

15-195-22188-00-00

plugged 2/23/97

FORM MUST BE TYPED

SIDE ONE

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

API NO. 15- 195-221880000

County Trego

ORIGINAL

80'W of S2- N2 - SE Sec. 22 Twp. 11 Rge. 21 X W

Operator: License # 5663

1650 Feet from S/ (circle one) Line of Section

Name: Hess Oil Company

1400 Feet from E/ (circle one) Line of Section

Address P. O. Box 1009

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

City/State/Zip McPherson, KS 67460

Lease Name Armbrister Well # 1

Purchaser:

Field Name

Operator Contact Person: Bryan Hess

Producing Formation

Phone (316) 241-4640

Elevation: Ground 2275' KB 2280'

Contractor: Name: Murfin Drilling Co., Inc.

Total Depth 3966' PBTD

License: 30606

Amount of Surface Pipe Set and Cemented at 207 Feet

Wellsite Geologist: James C. Hess

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion

If yes, show depth set Feet

X New Well Re-Entry Workover

If Alternate II completion, cement circulated from

Oil SWD S1OW Temp. Abd.

feet depth to w/ sx cmt.

Gas ENHR SIGW

X Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan V.C. 12-18-97
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content 18,000 ppm Fluid volume 700 bbls

Operator:

Dewatering method used Evaporation

Well Name:

Location of fluid disposal if hauled offsite:

Comp. Date Old Total Depth

Operator Name

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTD

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

Lease Name License No.

Quarter Sec. Twp. S Rng. E/W

2-18-97 2-23-97 2-23-97

County Docket No.

Spud Date Date Reached TD Completion Date

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.

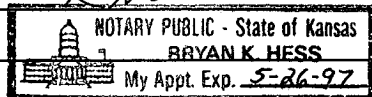
Signature Dick Hess

Title Dick Hess, President Date 4-14-97

Subscribed and sworn to before me this 14th day of April, 19 97.

Notary Public Bryan K Hess

Date Commission Expires



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)

SIDE TWO

Operator Name Hess Oil Company Lease Name Armbrister Well # _____
 Sec. 22 Twp. 11 Rge. 21 East County Trego
 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.)
 List All E.Logs Run:

DST #1: 3742'-3810'. Times 30-30-0-0. Weak surface blow died in 17 min. Rec 5' mud. Pressures IH 1770#, FH 1759#, IF 33-33#, FF na, ISI 44#, FSI na.

| Name | Top | Datum |
|------------------|-------|-----------|
| Anhydrite | 1715' | (+565') |
| Base Anhydrite | 1762' | (+518') |
| Topeka | 3327' | (-1047') |
| Heebner | 3538' | (-1258') |
| Toronto | 3560' | (-1280') |
| Lansing | 3578' | (-1298') |
| Muncie Creek | 3701' | (-1421') |
| Base Kansas City | 3801' | (-1521') |
| Conglomerate | 3890' | (-1610') |
| Arbuckle | 3919' | (-1639') |
| RTD | 3966' | (-1686') |

CASING RECORD

New 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" | 28# | 209' | 60/40 Pozmix | 140 | 2% gel, 6% cc |
| | | | | | | | |
| | | | | | | | |

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

| 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. Oct A Producing Method Flowing Pumping Gas Lift Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|------------|------------|-------------|---------------|---------|
| | <u>N-A</u> | <u>N-A</u> | | | |

Disposition of Gas: **METHOD OF COMPLETION** Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

15-195-22188-00-00

ALLIED CEMENTING CO., INC. 7247

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

ORIGINAL

SERVICE POINT: Russell

| | | | | | | | |
|-------------------------|----------------|---|-----------------|--------------------------|---------------------------|-------------------------|--------------------------|
| DATE <u>2-18-97</u> | SEC. <u>22</u> | TWP. <u>11</u> | RANGE <u>21</u> | CALLED OUT <u>4:30PM</u> | ON LOCATION <u>5:15PM</u> | JOB START <u>7:45PM</u> | JOB FINISH <u>8:15PM</u> |
| LEASE <u>ARMASTRONG</u> | WELL# <u>1</u> | LOCATION <u>Riga + I-70 EXT 6 1/2 x 1 1/2</u> | | COUNTY <u>Trego</u> | STATE <u>KANSAS</u> | | |

OLD OR NEW (Circle one)

CONTRACTOR MURFIN DRILL RIG #3

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 209

CASING SIZE 8 5/8 28# DEPTH 209

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15' 12 1/2 / 88L

PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED 140 SK 69 2% GEL
3% CC

| | | |
|--------------------|-----------|----------------|
| COMMON | 84 @ 6.10 | 512.40 |
| POZMIX | 56 @ 3.15 | 176.40 |
| GEL | 2 @ 9.50 | 19.00 |
| CHLORIDE | 4 @ 28.00 | 112.00 |
| | @ _____ | _____ |
| | @ _____ | _____ |
| | @ _____ | _____ |
| | @ _____ | _____ |
| | @ _____ | _____ |
| HANDLING | @ 10.5 | 147.00 |
| MILEAGE <u>30m</u> | <u>04</u> | <u>168.00</u> |
| TOTAL | | <u>1134.80</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Mike

177 HELPER Will

BULK TRUCK

213 DRIVER Jan

BULK TRUCK

_____ DRIVER _____

REMARKS:

Cement CIRCULATED

THANKS

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 445.00

EXTRA FOOTAGE @ _____

MILEAGE 30 @ 2.85 85.50

PLUG 1-8 5/8 WOODEN @ _____ 45.00

TOTAL 575.50

CHARGE TO: HESS Oil Company

STREET Box 1009

CITY McPherson STATE Kan ZIP 67460-1009

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cement 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.

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Keith VanRett

RECEIVED
 KANSAS CEMENTING CO.
 APR 15 1997
 4:15-1997

15-195-22188-00-00
ALLIED CEMENTING CO., INC. 7249

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

ORIGINAL

SERVICE POINT:
Russell

| | | | | | | | |
|------------------------------------|----------------|----------------|--|------------------------|---------------------------|------------------------|---------------------------|
| DATE <u>2-23-97</u> | SEC. <u>22</u> | TWP. <u>11</u> | RANGE <u>31</u> | CALLED OUT <u>7:30</u> | ON LOCATION <u>9:00am</u> | JOB START <u>10:15</u> | JOB FINISH <u>1:15 PM</u> |
| LEASE <u>Archiester</u> | | WELL# <u>1</u> | LOCATION <u>RIGA - T-70 Exit 6 1/2 N</u> | | COUNTY <u>Trego</u> | STATE <u>KANSAS</u> | |
| OLD OR NEW (Circle one) <u>NEW</u> | | | | <u>1E 1 1/2 N</u> | | | |

| | |
|---------------------------------------|---|
| CONTRACTOR <u>MURFIN DRIG. Rig #3</u> | OWNER _____ |
| TYPE OF JOB <u>ROTARY Plug</u> | CEMENT |
| HOLE SIZE <u>7/8</u> | AMOUNT ORDERED <u>215 SK 60 1/4 # FLO-SEAL 4 PER SK</u> |
| CASING SIZE <u>8 5/8 SURE</u> | DEPTH <u>209</u> |
| TUBING SIZE _____ | DEPTH _____ |
| DRILL PIPE <u>4 1/2 X-H</u> | DEPTH <u>3900</u> |
| TOOL _____ | DEPTH _____ |
| PRES. MAX _____ | MINIMUM _____ |
| MEAS. LINE _____ | SHOE JOINT _____ |
| CEMENT LEFT IN CSG. _____ | |
| PERFS. _____ | |

EQUIPMENT

| | |
|--------------|--------------------|
| PUMP TRUCK | CEMENTER <u>Sh</u> |
| # <u>177</u> | HELPER <u>Will</u> |
| BULK TRUCK | |
| # <u>213</u> | DRIVER <u>Joan</u> |
| BULK TRUCK | |
| # _____ | DRIVER _____ |

| | | | | |
|---------------------|------------|---|-------------|----------------------|
| COMMON | <u>129</u> | @ | <u>6.10</u> | <u>786.90</u> |
| POZMIX | <u>86</u> | @ | <u>3.15</u> | <u>270.90</u> |
| GEL | <u>11</u> | @ | <u>9.50</u> | <u>104.50</u> |
| CHLORIDE | | @ | | |
| <u>Flo Seal</u> | <u>54</u> | @ | <u>1.15</u> | <u>62.10</u> |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| HANDLING | | @ | <u>105</u> | <u>225.75</u> |
| MILEAGE <u>30 m</u> | | | <u>.04</u> | <u>258.00</u> |
| | | | | TOTAL <u>1708.15</u> |

REMARKS:

25 SK @ 3900'
25 SK @ 1730'
100 SK @ 908'
40 SK @ 260'
10 SK @ 40' + Plug
15 SK @ RAT Hole

THANKS

SERVICE

| | |
|----------------------|----------------------------|
| DEPTH OF JOB | |
| PUMP TRUCK CHARGE | <u>550.00</u> |
| EXTRA FOOTAGE | @ _____ |
| MILEAGE <u>30m</u> | @ <u>28.5</u> <u>85.50</u> |
| PLUG <u>Dry Hole</u> | @ <u>23.00</u> |
| | @ _____ |
| | @ _____ |
| TOTAL <u>658.50</u> | |

CHARGE TO: Hess Oil Company

STREET Box 1009

CITY McPherson STATE Kan ZIP 67460-1009

FLOAT EQUIPMENT:

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

4-15-1997

RECEIVED
 KANSAS OIL & GAS
 COMPANY

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.

SIGNATURE Charles Van Pelt

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

15-195-221880

15-195-22188-00-00

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

ORIGINAL

15-195-22188

GEOLOGICAL REPORT

ARMBRISTER #1

1650' FSL, 1400' FEL of

SECTION 22 - 11S - 21W

TREGO COUNTY, KANSAS

RECEIVED
KANSAS CORP COMM
4-22-99
197 APR 22 A 11:09

| | | | |
|-------------|---------------------|------------------|--------------------|
| Commenced: | 2-18-97 | Elevations: | 2275' GR, 2280' KB |
| Completed: | 2-23-97 | Surface Pipe: | 207' of 8-5/8" |
| Contractor: | Murfin Drilling Co. | Production Pipe: | none |

One foot drilling time was kept from 1700' to 1800' KB and from 3200' to total depth. Ten foot drilling samples (wet & dry) were kept from 3300' tottotal depth.

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

ANHYDRITE

1715 (+565)

15-195-2288-00-00

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Armbrister #1
Page 2

| | | |
|-----------------------|-------------|-----------------|
| <u>BASE ANHYDRITE</u> | <u>1762</u> | <u>(+518)</u> |
| <u>TOPEKA</u> | <u>3327</u> | <u>(-1047)</u> |
| <u>HEEBNER</u> | <u>3538</u> | <u>(-1258)</u> |
| <u>TORONTO</u> | <u>3560</u> | <u>(-1280)</u> |
| <u>LANSING</u> | <u>3578</u> | <u>(-1298)</u> |

RECEIVED
 KANSAS GEOLOGICAL SURVEY
 4-22-1997
 1997 APR 22 AM 11:09

3614-18' KB

White, very finely crystalline, dense, limestone. Very slight show of free oil in fair intercrystalline porosity, no odor, slight stain, and a slight cut.
(only 2 pieces in tray!!!)

3638-46' KB

White, very finely crystalline, dense, limestone. Slight show of free oil in poor "on-edge" porosity, no odor, slight stain, and a slight cut.

3663-67' KB

White, very finely crystalline, dense, limestone. Slight show of free oil in fair "on-edge" porosity, no odor, slight stain (some heavy tar stain), and a slight cut.
(only 4 small pieces in tray!)

MUNCIE CREEK SHALE

3701 (-1421)

3754-59' KB

Tan, very finely crystalline, dense, limestone. Fair show of free oil in poor intercrystalline porosity, no odor, weak stain, and a fair cut.
(Many small floating rocks w/oil, not one)
(good rock in tray.)

3773-78' KB

Cream, very finely crystalline, dense, limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and a slight cut. (Some heavy tar stain)

15-195-22188-00-00

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

RECEIVED
KANSAS CITY
4-22-1997
M 11:22 A.M.

Armbrister #1
Page 3

LANSING (cont.)

3795-98' KB

White to tan, very finely crystalline, dense, limestone. Slight show of free oil in very poor "on-edge" porosity, no odor, slight stain, and a slight cut.

BASE KANSAS CITY

3801 (-1521)

DRILL STEM TEST #1

3742 to 3810' KB 68' Anchor

Blow: Weak surface blow, died in 17 minutes.

Times: Open 30, Closed 30, Open 0, Closed 0.

Recovered: 5' Mud

Pressures: IH 1770# IF 33 - 33# ISIP 44#
FH 1759# FF --- FSIP ---

CONGLOMERATE

3890 (-1610)

3900-04' KB

White, very finely crystalline, dense, dolomitic, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and a very slight cut. (only one piece in tray!)

ARBUCKLE

3919 (-1639)

3919-28' KB

White, fine to medium crystalline, dense, dolomite. Weak show of free oil in poor intercrystalline porosity, no odor, some heavy tar stain, and a weak cut. (some dead flake oil)

3928-40' KB

White, fine to medium crystalline, dense, dolomite. No free oil. Some heavy tar stain and residue stain.

3940-50' KB

White to tan, medium crystalline, dense, dolomite. No free oil. Some residue stain.

15-195-22188-00-00

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Armbrister #1

Page 4

ARBUCKLE (cont.)

3950-59' KB

White, fine to medium crystalline, dense, dolomite. Few drops of free oil in poor intercrystalline porosity, no odor, some residue stain and dead flake oil.

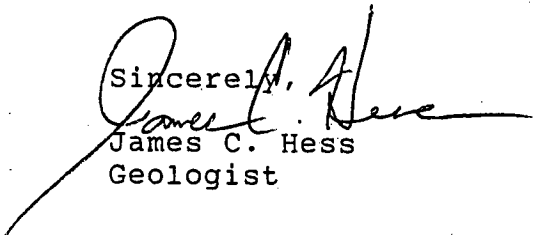
3960-66' KB

White to cream, fine to medium crystalline, dense, dolomite. No show of free oil, some residue stain, lots of barron porosity.

Due to the poor shows and structural position of the Arbuckle it was decided to plug the well without further testing. The seismic did work and our interval from Anhydrite to Topeka was as expected. Our structural position was favorable for Lower Lansing production, however, no zones developed. The real tragedy of this well was that I believe that if the Conglomerate top had been good Arbuckle rocks we would have made a good well.

Since the only Fair show of free oil we had was covered in DST #1 it was decided that a log was not needed. The Armbrister #1 was plugged on 2-23-97 according to state regulations. The rig was released at 1:15pm.

Sincerely,


James C. Hess
Geologist

RECEIVED
4-22-1997
MKT APR 22 AM 11:07