

Operator Name: Hess Oil Company Lease Name: Shirley Well #: 1
 Sec. 14 Twp. 17 S. R. 21 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Microresistivity, Dual Compensated Porosity, Dual Induction, Borehole Compensated Sonic	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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	# Sacs Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23	215'	70/30 poz	150	2% gel, 3% cc
Production	7-7/8"	5-1/2"	14	4215'	EA-2	150	
					and SMDC	200	

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 checked="" type="checkbox"/> Plug Off Zone	4079'-4082	common	50	2% cc

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
3	Perf 4137-4142'		
4	Perf 4148'-4152', Set Plug @ 4145' →	350 gal. 15% HCl MCA acid	4137-42
3	Set Plug @ 4130', Perf 4079'-4082' →	250 gal. 15% HCl acid	4079-82
4	Cement squeeze 4079'-4082', Perf 4079'-4083'		
3	Re-perf 4078'-4083', pump tested, & finally plugged		

TUBING RECORD	Size Set At Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumerd Production, SWD or Enhr.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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) _____

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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<u>FORMATION</u>	<u>LOG TOP</u>	<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.

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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:	5½" 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.

<u>ANHYDRITE</u>	<u>1444</u>	<u>(+731)</u>
<u>BASE ANHYDRITE</u>	<u>1476</u>	<u>(+699)</u>

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U3A

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

4075-80' KB

Clear to white, well rounded, well sorted, small to medium grained, sandstone clusters. Slight show of free oil (& tarry oil) in poor intergranular "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 opening 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 grained, well rounded, well sorted, sandstone clusters. Lots of loose sand grains. (all sizes)
No Show

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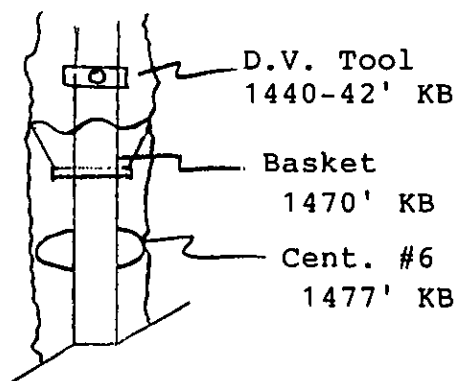
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Shirley #1

Casing Report:

3-23-03: Ran 131 jts of 5½" 14# range 2 casing. Set 5' off bottom w/12' shoe jt.



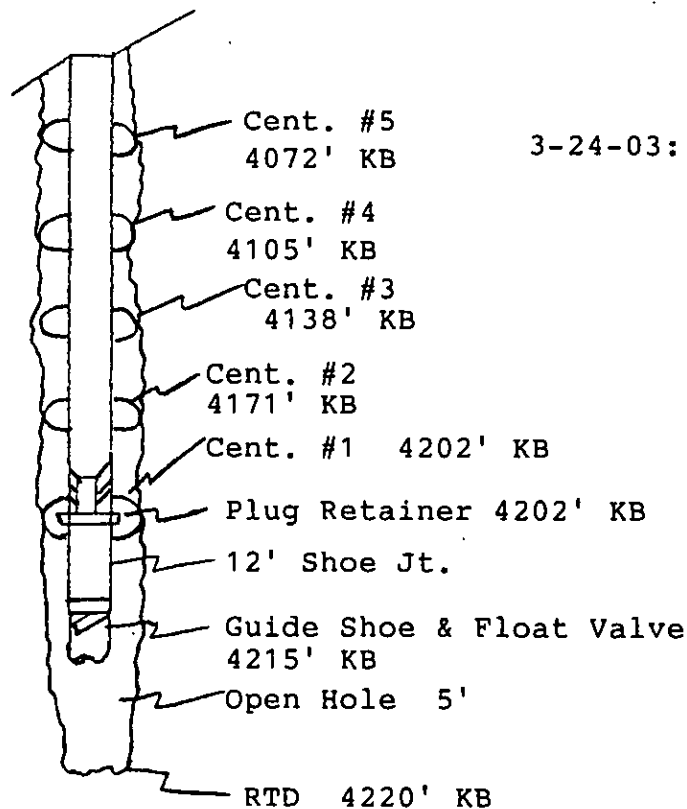
Cemented w/150 sx of EA-II cement. Landed plug with 1400# and float held. (ran 500 gals. chem. flush ahead of cement)

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

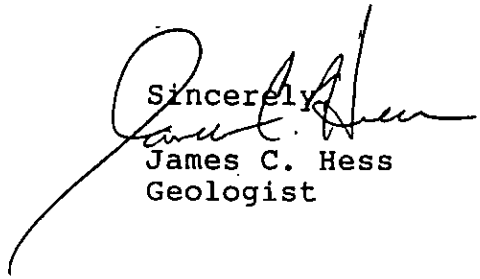
Circulated 4 hrs.

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

Plug down @ 6:30pm



3-24-03: Reported all information to Mr. Michael Maier with KCC district 1 @ 9:30 am (620) 225-8888

Sincerely,

James C. Hess
Geologist

ALLIED CEMENTING CO., INC.

6098

Federal Tax I.I.

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

ORIGINAL

SERVICE POINT: Hickory

DATE <u>3-16-03</u>	SEC. <u>14</u>	TWP. <u>17</u>	RANGE <u>21</u>	CALLED OUT <u>3:30 PM.</u>	ON LOCATION <u>6:30 PM</u>	JOB START <u>8:30 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Shirley</u>	WELL # <u>1</u>	LOCATION <u>McCracken 2w, 1s, 1/4w, 1/4s</u>			COUNTY <u>Deer</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR <u>Mallard</u>	OWNER <u>Some</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4"</u>	T.D. <u>215'</u>
CASING SIZE <u>8 7/8"</u>	DEPTH <u>215'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>12 3/4 bbls</u>	
EQUIPMENT	
PUMP TRUCK # <u>181</u>	CEMENTER <u>Tom D</u>
	HELPER <u>Bob D</u>
BULK TRUCK # <u>342</u>	DRIVER <u>Bud D</u>
BULK TRUCK #	DRIVER
	TOTAL <u>1483.20</u>

CEMENT AMOUNT ORDERED <u>150 lbs 70/30 3% cc, 27 bbls</u>
COMMON <u>105 Ad @ 6.65 108.25</u>
POZMIX <u>45 Ad @ 3.55 160.25</u>
GEL <u>3 Ad @ 10.00 30.00</u>
CHLORIDE <u>5 Ad @ 30.00 150.00</u>
HANDLING <u>158 Ad @ 1.10 173.80</u>
MILEAGE <u>158 Ad @ 24 151.68</u>
TOTAL <u>1363.48</u>

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REMARKS:
Ran 215' of 8 7/8" casing, broke circulation.
Mixed 150 lbs 70/30 3% cc, 27 bbls.
Released Plug. Deployed with fresh #2.
Cement did circulation ✓

SERVICE	
DEPTH OF JOB <u>215'</u>	
PUMP TRUCK CHARGE	<u>520.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>24</u>	@ <u>3.00 72.00</u>
PLUG 1-8 7/8" TWP	@ <u>45.00 45.00</u>
TOTAL	<u>637.00</u>

CHARGE TO: Hem 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 1483.20
DISCOUNT 100.00 IF PAID IN 30 DAYS \$ 1383.20

SIGNATURE X LaVon R. Urban

SIGNATURE X LaVon R. Urban
PRINTED NAME



CHARGE TO:
HESS OZ
 ADDRESS
 CITY, STATE, ZIP CODE

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TICKET
 N2 5853

PAGE 1 OF 1

SERVICE LOCATIONS
 1. NESS CITY, KS
 2.
 3.
 4.
 REFERRAL LOCATION

WELL/PROJECT NO. #1
 LEASE SHRILTY
 COUNTY/PARISH NESS
 STATE KS
 CITY
 DATE 8-12-03
 OWNER SAME

TICKET TYPE
 SERVICE
 SALES
 CONTRACTOR NOWI
 RIG NAME/NO.
 SHIPPED VIA CT
 DELIVERED TO LOWDOWN
 ORDER NO.

WELL TYPE OZ
 WELL CATEGORY ARABOJOS
 JOB PURPOSE P.A
 WELL PERMIT NO.
 WELL LOCATION M'CRACKIN VS 2W.1S. 1/2 W. 2S

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE * 104	30	MI			2.50	75.00
576		1			PUMP SERVICE	1	JOB			550.00	550.00
275		1			CONTRACTOR WILLS	2	SR			22.00	44.00
328		1			SWIFT LIGHT 60/40 PORMIX (6% GEL)	160	SR			5.90	944.00
279		1			BUTOLITE GEL	19	SR			11.00	209.00
581		1			SERVICE CHARGE CONSULT	209	SR			1.00	209.00
583		1			DRAWAL	18133	LB	271,995	TM	.85	231.20

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [Signature]

DATE SIGNED 8-12-03 TIME SIGNED 1230 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	ORIGINAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2262.20	
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR
Wade Wason

APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc. ORIGINAL

DATE 8-12-03 PAGE NO. 1

CUSTOMER Hess OR. WELL NO. 1 LEASE SHIRLEY JOB TYPE PTA TICKET NO. 5253

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							ON LOCATION
								RP = 4130
								PRFS = 4078-83
								5/2 = 4215'
								8 5/8 = 215'
								DU TOOL = 1440'
	1410	5 1/2	10 1/2		✓		0	PUMP - 35 SKS CMT W/ 200° HULLS } 5 1/2" CSO
			57		✓		0	
		1/2	34		✓		2000	
							250	250 SIMT W
	1445		3		✓		500	BROADW HEAD - 10 SKS CMT ✓ - 15' W
								WASH UP
	1530							JOB COMPLETE
								THANK YOU
								WAVE, BUSY SWAVE
								<i>Andrew Jones</i>