | 140 | 2.75 | class C + 3% D79 + .2% D46 + 1/4" D29 | | | 68.5 | 11.5 |
| 2. | | | | | | | |
| 3. | 75 | 1.37 | class C + 2% B28 + 2% grade + .6% D60 + .2% D46 + 1/4" D29 | | | 18.2 | 14.8 |
| 4. | | | | | | | |
| 5. | | | | | | | |
| 6. | | | | | | | |

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO
 BREAKDOWN PSI: **71.9** Bbls
 WASHED THRU PERFS: YES NO TO **TO** FT. MEASURED DISPLACEMENT: WIRELINE
 PERFORMATIONS: TO TO TO TO
 CUSTOMER REPRESENTATIVE: **Dennis Russell**
 DS SUPERVISOR: **James Esquivel**