

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1077532

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	_ Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	
Phone: ()	
CONTRACTOR: License #	County:
Name:	
Wellsite Geologist:	
Purchaser:	-
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows:	Amount of Surface Pipe Set and Cemented at:
Operator:	_
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWE	Chloride content: ppm Fluid volume: bbls
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East 🗌 West
ENHR Permit #: GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date Recompletion Date	-

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Side Two	
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes	No		Lc	-	n (Top), Depth an		Sample
Samples Sent to Geolog	ical Survey	Yes	No		Name	9		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	YesYesYes	☐ No ☐ No ☐ No						
List All E. Logs Run:									
			CASING	RECORD	Ne	w Used			
		Report al	ll strings set-c	onductor, surfa	ace, inte	rmediate, product	ion, etc.		
Purpose of String	Size Hole Drilled	Size Ca Set (In		Weigh Lbs. / F		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot		PERFORATION Specify For		RD - Bridge P Each Interval F		e			ement Squeeze Record of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner F	Run:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	λ .	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF C	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION IN	TERVAL:
Vented Solo		Jsed on Lease		Open Hole	Perf.	Dually (Submit)	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACC)-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Beatrice 1-27
Doc ID	1077532

Tops

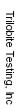
Name	Тор	Datum
Heebner	1947	-438
Brown Lime	2141	-632
Lansing	2188	-679
Stark Shale	2454	-945
Cherokee Shale	2702	-1193
Mississippi	2771	-1262
Kinderhook Shale	2939	-1430
Hunton	3105	-1596
Viola	3218	-1709
Simpson Sand	3325	-1816
RTD	3393	-1884

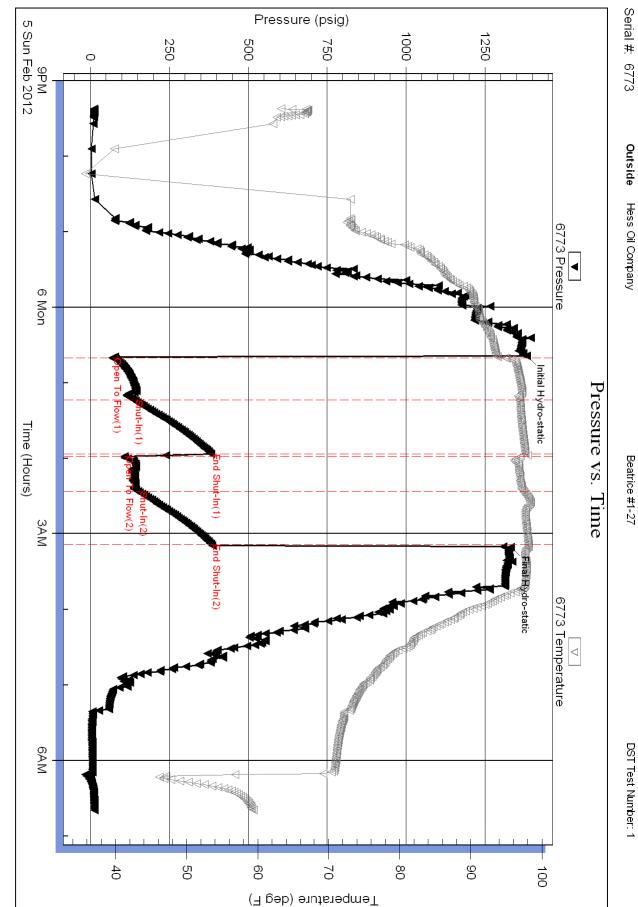
	RILOBITE		2014		T REP	07	40-4-				
	ESTING , INC	Hess Oil Compa	ariy			27-	18s-1e				
		PO Box 1009 Mcpherson KS	67460				atrice #		DS	6T#: 1	
		ATTN: Bryan H	Hess			Tes	t Start: 20	012.02.0)5 @ 21:22:	-	
GENERAL INFO	RMATION:										
Formation:	Mississippi										
Deviated: Fime Tool Opened: Fime Test Ended:		ft (KE	3)			Tes	ter:	Conven Chris St 47	tional Bottoi taats	n Hole	e (Initial)
nterval: 273	30.00 ft (KB) To 27	'84.00 ft (KB) (TV	D)			Ref	erence Ele	evations	: 150	4.00	ft (KB)
Fotal Depth:	2784.00 ft (KB) (T										ft (CF)
Hole Diameter:	7.88 inchesHole	e Condition: Fair					KB t	to GR/C	F:	4.00	ft
Serial #: 6773	Outside										
Press@RunDepth:	150.70 psig		(KB)			Capacity				0.00	psig
Start Date:	2012.02.05	End Date:		2	2012.02.06	Last Cali		0040.00	2012.0		
Start Time:	21:22:07	End Time:			06:39:47	Time On Time Off			2.06 @ 00:3 2.06 @ 03:1		
	FSI: Weak blow I	ack BOB 2 sec GTS 1 back	0 min				RESSUF	RE SU	MMARY		
	ISI: Weak blow b FF: Strong blow FSI: Weak blow I	ack BOB 2 sec GTS 1 back	0 min		Timo						
8773	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back	0 min	- 100	Time (Min.)	Pressure (psig)	Temp (deg F)	Anno	otation		
	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 100	(Min.) 0	Pressure (psig) 1381.39	Temp (deg F) 93.60	Anno Initial F	otation Hydro-static		
8773	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 90	(Min.)	Pressure (psig)	Temp (deg F)	Anno Initial H Open	otation Hydro-static To Flow (1)		
1250	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back			(Min.) 0 2	Pressure (psig) 1381.39 69.84 137.14 382.04	Temp (deg F) 93.60 94.83 96.94 97.69	Anno Initial H Open Shut-I End Sl	otation Hydro-static To Flow (1) n(1) hut-In(1)		
1250	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 90	(Min.) 0 2 35 78 80	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14	Temp (deg F) 93.60 94.83 96.94 97.69 97.02	Anno Initial H Open Shut-I End Si Open	Hydro-station To Flow (1) n(1) hut-In(1) To Flow (2)		
1250	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 90 - 80 - 70 - 70	(Min.) 0 2 35 78 80 108	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.41	Anno Initial H Open Shut-I End S Open Shut-I	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2)		
1250	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 90 - 80 Tem	(Min.) 0 2 35 78 80	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14	Temp (deg F) 93.60 94.83 96.94 97.69 97.02	Anno Initial H Open Shut-li End S Open Shut-li End S	Hydro-station To Flow (1) n(1) hut-In(1) To Flow (2)		
1220	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 90 - 80 - 70 - 70	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.02 97.41 98.12	Anno Initial H Open Shut-li End S Open Shut-li End S	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2)		
	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 80 - 80 - 70 Temperature (deg F) - 80	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.02 97.41 98.12	Anno Initial H Open Shut-li End S Open Shut-li End S	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2)		
	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T	ack BOB 2 sec GTS 1 back		- 80 - 80 - 70 Temperature (deg F) - 80	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.41 98.12 98.02	Anno Initial H Open Shut-li End S Open Shut-li End S	-lydro-static To Flow (1) n(1) hut-ln(1) To Flow (2) n(2) hut-ln(2) -lydro-static		
	ISI: Weak blow b FF: Strong blow FSI: Weak blow f Pressure vs. T	ack BOB 2 sec GTS 1 back		- 80 - 80 - 70 Temperature (deg F) - 80	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.41 98.12 98.02	Anno Initial I Open Shut-II End SI Final I Final I	-lydro-static To Flow (1) n(1) hut-ln(1) To Flow (2) n(2) hut-ln(2) -lydro-static		s Rate (Mcf/d)
1250 1250	ISI: Weak blow b FF: Strong blow FSI: Weak blow l Pressure vs. T Pressure P	ack BOB 2 sec GTS 1 back	EAM	- 80 - 80 - 70 Temperature (deg F) - 80	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.41 98.12 98.02	Anno Initial I Open Shut-II End SI Final I Final I	-lydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2) -lydro-static		s Rate (Mcf/d)
1250 1260 760 200 9FM 9FM 129 120 120 120 120 120 120 120 120	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T Pressure Pressure Pressure Pressure Pressure vs. T Pressure Pr	ack BOB 2 sec GTS 1 back	BAM	- 80 - 80 - 70 Temperature (deg F) - 80	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.41 98.12 98.02	Anno Initial I Open Shut-II End SI Final I Final I	-lydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2) -lydro-static		s Rate (Mcf/d)
1200 1200 1200 1200 700 200 0 0 0 0 0 0 0 0 0 0 0 0	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T Pressure Pressure Pressure Pressure Pressure vs. T Pressure Pr	ack BOB 2 sec GTS 1 back	EAM	- 80 - 80 - 70 Temperature (deg F) - 80	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.41 98.12 98.02	Anno Initial I Open Shut-II End SI Final I Final I	-lydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2) -lydro-static		s Rate (Mcf/d)
1200 1200	ISI: Weak blow b FF: Strong blow FSI: Weak blow I Pressure vs. T Pressure Pressure Pressure Pressure Pressure vs. T Pressure Pr	ack BOB 2 sec GTS 1 back	EAM	- 80 - 80 - 70 Temperature (deg F) - 80	(Min.) 0 2 35 78 80 108 151	Pressure (psig) 1381.39 69.84 137.14 382.04 108.14 150.70 383.08	Temp (deg F) 93.60 94.83 96.94 97.69 97.02 97.41 98.12 98.02	Anno Initial I Open Shut-II End SI Final I Final I	-lydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2) -lydro-static		s Rate (Mcf/d)

T. ()•••••)}}	RILOBITE		LL STEM TEST REPOR	1		FLUID S	UMMAR
	ESTING , INC	Hess (Dil Company	27-18s-1e			
ESTING, INC			k 1009 rson KS 67460	Beatrice		DST#:1	
		ATTN:	Bryan Hess		2012.02.05 @ 2	-	
Mud and Cu	Ishion Information						
	el Chem		Cushion Type:		Oil A PI:		deg API
Mud Weight:	10.00 lb/gal		Cushion Length:	ft	Water Salinity:		ppm
/iscosity:	36.00 sec/qt		Cushion Volume:	bbl			
Nater Loss:	16.59 in ³		Gas Cushion Type:				
Resistivity:	0.00 ohm.m		Gas Cushion Pressure:	psig			
Salinity:	1800.00 ppm						
Filter Cake:	0.02 inches						
Recovery In	iformation		Recovery Table				
	Leng		Description	Volume bbl]		
		0.00	2802' GIP	0.000	5		
		312.00	MUD	2.099	7		
	Total Length:	312	.00 ft Total Volume: 2.099 bbl				
	Num Fluid Sam		Num Gas Bombs: 0	Serial #			
	Laboratory Nar		Laboratory Location:				
	Recovery Com		Eaboratory Eboation.				

Printed: 2012.02.06 @ 09:14:45

Ref. No: 47454





Beatrice #1-27

DST Test Number: 1

Outside

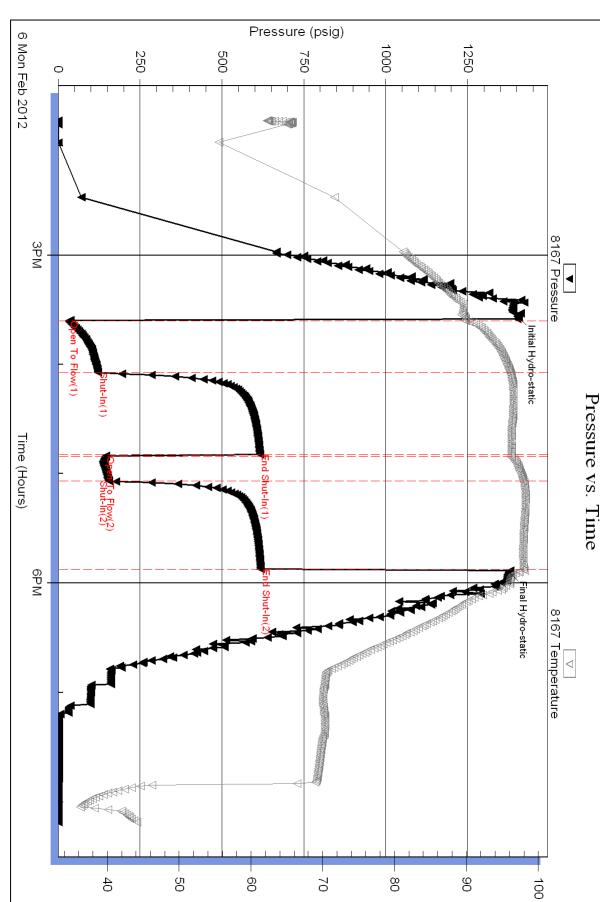
RILOBITE	DRILL STEM TES	T REP	ORT				
	Hess Oil Company		27-1	8s-1e N	larion K	S.	
ESTING , INC	PO Box 1009 Mcpherson KS 67460			trice #1 Ticket: 45		DST#	• 2
	ATTN: Jamie Hess				12.02.06 @	-	-
GENERAL INFORMATION:							
Formation:Miss.Deviated:NoWhipstock:Time Tool Opened:15:36:00Time Test Ended:20:11:15	ft (KB)		Test Teste Unit N	er: C	Convention Gary Pevote	al Bottom H eaux	ole (Initial)
Interval:2774.00 ft (KB) To279Total Depth:2794.00 ft (KB) (TVHole Diameter:7.88 inches Hole	D)		Refe	rence Ele KB to	vations: o GR/CF:	1500.0	0 ft (KB) 0 ft (CF) 0 ft
Serial #:8167InsidePress@RunDepth:154.33 psigStart Date:2012.02.06Start Time:13:46:16TEST COMMENT:IF:Stong blow . B.	End Date: End Time:	2012.02.06 20:11:15	Capacity: Last Calib. Time On B Time Off E	stm: 2		8000.00 2012.02.00 @ 15:33:30 @ 17:54:00	6 0
ISI:Weak to fair b FF:Strong blow . I FSI:Fair blow . Inc Pressure vs. Ti	low . Increase to 5 ". 3.O.B. in 5 mins. rease to 10". me	1	PR	ESSUR	E SUMM	IARY	
BIRD Pressue 120 120 120 120 120 120 120 120	BT Temperature 100 100 100 100 100 100 100 10	Time (Min.) 0 3 31 76 77 91 139 141	Pressure	Temp (deg F) 89.66 89.91 96.07 96.28 96.22 97.92	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2)	on :o-static :low (1) ln(1) :low (2) ln(2)	
Length (ft) Description	Volume (bbl)			Gas Choke (ir	s Rates	ure (psig)	Gas Rate (Mcf/d)
215.00 MW 5%m 95%w /Rw .13 180.00 WM 36%w 64%m 0.00 2215 ftof GIP	ohms@46deg 1.06 1.99 0.00						
	Ref. No: 45731					7 @ 08:45:5	

an-		DR	ILL STEM TEST REPOR	Т	F	LUID SUMMARY
	RILOBITE	Hess	Dil Company	27-18s-1e	Marion Ks.	
ESTING , IN			x 1009 prson KS 67460	Beatrice :		DOT# 2
				Job Ticket: 4		DST#:2
		ATTN:	Jamie Hess	Test Start: 2	2012.02.06 @ 13:	46:15
Mud and Cu	shion Information	•				
Mud Type: G	el Chem		Cushion Type:		Oil A PI:	deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	94000 ppm
Viscosity:	56.00 sec/qt		Cushion Volume:	bbl		
Water Loss:	9.19 in ³		Gas Cushion Type:			
Resistivity: Salinity: Filter Cake:	0.00 ohm.m 1700.00 ppm 0.20 inches		Gas Cushion Pressure:	psig		
Recovery In	formation					
			Recovery Table			
	Leng	ŋth	Description	Volume bbl]	
		215.00	MW 5%m 95%w /Rw .13ohms@46deg	1.05	7	
		180.00	WM36%w 64%m	1.98	-	
		0.00	2215 ftof GIP	0.00	0	
	Total Length:	395	5.00 ft Total Volume: 3.044 bb	I		
	Num Fluid Sam	ples: 0	Num Gas Bombs: 0	Serial #	t: none	
	Laboratory Nar	me:	Laboratory Location:			
	Recovery Com	ments:				

Printed: 2012.02.07 @ 08:45:55

Ref. No: 45731

Trilobite Testing, Inc



Temperature (deg F)

Serial #: 8167 Inside Hes

Hess Oil Company

Beatrice #1-27

DST Test Number: 2

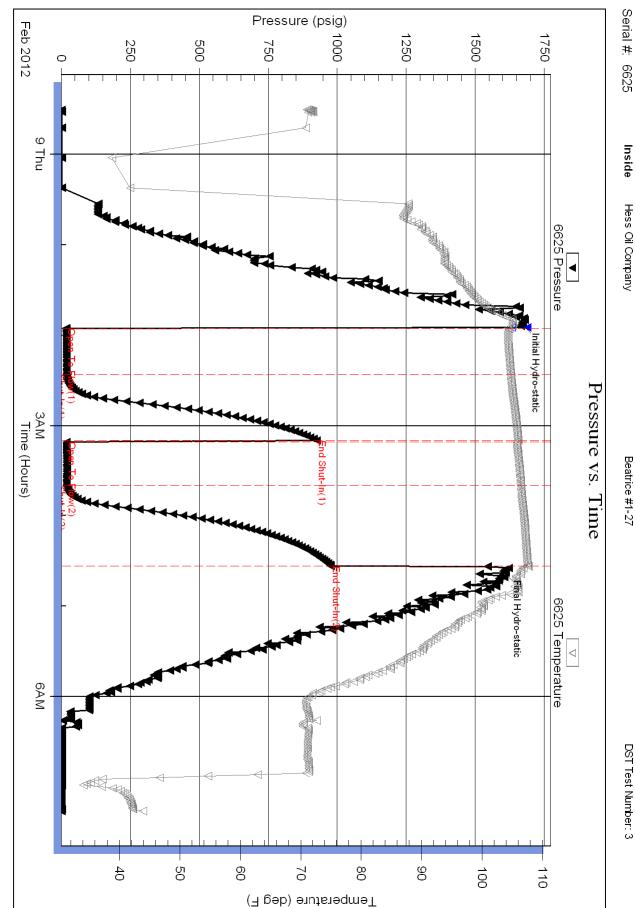
	DRILL STEM TES	ST REPO	ORT		
RILOBITE -	Hess Oil Company		27-18s-1e	Marion K	S.
ESTING , INC	PO Box 1009		Beatrice	#1-27	
	Mcpherson KS 67460		Job Ticket:	46839	DST#:3
	ATTN: Jamie Hess		Test Start:	2012.02.08 @	23:30:23
GENERAL INFORMATION:					
Formation:Simpson SdDeviated:NoWhipstock:Time Tool Opened:01:55:18Time Test Ended:07:16:17	ft (KB)		Test Type: Tester: Unit No:	Conventiona Ray Schwa 42	al Bottom Hole (Reset) ger
Interval:3314.00 ft (KB) To33Total Depth:3334.00 ft (KB) (TVHole Diameter:7.88 inches Hole	(D)		Reference Kl	Elevations: B to GR/CF:	1507.00 ft (KB) 1500.00 ft (CF) 7.00 ft
Serial #: 6625InsidePress@RunDepth:20.15 psigStart Date:2012.02.08Start Time:23:30:23TEST COMMENT:30-IFP-surface bl30-FFP-no bl30-FFP-no bl30-FFP-no bl45-FSIP-no bl	End Date: End Time:	2012.02.09 07:16:17	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2012.02.09 2012.02.09	
Pressure vs. Ti	me		PRESSI	JRE SUMM	
The state of the s	EXC Temperature 000 Te	Time (Min.) 0 33 33 77 78 107 161 164	Pressure (psig) Temp (deg F 1668.18 105.0 17.23 104.2 19.72 104.7 926.92 105.5	Annotation Annotation	on ro-static Flow (1) In(1) Flow (2) In(2)
Recovery				Bas Rates	
Length (ft) Description 10.00 mud	Volume (bbl) 0.05		Chok	e (inches) Pressu	ure (psig) Gas Rate (Mct/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 46839		Duit (ed: 2012.02.09	0.00.44:00

		DRI	LL S	STEM TEST	REPOR	Г		FLUID S	UMMARY
RILOBI		Hess C	il Comp	any		27-18s-1e	Marion Ks.		
I ESTI	NG , INC	PO Box Mcphei	(1009 rson KS	67460		Beatrice		DST#:3	
		ATTN:	Jamie	Hess			2012.02.08 @		
Mud and Cushion Info	rmation								
Mud Type:Gel ChemMud Weight:10.00 lbViscosity:60.00 scWater Loss:7.97 in	/gal ec/qt ₃ hm.m pm			Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressu	re:	ft bbl psig	Oil API: Water Salinity	<i>y</i> :	deg API ppm
Recovery Information									
ſ	Lengt	h		Recovery Table Description		Volume	Т		
	ft			Description		bbl	_		
 Tota	al Length:	10.00	mud .00 ft	Total Volume:	0.049 bbl	0.04	9		
	oratory Nam			Laboratory Locat					



Ref. No: 46839

Trilobite Testing, Inc



Inside Hess Oil Company

Beatrice #1-27

DST Test Number: 3

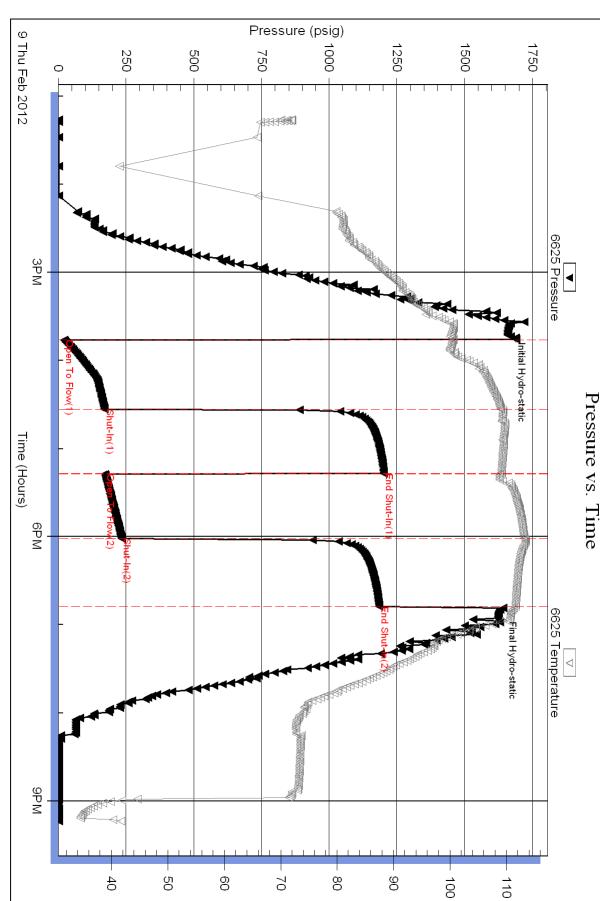
RILOBITE	DRILL STEM TES	ST REP	ORT	
I HILUDITE	Hess Oil Company		27-18s-1e	Marion Ks.
ESTING , IN	PO Box 1009 Mcpherson KS 67460		Beatrice	
			Job Ticket:	46840 DST#:4
	ATTN: Jamie Hess		Test Start:	2012.02.09 @ 13:16:04
GENERAL INFORMATION:				
Formation:Simpson SdDeviated:NoWhipstock:Time Tool Opened:15:45:59Time Test Ended:21:13:28	ft (KB)		Test Type: Tester: Unit No:	Conventional Bottom Hole (Reset) Ray Schwager 42
Interval: 3314.00 ft (KB) To Total Depth: 3344.00 ft (KB) (Reference	Elevations: 1507.00 ft (KB) 1500.00 ft (CF)
	ble Condition: Fair		K	B to GR/CF: 7.00 ft
Serial #: 6625 Inside				
Press@RunDepth: 234.37 psig			Capacity:	8000.00 psig
Start Date: 2012.02.09 Start Time: 13:16:04		2012.02.09 21:13:28	Last Calib.: Time On Btm:	2012.02.09 2012.02.09 @ 15:41:29
			Time Off Btm:	2012.02.09 @ 18:51:58
45-FFP-surfac 45-FSIP-no bl Pressure vs	Time		PRESSI	JRE SUMMARY
6625 Pressure	0625 Temperature	Time	Pressure Temp	Annotation
	final Hydra state	(Min.) 0	(psig) (deg F 1657.54 100.2	
		5		16 Open To Flow (1)
120		52	170.87 109.0	02 Shut-In(1)
		96 96		I3 End Shut-In(1) 36 Open To Flow (2)
		140		16 Shut-In(2)
		186	1185.16 111.6	60 End Shut-In(2)
00 0 0 0 0 0 0 0 0 0 0 0 0		191	1624.56 110.8	30 Final Hydro-static
Length (ft) Description	Volume (bbl)			Bas Rates re (inches) Pressure (psig) Gas Rate (Mcf/d)
124.00 MW 15%M85%W w/sh				. ,
372.00 Water	3.89			
* Recovery from multiple tests				
Trilobite Testing, Inc	Ref. No: 46840		Printe	ed: 2012.02.10 @ 08:23:15

		ILL STEM TEST REPOR	Т	F	LUID SUMMAR
RILOBI ESTII	I L Hess	Oil Company	27-18s-1e	Marion Ks.	
ESTI		ox 1009	Beatrice #	¢1-27	
	Mcph	erson KS 67460	Job Ticket: 4	6840	DST#:4
	ATTN	l: Jamie Hess	Test Start: 2	012.02.09 @ 13:	16:04
Iud and Cushion Info	rmation				
lud Type: Gel Chem		Cushion Type:		Oil A PI:	deg API
/lud Weight: 9.00 lb/	-	Cushion Length:	ft	Water Salinity:	17000 ppm
iscosity: 51.00 se		Cushion Volume:	bbl		
Vater Loss: 7.60 in ³		Gas Cushion Type:			
esistivity: 0.00 oh		Gas Cushion Pressure:	psig		
alinity: 1100.00 pp ilter Cake: 1.00 inc					
ecovery Information					
r		Recovery Table	-	-	
	Length ft	Description	Volume bbl		
	124.00	MW 15%M85%W w/show of oil	0.610)	
Ī	372.00	Water	3.888	3	
Tota	I Length: 49	6.00 ft Total Volume: 4.498 bb	I		
Num	n Fluid Samples: 0	Num Gas Bombs: 0	Serial #:	:	
	oratory Name: overy Comments: F	Laboratory Location: RW .67 @ 42F			
	-				
	-				

Printed: 2012.02.10 @ 08:23:16

Ref. No: 46840

Trilobite Testing, Inc



Temperature (deg F)

Serial #: 6625

Inside

Hess Oil Company

Beatrice #1-27

DST Test Number: 4

CONSOLIDATED OII WHIT Services LLC PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676 FIELD TICKET & TREA CEMEN	TMENT REP	TICKET NUME LOCATION <u>F</u> FOREMAN <u>S</u> ORT 15-115-214	ureka, KS Annon Fe	3531 ск
DATE CUSTOMER # WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-1-12 3628 Beatrice 1-27	27	18.5	IE	Marion
CUSTOMER Hess oil Company C46 MAILING ADDRESS DRL 6 P.O. Box 1009	TRUCK # 445 667	DRIVER Dave 6 Allen B	TRUCK #	DRIVER
CITY STATE ZIP CODE MC Pher Sch KS 67460 JOB TYPE Sor Fore HOLE SIZE 12/4/1 HOLE DEPT		CASING SIZE & W	VEIGHT <u>8</u> 5	@_23#
CASING DEPTH_202' G.L_ DRILL PIPE TUBING	sk 6,5-7,0		OTHER	
SLURRY WEIGHT 14.5-15" SLURRY VOL 30Bb WATER gall DISPLACEMENT 1212 B61 DISPLACEMENT PSI 100 MIX PSI 100 REMARKS: Rig up to 85 Casing, Break (20	RATE 5BP1		er
Mixed 125 SKS Class A Coment and 1/4# Florele/SK @ 14.5-15#/gai	with 3	% Callium ce with	1 - 11 3	9e1 361
Job Complete. Job Complete.	@ q11 +	imes 8	Bhl Slur	ry to Pin

Thanks Shannon & Crew

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUC		TOTAL
54015	1	PUMP CHARGE	825.00	825.00
5406	60	MILEAGE	4.00	24/0.00
	10.5 4.4.4	al a M annad	14,95	1868.75
11045	125 5KS	Class A Cement	and the second	261.22
1102	353 #	Calcium @ 3%	. 74	49.35
1118B	235 #	61 @ 2%	• 21	
1107	32#	6el @ 2% Flocele @ 14#/sk	2,35	75.20
5407A	5.9 Tons	Ton-mileage bulk truck	1,34	474,36
				3793.88
Ravin 3737			7.8% SALES TAX ESTIMATED	175.86
	ali Att	247674		2161, 1
AUTHORIZTION	Bitis Cust	TITLE	DATE	

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

- C	ONSOLIDATED		ENTEP	ריי			3626
)il Well Services, LLC	-0	ENIEL	LL	LOCATION E		
					FOREMAN R	CK Leaford	
O Box 884, Ch	anute, KS 66720 FII or 800-467-8676	ELD TICKE			15-115-214		
DATE		LL NAME & NUM		SECTION	TOWNSHIP	RANGE	COUNTY
		# / 27		27	185	IE	Marien
2/10/12 CUSTOMER	UNCON DEATCH	e #/-27	C+G		and the second states		
	ss Oil Company		Drly	TRUCK #		TRUCK #	DRIVER
				445 502	Stave Davis	(Eldered.)	
	D. Box 1009 STATE	ZIP CODE	-	202	Direc Caris	CERTAINE	
ne	Pherson KS	67440					
IOB TYPE P.	T.A O HOLE SIZE		HOLE DEPTH	I	CASING SIZE & V	VEIGHT	
CASING DEPTH_	DRILL PIPE		TUBING			OTHER	
SLURRY WEIGH				k 7.0	CEMENT LEFT in	CASING	
DISPLACEMENT	DISPLACEME	NT PSI	MIX PSI		RATE		
REMARKS:	afety meeting. Rig	p to drill	pipe. PI	veging arder	5 93 TO 11 AL	57	
		35 283	@ 250	,			
		30 545		to surface			
		30 545	@ rathe				
		20 545	@ mouse	shole			
		115 245	total				
		n-71	V P				
		Tha	You"				
ACCOUNT	QUANITY or UNITS	DE	SCRIPTION of	SERVICES or PF	ODUCT	UNIT PRICE	TOTAL
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5406	100	MILEAGE				4.00	240.00
						10	111112 00
1131	115 343	60/40 P	azmix cer	nont		12.55	1443.25
11183	395 #	470 311					82.95
5407	4.95	ten mil	egge bull	LARK		1.34	397.98
						1. h.	3194.18
					7.8%	SALES TAX	119.04
avin 3737		1	2414	5001	1. 10	ESTIMATED	
	Dulcoulte		241	oon		TOTAL	3313.22
UTHORIZTION_	Sul oute	0	TITLE			DATE	

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

225 N. Market, Suite 300 Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

<u>BEATRICE #1 - 27</u> 900' FNL, 1850' FEL of <u>SECTION 27 - 185 - 1E</u>

MARION COUNTY, KANSAS

Commenced:	2-1-12	Elevations: 1500' GR, 1509' KB
Completed:	2-10-12	Surface Pipe: 8-5/8" at 200' KB
Contractor:	C & G Drilling	Production Pipe: none

One foot drilling time was kept from 1800' to Rotary Total Depth. Ten foot drilling samples (wet & dry) were kept from 2100' to RTD.

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

HEEBNER	1947	(-438)
BROWN LIME	2141	(-632)
LANSING	2188	(-679)
STARK SHALE	2454	(-945)
CHEROKEE SHALE	2702	(-1193)
MISSISSIPPI	2771	(-1262)

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Beatrice #1-27 Page 2

MISSISSIPPI (cont.)

<u>2771-80' KB</u> White, very fine to finely crystalline, dolomite. Good show of gas bubbles, no show of free oil in very poor intercrystalline porosity, slight odor, no stain, and no cut.

2781-84' KB White dolomite as above & some White tripolitic & sharp cherts. Good show of gas bubbles, No free oil, weak stain that cuts good, slight odor.

DRILL STEM TEST #1 2730 to 2784' KB 54' Anchor

Blow: bottom of bucket in 2 min., 2nd -- gas to surface 10 min. (TSTM)

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

Recovered: 312' Water Cut Mud (no chlorides ?)

Pressures: IH 1381# IF 69 - 137# ISIP 382# FH 1331# FF 108 - 150# FSIP 383#

2785-94' KB White, tripolitic & sharp, cherts. Good show of gas bubbles, fair show of free oil in poor intercrystalline porosity, good stain, light odor, and a good cut.

DRILL STEM TE**S**T #2 <u>2774 - 2794' KB</u> 20' Anchor Blow: bottom of bucket in 25 sec. 2nd-- BOB in

5 min.

Times: Open 30, Closed 45, Open 15, Closed 45.

Recovered: 2215' Gas 335' Mud Cut SW Chlorides 94,000 ppm Pressures: IH 1402# IF 32 - 121# ISIP 615#

FH 1377# FF 144 - 154# FSIP 617#

KINDERHOOK SHALE

2939 (-1430)

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Beatrice #1-27 Page 3

HUNTON	3105	(-1596)
VIOLA	3218	(-1709)
SIMPSON SAND	3325	(-1816)

<u>3325-30' KB</u> Clear to brown, fine to medium grainned, well rounded, fairly sorted, sandstone clusters & loose grains. Fair show of free oil in ss clusters, slight odor, good stain, and a strong cut.

<u>3331-34' KB</u> Clear to tan, fine to medium grainned, well sorted, well rounded, sandstone clusters & loose grains. Weak show of free oil in "tite" sandstone clusters, slight stain, no odor, and a fair cut.

DRILL STEM TEST #3 3314 to 3334' KB 20' Anchor Blow: weak surface blow -- died in 20 min. 2nd -- no blow. Open 30, Closed 45, Open 30, Closed 45. Times: Recovered: 10' Mud 17 - 19# 1668# ISIP 926# Pressues: IH IF FF 19 - 20# FH 1600# FSIP 977#

<u>3335-40' KB</u> Clear, medium grainned, well rounded, well sorted, sandstone clusters & loose grains. Good show of free oil in fair intergrannular porosity, fair odor, good stain, and a strong cut !!!

3314 to 3344' KB 30' Anchor DRILL STEM TEST #4 Slow build to 6". 2nd -- weak build to $1\frac{1}{2}$ ". Blow: Open 45, Closed 45, Open 45, Closed 45. Times: Recovered: 496' Mud Cut SW with show of oil. Pressures: IH 1657# IF 21 - 170 #ISIP 1202# FF 172 - 234# 1185# 1624# FSIP FH 3348-52' KB Clear to tan, small grainned, well sorted, fairly rounded, sandstone clusters & loose grains.

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Beatrice #1-27 Page 4

3348-52' KB

(cont.)

Slight show of free oil in poor intergrannular porosity, no odor, slight stain, and a weak cut.

Looks to "tite" to produce and would be 4 - 8' below water test.

ROTARY TOTAL DEPTH

3393 (-1884)

A full set of Dual Compensated Porosity and Dual Induction logs were run to evaluate the well & prospect. Most of the tops were reasonably close. There was some development in the top of the Viola --- 2' 8% with 55% SW and 2' 10% with 58% SW. There were no sample shows !

There were 2 sample shows untested. The first was below the water test in the Miss. 2795 - 2800' KB --- few gas bubbles & slight show of free oil. The second was below the water test in the Simpson Sand 3348-52' KB. ---- slight show & no odor.

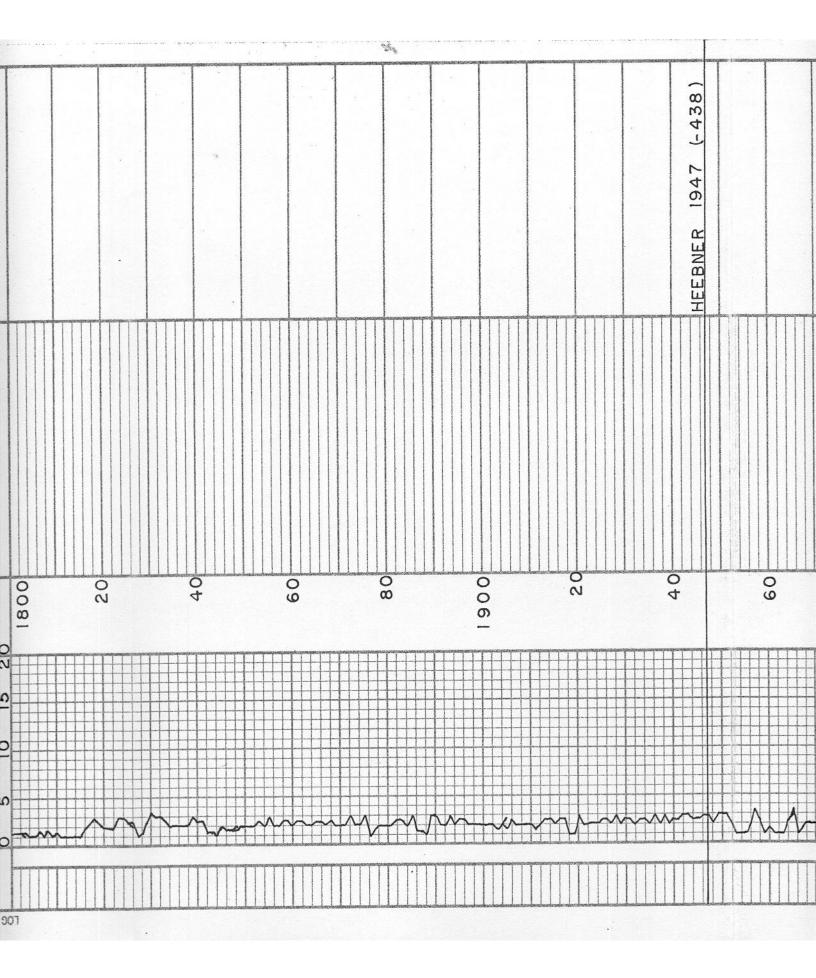
It was decided to plug the Beatrice #1 - 27 on 2-10-12. I believe there is an oilwell close by, but I may not be the one to find it. Crud.

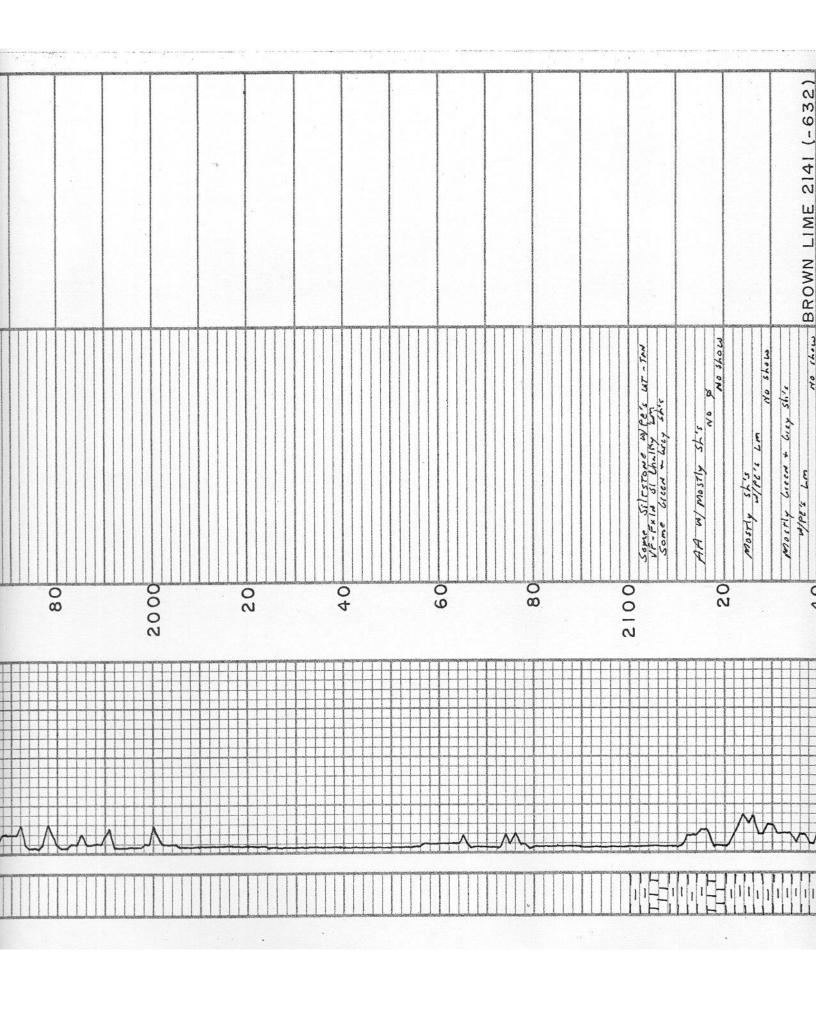
Sincerely James C. Hess Geologist



HESS OIL COMPANY P.O. Box 1009 McPherson, KS 67460-1009

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			SIMPSON SAND 3325	(-1816)							ROTARY TOTAL DEPTH	3393 (-1884)		DST #4	3314-3344' KB	30' ANCHOR	TIMES:	45-45-45-45	RECOVERED:	496 ' MCSW of ail	PRESSURES:	IH 1657 #	170 #	 257 P 1202	
Few liers Shish Lm	WF-Br UE-Frim SI bolomitic Lon W/Some WF chalky Lon Few Green Shis	AA		First - load show of fire oil 31 abor	All	4) "Sample Came large than constituted "Tite" Clear set (Luster a) wood show or Fair obor. 3334.40 NB	Plastly Licen + Liey Ch's No B		Mostly Liten & bier 16's Few Elen - Sugy is United 100 R No. 500	56 blusters Black Redia Jone borrow B Hoy Shis Mostry Greew - Grey Shis	Few Elear - Tax "rife" 36 Clusters R(
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