Form ACO-1 September 1999 Form Must Be Typed

WELL COMPLETION FORM PHISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5663	API No. 15 - 135-24214-00-00
Name: Hess Oil Company	County: Ness
	S/2 _SE _SW_ SE _Sec. 14 _ Twp. 17 _ S. R. 21 _ ☐ East ♥ West
City/State/Zip: McPherson, KS 67460	110 feet from \$\int \(\left(\) (circle one) Line of Section
Purchaser:	1680 feet from (E) / 40 (circle one) Line of Section
Operator Contact Person: Bryan Hess	Footages Calculated from Nearest Outside Section Corner:
Phone: (_620) _241-4640	(circle one) NE (SE) NW SW
· · · · · · · · · · · · · · · · · · ·	Lease Name: Shirley Well #: 1
License: 4958 06-22-	2003 Name: Thistle Grove
Wellsite Geologist: James C. Hess AUG 2 2 200	Producing Formation:
Designate Type of Completion: KCC WICHI	AElevation: Ground: 2170' Kelly Bushing: 2175'
New Well Re-Entry Workover	Total Depth: 4220' Plug Back Total Depth: 4130'
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 215' Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set Feet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1440
Operator:	feet depth to surface w/ 200 sx cmt.
Well Name:	
Original Comp. Date: Original Total Depth:	Orilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	
Plug Back Plug Back Total Depth	Chloride content ppm Fluid volume bbls Dewatering method used evaporate & backfill
Commingled Docket No	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name:
	Lease Name: License No.:
3-16-03 3-23-03 8-12-03 Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workown information of side two of this form will be held confidential for a period of	h the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, ver or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-s and geologist well report shall be attached with this form. ALL CEMENTING s. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulate are complete and correct to the best of my knowledge.	late the oil and gas industry have been fully complied with and the statements
Signature: With Sless	KCC Office Use ONLY
Title: President Date: 8-21-03	Letter of Confidentiality Attached
Subscribed and sworn to before me this 21st day of August	If Denied, Yes Date:
20_03	Wireline Log Received
8 441	Geologist Report Received
Notary Public: Dyman Hotary Public - St. BRYAN K	UIC Distribution
Date Commission Expires: My Appt. Exp. 2	5-26-05

Operator Name:	Hess Oil Com	npany	Lease	Name:_	Shirley		Well #:1				
		☐ East ☑ West	County								
tested, time tool ope temperature, fluid red	n and closed, flowing covery, and flow rates	and base of formations p g and shut-in pressures, s if gas to surface test, a inal geological well site	whether shalong with fi	ut-in pre	ssure reached s	tatic level, hydros	static pressur	es, botto	m hole		
Drill Stem Tests Take (Attach Additional	•••	☑ Yes ☐ No		□r	og Formatio	n (Top), Depth ar	nd Datum		Sample		
Samples Sent to Geological Survey				Nam		Datum					
Cores Taken Electric Log Run (Submit Copy)		☐ Yes ☑ No ☑ Yes ☐ No									
List All E. Logs Run:											
	• •	ensated Porosity ompensated Son	-								
			RECORD	☑ Ne				<u></u>			
Purpose of String	Size Hole Drilled	Report all strings set- Size Casing Set (In O.D.)	Weig	ght	Setting Depth	Type of Cement	# Sacjs Used				
Surface	12-1/4" 8-5/8"		23	<u>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </u>	215'	70/30 poz	150	 	el, 3% cc		
Production 7-7/8"		5-1/2"	14		4215'	EA-2	150				
						and SMDC	200				
	. ,	ADDITIONAL	CEMENTIN	1G / SQL	JEEZE RECORD						
Purpose: Perforate	Depth Top Bottom				Type and Percent Additives						
Protect Casing Plug Back TD Plug Off Zone	4079'-4082	common	50		2% cc						
Shots Per Foot		ON RECORD - Bridge Plu Footage of Each Interval Pe		•		ture, Shot, Cement nount and Kind of Ma		rd	Depth		
3	Perf 4137-4142'	,									
4	Perf 4148'-4152	', Set Plug @ 4145'	→		350 gal. 15% HCI MCA acid 4137						
3	Set Plug @ 413	0', Perf 4079'-4082'	>		250 gal. 15% HCl acid 4079-						
4	Cement squeez	e 4079'-4082', Perf	4079'-408	3'							
3	Re-perf 4078'-40	083', pump tested, 8	finally plu	ugged							
TUBING RECORD	Size	Set At	Packer A	t	Liner Run	Yes No					
Date of First, Resume	rd Production, SWD or E	Enhr. Producing Me	_	Flowing	g Pumpir	ig Gas Lift	Oth	er (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf	Wate	er Bi	ols. G	as-Oil Ratio	-	Gravity		
Disposition of Gas	METHOD OF C	COMPLETION			Production Inter-	val					
Vented Sold	Used on Lease	Open Hole			Dually Comp.	Commingled			-··,		

P.O. BOX 1009 McPHERSON, KANSAS 67460-1009 (620) 241-4640

ACO-1 Completion Form Attachment

Shirley #1

Approx. S/2 SE SW SE, Section 14-17-21W

Ness County, Kansas

Elevation: 2175' KB

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FORMATION	LOG TOP	<u>DATUM</u>
Anhydrite	1444'	(+731') sample
Base Anhydrite	1476'	(+699') sample
Heebner	3577'	(-1402')
Toronto	3597'	(-1422')
Lansing	3617'	(-1442')
Base Kansas City	3886'	(-1711')
Pawnee	3985'	(-1810')
Fort Scott	4052'	(-1877')
Mississippi	4136'	(-1961')
RTD	4220'	(-2045')



DST #1:

Depth: 4060'-4090'. Times: 30-30-45-45. Blows: IF - strong, BOB in 18 min; FF - good build to 8". Recoveries: 588' of 10% mud, 25% water, 30% oil, 35 % gas. Pressures: IH 2139#, IF

84-199#, ISI 452#, FF 201-256#, FSI 453#, FH 2082#

DST #2:

Depth: 4093'-4100'. Times: 30-30-60-60. Blows: IF - weak 1" blow; FF - strong BOB 10 min.

Recoveries: 650' of saltwater. Pressures: IH 2187#, IF 207-476#, ISI 476#, FF 98-318#, FSI

470#, FH 2072#

PUMP TEST RESULTS:

Ran 2-7/8" tubing to 4111' and started pumping on 4-18-03. Production was non-commercial. Shut down on 5-21-03. Re-perforated 4083'-4090', 4 shots per foot. Swabbed - no oil show. Plugged & abandoned on 8-12-03.

HESS OIL COMPANY

225 N. Market, Suite 300 Wichita, Kansas 67202

(316) 263-2243

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GEOLOGICAL REPORT

SHIRLEY #1

110' FSL, 1680' FEL of

SECTION 14 - 17S - 21W

NESS COUNTY, KANSAS

Commenced: 3-16-03

Elevations: 2170' GR, 2175' KB

Completed: 3-23-03

Surface Pipe: 8-5/8" @ 215' KB

Contractor: Mallard J.V.

Production Pipe: $5\frac{1}{2}$ " 14#

One foot drilling time was kept from 1400' to 1500' KB and from 3400' to rotary total depth. Ten foot drilling samples were kept (wet & dry) from 3700' 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 test.

ANHYDRITE

1444 (+731)

BASE ANHYDRITE

1476 (+699)

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HEEBNER CO	3572	(-1397)
TORONTO	3594	(-1419)
LANSING	3613	(-1438)
BASE KANSAS CITY	3884	<u>(-1709)</u>
PAWNEE	3979	(-1804)
FORT SCOTT	4046	(-1871)

4075-80' KB

Clear to white, well rounded, well sorted, small to medium grainned, sandstone clusters. Slight show of free oil (& tarry oil) in poor intergrannular "tight" porosity, no odor, slight stain, and a fair cut.

Some loose sand grains of small to large size.

4080-90' KB

Lots of medium to large sand grains. PC's of clear to white sandstone clusters. No show. (clusters are "tight" & filled w/shale)

DRILL STEM TEST #1

4060' to 4090' KB

30' Anchor

Blow: Bottom of bucket in 18 min. -- 2nd openning was a slow build to 8".

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

Recovered: 588' (10% Mud, 25% SW, 30% Oil, 35% Gas)

Pressures: IH 2139# IF 84-199# ISIP 452# FH 2082# FF 201-256# FSIP 453#

4094-4100' KB

Some white to clear, medium grainned, well rounded, well sorted, sandstone clusters.
Lots of loose sand grains. (all sizes)
No Show

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Shirley #1 Page 3

DRILL STEM TEST #2 4093' to 4100' KB. 7' Anchor

Blow: Weak 1" throughout, 2nd Openning -- strong

blow to bottom of bucket in 10 min.

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

Recovered: 650' Mud cut SW

2187 207-476# Pressures: ΙH ISIP ISIP 476#

FH 2072# FSIP 98-318# FSIP 470#

MISSISSIPPI 4136 (-1961)

4136-50' KB White to tan, very finely to finely crystalline,

dense, dolomite. Fair show of free oil in good intercrystalline porosity. No odor, fair

stain, and a strong cut.

4150-60' KB Cream to tan, very fine to finely crystalline,

dense, dolomite. Fair show of free oil in good intercrystalline porosity, no odor, good stain,

and a good cut. PC's of sharp chert.

4160-70'<u>KB</u> Cream to tan, finely crystalline, dense, dolomite.

Weak show of free oil in good intercrystalline porosity, no odor, fair stain, and a fair cut. (some tar stain) PC's of chert as above.

4170-80' KB Cream to tan, very fine to finely crystalline,

dense, dolomite. Slight show of free oil in good intercrystalline porosity, no odor,

some tar stain, and a weak cut.

PC's of chert as above.

ROTARY TOTAL DEPTH

4220 (-2045)

A good set of logs were run. (Dual Induction, Neutron, Micro, and Sonic) It was then decided to run casing and test the Miss. oil shows and the oil found in DST #1. $5\frac{1}{4}$ " casing was run with a D.V. Tool and cemented to surface.

> James C Hess Geologist

HESS OIL COMPANY

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Shirley #1

Casing Report:

Ran 131 jts of $5\frac{1}{2}$ " 14# range 2 casing. 3-23-03: Set 5' off bottom w/12' shoe it.

> Cemented w/150 sx of EA-II cement. Landed plug with 1400# and float held. (ran 500 gals. chem. flush ahead of cement)

Circulated 4 hrs.

Ran 10 bbls KCl water ahead of 200 sx SMDC. Cement did circulate to surface. (about 30 sx to pit)

Plug down @ 6:30pm

Reported all information to Mr. Michael Maier with KCC district 1 @ 9:30 am (620) 225-8888

Open D.V. Tool @ 1440-42' KB.

Cent. #5 3-24-03: 4072' KB Cent. #4 4105' KB Cent. #3 4138' KB

D.V. Tool

Basket

1440-42' KB

1470' KB

Cent. #6 1477' KB

Cent. #2 4171' KB

Cent. #1 4202' KB

Plug Retainer 4202' KB

12' Shoe Jt.

Guide Shoe & Float Valve 4215' KB

Open Hole 5'

- RTD 4220' KB James C. Hess

Geologist

ALLIED CEMENTING CO., INC. Federal Tax I.I.

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

ORIGINA SERVICE POINT:

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HOLE SIZE 124	Horr	TD	215'	CEMENT									
CASING SIZE 35		LA* DEP	THAIS'	AMOUNT OR	DERED 50	1, 70/30 3°	3 .cc.						
TUBING SIZE	···	DEP		27 rul									
ORILL PIPE		DEP	TH										
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Services, Inc.								-	TICKET 5853 FAGE OF OF COUNTY DATE OWNER 8-12-53 SAME									
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SWIFT Services, Inc. ORIGINA DATE 8-12-03 PAGENO. JOB LOG CUSTOMER WELL NO. HESS OR SHOULT PUMPS PRESSURE (PSI) CHART NO. VOLUME [BB]LD(GAL) RATE (BPM) DESCRIPTION OF OPERATION AND MATERIALS T C TUBING CASING 1300 on rowson RP = 4130 <u> የደናኔ፣ 4078-83</u> 5/2 . 4215 85/8 + 215' DU 7001 e 1440' PUMP - 35 SYS CAT W/ 200" HULLS 101/2 1410 s'h 5/2 csu 19 2K7 CST **5** ገ 1)2 115 SYD CMT 34 2000LATUR URE READY WAD . 10 SKY CHT V. IKIN 1445 3 90 HEAW 1530 JUMPOS BOLD MAYER YOU JULIZ YICHA JUAN

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