



KANSAS CORPORATION COMMISSION 1077090  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 5663  
Name: Hess Oil Company  
Address 1: PO BOX 1009  
Address 2: \_\_\_\_\_  
City: MCPHERSON State: KS Zip: 67460 + 1009  
Contact Person: Bryan Hess  
Phone: ( 620 ) 241-4640  
CONTRACTOR: License # 5663  
Name: Hess Oil Company  
Wellsite Geologist: James C. Hess  
Purchaser: NCRA

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
1/2/2012    1/8/2012    1/19/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-135-25250-00-00  
Spot Description: \_\_\_\_\_  
NE SE SE SW Sec. 20 Twp. 17 S. R. 22  East  West  
370 Feet from  North /  South Line of Section  
2460 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Ness  
Lease Name: Wandelene Well #: 2  
Field Name: Happy Hollow North  
Producing Formation: Mississippi  
Elevation: Ground: 2268 Kelly Bushing: 2273  
Total Depth: 4280 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 222 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1517 Feet  
If Alternate II completion, cement circulated from: 200  
feet depth to: 1517 w/ 0 sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 0 ppm Fluid volume: 0 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that 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.

Submitted Electronically

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT [ ] I  II  III Approved by: NAOMI JAMES Date: 03/29/2012



1077090

Operator Name: Hess Oil Company Lease Name: Wandelene Well #: 2

Sec. 20 Twp. 17 S. R. 22  East  West County: Ness

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

|  |   |   |  |
|--|---|---|--|
| Drill Stem Tests Taken<br><i>(Attach Additional Sheets)</i>          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log Formation (Top), Depth and Datum | <input checked="" type="checkbox"/> Sample |
| Samples Sent to Geological Survey                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name Attached   | Top Datum Attached                         |
| Cores Taken  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |   |  |
| Electric Log Run   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |   |  |
| Electric Log Submitted Electronically<br><i>(If no, Submit Copy)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No            |   |  |

List All E. Logs Run:

| 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   | 12.25             | 8.625                     | 20                | 222           | Class A        | 160          | 2% gel, 3% cc              |
| Production  | 7.875             | 5.5                       | 15.5              | 4273          | EA-2           | 150          | +150 SMD                   |

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

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
|                |   | (no acid)  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |

TUBING RECORD: Size: 2.875 Set At: 4256 Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: 2/3/2012 Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

|                                   |           |         |             |               |         |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|                                   | 8         |         | 2           |               |         |

|   |  |  |
|---|--|--|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL:<br><u>4273'-4279'</u> |
|---|--|--|

|           |                        |
|-----------|------------------------|
| Form      | ACO1 - Well Completion |
| Operator  | Hess Oil Company       |
| Well Name | Wandelene 2            |
| Doc ID    | 1077090                |

Tops

|                  |      |       |
|------------------|------|-------|
| Anhydrite        | 1530 | +743  |
| Base Anhydrite   | 1567 | +706  |
| Heebner          | 3661 | -1388 |
| Lansing          | 3704 | -1431 |
| Base Kansas City | 3982 | -1709 |
| Pawnee           | 4080 | -1807 |
| Fort Scott       | 4171 | -1898 |
| Cherokee Shale   | 4190 | -1917 |
| Mississippi      | 4272 | -1999 |
| RTD              | 4280 | -2007 |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Hess Oil Company  
P.O. Box 1009  
McPherson, KS 67460  
ATTN: Jamie Hess

20/17S/22W-Ness

**Wandelene #2**

Job Ticket: 46360

DST#: 1

Test Start: 2012.01.08 @ 14:41:30

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:20:30

Time Test Ended: 22:39:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4190.00 ft (KB) To 4276.00 ft (KB) (TVD)

Total Depth: 4276.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2275.00 ft (KB)

2270.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press@RunDepth: 45.64 psig @ 4260.00 ft (KB)

Start Date: 2012.01.08

End Date:

2012.01.08

Start Time: 14:51:30

End Time:

22:39:00

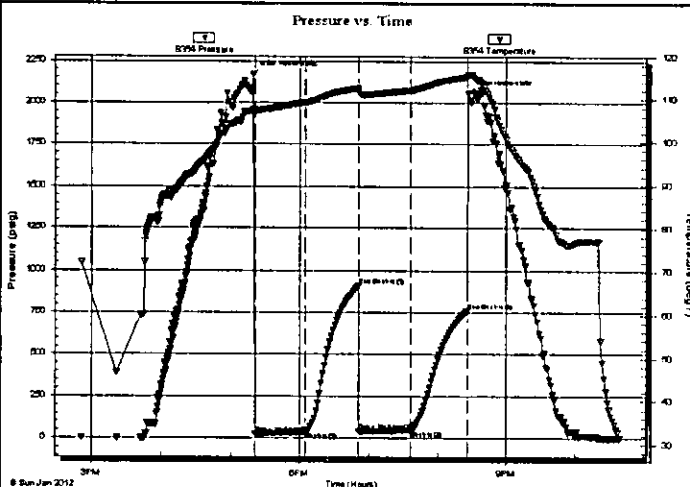
Capacity: 8000.00 psig

Last Calib.: 2012.01.08

Time On Btm: 2012.01.08 @ 17:19:30

Time Off Btm: 2012.01.08 @ 20:27:00

TEST COMMENT: IF-Very weak building blow . Built to 1/2 inch.  
ISI-No Return.  
FF-Very weak surface blow . Died @ 18 minutes.  
FSI-No Return.



### PRESSURE SUMMARY

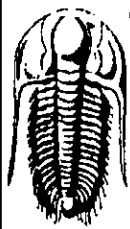
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2169.65         | 107.68       | Initial Hydro-static |
| 1           | 23.85           | 107.29       | Open To Flow (1)     |
| 46          | 33.64           | 109.23       | Shut-In(1)           |
| 91          | 906.68          | 112.53       | End Shut-In(1)       |
| 92          | 40.20           | 112.09       | Open To Flow (2)     |
| 137         | 45.64           | 112.03       | Shut-In(2)           |
| 186         | 761.54          | 115.23       | End Shut-In(2)       |
| 188         | 2054.58         | 115.81       | Final Hydro-static   |

### Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 60.00       | 50%Water/50%Mud | 0.30         |
| 1.00        | 100%Oil         | 0.00         |
|             |                 |              |
|             |                 |              |
|             |                 |              |

### Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Hess Oil Company

20/17S/22W-Ness

P.O. Box 1009  
McPherson, KS 67460

Wandelene #2

Job Ticket: 46360

DST#: 1

ATTN: Jamie Hess

Test Start: 2012.01.08 @ 14:41:30

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.76 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12400.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description     | Volume<br>bbl |
|--------------|-----------------|---------------|
| 60.00        | 50%Water/50%Mud | 0.295         |
| 1.00         | 100%Oil         | 0.005         |

Total Length: 61.00 ft      Total Volume: 0.300 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

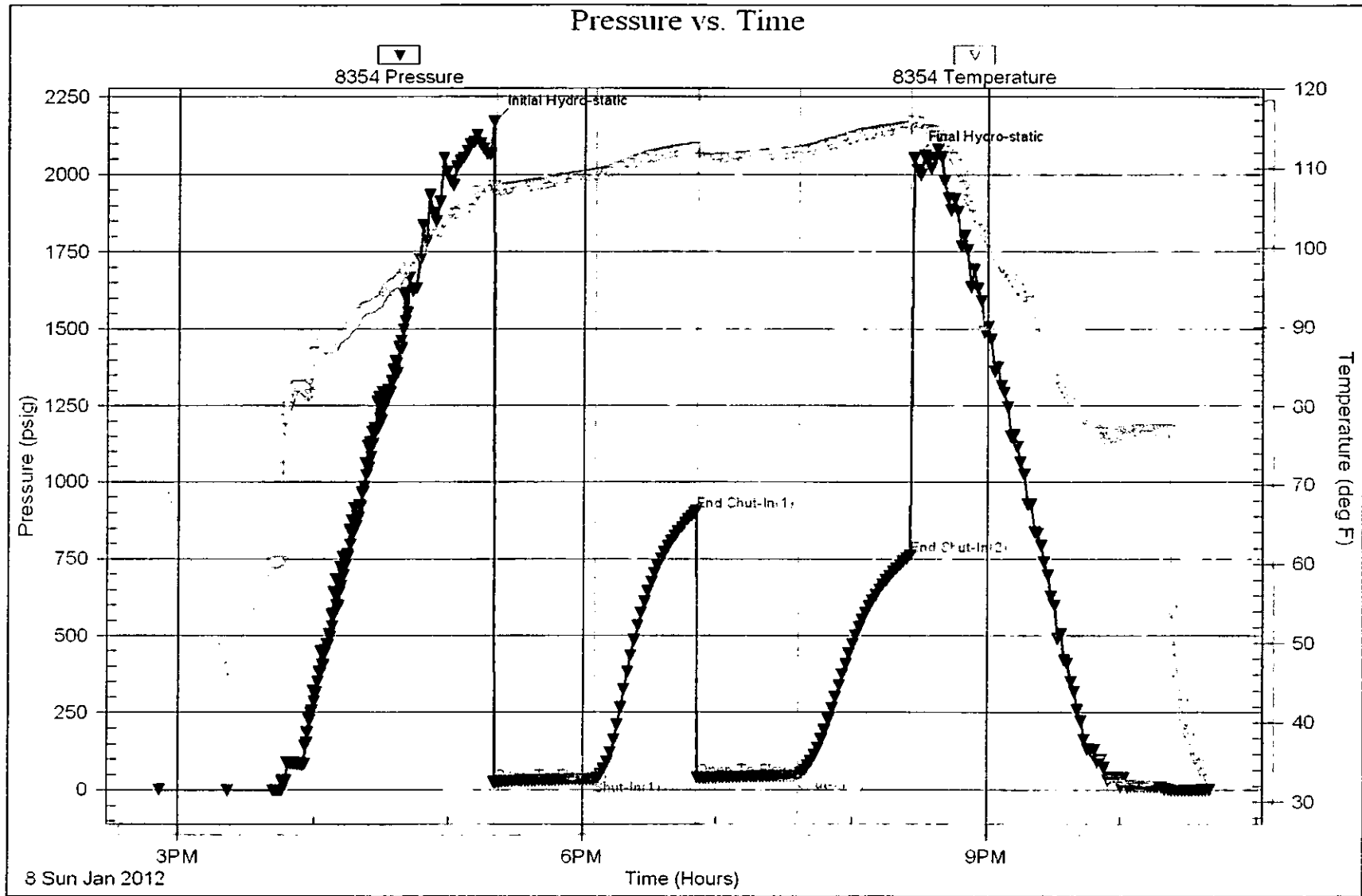
Recovery Comments:

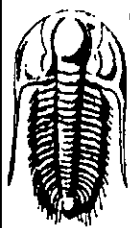
Serial #: 8354

Inside Hess Oil Company

Wandelene #2

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Hess Oil Company  
P.O. Box 1009  
McPherson, KS 67460  
ATTN: Jamie Hess

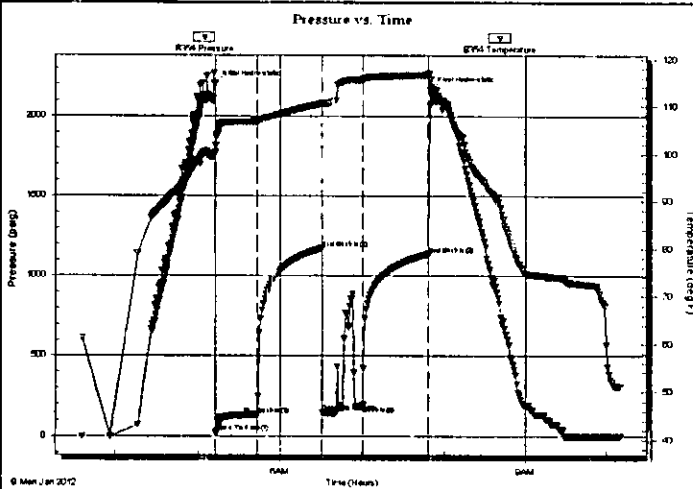
**20/17S/22W-Ness**  
**Wandelene #2**  
Job Ticket: 46361      DST#: 2  
Test Start: 2012.01.09 @ 03:26:15

### GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No Whipstock:                      ft (KB)  
Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 05:13:05                      Tester: Dustin Rash  
Time Test Ended: 10:10:15                      Unit No: 38  
Interval: **4270.00 ft (KB) To 4280.00 ft (KB) (TVD)**  
Total Depth: **4280.00 ft (KB) (TVD)**  
Reference Elevations:                      2275.00 ft (KB)  
Hole Diameter: **7.88 inches** Hole Condition: Fair                      2270.00 ft (CF)  
KB to GR/CF:                      5.00 ft

**Serial #: 8354**      Inside  
Press@RunDepth: **192.82 psig @ 4272.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.01.09**      End Date: **2012.01.09**      Last Calib.: **2012.01.09**  
Start Time: **03:36:15**      End Time: **10:10:15**      Time On Btm: **2012.01.09 @ 05:12:45**  
Time Off Btm: **2012.01.09 @ 07:50:15**

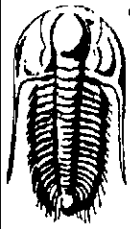
**TEST COMMENT:** IF-Fair building blow . Built to 8 inches.  
ISI-No Return.  
FF-Fair building blow . Built to 8 inches.  
FSI-No Return.



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 2204.99         | 100.30       | Initial Hydro-static |
| 1                | 25.68           | 101.67       | Open To Flow (1)     |
| 31               | 134.51          | 106.86       | Shut-in(1)           |
| 78               | 1172.20         | 110.55       | End Shut-in(1)       |
| 78               | 148.10          | 110.26       | Open To Flow (2)     |
| 108              | 192.82          | 115.52       | Shut-in(2)           |
| 156              | 1136.50         | 116.69       | End Shut-in(2)       |
| 158              | 2167.87         | 115.71       | Final Hydro-static   |

| Recovery    |               |              |
|-------------|---------------|--------------|
| Length (ft) | Description   | Volume (bbl) |
| 242.00      | 10%Oil/90%Mud | 1.19         |
| 62.00       | 20%Oil/80%Mud | 0.87         |
| 62.00       | 40%Oil/60%Mud | 0.87         |
| 4.00        | 20%Gas/80%Oil | 0.06         |
| 0.00        | 60' G.I.P.    | 0.00         |

| Gas Rates |                |                 |                  |
|-----------|----------------|-----------------|------------------|
|           | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|           |                |                 |                  |



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Hess Oil Company  
P.O. Box 1009  
McPherson, KS 67460  
ATTN: Jamie Hess

**20/17S/22W-Ness**  
**Wandelene #2**  
Job Ticket: 46361      **DST#: 2**  
Test Start: 2012.01.09 @ 03:26:15

**Mud and Cushion Information**

|                                   |                            |                 |            |
|-----------------------------------|----------------------------|-----------------|------------|
| Mud Type: Gel Chem                | Cushion Type:              | Oil API:        | 42 deg API |
| Mud Weight: 9.00 lb/gal           | Cushion Length: ft         | Water Salinity: | ppm        |
| Viscosity: 59.00 sec/qt           | Cushion Volume: bbl        |                 |            |
| Water Loss: 9.92 in. <sup>3</sup> | Gas Cushion Type:          |                 |            |
| Resistivity: ohm.m                | Gas Cushion Pressure: psig |                 |            |
| Salinity: 12400.00 ppm            |                            |                 |            |
| Filter Cake: inches               |                            |                 |            |

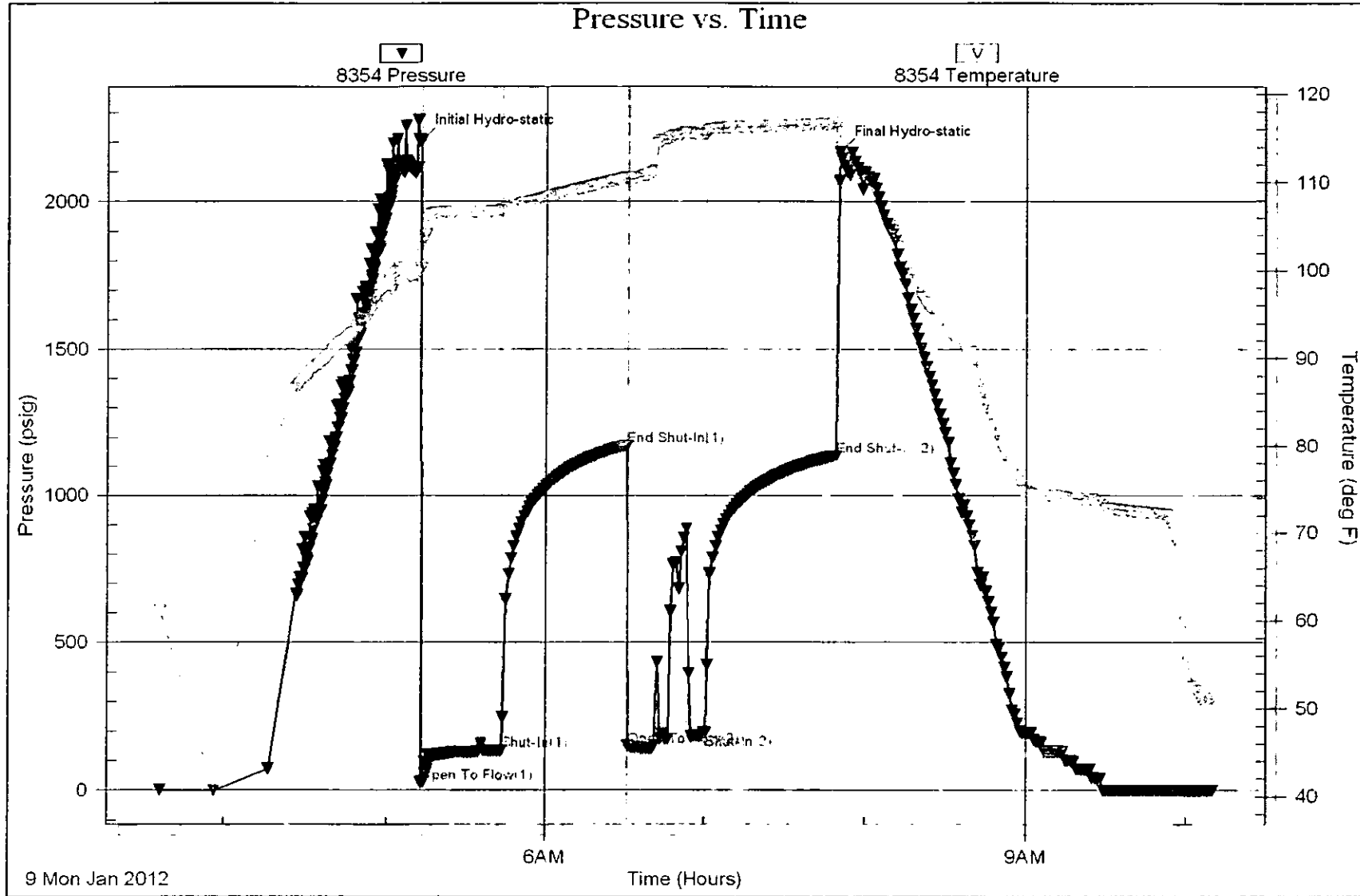
**Recovery Information**

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 242.00       | 10%Oil/90%Mud | 1.190         |
| 62.00        | 20%Oil/80%Mud | 0.870         |
| 62.00        | 40%Oil/60%Mud | 0.870         |
| 4.00         | 20%Gas/80%Oil | 0.056         |
| 0.00         | 60' G.I.P.    | 0.000         |

Total Length: 370.00 ft      Total Volume: 2.986 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





# HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

## GEOLOGICAL REPORT

### WANDALENE #2

370' FSL, 2460' FWL of

SECTION 20 - 17S - 22W

NESS COUNTY, KANSAS

Commenced: 1-2-12                      Elevations: 2268' GR, 2273' KB  
Completed: 1-10-12                      Surface Pipe: 8-5/8" @ 222' KB  
Contractor: Mallard J.V.                      Production Pipe: 5-1/2"

One foot drilling time was kept from 1500 to 1592' KB and from 3500 to Rotary Total Depth. Ten foot drilling samples (wet & dry) were kept from 4000' to RTD.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

|                         |             |                |
|-------------------------|-------------|----------------|
| <u>ANHYDRITE</u>        | <u>1530</u> | <u>( +743)</u> |
| <u>BASE ANHYDRITE</u>   | <u>1567</u> | <u>( +706)</u> |
| <u>HEEBNER</u>          | <u>3661</u> | <u>(-1388)</u> |
| <u>LANSING</u>          | <u>3704</u> | <u>(-1431)</u> |
| <u>BASE KANSAS CITY</u> | <u>3982</u> | <u>(-1709)</u> |
| <u>PAWNEE</u>           | <u>4080</u> | <u>(-1807)</u> |
| <u>FORT SCOTT</u>       | <u>4171</u> | <u>(-1897)</u> |
| <u>CHEROKEE SHALE</u>   | <u>4190</u> | <u>(-1917)</u> |
| <u>MISSISSIPPI</u>      | <u>4272</u> | <u>(-1999)</u> |

# HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Wandalene #2

Page 2

4270-72' KB Clear, medium grained, fairly sorted, sandstone clusters & loose grains. Slight show of free oil in very poor porosity, no odor, slight stain.

4273-76' KB White, sharp & tripolitic, chert. Fair show of free oil in poor "on edge" porosity, slight odor, fair stain, and a fair cut.

DRILL STEM TEST #1 4190 to 4276' KB 86' Anchor

Blow: very slow build to  $\frac{1}{2}$ " 2nd - slight surface blow, died in 18 min.

Times: Open 45, Closed 45, Open 45, Closed 45.

Recovered: 1' oil 60' (50% SW, 50% Mud)

Pressures: IH 2170# IF 24 - 34# ISIP 907#  
FH 2055# FF 40 - 46# FSIP 762#

4277-80' KB White, sharp & tripolitic, cherts. Good show of free oil in fair "on edge" porosity, good odor, good stain, and a strong cut.

DRILL STEM TEST #2 4270 to 4280' KB 10' Anchor

Blow: build to 8". 2nd - build to 8".

Times: Open 30, Closed 45, Open 30, Closed 45.

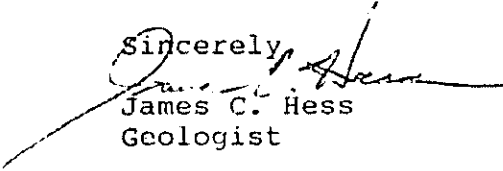
Recovered: 60' Gas  
370' HOCM (20% Oil, 80% M) No Water !!

Pressures: IH 2205# IF 26 - 135# ISIP 1172#  
FH 2168# FF 148 - 193# FSIP 1137#

Note: a little plugging action on 1st opening - a lot on second !

ROTARY TOTAL DEPTH 4280 (-2007)

No logs were needed or run. 5-1/2" 15.5# Casing was set with a packer shoe @ 4273' KB. Cemented w/150sx EA-II cement. A D.V. Tool was set at 1517-19' KB and cemented to surface w/200sx SMDC.

Sincerely,  
  
James C. Hess  
Geologist

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

|  |  |
|--|--|
| COMPANY <u>HESS OIL COMPANY</u><br>LEASE <u>WANDALENE * 2</u><br>FIELD _____<br>LOCATION <u>370' FSL, 2460' FWL</u><br>SEC <u>20</u> TWP <u>17 S</u> RGE <u>22 W</u><br>COUNTY <u>NESS</u> STATE <u>KANSAS</u> | ELEVATIONS<br>KB <u>2273'</u><br>DF <u>2271'</u><br>GL <u>2268'</u><br>Measurements Are All<br>From <u>KB</u>                            |
| CONTRACTOR <u>MALLARD J.V.</u><br>SPUD <u>1-2-12</u> COMP <u>1-10-12</u><br>RTD <u>4280'</u> LTD <u>none</u><br>MUD UP <u>3650'</u> TYPE MUD <u>CHEMICAL</u>   | CASING SURFACE <u>8-5/8" at 222'</u><br>PRODUCTION <u>5-1/2"</u><br>ELECTRICAL SURVEYS<br><p style="text-align: center;"><b>none</b></p> |

|  |              |
|--|--------------|
| SAMPLES SAVED FROM <u>4000'</u>          | TO <u>TD</u> |
| DRILLING TIME KEPT FROM <u>3500'</u>     | TO <u>TD</u> |
| SAMPLES EXAMINED FROM <u>4000'</u>       | TO <u>TD</u> |
| GEOLOGICAL SUPERVISION FROM <u>3550'</u> | TO <u>TD</u> |
| GEOLOGIST ON WELL <u>JAMES C. HESS</u>   |              |

| FORMATION TOPS   | LOG | SAMPLES      |  |  |
|------------------|-----|--------------|--|--|
| ANHYDRITE        |     | 1530 (+743)  |  |  |
| BASE ANHYDRITE   |     | 1567 (+706)  |  |  |
| HEEBNER          |     | 3661 (-1388) |  |  |
| LANSING          |     | 3704 (-1431) |  |  |
| BASE KANSAS CITY |     | 3982 (-1709) |  |  |
| PAWNEE           |     | 4080 (-1807) |  |  |
| FORT SCOTT       |     | 4171 (-1898) |  |  |
| CHEROKEE SHALE   |     | 4190 (-1917) |  |  |
| MISSISSIPPI      |     | 4272 (-1999) |  |  |
| R T D            |     | 4280 (-2007) |  |  |

|  |  |  |      |    |
|--|--|--|------|----|
|  |  |  | 22 W |    |
|  |  |  |      |    |
|  |  |  |      |    |
|  |  |  | 20   | 17 |
|  |  |  |      |    |
|  |  |  | •    |    |

7505

REMARKS Pipe string 2 1/2" long to board

LEGEND



SCALE " = 100'

LXC 7703

| LXC 7703 | Drilling time in minutes | DEPTH | Sample Description | Remarks, drill stem tests, etc. |
|----------|--------------------------|-------|--------------------|---------------------------------|
|          |                          |       |                    |                                 |
|          | 0 5 10 15 20             | 1500  |                    |                                 |
|          |                          | 20    |                    |                                 |
|          |                          | 40    |                    | ANHYDRITE 1530 (+743)           |
|          |                          | 60    |                    |                                 |
|          |                          |       |                    | BASE ANHYDRITE 1567             |

(+706)

80

3500

20

40

60

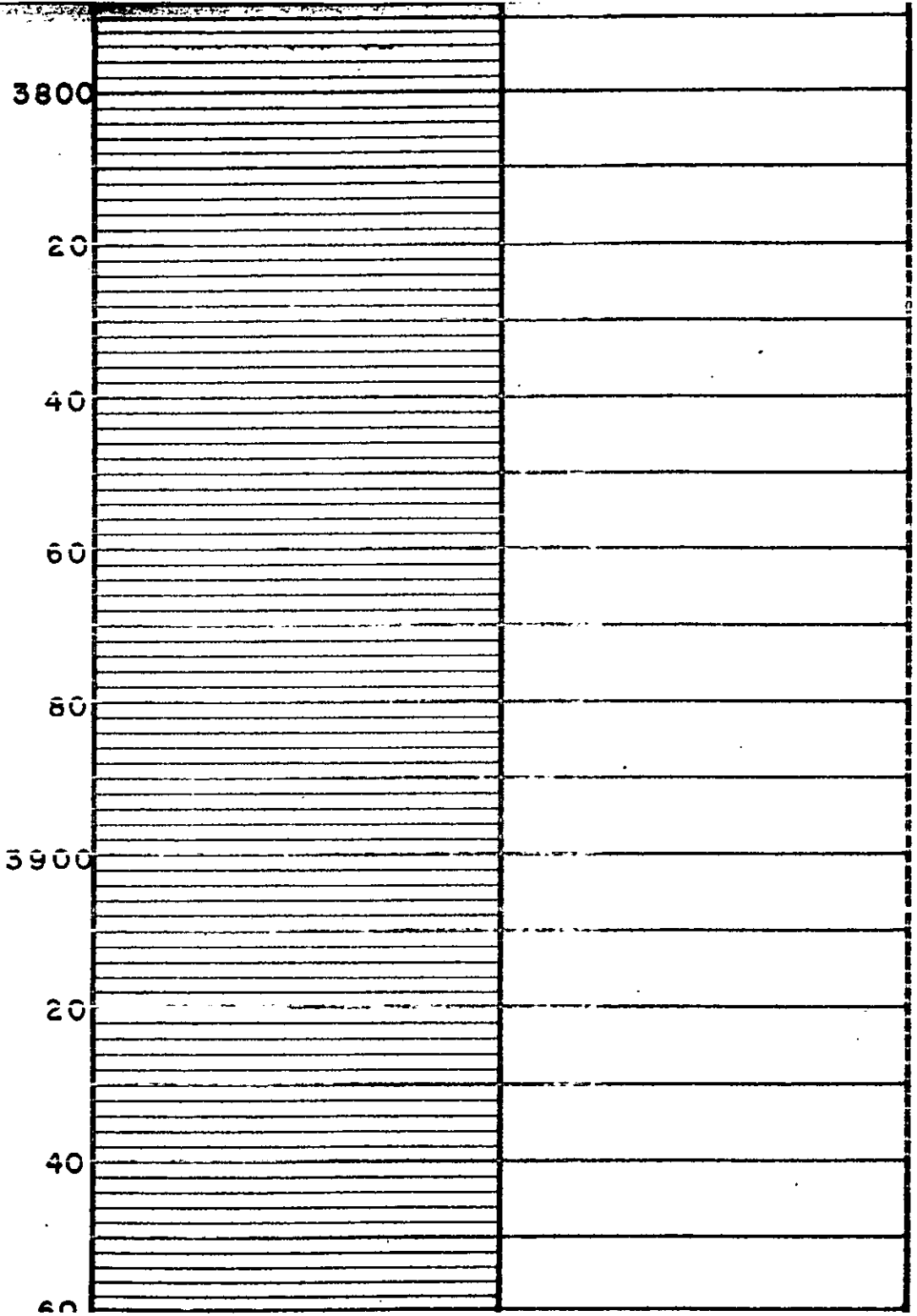
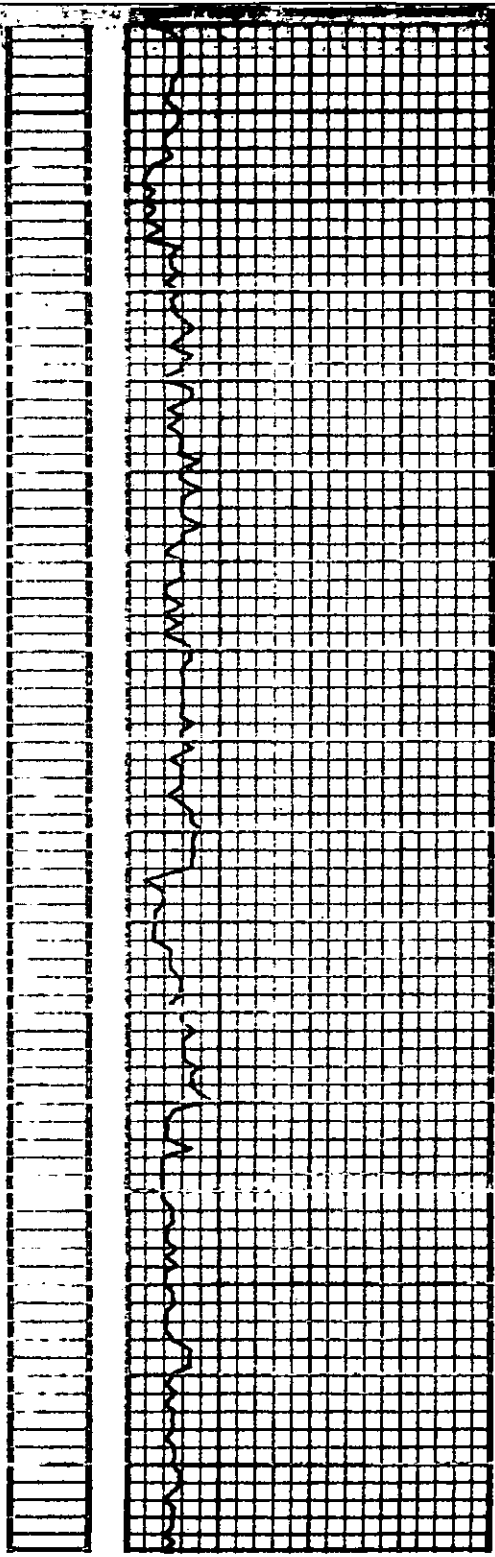
60

3600

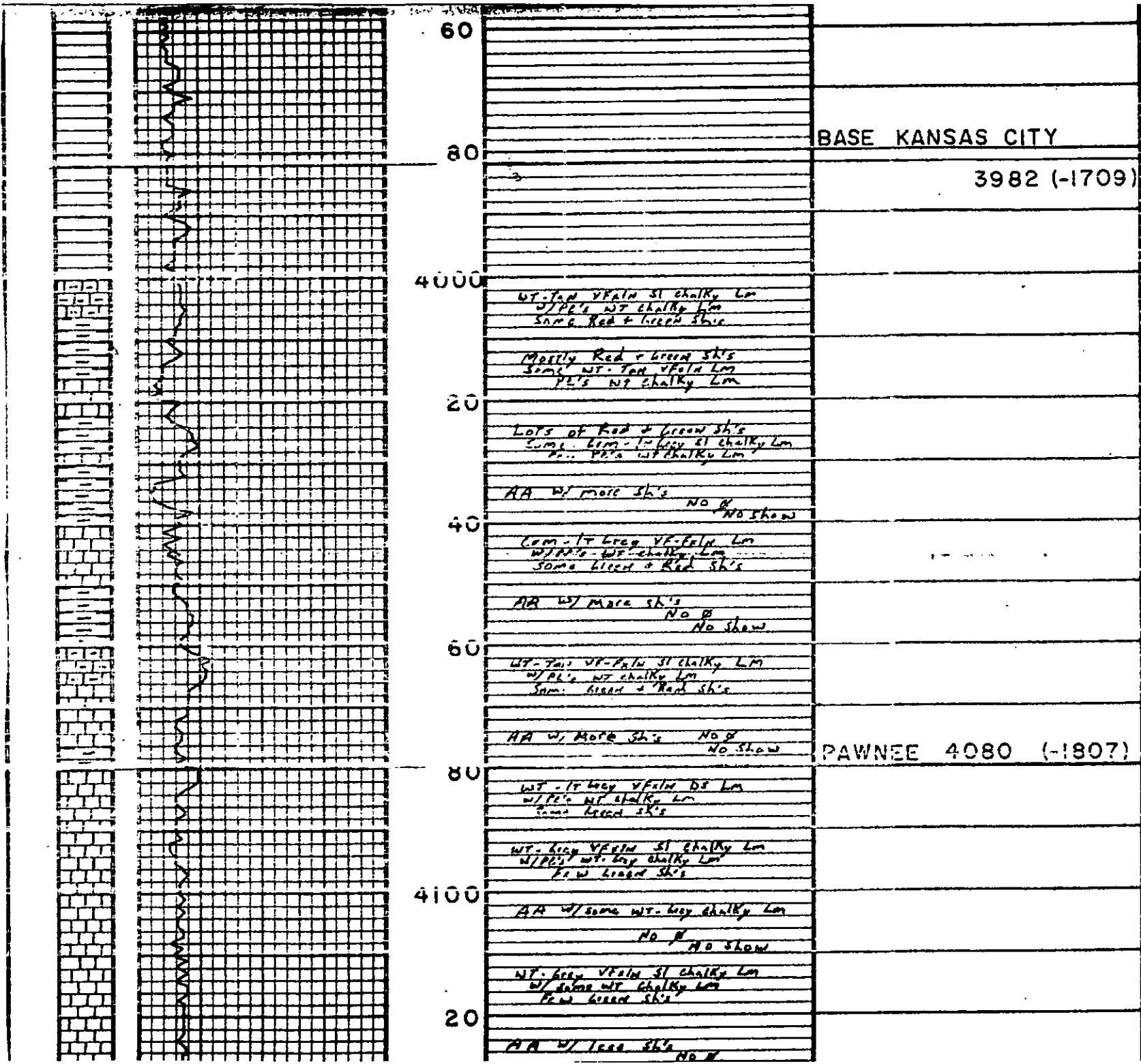
20

Handwritten text in a vertical column, possibly a date or location, appearing as a series of vertical strokes.









BASE KANSAS CITY

3982 (-1709)

WT-Tan vFalm sl chalky Lm  
 w/Pl's wt chalky Lm  
 Some Red + green sh's

Mostly Red + green sh's  
 Some WT-Tan vFalm Lm  
 Pl's wt chalky Lm

Lots of Red + green sh's  
 Some Lm - 1" layer of chalky Lm  
 Pl's wt chalky Lm

AA w/ more sh's  
 No R  
 No show

Lm - 1" layer vFalm Lm  
 w/Pl's wt chalky Lm  
 Some green + Red sh's

AA w/ more sh's  
 No R  
 No show

WT-Tan vFalm sl chalky Lm  
 w/Pl's wt chalky Lm  
 Some green + Red sh's

AA w/ more sh's  
 No R  
 No show

PAWNEE 4080 (-1807)

WT - 1" layer vFalm DS Lm  
 w/Pl's wt chalky Lm  
 Some green sh's

WT - grey vFalm sl chalky Lm  
 w/Pl's wt grey chalky Lm  
 Few green sh's

AA w/ some wt-grey chalky Lm  
 No R  
 No show

WT - grey vFalm sl chalky Lm  
 w/ some wt chalky Lm  
 Few green sh's

AA w/ less sh's  
 No R



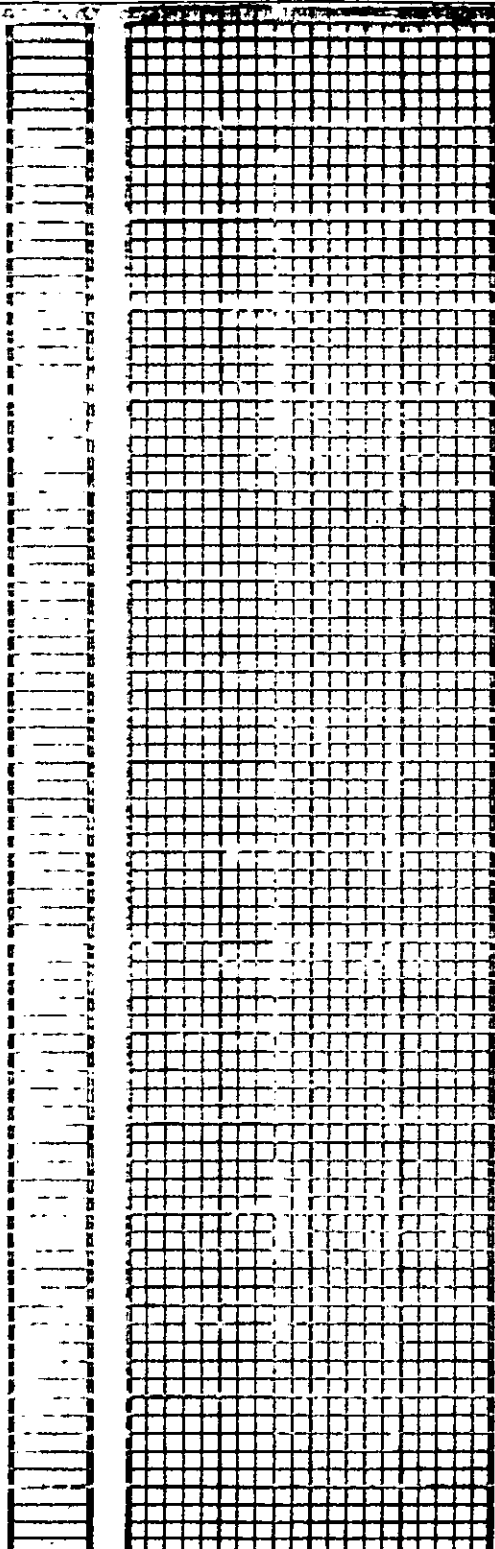
|      |   |                                 |
|------|---|---------------------------------|
|      | AA w/ less sh's<br>No B<br>No show  |                                 |
| 40   | Grm - heavy v. fine DS Lm<br>w/ P's w/ chalky Lm<br>Few sh's              |                                 |
|      | AA w/ few sh's<br>No B<br>No show   |                                 |
| 60   | Lm - heavy v. fine sl chalky Lm<br>w/ P's w/ chalky Lm<br>Some green sh's |                                 |
|      | AA w/ more loose sh's<br>No B<br>No show                                  |                                 |
|      | BI Carb. sh's   |                                 |
| 80   | Grm - fine v. fine DS Lm<br>w/ P's w/ chalky Lm<br>Some green + red sh's  | short term                      |
|      | AA w/ less sh's<br>No B<br>No show  |                                 |
|      | BI Carb. sh's   |                                 |
| 4200 | Mostly sh's w/ some Lm  |                                 |
|      | [P's sl or small lumps ss solid<br>w/ shale filled sl No show]            |                                 |
|      | Mostly Red + Green sh's   |                                 |
| 20   | Fine v. fine DS Lm<br>w/ P's sh's<br>Some Red + Green sh's                | Low loose sl<br>Lm's<br>No show |
|      | WT - heavy v. fine DS Lm<br>P's v. fine sh's<br>Some Red + green sh's     |                                 |
| 40   | AA w/ more sh's<br>No B<br>No show  |                                 |
|      | Grm - fine v. fine DS Lm<br>w/ P's v. fine sh's<br>Some Red + Green sh's  |                                 |
| 60   | Mostly Red + green sh's<br>Some WT - heavy v. fine Lm<br>P's v. fine sh's |                                 |
|      | Mostly sh's AA  |                                 |
|      | sl show in lower 1/2 of sh  |                                 |
| 60   | P's show of fine all in WT A sl show<br>Some show some tabular            |                                 |
|      | Coar show in adar   |                                 |

FORT SCOTT 4171 (-1898)

CHEROKEE SHALE 4190 (-1917)

MISSISSIPPI 4272 (-1999)

RTD 4280 (-2007)



4500

20

40

60

80

4400

20

40

DST #1  
 4190-4276' KB  
 86' ANCHOR  
 TIMES:  
 45-45-45-45  
 RECOVERED:  
 1' oil  
 60' 1/2 3/4 1/2 1/2  
 PRESSURES:  
 IH 2170"  
 FH 2055"  
 IF 24-34"  
 FF 40-46"  
 ISEP 907"  
 FSEP 722"

DST #2  
 4270-4280' KB  
 10' ANCHOR  
 TIMES:  
 30-45-30-45  
 RECOVERED:  
 60' gas  
 370' 20% oil 90% m  
 PRESSURES:  
 IH 2205"  
 FH 2160"  
 IF 26-135"  
 FF 148-173"  
 ISEP 1172"  
 FSEP 1137"

NOTE: Some plugging action  
 on 2nd flow

# ALLIED CEMENTING CO., LLC. 042387

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

SERVICE PHONE

*Crest 3265 KS*

|                            |                |                           |                                      |            |                      |                      |                       |
|----------------------------|----------------|---------------------------|--------------------------------------|------------|----------------------|----------------------|-----------------------|
| DATE <i>1-2-12</i>         | SEC# <i>10</i> | TWP# <i>17s</i>           | RANGE <i>23 W</i>                    | CALLED OUT | ON LOCATION          | START <i>2:00 PM</i> | FINISH <i>7:30 AM</i> |
| LEASE <i>Dan's Leasing</i> | WELL# <i>2</i> | LOCATION <i>Deane, KS</i> | <i>4 west to rd</i>                  |            | COUNTY <i>Neosho</i> | STATE <i>KS</i>      |                       |
| OLD OR NEW (circle one)    |                |                           | <i>12" Turb. 1/2 west north side</i> |            |                      |                      |                       |

|                              |   |
|------------------------------|---|
| CONTRACTOR <i>Mallard #1</i> | OWNER <i>Hess Oil Co.</i>                   |
| TYPE OF JOB <i>Surface</i>   | CEMENT <i>APPX 1 DR. 1/160 gals Class 1</i> |
| HOLE SIZE <i>12 1/8"</i>     | TUBING SIZE                                 |
| TUBING SIZE                  | DEPTH                                       |
| DRILL PIPE                   | DEPTH                                       |
| TOOL                         | DEPTH                                       |
| PRES. MAX                    | MINIMUM                                     |
| WAS. LINE                    | SHOE JOINT                                  |
| CEMENT LEFT IN CSG.          | <i>12 1/8"</i>                              |
| PERFS.                       |   |
| DISPLACEMENT                 |   |

|          |              |                 |                |
|----------|--------------|-----------------|----------------|
| COMMON   | <i>160</i>   | @ <i>16.25</i>  | <i>2600.00</i> |
| FOZMEX   |              | @               |                |
| GEL      | <i>3</i>     | @ <i>71.25</i>  | <i>213.75</i>  |
| CHLORIDE | <i>6</i>     | @ <i>38.20</i>  | <i>229.20</i>  |
| ASC      |              | @               |                |
| HANDLING | <i>169</i>   | @ <i>2.25</i>   | <i>379.25</i>  |
| MILEAGE  | <i>169.8</i> | @ <i>148.11</i> | <i>2506.26</i> |
| TOTAL    |              |                 | <i>3737.20</i> |

EQUIPMENT

PUMP TRUCK CEMENTER *2000*

# *210* HELPER *2100*

BULK TRUCK *74-170* DRIVER *Jenny*

BULK TRUCK DRIVER

REMARKS

*On location - Pump truck  
2 1/2 hrs carrying 160 sks  
2 1/2 hrs 2 = 500 cc 2 1/2 hrs  
Disposal with 13 sks of  
WASTE fluid in  
Circuit etc  
Hess Oil Co. 3:30 PM  
Right etc*

SERVICE

|                    |            |                |                |
|--------------------|------------|----------------|----------------|
| DEPTH OF JOB       | <i>221</i> |                |                |
| PUMP TRUCK CHARGE  |            | <i>1125.00</i> |                |
| EXTRA FOOTAGE      |            | @              |                |
| MILEAGE <i>Hvm</i> | <i>28</i>  | @ <i>7.00</i>  | <i>196.00</i>  |
| MAN. OF C.         |            | @              |                |
| <i>Hvm</i>         | <i>38</i>  | @ <i>4.00</i>  | <i>152.00</i>  |
| TOTAL              |            |                | <i>1433.00</i> |

CHARGE TO: *Hess Oil Co.*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

|             |   |  |
|-------------|---|--|
|             | @ |  |
|             | @ |  |
|             | @ |  |
|             | @ |  |
|             | @ |  |
| TOTAL _____ |   |  |

To Allied Cementing Co., LLC.  
You are hereby notified to rent cementing equipment and furnish materials and helpers to assist owner or contractor to do work as is listed. If the above work was done to satisfaction and supervision of owner agent or contractor, I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME: *Frank Symank*

SIGNATURE: *Frank Symank*

*Thank You!*

SALES TAX (If App) \_\_\_\_\_

TOTAL CHARGES *5,170.20*

*70% 2098* *1,360.84*

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

*3810.16*

JOB LOG

SWIFT Services, Inc.

DATE 9 JAN 12 PAGE NO.

CUSTOMER HESS OIL WELL NO. LEASE WANDAENE #2 JOB TYPE S2 LONG STRING TICKET NO. 21536

| CHART NO. | TIME | RATE (EPL) | VOLUME (RE.) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS  |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
|           |      |            |                    | F     | C | TUBING         | CASING |   |
|           | 1730 |            |                    |       |   |                |        | ON LAY ACTION   |
|           | 1955 |            |                    |       |   |                |        | START PIPE 5 1/2 15.5#<br>LTD @ 4287 SET @ 4273<br>SPACE ST. 13.5'<br>CENTRALIZERS 1, 2, 3, 4, 5, 6, 5<br>BASKET 6e<br>DU TOOL TOP OF 6e @ 1517 |
|           | 2222 |            |                    |       |   |                | 1700   | SET PACKER SAGY CIRCULATE.  |
|           | 2241 | 6          | 12                 |       | ✓ |                | 300    | Pump 500 GPM MUD FLUSH  |
|           |      | 6          | 20                 |       | ✓ |                | 300    | Pump 200 GPM KCL FLUSH  |
|           | 2250 | 4          | 36                 |       | ✓ |                |        | MIX 150 SX FA2  |
|           | 2258 |            |                    |       |   |                |        | WASH OUT PUMPING LINES.   |
|           | 2302 | 6          |                    |       | ✓ |                |        | RELEASE PLUG START DISPLACEMENT   |
|           | 2318 | 7          | 101                |       | ✓ |                | 1500   | PLUG DOWN PSI UP LATCH PLUG TA.   |
|           | 2320 |            |                    |       |   |                |        | RELEASE PSI - DRY.  |
|           | 2322 |            |                    |       |   |                |        | WASH TRUCK  |
|           | 2325 |            |                    |       |   |                |        | RELEASE OPENING TOOL.   |
|           | 2331 |            |                    |       |   |                |        | OPEN TOOL TRAIL.  |
|           | 2333 |            |                    |       |   |                |        | CIRCULATE.  |
|           | 0319 | 6          | 20                 |       | ✓ |                | 200    | Pump 200 GPM KCL FLUSH  |
|           | 0330 |            | 7.5                |       |   |                |        | PLUG TRAIL/MH (30 SX - 20 SX)   |
|           | 0332 | 4          | 53                 |       | ✓ |                |        | MIX 150 SX SAND   |
|           | 0403 |            |                    |       |   |                |        | WASH OUT PUMPING LINES.   |
|           | 0405 | 6          |                    |       | ✓ |                |        | RELEASE DU CLOSING PLUG   |
|           | 0413 |            | 36                 |       | ✓ |                | 1500   | PLUG DOWN PSI UP CLOSE DU TOOL.   |
|           |      |            |                    |       |   |                |        | CIRCULATE CEMENT TO PIT   |
|           | 0415 |            |                    |       |   |                |        | RELEASE PSI DRY   |
|           | 0417 |            |                    |       |   |                |        | WASH TRUCK  |
|           | 0500 |            |                    |       |   |                |        | WORK COMPLETE   |
|           |      |            |                    |       |   |                |        | THANKS #110   |
|           |      |            |                    |       |   |                |        | SALES JEFF LAWE   |