

ORIGINAL

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

Operator: License # 5663

Name: Hess Oil Company

Address P. O. Box 1009

City/State/Zip McPherson, KS 67460

Purchaser: _____

Operator Contact Person: Bryan Hess

Phone (316) 241-4640

Contractor: Name: Shields Drilling Co., Inc.

License: 5184

Wellsite Geologist: James C. Hess

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

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

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-22-96 10-31-96 11-1-96
Spud Date Date Reached TD Completion Date

API NO. 15- 051-249420000

County Ellis

Approx NE - SW - NW Sec. 9 Twp. 11 Rge. 19 E W

1800 Feet from /N (circle one) Line of Section

950 Feet from /W (circle one) Line of Section

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

Lease Name Hall Well # 1

Field Name _____

Producing Formation _____

Elevation: Ground 2103' KB 2108'

Total Depth 3666' PBD _____

Amount of Surface Pipe Set and Cemented at 261 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.

Drilling Fluid Management Plan Pa A, 3-25-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 30,000 ppm Fluid volume 500 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: 3-13-97

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.

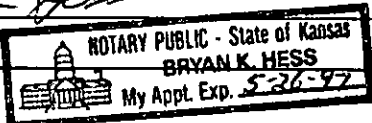
Signature Dick Hess

Title Dick Hess, President Date 2-21-97

Subscribed and sworn to before me this 21st day of February, 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 Hall Well # 1

Sec. 9 Twp. 11 Rge. 19 East West
 County Ellis

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 (Attach Additional Sheets.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List All E.Logs Run:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><input type="checkbox"/> Log</td> <td style="width:30%;">Formation (Top), Depth and Datums</td> <td style="width:20%;"><input checked="" type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1440'</td> <td>(+668')</td> </tr> <tr> <td>Base Anhydrite</td> <td>1482'</td> <td>(+626')</td> </tr> <tr> <td>Topeka</td> <td>3072'</td> <td>(-964')</td> </tr> <tr> <td>Heebner</td> <td>3290'</td> <td>(-1182')</td> </tr> <tr> <td>Toronto</td> <td>3314'</td> <td>(-1206')</td> </tr> <tr> <td>Lansing</td> <td>3330'</td> <td>(-1222')</td> </tr> <tr> <td>Stark Shale</td> <td>3508'</td> <td>(-1400')</td> </tr> <tr> <td>Base Kansas City</td> <td>3541'</td> <td>(-1433')</td> </tr> <tr> <td>Conglomerate</td> <td>3583'</td> <td>(-1475')</td> </tr> <tr> <td>Simpson Sand</td> <td>3625'</td> <td>(-1517')</td> </tr> <tr> <td>Arbuckle</td> <td>3647'</td> <td>(-1539')</td> </tr> <tr> <td>RTD</td> <td>3666'</td> <td>(-1558')</td> </tr> </table>	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" type="checkbox"/> Sample	Name	Top	Datum	Anhydrite	1440'	(+668')	Base Anhydrite	1482'	(+626')	Topeka	3072'	(-964')	Heebner	3290'	(-1182')	Toronto	3314'	(-1206')	Lansing	3330'	(-1222')	Stark Shale	3508'	(-1400')	Base Kansas City	3541'	(-1433')	Conglomerate	3583'	(-1475')	Simpson Sand	3625'	(-1517')	Arbuckle	3647'	(-1539')	RTD	3666'	(-1558')
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CASING RECORD <input type="checkbox"/> New <input checked="" 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"	28#	261'	60/40 Pozmix	150	2% gel, 6% cc

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	<u>N-A</u>			

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) _____

ACO-1 Completion Form Attachment**Hall #1****Approx. NE/4 SW/4 NW/4, Section 9-11-19W, Ellis County, KS, API #15-051-249420000**

- DST #1** Interval: 3210'-3300'
Times: 30-45-60-90
Initial Flow: Very strong - bottom of bucket in 10 sec
Final Flow: Strong - bottom of bucket in 1-1/2 min
Recovery: 720' Mud
995' Watery Mud (15% Water, 85% Mud)
600' Muddy Water (60% Water, 40% Mud)
Pressures: IH 1609#, IF 415-738#, ISI 1321#, FF 824-1032#, FSI 1233#, FH 1586#
Temp: 106F
- DST #2** Interval: 3285'-3380'
Times: 30-45-60-90
Initial Flow: 2" blow building to bottom of bucket in 7 min
Final Flow: 1/2" blow building to 10-1/2"
Recovery: 5' Clean Oil
15' Slightly Oil & Water Cut Mud (5% Oil, 25% Water, 70% Mud)
355' Muddy Oil Specked Water (1% Oil, 60% Water, 39% Mud)
Pressures: IH 1641#, IF 89-152#, ISI 819#, FF 160-223#, FSI 783#, FH 1602#
Temp: 104F
- DST #3** Interval: 3380'-3440'
Times: 30-45-60-90
Initial Flow: 1/2" blow building to bottom of bucket in 16 min
Final Flow: 1/4" blow building to bottom of bucket in 32 min
Recovery: 2' Clean Oil
258' Oil Specked Watery Mud (2% Oil, 38% Water, 60% Mud)
240' Muddy Water (80% Water, 20% Mud)
Pressures: IH 1690#, IF 57-158#, ISI 671#, FF 167-287#, FSI 673#, FH 1648#
Temp: 108 F
- DST #4** Interval: 3465'-3550'
Times: 30-45-30-60
Initial Flow: 1/2" blow building to 1"
Final Flow: 1/4" blow - died in 15 min
Recovery: 15' Mud
Pressures: IH 1820#, IF 43-47#, ISI 953#, FF 51-53#, FSI 955#, FH 1702#
Temp: 104 F
- DST #5** Interval: 3647'-3654'
Times: 60-45-10-45
Initial Flow: 3/4" blow building to 1-1/2"
Final Flow: No blow
Recovery: 5' Heavy Tar Oil
10' Heavy Mud
Pressures: IH 1853#, IF 24-24#, ISI 935#, FF 22-22#-, FSI 941#, FH 1758#
Temp: NA
- DST #6** Interval: 3657'-3666'
Times: 60-60-60-60
Initial Flow: 1/2" blow building to bottom of bucket in 31 min
Final Flow: Surface blow building to bottom of bucket in 36 min
Recovery: 580' Slightly Muddy Water
Pressures: IH 1835#, IF 17-142#, ISI 1143#, FF 152-263#, FSI 1135#, FH 1760#
Temp: NA

ALLIED CEMENTING CO., INC. 5029

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

ORIGINAL

SERVICE POINT: K

DATE <u>10-23-90</u>	SEC. <u>1</u>	TWP. <u>11N</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION <u>6:00 AM</u>	JOB START <u>11:00 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>1100</u>	WELL # <u>1</u>	LOCATION <u>Open to Anderson 2 1/2 miles</u>		COUNTY <u>5 (Kan)</u>	STATE <u>120</u>		

OLD OR NEW (Circle one)

CONTRACTOR Swirls Dug
 TYPE OF JOB Surface ✓
 HOLE SIZE 12 1/4 T.D. 264
 CASING SIZE 5 1/2 DEPTH 211 2-7'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 10-1' 150
 PERFS.

OWNER _____ CEMENT

AMOUNT ORDERED 150 @ 9/40 37.00 29.00

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____

EQUIPMENT

PUMP TRUCK: CEMENTER None
 # 153 HELPER Bill
 BULK TRUCK
 # 213 DRIVER Jason
 BULK TRUCK
 # DRIVER

TOTAL _____

REMARKS:

Cement Analyzed ✓

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

CHARGE TO: How Oil Co
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT :

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

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 _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

ORIGINAL

HESS OIL COMPANY

15-051-24942-0000

P.O. BOX 1009
McPHERSON, KANSAS 67460-1009
(316) 241-4640

GEOLOGICAL REPORT

HALL #1

1800' FNL, 1040' FWL of

SECTION 9 - 11S - 19W

ELLIS COUNTY, KANSAS

Commenced: 10-22-96

Elevations: 2103' GR, 2108' KB

Completed: 11- 1-96

Surface Pipe: 261' of 8-5/8" w/150sx

Contractor: Shields Drilling Company

Production Pipe: none

One foot drilling time was kept from 1400' to 1500' KB and from 2900' to rotary total depth. Ten foot drilling samples, (wet & dry) were kept from 3050' to rotary total depth.

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

ANHYDRITE

1440 (+ 668)

BASE ANHYDRITE

1482 (+ 626)

Hall #1
Page 2

TOPEKA

3072 (- 964)

3236-41' KB

White, very finely crystalline, dense, limestone. Fair show of free oil in good intercrystalline porosity, no odor, fair stain, and a good cut. (some heavy stain)

3256-62' KB

White, fair to medium crystalline, dense, limestone. Good show of free oil in fair to good intercrystalline porosity, fair odor, good stain, and a strong cut.

HEEBNER

3290 (-1182)

DRILL STEM TEST #1

3210' TO 3300' KB

90' Anchor

Blow: Bottom of bucket in 10 sec. 2nd opening -- bottom of bucket in 2½ min.

Times: Open 30, Closed 45, Open 60, Closed 90.

Recovered: 720' Mud
1595' Mud Cut SW

Pressures: IH 1590# IF 405-720# ISPI 1317#
FH 1579# FF 821-1034# FSIP 1246#

TORONTO

3314 (-1206)

3314-22' KB

White to tan, very fine to fine crystalline, dense, limestone. Good show of free oil in poor intercrystalline porosity, fair odor, good stain, and a strong cut.

LANSING

3330 (-1222)

3333-41' KB

White, very finely crystalline, dense, limestone. Weak show of free oil in poor intercrystalline porosity, no odor, fair stain, and a fair cut.

3367-73' KB

White to tan, fine to medium crystalline, slightly oolitic, limestone. Great show of free oil in fair to good intercrystalline porosity, strong odor, good stain, and a great cut.

DRILL STEM TEST #2

3285' to 3380' KB

95' Anchor

Blow: Bottom of bucket in 7min., 2nd opening --- slow build to 10½".

Hall #1
Page 3

DRILL STEM TEST #2 (cont.)

Times: Open 30, Closed 45, Open 60, Closed 90.

Recovered: 5' Clean Oil
15' Oil Specked Water Cut Mud (5% O, 25% SW, 70% M)
355' Oil Specked Mud Cut SW (1% O, 60% SW, 39% M)

Pressures: IH ¹⁶³⁰ 1702# IF ⁸¹⁻¹⁵² 61-142# ISIP ⁸²¹ 658#
FH ¹⁶⁵¹ 1590 FF ¹⁶²⁻²⁸³ 152-223 FSIP ⁷⁸¹ 658#

3384-97' KB White, very finely crystalline, dense, limestone. Fair shows of free oil throughout interval in poor intercrystalline porosity, no odor, weak stain and weak cut. (some "tight" on-edge porosity)

3415-17' KB White to tan, very finely crystalline, slightly oolitic, limestone. Fair show of free oil in poor to fair intercrystalline porosity, no odor, good stain, and a good cut. (some heavy tar stain)

3423-30' KB White to tan, finely crystalline, limestone. Good show of free oil in fair intercrystalline porosity, no odor, fair stain, and a good cut. (pieces White, very finely crystalline, dense, limestone w/heavy tar stain in "on-edge" porosity)

DRILL STEM TEST #3

3380' to 3440' KB

60' Anchor

Blow: Bottom of bucket in 16 min. 2nd Opening --- Bottom of bucket in 32 min.

Times: Open 30, Closed 45, Open 60, Closed 90.

Recovered: 2' Clean Oil
258' Oil Specked Water Cut Mud (2% O, 38% SW, 60% M)
240' Mud Cut SW (80% SW, 20% M)

3444-58' KB White, very finely crystalline, dense, limestone. Very slight shows of free oil in very poor to poor intercrystalline porosity, (some poor "on-edge" porosity) no odor, slight stain, and weak cuts.

NOTE: Some oil shows from different zones are discribed together. Due to the slow lag time of this rig, often zones within 10' of each other are in the same sample tray.

HESS OIL COMPANY

IS. OSI. 24942. 0000

P.O. BOX 1009
McPHERSON, KANSAS 67460-1009
(316) 241-4640

Hall #1
Page 4

LANSING (cont.)

3468-73' KB White, very finely crystalline, dense, limestone. Slight show of free oil in very poor "on-edge" porosity, no odor, weak stain, and a weak cut.

3484-90' KB White, very finely crystalline, dense, limestone. Fair show of free oil in poor intercrystalline porosity, no odor, weak stain, and a good cut.

3500-04' KB Tan, very finely crystalline, slightly oolitic, limestone. Good show of free oil in fair intercrystalline porosity, fair odor, good stain, and a strong cut.

3520-25' KB White, very finely crystalline, dense, limestone. Weak show of free oil in poor intercrystalline porosity, no odor, weak stain, and a weak cut.

3534-41' KB White, very finely crystalline, dense, limestone. Fair show of free oil in poor intercrystalline porosity, no odor, weak stain, and a good cut.

BASE KANSAS CITY

3541 (-1433)

DRILL STEM TEST #4

3465' to 3550' KB

85' Anchor

Blow: Slow build to 1". 2nd opening -- died in 15 min.

Times: Open 30, Closed 45, Open 30, Closed 60.

Recovered: 15' Mud

Pressures: IH 1824# IF 51-51# ISIP 963#
FH 1722# FF 61-61# FSIP 963#

CONGLOMERATE

3583 (-1475)

SIMPSON SAND

3625 (-1517)

3625-31' KB

Clear, medium grained, well sorted, well rounded, sandstone grains and clusters. No free oil, lots of heavy tar stain, in good "barron" intergranular porosity. Fair cut on tar stain.

HESS OIL COMPANY

IS-OSI-24942-0000

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Hall #1
Page 5

ARBUCKLE

3647 (-1539)

3647-54' KB

White, very finely crystalline, dense, dolomite. Great show of free oil in fair intercrystalline and good "vuggy" porosity, very strong odor, lots of black stain, and a great cut! (oil looks very thick & tarry --- can shape with tweezers!)

DRILL STEM TEST #5

3647' to 3654' KB

7' Anchor

Blow: slow build to 1½". 2nd opening -- NO Blow!

Times: Open 60, Closed 45, Open 10, Closed 45.

Recovered: 5' Very Heavy Tarry Oil. (will not pour @ 60' F)
10' Heavy Mud

Pressures: IH 1855# IF 20-20# ISIP 943#
FH 1722# FF 20-20# FSIP 943#

3656-60' KB

White to tan, very fine to finely crystalline, dense, dolomite. Fair show of free oil in poor intercrystalline porosity, no odor, fair stain, and a good cut. (Very "tight" dolomite)

3660-66' KB

White to tan, fine to medium crystalline, dolomite. Great show of free oil in good intercrystalline porosity, good odor, great stain, and a great cut. (Some lighter oil!)

DRILL STEM TEST #6

3657' to 3666' KB

9' Anchor

Blow: slow build to bottom of bucket in 31 min. 2nd opening -- bottom of bucket in 36 min.

Times: Open 60, Closed 60, Open 60, Closed 60.

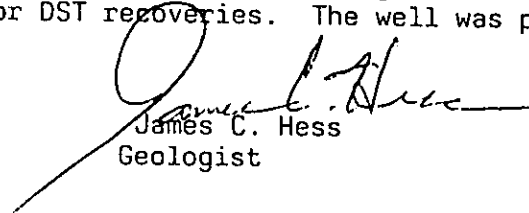
Recovered: 580' Slightly Mud Cut SW

Pressures: IH 1855# IF 30-142# ISIP 1145#
FH 1763# FF 152-263# FSIP 1135#

ROTARY TOTAL DEPTH

3666 (-1558)

No log was run, because all shows were tested (except slight shows from 3444-58'). It was decided to plug this well due to poor DST recoveries. The well was plugged on 11-1-96 at 7:15 am.


James C. Hess
Geologist