

SIDE ONE

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- 141-20,258-00-00

County Osborne
Approx C SW SW Sec. 11 Twp. 10 Rge. 12 XX East West

Operator: License # 7124

Name: H & H Production

Address P.O. Box 348

City/State/Zip Russell, KS 67665

Purchaser: _____

Operator Contact Person: Rudy A. Herman

Phone (913) 483-4898

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: David Shumaker

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

06-27-91 07-01-91 7/1/91
Spud Date Date Reached TD Completion Date

660+ Ft. North from Southeast Corner of Section

4620 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

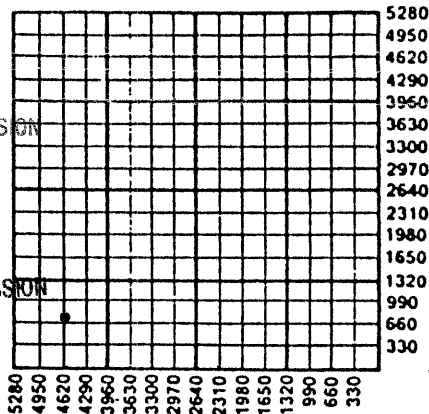
Lease Name Sigle Well # 1-B

Field Name Sigle

Producing Formation _____

Elevation: Ground 1735 KB 1740

Total Depth 3033 PBTD _____



8/12/91

AUG 12 1991

SEP 10 1991

Amount of Surface Pipe Set and Cemented at 217 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Rudy A. Herman
Title Pres Date 7/29/91

Subscribed and sworn to before me this 29th day of July, 19 91.

Notary Public Sally R. Byers

Date Commission Expires December 6, 1992

SALLY R. BYERS
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 12/6/92

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

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

SIDE TWO

Operator Name H & H Production Lease Name Sigle Well # 1-B
 Sec. 11 Twp. 10 Rge. 12 East County Osborne
 West

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.)

DST #1 2975' - 3009'
 Open 10" Closed 30"
 Weak to dead blow
 Recovered 10' Drilling mud
 FP: 32# BHP: 392#

| Name | Formation Description | |
|------------|------------------------------|--------------------------------------------|
| | <input type="checkbox"/> Log | <input checked="" type="checkbox"/> Sample |
| | Top | Bottom |
| Anhydrite | 768 | 800 |
| Topeka | 2679 | 29I4 |
| Heebner | 29I4 | 29I8 |
| Toronto | 2938 | 2948 |
| Douglas | 2949 | 2969 |
| Lansing-KC | 2970 | 3033 R.T.D. |

| 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" | 20# | 217' | 60/40poz | 135 | 2% gel 3% cc |
| | | | | | | | |
| | | | | | | | |
| PERFORATION RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
| Shots Per Foot | Specify Footage of Each Interval Perforated | | | Amount and Kind of Material Used | | | Depth |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TUBING RECORD | | | | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| | Size | Set At | Packer At | | | | |
| Date of First Production | 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. | 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 Perforation Dually Completed Commingled Other (Specify) _____

Production Interval: _____

15-141-20258-00-00
SWIFT FORMATION TESTERS

1309 VAN FLEET PHONE 793-5177
GREAT BEND, KANSAS 67530

15-14-20

ORIGIN

DATE JUNE 30, 1991

COMPANY H & H PROD. INC.

ADDRESS PO Box 348 Russell, Ks 67665

LEASE SIGLE WELL NO. B-1 COUNTY OSBORNE

DEPTH 3009 TESTED FROM 2975 TO 3009 TEST NO. 1

TOOL JT. 4 1/2 FH SIZE HOLE 7 7/8 SIZE PACKER 6 3/4 MIS-RUN NO. _____

INITIAL HYD. 1665* FINAL HYD. 1649* SUCCESSFUL NO. _____

INITIAL SHUT-IN HR. 30 MIN.: TOOL OPEN HR. 10 MIN.: FINAL SHUT-IN HR. — MIN.

INVOICES SENT TO: _____

INITIAL FLOW PERIOD 30 MINUTES

BLOW: WEAK TO DEAD END OF 1ST OPEN - NO BLOW 2ND

REMARKS: OUT OF HOLE

RECOVERY: 10' DRAG MUD

INITIAL SHUT-IN PRESSURE — INITIAL FLOW PRESSURE 32* FINAL FLOW PRESSURE 32*

FINAL SHUT-IN PRESSURE 392* FIELD ORDER NO. _____ PRICE OF JOB \$550.⁰⁰

EXTRA EQUIPMENT _____ OPERATOR TIME _____

SWIFT FORMATION TESTERS

APPROVED BY: [Signature]

OUR REPRESENTATIVE [Signature]

Shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or 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.

TICKET N^o 5607

RECEIVED
STATE COMMISSION

AUG 12 1991

REGISTRATION DIVISION
Topeka, Kansas

15-141-20258-00-00

SWIFT FORMATION TESTERS

ORIGINAL

1309 VAN FLEET

PHONE 793-5177

GREAT BEND, KANSAS

Date June 30, 1991

Test No. 1

Company H & H Prod., Inc

Test Ticket No. 5607 County Osborne Lease Sigle Well B-1

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 10 Min. Final Shut-In - Hr. 6 Min.

Interval Tested 2975 to 3009 Total Depth 3009

Blow: Weak to dead end of 1st open - No blow 2nd 30 Minutes Initial Flow Period
Out of hole

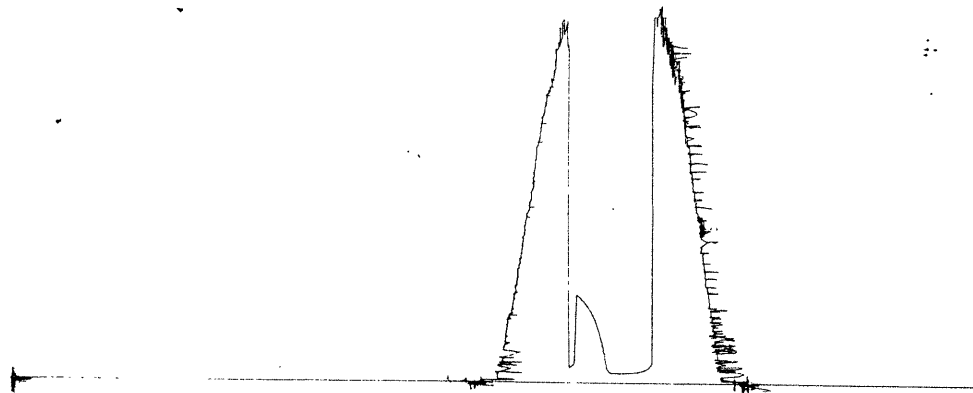
Recovery and Remarks:

10" Drilling Mud

Initial BHP: - Final BHP: 392# Initial FP: 32# Final FP: 32#

Tester: Greg Call Approved By: Davie Shumaker

DST # 1



11094

*TR*5607*

RECEIVED
STATE COMMISSION

AUG 12 1991

COURT REPORTING DIVISION
STATE OF KANSAS

SWIFT FORMATION TESTERS

1309 VAN FLEET PHONE 793-5177
GREAT BEND, KANSAS

ORIGINAL

Date June 30, 1991 Test No. 1

Company H & H Prod., Inc

Test Ticket No. 5607 County Osborne Lease Sigle Well B-1

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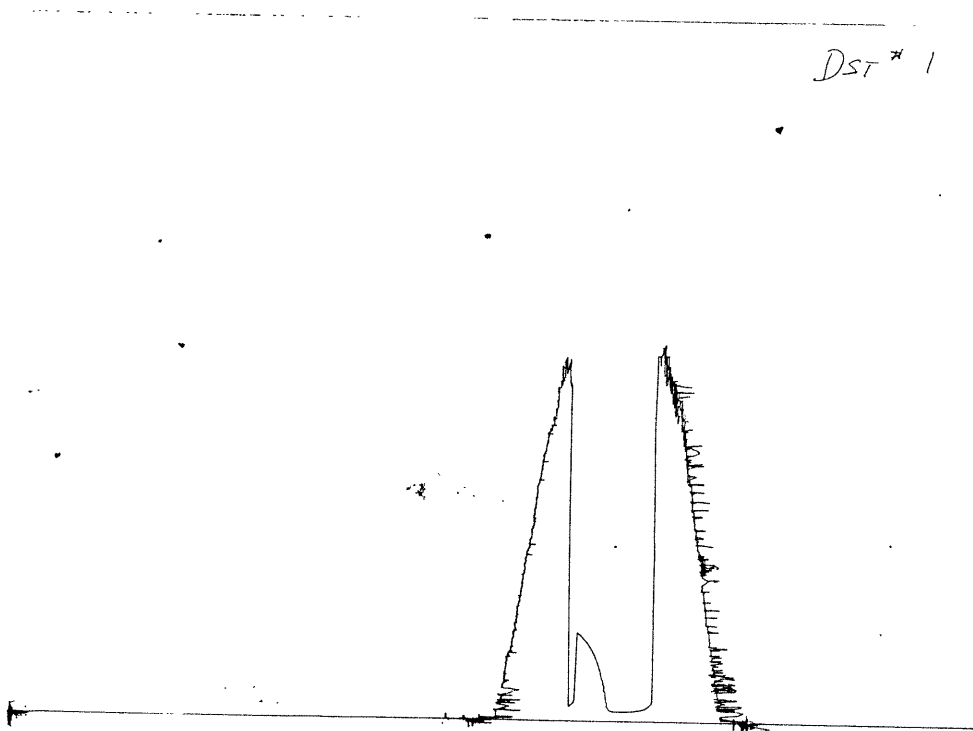
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DST # 1



11094

*TR*5607*

RECEIVED
STATE CORPORATION COMMISSION

AUG 12 1991

STATE CORPORATION COMMISSION
GREAT BEND, KANSAS

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL

15-141-20258-00-00 2432

| | | | | | | | | | | | | | | | |
|---------------------|----------|----------|-----|------------|------|----------|--------------------------|------------|--|-------------|---------|-----------|---------|--------|---------|
| Date | 7-1-91 | Sec. | 11 | Twp. | 10 | Range | 12 | Called Out | | On Location | 6:00 AM | Job Start | 6:40 AM | Finish | 7:50 AM |
| Lease | Single | Well No. | 1-B | | | Location | Luray 5N 3 1/2 E. NW 1/4 | | | County | Osborne | State | Ks | | |
| Contractor | Dike Dig | | | | | | | | | | | | | | |
| Type Job | Plug | | | | | | | | | | | | | | |
| Hole Size | 7 7/8 | | | T.D. | 3033 | | | | | | | | | | |
| Csg. | | | | Depth | | | | | | | | | | | |
| Tbg. Size | | | | Depth | | | | | | | | | | | |
| Drill Pipe | | | | Depth | | | | | | | | | | | |
| Tool | | | | Depth | | | | | | | | | | | |
| Cement Left in Csg. | | | | Shoe Joint | | | | | | | | | | | |
| Press Max. | | | | Minimum | | | | | | | | | | | |
| Meas Line | | | | Displace | | | | | | | | | | | |
| Perf. | | | | | | | | | | | | | | | |

Owner:
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 listed.

Charge To: H+H Production
Street: P.O. Box 348
City: Russell State: Kan 67665

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
X *Leonor Williamson*

CEMENT

| | | | |
|----------------|----------------------------------------------|---------------------|-------------------|
| Amount Ordered | 150 ⁰⁰ 66 gal 1/16 Flour seal per | | |
| Consisting of | | | |
| Common | 90 | SKS @ 5.25 | 472 ⁵⁰ |
| Poz. Mix | 60 | SKS @ 2.25 | 135 ⁰⁰ |
| Gel. | 5 | SKS @ 6.75 | 33 ⁷⁵ |
| Chloride | | | |
| Quickset | | | |
| | 38 | IBS Flo-Seal @ 1.00 | 38 ⁰⁰ |

EQUIPMENT

| | | | |
|---------|-----|----------|------|
| Pumptrk | No. | Cementer | Dave |
| | 153 | Helper | |
| Pumptrk | No. | Cementer | |
| | | Helper | |
| Bulktrk | No. | Driver | Mark |
| | 213 | Driver | |

| | | |
|-----------|----------------|---------------------|
| Sales Tax | | |
| Handling | 1.00 per sk | 150 ⁰⁰ |
| Mileage | 4¢ per sk/mile | 192 ⁰⁰ |
| | 32 m.t. | |
| | Rw | |
| Sub Total | | |
| Total | | 1,021 ²⁰ |

DEPTH of Job

| | | |
|------------|--------------|-------------------|
| Reference: | Pump trk cly | 380 ⁰⁰ |
| | 12¢ per mile | 64 ⁰⁰ |
| | | |
| | | |
| | Sub Total | |
| | Tax | |
| | Total | 444 ⁰⁰ |

Remarks:
25 sk @ 780
100 sk @ 585
10 sk @ 40
15 sk Rathole

RECEIVED
STATE COMMISSION

AUG 12 1991

COMMUNICATION DIVISION
Wichita, Kansas

[Signature]

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

3475 ORIGINAL

| | | | | | | | |
|------------|---------------------|-----------------------------------------|-------|---------------|-------------|-------------------|------------------|
| <i>New</i> | Sec. | FWP. | Range | Called Out | On Location | Job Start | Finish |
| 6-27-91 | 11 | 10s | 12w | 2:45 AM | 4:00 AM | 6:00 AM County | 6:30 AM State |
| Single | Well No. <i>1-B</i> | Location <i>LURRY SW 3 1/2 E 1/4 NW</i> | | <i>Decene</i> | | <i>KANSAS</i> | |

| | | |
|-------------------|--------------------------|--------------------------|
| Factor | <i>Duke Daly Rig # 1</i> | |
| Job | <i>Surface</i> | |
| Size | <i>12 1/4</i> | T.D. <i>218'</i> |
| <i>8 5/8</i> | <i>20'</i> | Depth <i>217'</i> |
| Size | | Depth |
| 1 Pipe | | Depth |
| 1 | | Depth |
| ment Left in Csg. | <i>15'</i> | Shoe Joint |
| ss Max. | | Minimum |
| as Line | <i>✓ 205'</i> | Displace <i>✓ 13 ABL</i> |

Owner
 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 listed.

Charge To *H & H PRODUCTION*
 Street *Box 348*
 City *RUSSELL* State *KANSAS*

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
X [Signature]

CEMENT

| | | | |
|----------------|----------------------------------|--------------|---------------|
| Amount Ordered | <i>135 SK 6 3/4 2% gel 3% cc</i> | | |
| Consisting of | | | |
| Common | <i>81 @</i> | <i>5 1/2</i> | <i>425 25</i> |
| Poz. Mix | <i>54 @</i> | <i>2 1/2</i> | <i>121 50</i> |
| Gel. | <i>2 @</i> | <i>N/C</i> | <i>N/C</i> |
| Chloride | <i>4 @</i> | <i>2 1/2</i> | <i>84 10</i> |
| Quickset | | | |

EQUIPMENT

| | | | |
|-------------|-----|----------|--------------------|
| mptrk #177 | No. | Cementer | <i>[Signature]</i> |
| | | Helper | <i>[Signature]</i> |
| mptrk #218 | No. | Cementer | |
| | | Helper | |
| ilktrk #218 | | Driver | <i>Mark</i> |
| | | Driver | |

| | |
|------------------------------------------------|---------------|
| Sales Tax | |
| Handling <i>1 1/2</i> PER SK. | <i>135 00</i> |
| Mileage <i>.04</i> PER TON MILE <i>(31 mi)</i> | <i>172 00</i> |
| <i>32</i> | <i>42 00</i> |
| Sub Total | <i>349 00</i> |
| Total | <i>486 00</i> |

| | |
|----------------|-------------------------------|
| DEPTH of Job | |
| Reference: | <i>Pump Truck Chrg 380 00</i> |
| | <i>2 00 per mile 64 00</i> |
| <i>1-8 5/8</i> | <i>Wiper Plug 42 00</i> |
| Sub Total | |
| Tax | |
| Total | <i>486 00</i> |

Remarks:
Cement Circulated
[Signature]

AUG 12 1991

CORRECTION DIVISION
 Wichita, Kansas

Copy