

AMENDED - see X

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

AUG 29 2001

WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

CONFIDENTIAL

ORIGINAL

Operator: License # 5663
Name: Hess Oil Company
Address: P.O. Box 1009
City/State/Zip: McPherson, KS 67460
Purchaser: Cooperative Refining, LLC
Operator Contact Person: Bryan Hess
Phone: (316) 241-4640
Contractor: Name: Murfin Drilling Company, Inc.
License: 30606
Wellsite Geologist: James C. Hess

API No. 15 - 051-25032-0000
County: Ellis
Approx S2 NE NW Sec. 2 Twp. 11 S. R. 19 East West
1100 feet from S N (circle one) Line of Section
1900 feet from E W (circle one) Line of Section

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc) **KCC**

Foolages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Billinger Well #: 1-2
Field Name: Gasaway
Producing Formation: I.K.C.

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____

OCT 13 2000

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

Elevation: Ground: 2130' Kelly Bushing: 2135'
Total Depth: 3709' Plug Back Total Depth: 3610'
Amount of Surface Pipe Set and Cemented at 211 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1360 Feet
If Alternate II completion, cement circulated from 1360
feet depth to surface w/ 165 sx cmt.

CONFIDENTIAL

6-22-00 6-29-00 7-18-00
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan ALT II 9/10/01 AB
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: **RELEASED** License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. East West
County: DEC 14 2001 Docket No.: _____

FROM CONFIDENTIAL

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 of 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.

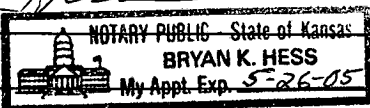
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Dick Hess
Title: President Date: Sept. 28, 2001

Subscribed and sworn to before me this 28 day of Sept.

10x 2001
Notary Public: Bryan Hess

Date Commission Expires: _____



KCC Office Use ONLY

- Letter of Confidentiality Attached
- If Denied, Yes Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

KCC

Operator Name: Hess Oil Company Lease Name: Billinger Well #: 1-2

Sec. 2 Twp. 11 S. R. 19 East West County: Ellis

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.

RTD	3710	-1575
LTD	3709	-1574
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	1439	+676
Base Anhydrite	1471	+664
Neva	2530	-395
Topeka	3064	-929
Heebner	3283	-1148
Toronto	3306	-1171
Lansing	3325	-1190
Stark Shale	3506	-1371
Base KC	3543	-1408
Conglomerate	3566	-1431

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: Dual Compensated Porosity
Borehole Compensated Sonic
Dual Induction
Gamma Ray

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used Simpson Sd 3607 -1472							
Report all strings set-conductor, surface, intermediate, production, etc. Ar buckle 3643 -1508							
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"	20#	211	common	150	3%cc, 2%gel
production	7-7/8"	5-1/2"	15.5#	3702	EA-2	200	5%cal, 10%sa 1/4#flocele
				top stage	Multi-dens	165	1/4# flocele

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
	see attached		

TUBING RECORD Size 2-7/8" Set At 3675' Packer At _____ Liner Run Yes No

Date of First, Resumerd Production, SWD or Enhr. 7-28-00 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. 43 Gas Mcf _____ Water Bbls. 0 Gas-Oil Ratio _____ Gravity 36

Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 3092'-3536' Other (Specify)

CONFIDENTIAL

ACO-1 Completion Form Attachment

Billinger #1-2
Approx. S2 NE NW Section 2-11-19W
Ellis County, Kansas

- DST #1: 3080'-3110'. 30-45-60-60. Initial flow - weak 1/2" blow building to 3". Final flow - weak surface blow building to 2.5". Rec. 70' mud & water cut oil (50% oil, 25% water, 25% mud); Slightly oil & mud cut water (5% oil, 65% water, 30% mud). IH 1525#, IF 17-43#, ISI 748#, FF 41-81#, FSI 711#, FH 1515#.
- DST #2: 3350'-3440'. 30-45-60-60. Initial flow: Weak 1/4" blow building to 6". Initial shut-in: Very weak surface blow. Final flow: Weak surface blow building to bottom of bucket in 50 min. Rec. 180' gas in pipe, 15' heavy oil cut mud (30% oil, 70% mud), 120' gassy mud & water cut oil (5% gas, 70% oil, 15% water, 10% mud), 55' gassy heavy mud & water cut oil (10% gas, 40% oil, 20% water, 30% mud). IH 1728#, IF 54-101#, ISI 701#, FF 100-125#, FSI 746#, FH 1683#.
- DST #3: 3445'-3560'. 30-45-60-60. Initial flow: 1" blow building to 5". Final flow: Surface blow building to 2". Rec. 25' clean oil (100% oil), 20' heavy oil cut mud (35% oil, 65% mud), 120' oil cut mud (7% oil, 93% mud). IH 1751#, IF 27-62#, ISI 1001#, FF 72-87#, FSI 976#, FH 1701#.
- DST #4: 3590'-3652'. 30-45-60-60. Initial flow: Weak blow throughout 1/2" blow. Final flow: Very weak 1/4" blow throughout. Rec. 50' clean oil (100% oil), 40' heavy oil cut mud (30% oil, 70% mud). IH 1838#, IF 19-33#, ISI 1028#, FF 36-55#, FSI 973#, FH 1771#.
- DST #5: 3648'-3657'. 30-45-60-60. Initial flow: Weak 1/4" blow throughout. Final flow: Very weak surface blow throughout. Rec. 60' slightly oil cut muddy water (2% oil, 68% water, 30% mud). IH 1844#, IF 14-26#, ISI 1114#, FF 27-43#, FSI 1096#, FH 1791#.

Perforated: 3644-46' (6 shots) 150 gal. 15% MCA (mud clean-up acid)

★ Set bridge plug @ 3610'

3534-36' (6 shots), 3515-18' (9 shots) 1000 gal. 15% MCA

3460-66' (18 shots) 500 gal. 15% MCA

3402-10' (24 shots) 1000 gal. 15% MCA

3386-88' (6 shots), 3378-80' (6 shots),
3366-68' (6 shots), 3361-64' (9 shots) 1500 gal. NE FE

3092-98' (18 shots) 1000 gal. 15% MCA

RECEIVED

AUG 29 2001

KCC WICHITA

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DEC 14 2001

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Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, 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./SWD

Plug Back Plug Back Total Depth _____

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Enhr.?) Docket No. _____

6-22-00 6-29-00 7-18-00

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 051-25032-0000

County: Ellis

Approx S2 NE NW Sec. 2 Twp. 11 S. R. 19 East West

1100 feet from S (circle one) Line of Section

1900 feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: Billinger Well #: 1-2

Field Name: Gasaway

Producing Formation: LKC

Elevation: Ground: 2130' Kelly Bushing: 2135'

Total Depth: 3709' Plug Back Total Depth: 3682'

Amount of Surface Pipe Set and Cemented at 211 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1360 Feet

If Alternate II completion, cement circulated from 1360

feet depth to surface w/ 165 sx cmt.

Drilling Fluid Management Plan ALT II 8/1/01 JB

(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used evaporation

Location of fluid disposal RELEASED

Operator Name: _____

Lease Name: DEC 14 2001 License No.: _____

Quarter See TWP S R East West

County: _____ Docket No.: _____

RECEIVED
STATE CORPORATION COMMISSION

CONSERVATION DIVISION
Wichita Kansas

OCT 16 2000

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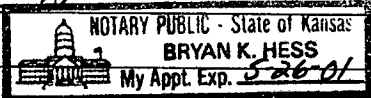
Title: Dick Hess, President Date: 10-12-00

Subscribed and sworn to before me this 12 day of October

2000

Notary Public: Bryan Hess

Date Commission Expires: _____



KCC Office Use ONLY

- Letter of Confidentiality Attached
- If Denied, Yes Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

X

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 Sec: 2 Twp: 11 S. R. 19 East West County: Ellis

CONFIDENTIAL

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.

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 (Attach Additional Sheets)

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Borehole Compensated Sonic
Dual Induction
Gamma Ray

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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)	
	see attached			Depth

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-7/8"		3675'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
7-28-00		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcl	Water Bbls.	Gas-Oil Ratio	Gravity
	43		0		36

Disposition of Gas **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 3092' - 3646'
 (If vented, Sumit ACO-18.) Other (Specify) _____

HESS OIL COMPANY

15-051-25032-0000

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

CONFIDENTIAL

ORIGINAL

ACO-1 Completion Form Attachment

KCC

Billinger #1-2
Approx. S2 NE NW Section 2-11-19W
Ellis County, Kansas

OCT 13 2000

CONFIDENTIAL

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3460-66' (18 shots)	500 gal. 15% MCA
3402-10' (24 shots)	1000 gal. 15% MCA
3386-88' (6 shots), 3378-80' (6 shots), 3366-68' (6 shots), 3361-64' (9 shots)	1500 gal. NE FE
3092-98' (18 shots)	1000 gal. 15% MCA

RELEASED

DEC 14 2001

FROM CONFIDENTIAL

CONFIDENTIAL

ALLIED CEMENTING CO., INC.

15-051-25032-0000

4928

Federal Tax I.D.

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: R

ORIGINAL

DATE <u>7-2-00</u>	SEC. <u>2</u>	TWP. <u>4</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION <u>8:30pm</u>	JOB START <u>10:00pm</u>	JOB FINISH <u>10:30pm</u>
LEASE <u>Billings</u>		WELL # <u>1-2</u>	LOCATION <u>Yocemento N to Co line</u>		COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>ZE 1/4S</u>		KCC		

CONTRACTOR Muylin #8

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 212

CASING SIZE 8 5/8 DEPTH 211

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 10-15'

PERFS.

DISPLACEMENT 12 1/2

OWNER _____

CEMENT AMOUNT ORDERED 150 ccm 3% cc

2% gal

COMMON	<u>150</u>	@	<u>6.35</u>	<u>952.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>1.00</u>	<u>157.50</u>
MILEAGE	<u>44/SK</u>	@	<u>1.00</u>	<u>138.00</u>
TOTAL				<u>1416.50</u>

OCT 13 2000
CONFIDENTIAL

EQUIPMENT

PUMP TRUCK CEMENTER Maul

345 HELPER Bill

BULK TRUCK

212 DRIVER Glen

BULK TRUCK

DRIVER

REMARKS:

Cement Cure

[Signature]

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 470.00

EXTRA FOOTAGE @ _____

MILEAGE 23 @ 3.00 69.00

PLUG 8 5/8 wooden @ 45.00

CHARGE TO: Hess Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

RELEASED
TOTAL 584.00
DEC 14 2001
FLOAT EQUIPMENT

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.

FROM CONFIDENTIAL

@ _____

@ _____

@ _____

@ _____

@ _____

SIGNATURE Phil Wederski

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Phil Wederski

CONFIDENTIAL

SWIFT SERVICES, INC.

PO BOX 466

NESS CITY, 67560-0466

15051-25032-0000

**ORIGINAL
Invoice**

DATE	INVOICE #
6/29/00	2604

KCC

OCT 13 2000

CONFIDENTIAL

BILL TO
Hess Oil Company PO Box 905 McPherson, KS 67460

RELEASED

DEC 14 2001

FROM CONFIDENTIAL

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Operator	Job Purpose
Net 30	# 1	Billinger	Ellis	Murfin Drlg Co	Oil	Development	Ted	Long String
PRICE REFERE...	DESCRIPTION				QTY	UNIT PRICE	AMOUNT	
575D	Milage				40	2.00	80.00	
579D	Pump Service Two-Stage				1	1,500.00	1,500.00	
281	Mud Flush				500	0.50	250.00	
407-5	5 1/2" Inscrt Float Shoec with Auto Fill				1	200.00	200.00T	
402-5	5 1/2" Centralizers - Fluid master				10	45.00	450.00T	
402-5	5 1/2" Centralizers - reg				2	40.00	80.00T	
403-5	5 1/2" Cement Basket				1	110.00	110.00T	
408-5	5 1/2" D.V. Tool & Plug Set				1	1,950.00	1,950.00T	
325	Cement				200	6.75	1,350.00T	
284	Calseal				9	20.00	180.00T	
283	Salt				1,000	0.15	150.00T	
285	CFR-1				100	2.75	275.00T	
290	D-Air				100	2.75	275.00T	
330	Swift Multi-Density				165	9.50	1,567.50T	
276	Flocele				91	0.90	81.90T	
581D	Service Charge Cement				365	1.00	365.00	
583D	Drayage				746.82	0.75	560.12	
	Subtotal						9,424.52	
Discount	5% Discount					-5.00%	-471.23	
	Subtotal						8,953.29	
	Sales Tax					4.90%	310.46	
Thank you for your business.						Total	\$9,263.75	

4870
JUL 17 PAID

CONFIDENTIAL

SWIFT Services, Inc.

15-051-250-32-0000

ORIGINAL

Wess Oil Co

WELL NO. #1

LEASE Bill Winger

JOB TYPE Cong string - two-stg

DATE 6-29-2000 PAGE NO. 27

TICKET NO. 2609

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	16:00							Callout
	16:30							On location w/ float valve
	18:40							Start csg on hole
	18:45							Csg on bottom / dropped
	18:55							hook up to circulate
	20:30							Started circulating
								Done circulating
								Pump Trk on location
								Pump 500 gal mud fls
								MIXED 200 lbs EA-2
								Done mixing amt
								Washed out pump & liner & dropped plug
	21:30							Started displ.
								Done w/ displ. Landed plug at 1200 PSI
								Release pressure - float did
								Dropped opening 1. Not well
								Pressure to 1200 PSI
	21:40							Blud back to 800 PSI
								shut in at well head
								for 3 hrs.
	12:30							Released pressure - Dried up
	12:45							Dropped bomb
	12:45							Open DV
	01:45							Circ 1 hr.
								Start mixing amt
								Done mixing 1653 lbs
								Released plug
								Started Displacement
	02:15							Done with displacement
								Landed plug at 1300 PSI
	02:25							Released pressure
								DV Closed
	05:25							Circ 205 lbs to PIT
								Washed up Trb
	02:40							Racked up
								Job complete
								Thompson

OCT 15 2000

CONFIDENTIAL

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15051-25032-0000

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HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

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STATE CORPORATION COMMISSION

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CONSERVATION DIVISION
Wichita, Kansas

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GEOLOGICAL REPORT

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BILLINGER #1-2

1100' FNL, 1900' FWL of

SECTION 2 - 11S - 19W

ELLIS COUNTY, KANSAS

Commenced:	6-22-00	Elevations:	2130' GR, 2135' KB
Completed:	6-30-00	Surface Pipe:	8-5/8" @ 211'
Contractor:	Murfin Drilling Co.	Production Pipe:	5½"

One foot drilling time was kept from 1400' to 1500' KB and from 2000' to rotary total depth. Ten foot drilling samples (wet & dry) were kept from 2200' 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

1444 (+691)

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<u>BASE ANHYDRITE</u>	DEC 14 2001	<u>1475</u>	(+660)
<u>NEVA</u>		<u>2533</u>	(-398)
<u>TOPEKA</u>		<u>3067</u>	(-932)

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3092-3102' KB

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

DRILL STEM TEST #13080' to 3110' KB 30' Anchor

Blow: Slow build to 3", then slow build to 2½"

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

Recovered: 130' 30% Oil, 43% SW, & 27% Mud

Pressures: IH 1616# IF 66 - 77# ISIP 775#
FH 1597# FF 88 - 110# FSIP 732#

3232-37' KB

White, very finely crystalline, chalky, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and no cut.

3251-56' KB

Tan, very finely crystalline, dense, chalky, limestone. Slight show of free oil in poor intercrystalline porosity, no odor, slight stain, and a very weak cut.

HEEBNER3287 (-1152)TORONTO3307 (-1172)LANSING3328 (-1193)3328-34' KB

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

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Page 3**DEC 14 2001**LANSING (cont.)**FROM CONFIDENTIAL**3363-69' KB

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

3380-86' KB

White, very fine to finely crystalline, slightly oolitic, limestone. Fair show of free oil in poor intercrystalline porosity, no odor, fair stain, and a strong cut.

3398' to 3404' KB

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

3410-16' KB

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

3420-25' KB

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

3432-40' KB

White to tan, very finely crystalline, dense, limestone. Slight show of free oil in poor intercrystalline porosity, no odor, slight stain, and a weak cut. ("tight")

DRILL STEM TEST #23350' to 3440' KB

90' Anchor

Blow: Slow build to 6". Then slow build to bottom of bucket in 50 min.

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

Recovered: 180' Gas in pipe.
190' 25% Gas, 46% Oil, 12% SW, 17% MudPressures: IH 1728# IF 54 - 101# ISIP 701#
FH 1683# FF 100 - 125# FSIP 746#

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LANSING (cont.) FROM CONFIDENTIAL

3465-72' KB

White, very finely crystalline, dense, limestone. Weak show of free oil in poor "on-edge" porosity, no odor, fair stain, and a weak cut. (No intercrystalline porosity!?!)

3473-78' KB

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

3496-3505' KB

White, very finely crystalline, dense, limestone. Slight shows of free oil in very poor intercrystalline porosity, no odor, slight stain, and very slight cuts.

STARK SHALE

3509 (-1374)

3519-23' KB

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

3528-34' KB

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

3540-46' KB

White, very finely crystalline, dense, limestone. Slight shows of free oil in poor intercrystalline porosity, no odor, slight stain, and very weak cuts.

BASE KANSAS CITY

3548 (-1413)

DRILL STEM TEST #3

3445' to 3560' KB

115' Anchor

Blow: Slow build to 5". Then weak surface blow building to 2".

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

Recovered: 165' 40% Oil, 60% Mud

Pressures: IH 1810# IF 120-131# ISIP 1066#
FH 1778# FF 142-164# FSIP 1056#

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CONGLOMERATE 3569 (-1434)

SIMPSON SAND 3610 (-1475)

3620-25' KB

Tan, tripolitic, chert. Slight show of free oil in poor "on-edge" porosity, no odor, very slight stain, and a slight cut.

3633-37' KB

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

ARBUCKLE 3645 (-1510)

3645-52' KB

White to tan, fine to medium crystalline, dense, dolomite. Great show of free oil in fair "vuggy" porosity, fair odor, good stain, and a very strong cut.

DRILL STEM TEST #4 3590' to 3652' KB 62' Anchor

Blow: Weak 1/2" blow throughout. Then weak 1/4" blow throughout.

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

Recovered: 50' Oil
40' 30% Oil & 70% Mud

Pressures: IH 1838# IF 19 - 33# ISIP 1028#
FH 1771# FF 36 - 55# FSIP 973#

3652-57' KB

White to tan, fine to medium crystalline, dense, dolomite. Great show of free oil in fair inter-crystalline porosity, weak odor, great stain, and a very strong cut.

DRILL STEM TEST #5 3648-57' KB 9' Anchor

Blow: 1/4" weak surface blows throughout both openings.

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

Recovered: 60' 2% Oil, 68% SW, 30% Mud

Pressures: IH 1844# IF 14 - 26# ISIP 1114#
FH 1791# FF 27 - 43# FSIP 1096#

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ARBUCKLE (cont.)

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3657-72' KB

White to tan, fine to medium crystalline, dense, dolomite. Good show of free oil in fair intercrystalline & "vuggy" porosity, no odor, lots of good stain, and a very strong cut.

3673-86' KB

White to tan, meduim crystalline, dense, dolomite. Good shows of free oil in good intercrystalline & "vuggy" porosity, no odor, good stain and some heavy tar stain, strong cuts.

3688-97' KB

Tan, medium crystalline, dense, dolomite. Fair to good shows of free oil in good intercrystalline porosity, no odor, some heavy tar stain, and good cuts.
[some barron porosity]

3698-3710' KB

Tan, fine to medium crystalline, dense, dolomite. Weak shows of free oil in fair intercrystalline porosity, no odor, fair stain w/lots of heavy tar stain, and a fair cut.
[Lots of barron porosity]

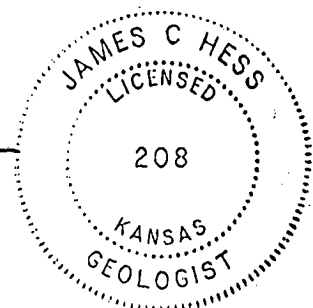
ROTARY TOTAL DEPTH

3710 (-1575)

A good set of Dual Induction, Neutron Density, Sonic, and Computer Processed logs were run by Log-Tech. Most of the tops moved up 3' and the Lansing zones were poorly developed. It was decided to run 5½" casing to produce from the Arbuckle, Lansing, and Topeka zones.

5½" 15.5# LTC casing was set 8' off bottom @ 3702' KB w/12' shoe jt. Cemented w/200 sx of EA-II cement. A D.V. Tool was set @ 1360-62' KB and cemented w/165sx of Mid-con. 2 to surface. Plug was down @ 2:45am 6-30-00.

Sincerely,
James C. Hess
James C. Hess
Geologist



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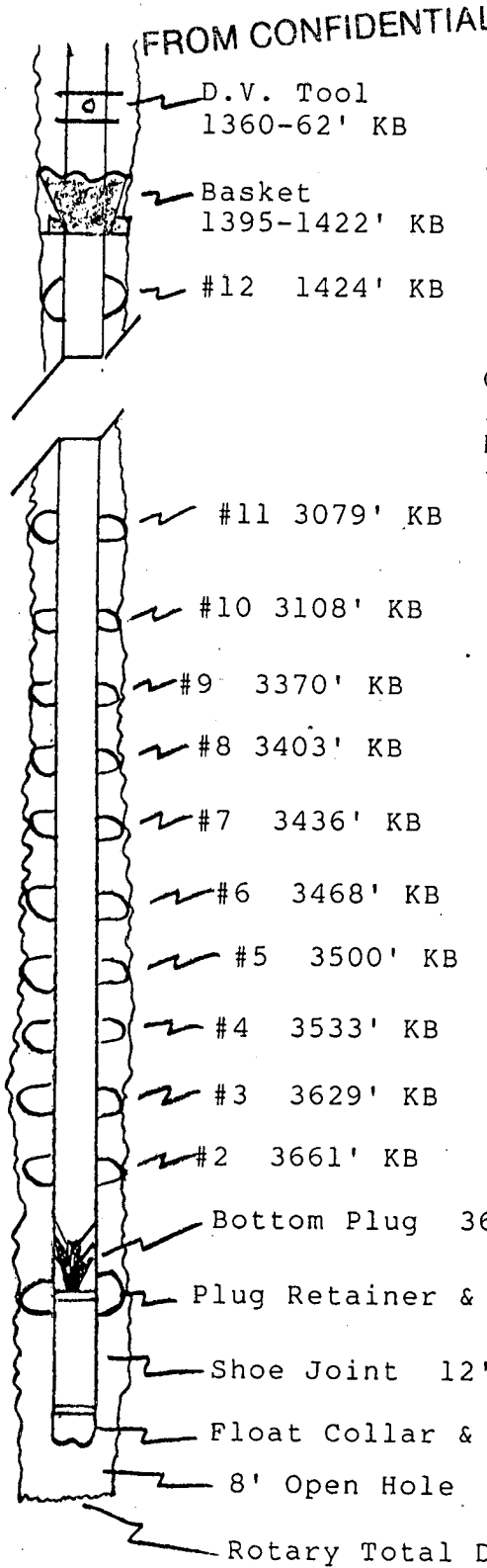
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Casing Report:



Ran 115 jts of 5½" 15.5#/ft casing w/LTC and set 8' off bottom with a 12' shoe jt.

Cemented bottom stage w/200 sx EA-II cement. Plug landed with 1200#, but float collar did not hold. Held pressure for 3 hrs while cement set up.

Opened D.V. Tool and circulated mud for 1 hr. Then cemented top stage w/165 sx Mid-con 2 cement. Circulated 20sx to surface.

Plug down & rig released 2:45am on 6-30-00.

State was notified through Mr. Dennis Hamel
(785) 625-0550 Office
(785) 434-7237 Home
(785) 623-3575 Mobil

Sincerely,
James C. Hess
James C. Hess
Geologist

