

ORIGINAL

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

API NO. 15- 129-215650000

County Morton

C N/2-SE - SE Sec. 19 Twp. 33S Rge. 42 X ^E _W

Operator: License # 9953

990 Feet from (S)N (circle one) Line of Section

Name: Harris Oil & Gas Company

500 Feet from (E)W (circle one) Line of Section

Address 1125 17th Street

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

Suite 2290

Lease Name Rich Witcher Well # 1-19

City/State/Zip Denver, CO 80202

Purchaser: N/A

Operator Contact Person: Doug Hoisington

Phone (303) 293-8838

Contractor: Name: Allen Drilling Company

License: 5418

Wellsite Geologist: Dan Sommer

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

8-10-98 8-19-98 8-20-98
Spud Date Date Reached TD Completion Date

Field Name Wildcat

Producing Formation N/A

Elevation: Ground 3551' KB 3561'

Total Depth 5200' PBTB 5200'

Amount of Surface Pipe Set and Cemented at 1376 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from N/A

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan P4H, 10-2-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 500 bbls

Dewatering method used Air Evaporation

Location of fluid disposal if hauled offsite: N/A

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

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 Daniel R. Sommer

Title Exploration Manager Date 9/23/98

Subscribed and sworn to before me this 24th day of September, 19 98.

Notary Public Jack Adams

Date Commission Expires March 17, 2000

| | | |
|-------------------------------------|-------------------------------------|--|
| K.C.C. OFFICE USE ONLY | | |
| F | <input type="checkbox"/> | Letter of Confidentiality Attached |
| C | <input checked="" type="checkbox"/> | Wireline Log Received |
| C | <input type="checkbox"/> | Geologist Report Received |
| Distribution | | |
| <input checked="" type="checkbox"/> | KCC | <input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA |
| <input type="checkbox"/> | KGS | <input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify) |

Operator Name Harris Oil & Gas Company

Lease Name Rich Witcher

Well # 1-19

Sec. ___ Twp. ___ Rge. ___
 East
 West

County Morton

ORIGINAL

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: **CNS/PDS**
MLS
DIE

Log Formation (Top), Depth and Datums Sample
 Name Top Datum
See Attached

CONDUCTOR: DON WITCHEL
 W. MORTON, KANSAS
 SEP 28 1968
 PROPERTY OF
 HARRIS OIL & GAS COMPANY

| 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 | 12 1/4" | 8 5/8 | 24 | 1376' | Lite Class A | 625 | 3% CaCl 1/4# Flocele |

ADDITIONAL CEMENTING/SQUEEZE RECORD **NONE**

| 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 |
|----------------|--|--|
| | | |
| | | |
| | | |

| TUBING RECORD | Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No |
|--|---|---------|-------------|--|
| Date of First, Resumed Production, SWD or Inj. | Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil Bbls. N-A | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval Other (Specify) Dry and Abandoned

ORIGINAL

Harris Oil and Gas Company • 1125 17th Street • Suite 2290 • Denver, Colorado • 80202
Phone (303) 293-8838 • Fax (303) 293-8853

East Winter Prospect

Rich Witcher #1-19

990' FSL and 500' FEL
Section 19, T33S-R42W
Morton County, Kansas

API #: 15-1729-2156-0000

Section 19
T33S
R42W
Morton County, Kansas

| LOG TOPS | | DATUM |
|-----------------------------------|--------|-------|
| Kansas City "A" | 3490' | +72 |
| Kansas City "B" | 3550' | +12 |
| Kansas City "C" | 3616' | -54 |
| Marmaton | 3844' | -282 |
| Cherokee | 4075' | -513 |
| Morrow | 4398' | -836 |
| Upper Morrow L ₁ Sand | Absent | |
| Upper Morrow L ₂ Sand* | 4508' | -946 |
| Morrow Structural Marker | 4564' | -1002 |
| Upper Morrow L ₃ Sand | 4611' | -1048 |
| Lower Morrow "G" | 4872' | -1310 |
| Keyes | 4896' | -1334 |
| Chester | 4914' | -1352 |
| St. Louis † | 5132' | -1570 |

ALLIED CEMENTING CO., INC. 7753

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:
DARLEY

15-129-21565

| | | | | | | | |
|--|----------------|--------------------|------------------|--------------------------------------|----------------------------|-------------------------|--------------------------|
| DATE <u>8-11-98</u> | SEC. <u>19</u> | TWP. <u>33S</u> | RANGE <u>H2W</u> | CALLED OUT | ON LOCATION <u>11:30AM</u> | JOB START <u>2:45PM</u> | JOB FINISH <u>3:45PM</u> |
| RICH WETCHER LEASE | | WELL # <u>1-19</u> | | LOCATION <u>ELRHART 115-1W-NJWto</u> | | COUNTY <u>MORTON</u> | STATE <u>KS</u> |
| OLD OR <input checked="" type="radio"/> (Circle one) | | | | | | | |

CONTRACTOR ALLEN ORLB. REG #2 OWNER SAME

TYPE OF JOB SURFACE

| | |
|--------------------------------|------------------------|
| HOLE SIZE <u>12 1/4"</u> | T.D. <u>1378'</u> |
| CASING SIZE <u>8 5/8"</u> | DEPTH <u>1376'</u> |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX <u>1000 PSI</u> | MINIMUM <u>150 PSI</u> |
| MEAS. LINE | SHOE JOINT <u>22'</u> |
| CEMENT LEFT IN CSG. <u>22'</u> | |
| PERFS. | |
| DISPLACEMENT | |

CEMENT AMOUNT ORDERED 150 SKS COM 3% CC
475 SKS RETE 3% CC 1/4" FLO-SEAL

| | | |
|-----------------------------------|----------------|----------------|
| COMMON <u>150 SKS</u> | @ <u>7.55</u> | <u>1132.50</u> |
| POZMIX | @ | |
| GEL | @ | |
| CHLORIDE <u>20 SKS</u> | @ <u>28.00</u> | <u>560.00</u> |
| RETE <u>475 SKS</u> | @ <u>7.05</u> | <u>3348.75</u> |
| FLO-SEAL <u>118"</u> | @ <u>1.15</u> | <u>135.70</u> |
| | @ | |
| | @ | |
| | @ | |
| HANDLING | @ <u>1.05</u> | <u>656.25</u> |
| MILEAGE <u>0.44 PER SK / MILE</u> | | <u>950.00</u> |
| TOTAL | | <u>6783.20</u> |

EQUIPMENT

| | |
|-------------------------|-------------------------|
| PUMP TRUCK # <u>300</u> | CEMENTER <u>TERRY</u> |
| | HELPER <u>WAYNE MAX</u> |
| BULK TRUCK # <u>280</u> | DRIVER <u>LONNIE</u> |
| BULK TRUCK # <u>218</u> | DRIVER <u>DUANNE</u> |

REMARKS:

SERVICE

CEMENT SEALED CIRC ✓

FLOAT DID NOT HOLD

THANK YOU

| | |
|--|---------------|
| DEPTH OF JOB <u>1376'</u> | |
| PUMP TRUCK CHARGE | <u>470.00</u> |
| EXTRA FOOTAGE <u>1076'</u> @ <u>4.43</u> | <u>462.68</u> |
| MILEAGE <u>55 MILE</u> @ <u>2.85</u> | <u>156.75</u> |
| PLUG <u>8 5/8 RUBBER</u> @ <u>9</u> | <u>90.00</u> |
| | @ |
| | @ |
| TOTAL <u>1179.43</u> | |

CHARGE TO: HARRIS OIL & GAS

STREET 1125 17th St # 2290

CITY Denver STATE Colo ZIP 80202

FLOAT EQUIPMENT

| | | |
|-----------------|----------------|---------------|
| <u>8 5/8</u> | | |
| 1- AFU INSERT | @ | <u>272.00</u> |
| 3- CENTRALIZERS | @ <u>50.00</u> | <u>150.00</u> |
| 1- BASKET | @ | <u>200.00</u> |
| 1- BAKER LOC | @ | <u>30.00</u> |
| | @ | |

TOTAL 652.00

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE 8614.63

DISCOUNT 1292.19 IF PAID IN 30 DAYS

PRICE AFTER DISC. 7322.44

SIGNATURE TJ Dickler

TJ Dickler
PRINTED NAME

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

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SEP 20 1999

| LOG TOPS | | DATUM |
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| Lower Morrow "G" | 4872' | -1310 |
| Keyes | 4896' | -1334 |
| Chester | 4914' | -1352 |
| St. Louis ϕ | 5132' | -1570 |

Superior Testers Enterprises, Inc.

15-129-21565

R.R. 3, Box 295B, Great Bend, Kansas 67530
(316) 792-6902

ORIGINAL

Date 8-17-1998 Location C 1/2 - 3/4 - 9/4 19-33-42^N Elevation 3552^{K.B.} 3552^{G.L.} County Mocton

Company Harold's Oil & Gas Company Number of Copies 5

Charts Mailed to 1125 17th Street Suite 2290 DENVER Colorado 80202

Drilling Contractor Allen's Drilling Rig #2

Length Drill Pipe 3750 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars 522 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4295 Bottom Packer Depth 4300 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4300 TO 4527 ANCHOR LENGTH 227 TOTAL DEPTH 4527 Hole Size 7 7/8"

LEASE & WELL NO. Rich Witcher 1-19 FORMATION TESTED UPPER MORROW TEST NO. 1

Mud Weight 99 Viscosity 49 Water Loss 0.5 Chlorides - Pits 900 D.S.T. _____

Maximum Temp. 118 °F Initial Hydrostatic Pressure (A) 2192 P.S.I. Final Hydrostatic Pressure (H) 2192 P.S.I.

Tool Open I.F.P. from 9:00 P.m to 9:30 P.m 30 min

Tool Closed I.C.I.P. from 9:30 P.m to 10:00 P.m 30 min

Tool Open F.F.P. from 10:00 P.m to 10:30 P.m 30 min

Tool Closed F.C.I.P. from 10:30 P.m to 11:30 P.m 60 min

Initial Blow WEAK blow for 22 minutes & Died

Final Blow no blow

Total Feet Recovered 65 Gravity of Oil _____ Corrected _____

| | | | | |
|---------------------------------------|-------------|-------------|-------------|---------------|
| <u>65</u> Feet of <u>Drilling Mud</u> | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| _____ Feet of _____ | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| _____ Feet of _____ | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| _____ Feet of _____ | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| _____ Feet of _____ | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| _____ Feet of _____ | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| _____ Feet of _____ | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |
| _____ Feet of _____ | % Gas _____ | % Oil _____ | % Mud _____ | % Water _____ |

Remarks _____

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. Electronic Depth 4520 Cir. Sub NONE Sampler YES

Bottom Recorder No. 13189 Clock No. 47441 Depth 4524 Insurance NONE

Price of Job _____

Tool Operator Gene Swadlow

Approved By Larry B. Benedick
No. 13838

| |
|---|
| from [B] <u>161</u> P.S.I. to [C] <u>183</u> P.S.I. |
| [D] <u>202</u> P.S.I. |
| from [E] <u>202</u> P.S.I. to [F] <u>201</u> P.S.I. |
| [G] <u>202</u> P.S.I. |

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, of for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

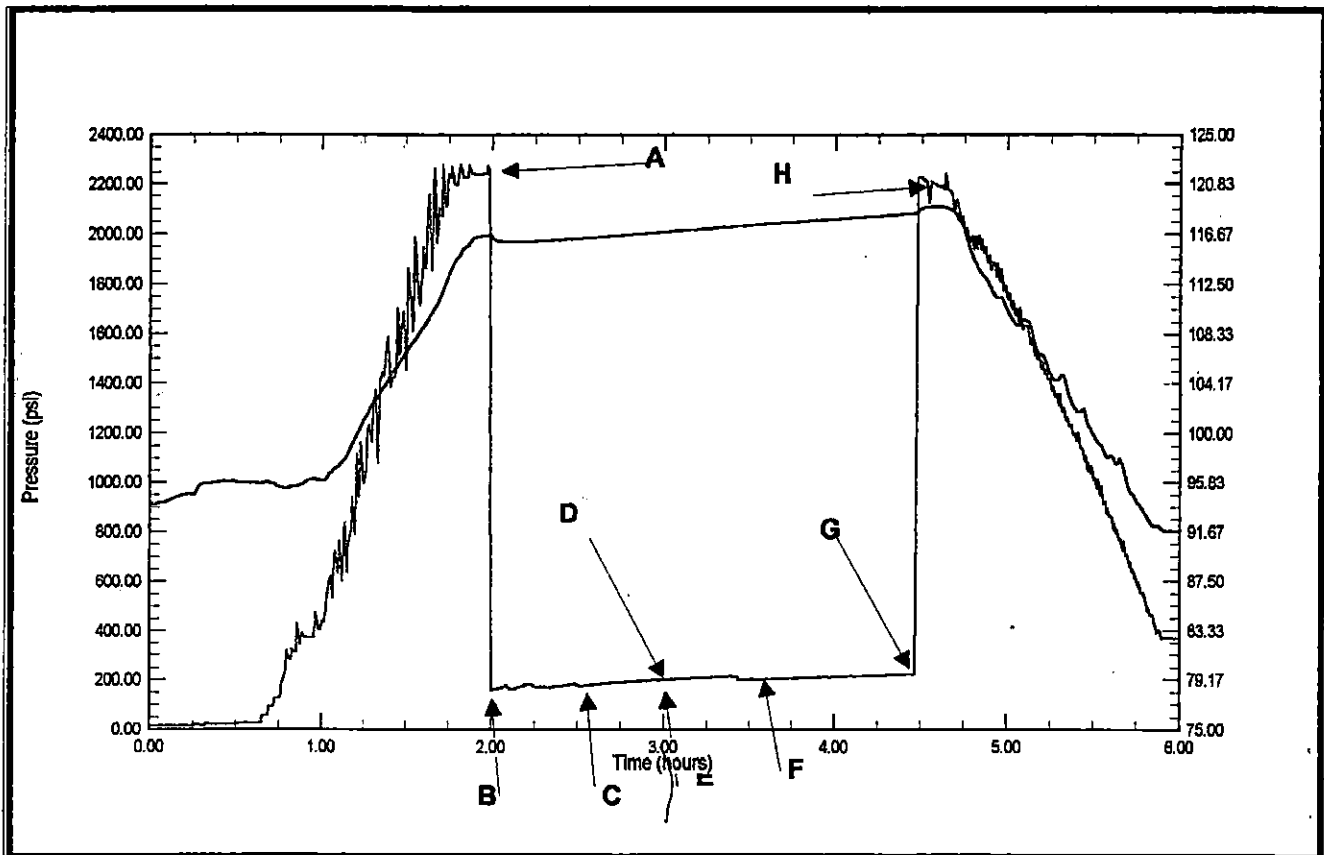
CHART DATA

(316) 792-6902

RICH WITCHER #1-19 UPPER MORROW

State KANSAS
 County
 Field

Test Date August 17, 1998
 Sec Town Range C-N/2-S/E-S/E 19-33S
 Report Number 13838



| | Field Reading | Office Reading | |
|-----|------------------------------|-----------------------|-----|
| (A) | Initial Hydrostatic Pressure | 2240 | psi |
| (B) | Initial Flow Pressure | 161 | psi |
| (C) | Final Initial Flow Pressure | 183 | psi |
| (D) | Initial Shut-In Pressure | 202 | psi |
| (E) | Initial Final Flow Pressure | 202 | psi |
| (F) | Final Flow Pressure | 201 | psi |
| (G) | Final Shut-In Pressure | 222 | psi |
| (H) | Final Hydrostatic Pressure | 2192 | psi |

ELECTRONIC REECORDER DEPTH 4520ft, RECORDER NUMBER 78225

Company: HARRIS OIL AND GAS COMPANY Lease & Well No. RICH WITCHER #1-19 Test #: 1 Date: 8-17-1998
 SEC. 19 TWP. 33S RGE. 42W
 15-129-21565

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

General Information

Test Company Name SUPERIOR TESTERS ENTERPRISES INC.
Company Name HARRIS OI AND GAS COMPANY
Lease and Well Number RICH WITCHER #1-19
Formation Tested UPPER MORROW
Test Number 1
State KANSAS
County MORTON
Field
Test Date 17-Aug-98
Section Town Range C-N/2-S/E-S/E 19-33S-42W
Report Number 13838
Elevation Ground Level 3552
Elevation Kelly Bushings 3562
Company Representative DAN SOMMER
Testing Engineer GENE BUDIG

Extra Equipment

Jars YES
Safety Joint YES
Extra Packers No
Straddle No
Hook Wall No
Sampler YES
Circulating Sub No
Electronic Recorder YES

Well Information

Drilling Contractor ALLEN DRILLING RIG #2

Drill Pipe Length 3750
Drill Pipe I.D. 3.8
Tool Joint Size 4 1/2 XH

Weight Pipe Length
Weight Pipe I.D. 2.76
Tool Joint Size 4 1/2 X.H.

Drill Collar Length 522
Drill Collar I.D. 2.25
Tool Joint Size 4 1/2 X.H.

Mud Weight #/gal 9.00
Viscosity 49.00
Water Loss 8.5
Chlorides - Pits 900
Chlorides - DST

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Tool Setting Information

Top Packer Depth 4295
Bottom packer Depth 4300
Number of Packers 2
Packer Size 6 3/4

Test Interval (from) 4300
Test Interval (to) 4527.00
Anchor Length 227
Total Depth (ft) 4527
Hole Size (in) 7 7/8

Pressure Readings

| | <i>Field Reading</i> | <i>Office Reading</i> |
|------------------------------------|--------------------------|---------------------------|
| Maximum Temp | 118 | |
| Initial Hydrostatic Pressure | 2240 | |
| Initial Flow Pressure | 161 | |
| Final Initial Flow Pressure | 183 | |
| Initial Shut-In Pressure | 202 | |
| Initial Final Flow Pressure | 202 | |
| Final Flow Pressure | 201 | |
| Final Shut-In Pressure | 222 | |
| Final Hydrostatic Pressure | 2192 | |
| Electronic Recorder Depth | 4520 | |
| Recorder Number | 78225 | |
| Mechanical Recorder Depth | 4524 | |
| Recorder Number | 13189 | |

Comments

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Flow Times

Initial Open

Tool Open (from) 9:00
 Tool Open (to) 9:30
 Duration (min) 30

Initial Shut-in

Tool Closed (from) 9:30
 Tool Closed (to) 10:00
 Duration (min) 30

Final Open

Tool Open (from) 10:00
 Tool Open (to) 10:30
 Duration (min) 30

Final Shut-in

Tool Closed (from) 10:30
 Tool Closed (to) 11:30
 Duration (min) 60

Recovery Description

Initial Blow WEAK SURFACE BLOW FOR 22 MINUTES AND DIED

Final Blow NO BLOW

| Description | Feet of Recovery | % Gas | % Oil | % Mud | % Water |
|-----------------|------------------|-------|-------|-------|---------|
| 1) DRILLING MUD | 65 | | | | |
| 2) | | | | | |
| 3) | | | | | |
| 4) | | | | | |
| 5) | | | | | |
| 6) | | | | | |
| 7) | | | | | |
| 8) | | | | | |
| 9) | | | | | |
| 10) | | | | | |
| 11) | | | | | |
| 12) | | | | | |
| 13) | | | | | |
| 14) | | | | | |
| 15) | | | | | |
| Total | 65 | | | | |

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Sample Chamber

Oil (cc) 0
Water (cc) 0
Mud (cc) 2200
Gas Volume (cc) 0
Total Volume (cc) 2200
Sampler Capacity (cc) 2200
Sample Pressure (psig) 150

Superior Testers Enterprises, Inc.

15-129-21565

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

ORIGINAL

Date 8-20-1998 Location C-42-5/8-5/8 19-33-42^W Elevation 3562^{Kb.} 3552^{GL} County Morton

Company HARRIS Oil & Gas Company Number of Copies 5

Charts Mailed to 1125 17th STREET Suite 2290 DENVER Colorado 80202

Drilling Contractor ALLEN Drilling Rig #2

Length Drill Pipe 4513 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars 522 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 5059 Bottom Packer Depth 5064 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 5064 TO 5200 ANCHOR LENGTH 136 TOTAL DEPTH 5200 Hole Size 7 7/8"

LEASE & WELL NO. Rich Witcher #1-19 FORMATION TESTED SAINT LEWIS TEST NO. 2

Mud Weight 9.4 Viscosity 56 Water Loss 8% Chlorides - Pits 800 D.S.T. 3800

Maximum Temp. 139 °F Initial Hydrostatic Pressure (A) 2535 P.S.I. Final Hydrostatic Pressure (H) 2496 P.S.T.

Tool Open I.F.P. from 2:30 A.M. to 3:00 A.M. 30 min from (B) 145 P.S.I. to (C) 419 P.S.I.

Tool Closed I.C.I.P. from 3:00 A.M. to 4:00 A.M. 60 min (D) 1175 P.S.I.

Tool Open F.F.P. from 4:00 A.M. to 5:00 A.M. 60 min from (E) 395 P.S.I. to (F) 564 P.S.I.

Tool Closed F.C.I.P. from 5:00 A.M. to 7:00 A.M. 120 min (G) 1174 P.S.I.

Initial Blow WEAK building blow built to 12 inches into the water in 30 minutes

Final Blow WEAK building blow built to 12 inches (Bottom of the Bucket) in 42 minutes

Total Feet Recovered 950 Gravity of Oil _____ Corrected _____

400 Feet of MUD % Gas _____ % Oil _____ % Mud _____ % Water _____

550 Feet of SLIGHTLY MUDDY WATER % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars \$285.00 Safety Joint \$35.00 Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 5193 Cir. Sub NONE Sampler #200.00

Bottom Recorder No. 13189 Clock No. 47441 Depth 5197 Insurance NONE

Price of Job \$1400.00

Tool Operator Gene Buda

Approved By Larry S. Benedick
No 13839

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SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

(316) 792-6902

RICH WITCHER #1-19 SAINT LEWIS

State KANSAS

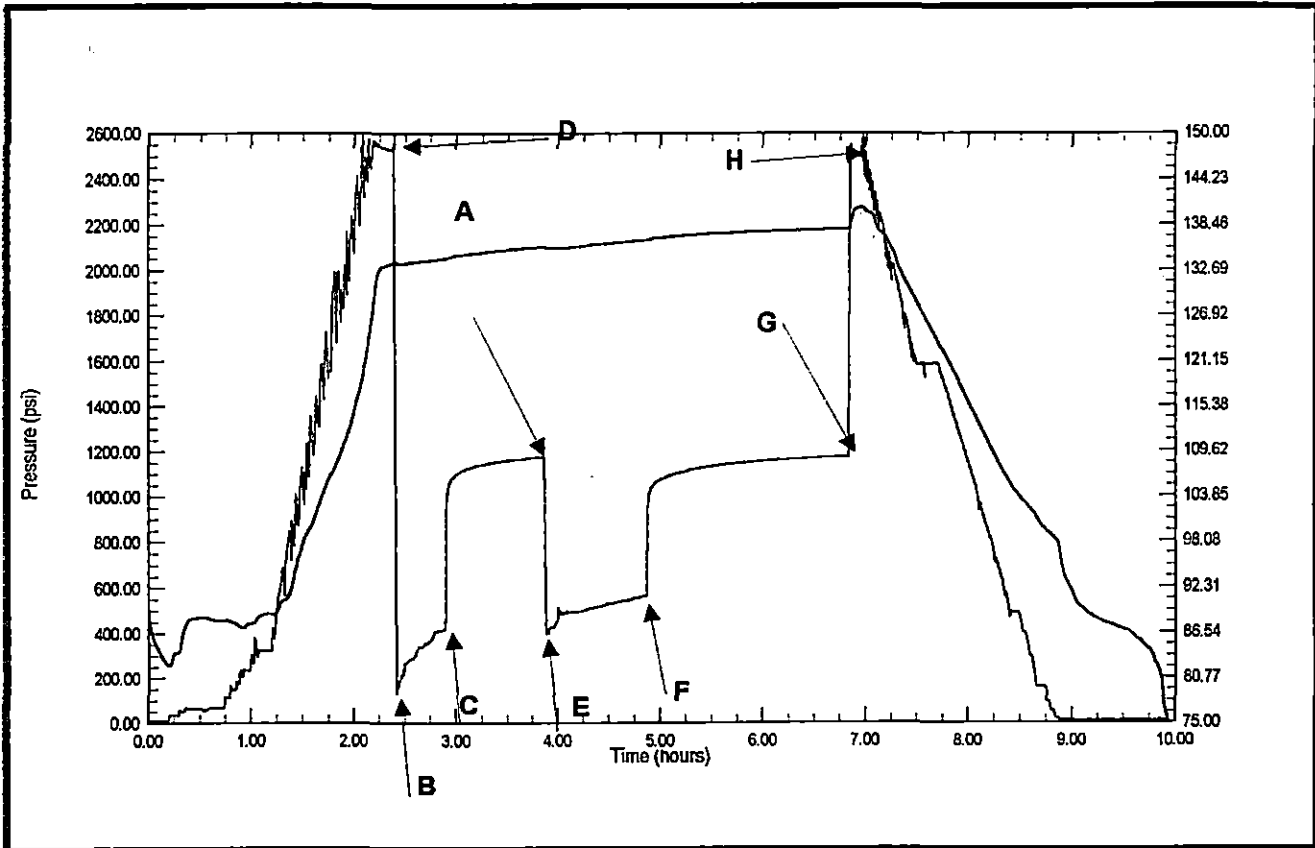
Test Date August 20, 1998

County

Sec Town Range C-N/2-S/E-S/E 19-33S

Field

Report Number 13839



Field Reading

Office Reading

| | | | |
|-----|------------------------------|------|-----|
| (A) | Initial Hydrostatic Pressure | 2535 | psi |
| (B) | Initial Flow Pressure | 145 | psi |
| (C) | Final Initial Flow Pressure | 419 | psi |
| (D) | Initial Shut-In Pressure | 1175 | psi |
| (E) | Initial Final Flow Pressure | 395 | psi |
| (F) | Final Flow Pressure | 564 | psi |
| (G) | Final Shut-In Pressure | 1174 | psi |
| (H) | Final Hydrostatic Pressure | 2496 | psi |

ELECTRONIC REECORDER DEPTH5193ft,RECORDER NUMBER78225

Company: HARRIS OIL & GAS COMPANY Lease & Well No. RICH WITCHER #1-19 Test #:2 Date:8-20-1998
 SEC. 19 TWP. 33S RGE. 42W
 15-129-21565

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

General Information

Test Company Name SUPERIOR TESTERS ENTERPRISES INC.
Company Name HARRIS OIL AND GAS COMPANY
Lease and Well Number RICH WITCHER #1-19
Formation Tested SAINT LEWIS
Test Number 2
State KANSAS
County MORTON
Field
Test Date 20-Aug-98
Section Town Range C-N/2-S/E-S/E 19-33S-42W
Report Number 13839
Elevation Ground Level 3552
Elevation Kelly Bushings 3562
Company Representative LARRY BENEDICK
Testing Engineer GENE BUDIG

Extra Equipment

Jars YES
Safety Joint YES
Extra Packs No
Straddle No
Hook Wall No
Sampler YES
Circulating Sub No
Electronic Recorder YES

Well Information

Drilling Contractor ALLEN DRILLING RIG #2

Drill Pipe Length 4513
Drill Pipe I.D. 3.8
Tool Joint Size 4 1/2 XH

Weight Pipe Length
Weight Pipe I.D. 2.76
Tool Joint Size 4 1/2 X.H.

Drill Collar Length 522
Drill Collar I.D. 2.25
Tool Joint Size 4 1/2 X.H.

Mud Weight #/gal 9.10
Viscosity 56.00
Water Loss 8
Chlorides - Pits 800
Chlorides - DST *38000*

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Tool Setting Information

Top Packer Depth 5059
Bottom packer Depth 5064
Number of Packers 2
Packer Size 6 3/4

Test Interval (from) 5064
Test Interval (to) 5200.00
Anchor Length 136
Total Depth (ft) 5200
Hole Size (in) 7 7/8

Pressure Readings

| | <i>Field Reading</i> | <i>Office Reading</i> |
|------------------------------------|--------------------------|---------------------------|
| Maximum Temp | 139 | |
| Initial Hydrostatic Pressure | 2535 | |
| Initial Flow Pressure | 145 | |
| Final Initial Flow Pressure | 419 | |
| Initial Shut-In Pressure | 1175 | |
| Initial Final Flow Pressure | 395 | |
| Final Flow Pressure | 564 | |
| Final Shut-In Pressure | 1174 | |
| Final Hydrostatic Pressure | 2496 | |
| Electronic Recorder Depth | 5193 | |
| Recorder Number | 78225 | |
| Mechanical Recorder Depth | 5197 | |
| Recorder Number | 13189 | |

Comments

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316) 792-6902

Flow Times

Initial Open

Tool Open (from) 2:30
 Tool Open (to) 3:00
 Duration (min) 30

Initial Shut-in

Tool Closed (from) 3:00
 Tool Closed (to) 4:00
 Duration (min) 60

Final Open

Tool Open (from) 4:00
 Tool Open (to) 5:00
 Duration (min) 60

Final Shut-in

Tool Closed (from) 5:00
 Tool Closed (to) 7:00
 Duration (min) 120

Recovery Description

Initial Blow WEAK BUILDING BLOW BUILT TO 12 INCHES INTO THE WATER IN 30 MINUTES

Final Blow WEAK BUILDING BLOW BUILT TO 12 INCHES (BOTTOM OF A 5 GALLON BUCKET) IN 42 MINUTES

| Description | Feet of Recovery | % Gas | % Oil | % Mud | % Water |
|-------------------------|------------------|-------|-------|-------|---------|
| 1) MUD | 400 | | | | |
| 2) SLIGHTLY MUDDY WATER | 500 | | | | |
| 3) | | | | | |
| 4) | | | | | |
| 5) | | | | | |
| 6) | | | | | |
| 7) | | | | | |
| 8) | | | | | |
| 9) | | | | | |
| 10) | | | | | |
| 11) | | | | | |
| 12) | | | | | |
| 13) | | | | | |
| 14) | | | | | |
| 15) | | | | | |
| Total | 900 | | | | |

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Sample Chamber

| | |
|------------------------------|------|
| Oil (cc) | 0 |
| Water (cc) | 2000 |
| Mud (cc) | 200 |
| Gas Volume (cc) | 0 |
| Total Volume (cc) | 2200 |
| Sampler Capacity (cc) | 2200 |
| Sample Pressure (psig) | 225 |