Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1215149

Form ACO-1 August 2013 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 Dorth / South Line of Section				
City: State: Zip:+	Feet from East / West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()					
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
New Well Re-Entry Workover	Field Name:				
	Producing Formation:				
	Elevation: Ground: Kelly Bushing:				
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:				
OG GSW Temp. Abd. CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet				
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?				
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet				
Operator:	If Alternate II completion, cement circulated from:				
Well Name:	feet depth to:w/sx cmt.				
Original Comp. Date: Original Total Depth:					
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Monogoment Dien				
Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)				
	Chloride content: ppm Fluid volume: bbls				
Commingled Permit #:	Dewatering method used:				
Dual Completion Permit #:	Dewalening method used.				
SWD Permit #:	Location of fluid disposal if hauled offsite:				
ENHR Permit #:	Operator Name:				
GSW Permit #:	Lease Name: License #:				
	Quarter Sec TwpS. R East West				
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date or Recompletion Date or					
Recompletion Date Recompletion Date	County: Permit #:				

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					
Confidentiality Requested					
Date:					
Confidential Release Date:					
Wireline Log Received					
Geologist Report Received					
UIC Distribution					
ALT I II III Approved by: Date:					

	Page Two	1215149
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS, Chow important tang of formations populated	Dotail all coros Report all	final conject of drill stome tasts giving interval tasted, time tool

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No	L	og Formatio	on (Top), Depth ar	id Datum	Sample
Samples Sent to Geolog	jical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-	conductor, surface, inte	rmediate, product	ion, 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
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Protect Casing							

Did you perform a hydraulic fr	recturing treatment	on this well?	Yes	No	(If No, skip questions 2 and 3)	
Plug Off Zone						
Periorate Protect Casing Plug Back TD						

Yes

Yes

No No

No

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	?
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	

(If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge P Each Interval F		96	A		ement Squeeze Record I of Material Used)	Depth
TUBING RECORD: Size: Set At: P			Packe	r At:	Liner Ru	n:	No			
Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping			ping	Gas Lift	Other (Explain)					
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS: METHOD OF COMPLETION: PRODUCTION INTERVAL:										
						PRODUCTION INT	ERVAL:			
Vented Sol	d	Used on Lease		Open Hole	Perf.	Uually (Submit A		Commingled (Submit ACO-4)		
(If vented, Su	ıbmit ACC	D-18.)		Other (Specify)				. ,		

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Sack 1
Doc ID	1215149

Tops

Name	Тор	Datum
Anhydrite	1391	+700
Base Anhydrite	1441	+660
Topeka	3127	-1026
Heebner	3365	-1264
Toronto	3382	-1281
Lansing	3414	-1313
Base Kansas City	3662	-1561
Marmaton	3696	-1595
Conglomerate	3723	-1622
RTD & LTD	3795	-1694

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Sack 1
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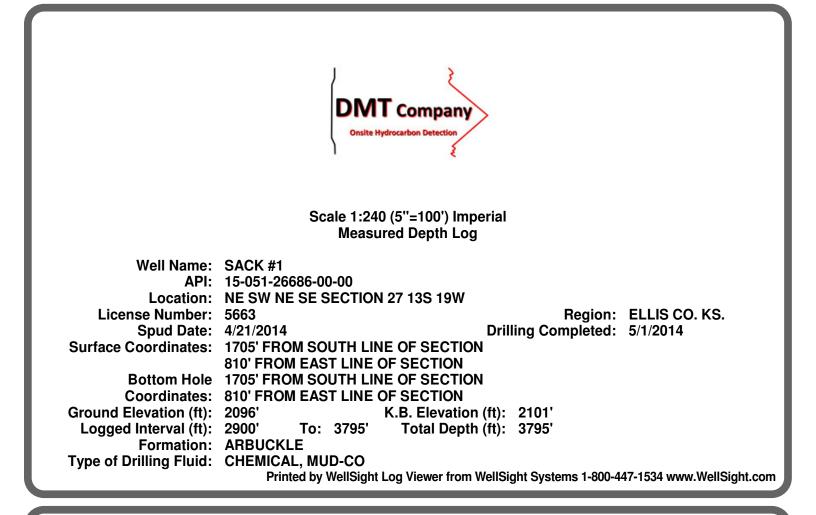
Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	20	218	Common		2% gel, 3% cc
Production	7.875	5.5	15.5	3793	EA-2	150	

ALLIED OIL & GAS SERVICES, LLC 055049 Federal Tax I.D.# 20-5975804

LEASE SACK WELL 1 LOCATION HAVE 3-455 Dr 01340 CMMY STATE (S OLD OR (REW)Circle one) 1500th - 500th 454 7E 300 CONTRACTOR (Maller) 0000 CONTRACTOR (Maller) 0000 CONTRACTOR (Maller) 0000 CONTRACTOR (Maller) 0000 CASING SIZE DEFTH ORIGINATE DEFTH DRULL PIPE DEFTH DRULL PIPE DEFTH COMMON 150 (P17.50 24.85.0 MEAS. LINE SHOE JOINT CEMEENT LEFT IN CSO. 1D CEMEENT LEFT IN CSO. 1D CEMEENT 13 562 CEMEENT 13 566.38 TOTAL CEMEENT 13 566.38 TOTAL CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT COMMON 15 0 CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT COMMON 15 0 CEMEENT 13 566.38 TOTAL CEMEENT 15 10 00 00000000000000000000000000000	REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT.
LEASE SACK WELL 1 LOCATION HAVE 3-455 Dr 01340 CMMY STATE (S OLD OR (REW)Circle one) 1500th - 500th 454 7E 300 CONTRACTOR (Maller) 0000 CONTRACTOR (Maller) 0000 CONTRACTOR (Maller) 0000 CONTRACTOR (Maller) 0000 CASING SIZE DEFTH ORIGINATE DEFTH DRULL PIPE DEFTH DRULL PIPE DEFTH COMMON 150 (P17.50 24.85.0 MEAS. LINE SHOE JOINT CEMEENT LEFT IN CSO. 1D CEMEENT LEFT IN CSO. 1D CEMEENT 13 562 CEMEENT 13 566.38 TOTAL CEMEENT 13 566.38 TOTAL CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT COMMON 15 0 CEMEENT 15 566.38 TOTAL CEMEENT CEMEENT 15 566.38 TOTAL CEMEENT COMMON 15 0 CEMEENT 13 566.38 TOTAL CEMEENT 15 10 00 00000000000000000000000000000	DATE 4-21-14 SEC. TWP. RANGE 19	CALLED OUT ON LOCATION JOB START JOB FINISH 6:001 8:001 8:00 8:00 8:30 pm
OLD OR $f EW (2brick one)$ 1 $\Delta DJH - Sost-Lorst YE 3rdo CONTRACTOR (Maller) OWNER CONTRACTOR (Maller) DUNNER CASING SIZE DEPTH DILE SIZE DEPTH DRILE PIE DEPTH DRILL PIPE DEPTH DOL DEPTH CASING SIZE DEPTH DRILL PIPE DEPTH DOL DEPTH CASING SIZE DEPTH DRILL PIPE DEPTH COMMON 15 0 CEMENT LEPT IN CSG. ID CHLORIDE CEMENT LEPT IN CSG. ID CHLORIDE PERFS. CHLORIDE DISPLACEMENT 1 3 bb L ASC 6 BULK TRUCK MINIMM PUMP TRUCK CEMENTER Stora Down BULK TRUCK 9 204 200 # DRIVER REMARKS: Correct Sord an MILEAGE JUM TORE CHARGE TO: HANDLING MARKES SERVICE DEPTH OP JOB D18 CHARGE TO: Hasis UNICA Con MANIFO$	LEASE SACK WELL# 1 LOCATION H.	COUNTY
CONTRACTOR (Yeller) OWNER TYPE OP JOB 35/5 Survey CEMENT CASING SIZE DEPTH 3-3 COMMON 15 0 CEMENT LEPT IN CSG. 1D CEL CEMENT LEPT IN CSG. 1D CHLORIDE CEMENT LEPT IN CSG. 1D CHLORIDE CEMENT LEPT IN CSG. 1D CHLORIDE PERS.MAX MINIMUM POZMIX 9 EQUIPMENT State EQUIPMENT State FERS. State ASC 9 State State BULK TRUCK Manuel State BULK TRUCK State BULK TRUCK Manuel State State State State State State State State State State State State State		
TYPE OP JOB $357_5 5_{33} $		
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EQUIPMENT Image: Construct of the second		
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POINT ROCK CEMERTER STREAM STORE (BULK TRUCK Image: Community Store (Image: Community Store (Image: Community Store (Street Image: Community Store (Image: Community Store (Image: Community Store (Street Image: Community Store (Image: Community Store (Image: Community Store (DQ01111D(()	
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# DRIVER $1 \ge 3 \ge 1 \ge 9 \le 1 \ge 3 \ge 2 \ge 1 \ge 2 \ge 2 \le 2 \ge 2$	BULK TRUCK	
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	contractor. I have read and understand the "GENER.	
TERMS AND CONDITIONS" listed on the reverse side. SALES TAX (If Any)	TERMS AND CONDITIONS" listed on the reverse s	
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USTOMER	19.11	· · · · · · · · · · · · · · · · · · ·	WELL NO.	7	LEAS	SE		JOB TYPE	DATE 4- 30-14 PAGE
,	<u>0;10</u> T	-r				Sec.		JOB TYPE 2-5/49 e	TICKET NO. 25-485
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSUR UBING	CASING	DESCRIPTION OF OPERATIO	N AND MATERIALS
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	L								
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								Nick, PavelE.	x B L



OPERATOR

Company: HESS OIL COMPANY Address: P.O. BOX 1009 MCPHERSON, KANSAS 67460-1009 (620) 241-4640

GEOLOGIST

Name: DAVID GOULD (LOGGER) Company: DMT COMPANY Address: 532 SUNRISE PRATT, KANSAS 67124 (620) 388-2847 CCONTRACTOR: MALLARD, J. V., INC #2

BIT RECORD: A, 12 1/4", RT, RR, 0-218 1, 7 7/8", F27, RR, 218-3795

SURVEYS: 218 1 DEGREE 3340 1 DEGREE

DAILY STATUS: (7:00 AM) 4/21/14Moved in Mallard Drilling rig. Spudded @ 3:50 pm. Drilled to 218' and ran 5 jts. 8-5/8'' x 20# x 211' surface casing. Set @ 218' and cemented w/150 sx Common, 2% gel, 3% cc. CDC. PD @ 8:30 pm

4/22/14Rig work @ 218'

4/23/14Drilling @ 1560'

4/24/14Drilling @ 2528'

4/25/14CFS @ 3162'. Drilled to 3340'. DST #1: 3322'-3340'. 30-30-30. Rec 3' M w/oil spots.

4/26/14CFS @ 3392'. Drilled to 3475'. DST #2: 3409'-3475'. 30-30-pulled tool. Rec 5' M.

4/27/14Drilled to 3520'. DST #3: 3474'-3520'. 45-45-45. Rec 5' M. Drilled to 3604'.

4/28/14DST #4: 3539'-3604'. 45-45-45. Rec 300' MCO (70% O, 30% M). Drilled to 3710'. DST #5: 3698'-3710'. Missrun - packer failure.

4/29/04DST #7: 5' mud

Well Name & No.: Sack #1 Company: Hess Oil Company Test No.: 1 Interval Tested: 3322-3340

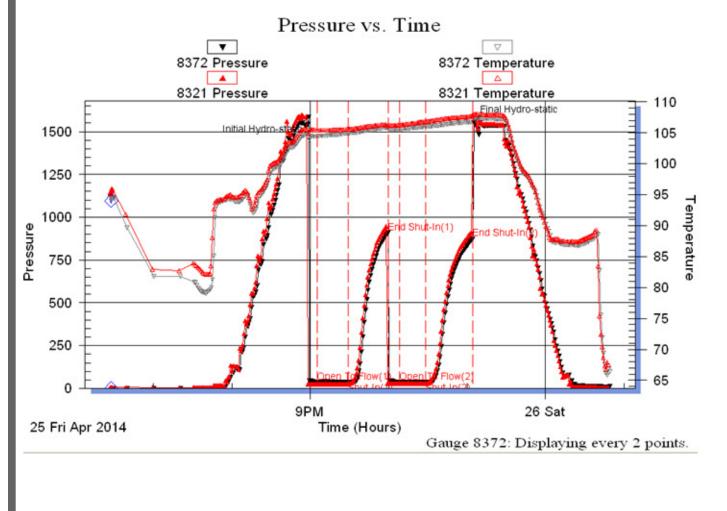
Zone Tested: LaCompton Times: 30-30-30-30

Blow Description: IFP: No Blow ISI: No Blow FFP: No Blow FSI: No Blow

Rec: 3 Feet of M with oil spots Rec. Total: 3', BHT: 107 Gravity: N/C

Initial Hydrostatic: 1585 First Initial Flow: 38 First Final Flow: 38 Initial Shut-In: 910

Second Initial Flow: 36 Second Final Flow: 38 Final Shut-In: 874 Final Hydrostatic: 1556



Well Name & No.: Sack #1 Company: Hess Oil Company Test No.: 2 Interval Tested: 3409-3475

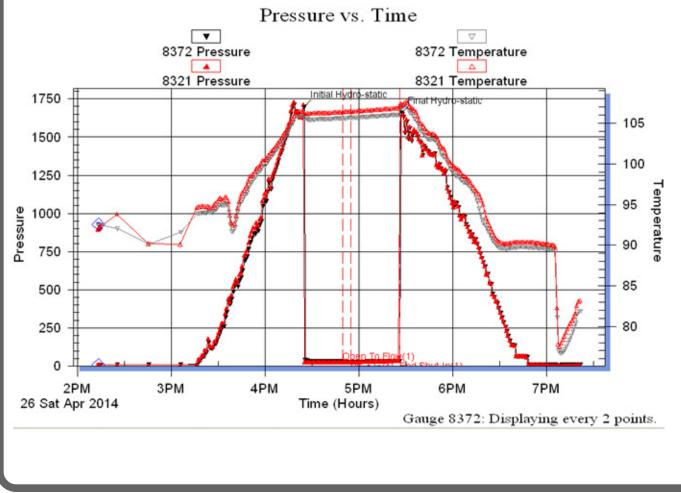
Zone Tested: Lansing Times: 30-30 Pulled Tool

Blow Description: IFP: Weak surface blow dead in 15 min. ISI: No Blow FFP: Pulled Tool FSI: Pulled Tool

Rec: 5 Feet of M Rec. Total: 3', BHT: 106 Gravity: N/C

Initial Hydrostatic: 1200 First Initial Flow: 26 First Final Flow: 29 Initial Shut-In: 34

Second Initial Flow: Pulled Second Final Flow: Pulled Final Shut-In: Pulled Final Hydrostatic: Pulled



Well Name & No.: Sack #1 Company: Hess Oil Company Test No.: 3 Interval Tested: 3474-3520

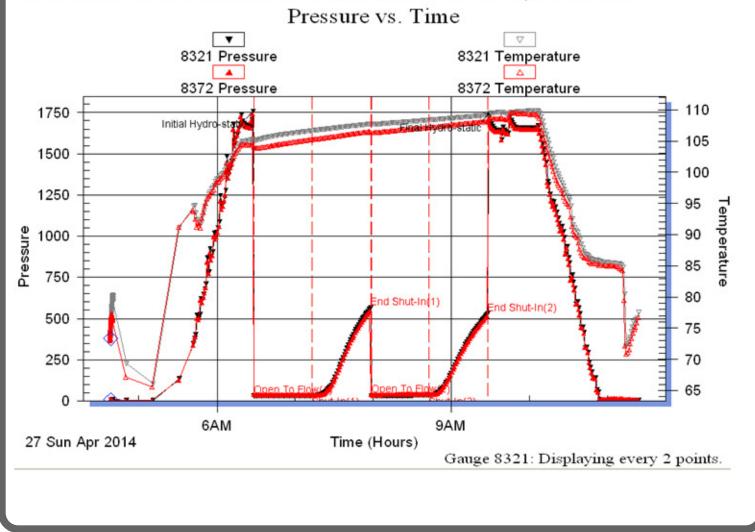
Zone Tested: LKC Times: 45-45-45-45

Blow Description: IFP: Surface Blow ISI: No Blow FFP: No Blow FSI: No Blow

Rec: 5 Feet of M Rec. Total: 5', BHT: 109 Gravity: N/C

Initial Hydrostatic: 1759 First Initial Flow: 31 First Final Flow: 33 Initial Shut-In: 567

Second Initial Flow: 33 Second Final Flow: 34 Final Shut-In: 529 Final Hydrostatic: 1738



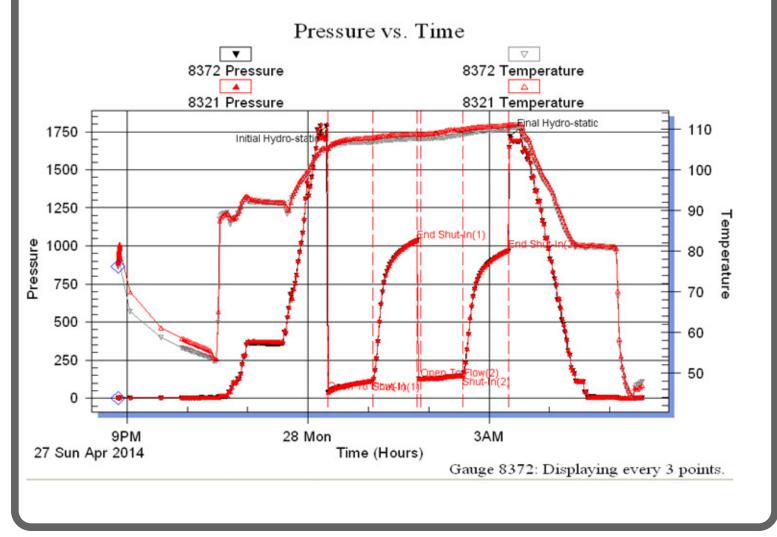
Well Name & No.: Sack #1 Company: Hess Oil Company Test No.: 4 Interval Tested: 3539 - 3604 Zone Tested: LKC Times: 45-45-45-45

Blow Description: IFP: BOB in 20 min. ISI: No Blow FFP: BOB in min. FSI: No Blow

Rec: 300 Feet of MCO, 70% Oil, 30% Mud Rec. Total: 300', BHT: 110 Gravity: N/C

Initial Hydrostatic: 1787 First Initial Flow: 38 First Final Flow: 112 Initial Shut-In: 1034

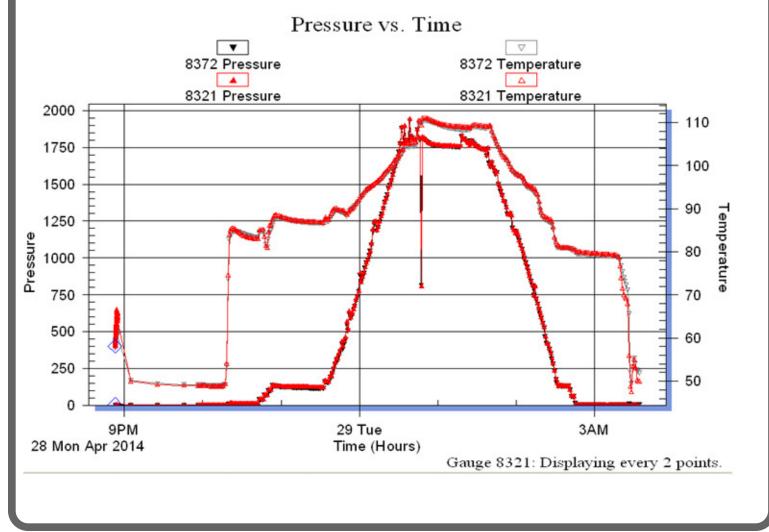
Second Initial Flow: 124 Second Final Flow: 146 Final Shut-In: 967 Final Hydrostatic: 1718



Well Name & No.: Sack #1 Company: Hess Oil Company Test No.: 5 Interval Tested: 3698 - 3710 Zone Tested: Marmaton Times: Miss Run (Packer Failure) Blow Description: IFP: ISI: FFP: FSI: Rec: 200 Feet of M, 1000% Mud Rec. Total: 200°, BHT: N/C Gravity: N/C

Initial Hydrostatic: First Initial Flow: First Final Flow: Initial Shut-In:

Second Initial Flow: Second Final Flow: Final Shut-In: Final Hydrostatic:



Well Name & No.: Sack #1 Company: Hess Oil Company Test No.: 6 Interval Tested: 3655 - 3710

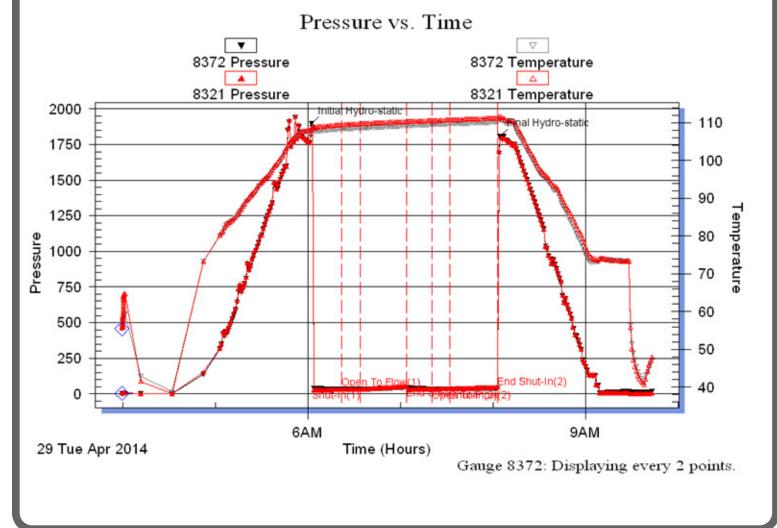
Zone Tested: Marmaton Times: 30-30-30-30

Blow Description: IFP: Surface Blow ISI: No Blow FFP: BOB in min. FSI: No Blow

Rec: 5 Feet of M, 100% Mud Rec. Total: 5', BHT: 110 Gravity: N/C

Initial Hydrostatic: 1896 First Initial Flow: 34 First Final Flow: 34 Initial Shut-In: 47

Second Initial Flow: 35 Second Final Flow: 35 Final Shut-In: 41 Final Hydrostatic: 1808



Well Name & No.: Sack #1 Company: Hess Oil Company Test No.: 7 Interval Tested: 3722-3760

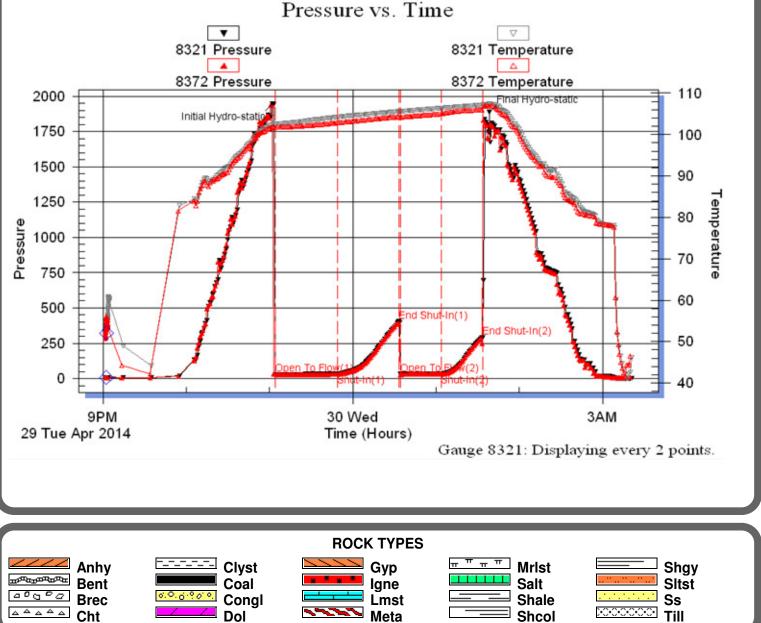
Zone Tested: Cong. Times: 45-45-30-30

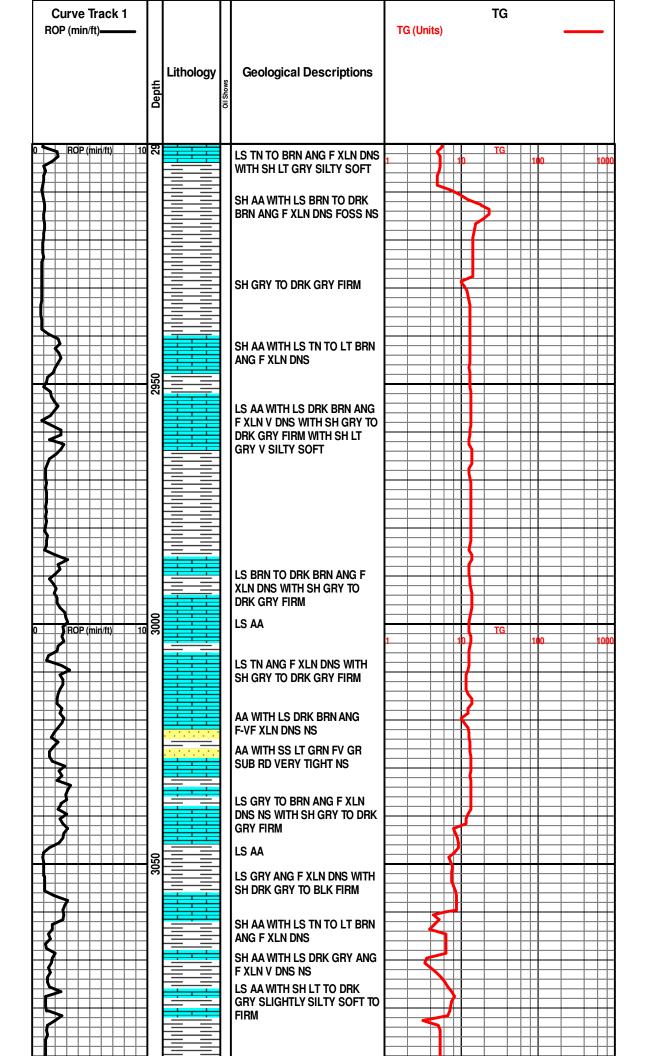
Blow Description: IFP: Surface Blow ISI: No Blow FFP: BOB in min. FSI: No Blow

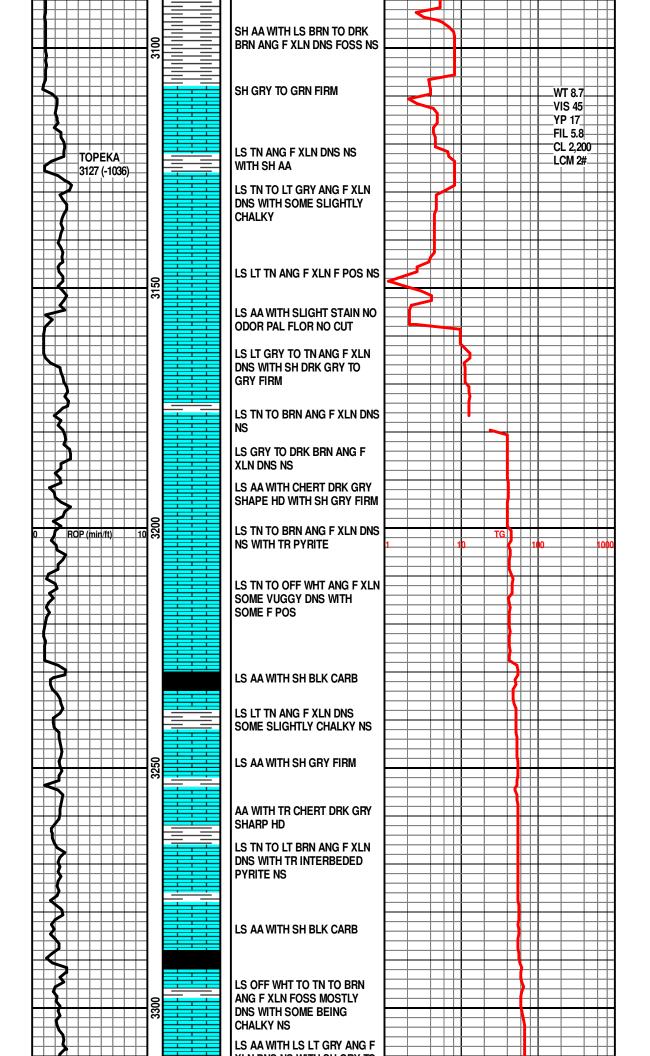
Rec: 5 Feet of MCO, 100% Mud Rec. Total: 5', BHT: 107 Gravity: N/C

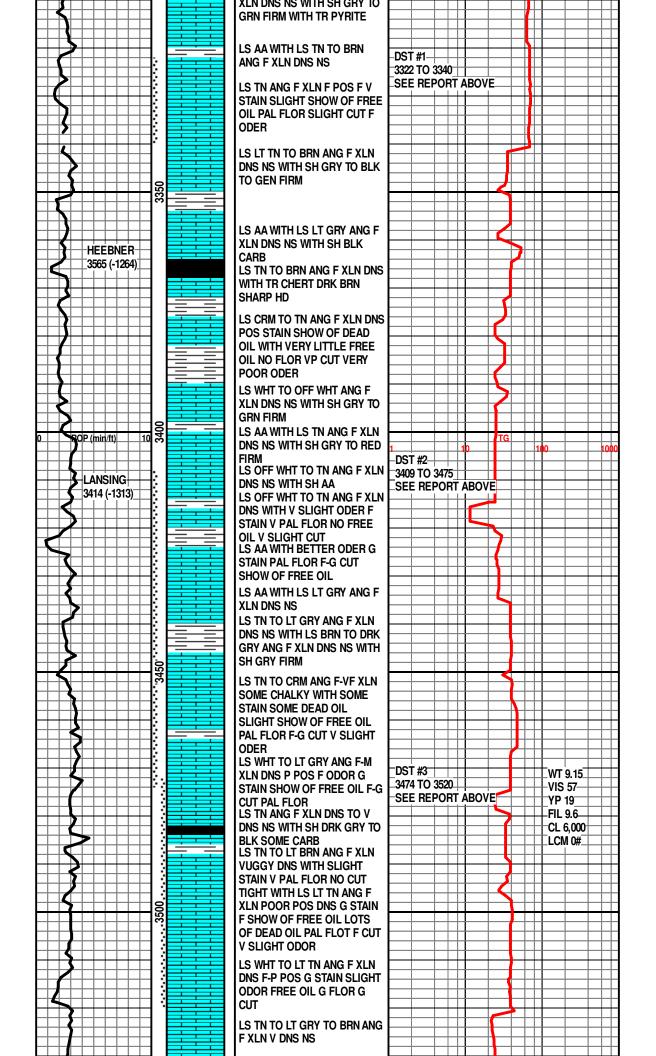
Initial Hydrostatic: 1947 First Initial Flow: 30 First Final Flow: 33 Initial Shut-In: 405

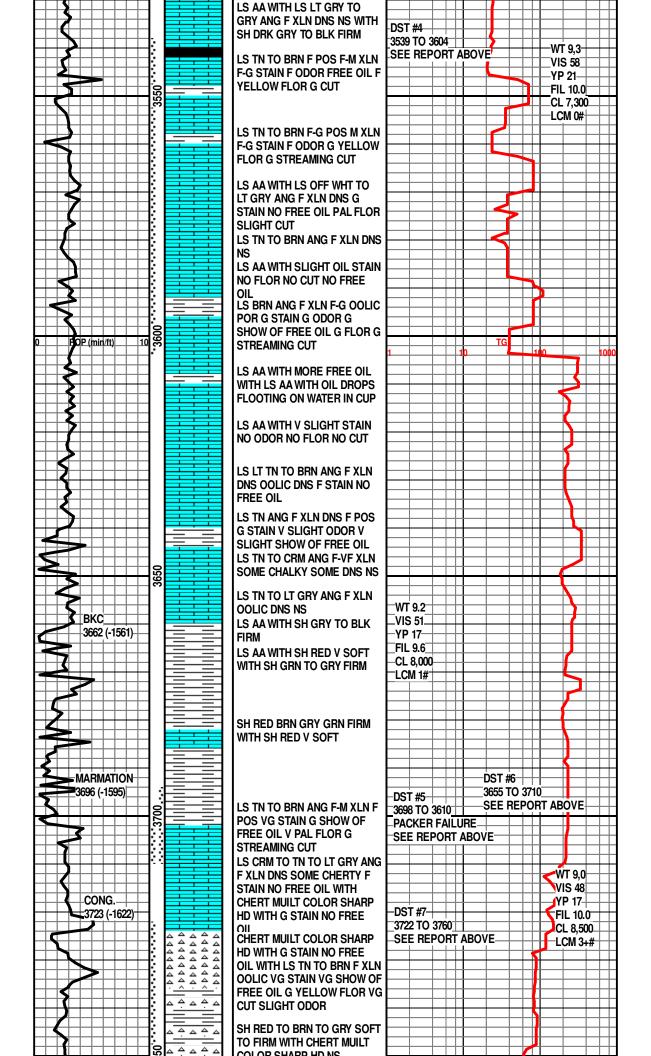
Second Initial Flow: 33 Second Final Flow: 33 Final Shut-In: 293 Final Hydrostatic: 1886

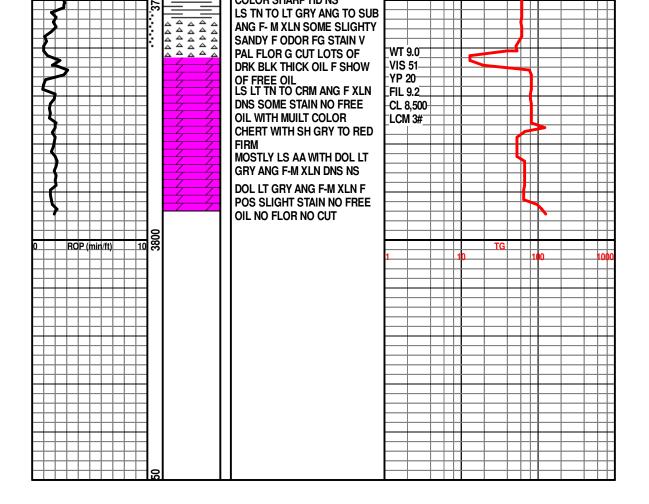












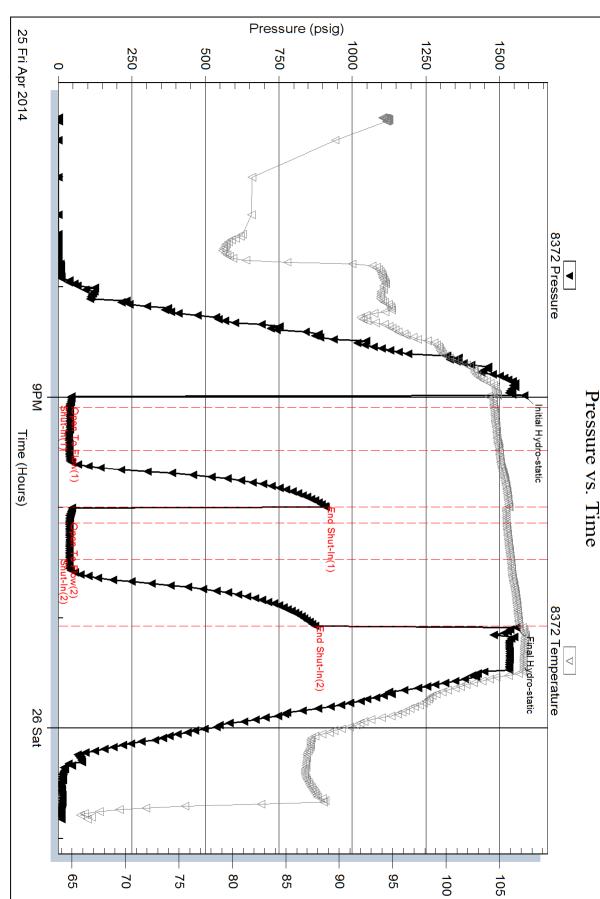
	DRILL STEM TES	ST REP	ORT			
RILOBITE	Hess Oil Company		27-13	S-19W EII	is, KS	
ESTING , INC	TO BOX TOOD		Sack	#1		
	McPherson, KS 67460		Job Ticket: 58763 DST#			#:1
	ATTN: David Gould		Test St	tart: 2014.04	4.25 @ 18:27:5 [,]	1
GENERAL INFORMATION:						
Formation:LaComptonDeviated:NoWhipstock:Time Tool Opened:21:05:21Time Test Ended:00:49:51	ft (KB)		Test Ty Tester: Unit No	: Brann	entional Bottom an L	Hole (Initial)
Interval:3322.00 ft (KB) To33Total Depth:3340.00 ft (KB) (THole Diameter:7.88 inches Hole			Refere	ence Elevation KB to GR/	2096.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8372InsidePress@RunDepth:37.79 psigStart Date:2014.04.25Start Time:18:27:52TEST COMMENT:30- IF- No blow30- ISI- No blow30- ISI- No blow30- FF- No blow30- FF- No blow	@ 3323.00 ft (KB) End Date: End Time:	2014.04.26 00:49:51	Capacity: Last Calib.: Time On Btm Time Off Btn		8000. 2014.04. 04.25 @ 20:58: 04.25 @ 23:05:	51
30- FSI- No blow 30- FSI- No blow Pressure vs.		Time		SSURE S	UMMARY	
		(Min.) 0 7 30	(psig) (c 1584.92 1 37.91 1 38.04 1	deg F) 104.79 Initia 104.42 Ope 104.94 Shut	l Hydro-static n To Flow (1) t-ln(1)	
		61 70		105.86 End 105.61 Ope	n To Flow (2)	
		90 126 127	873.52 1		t-In(2) Shut-In(2) I Hydro-static	
994 25 Fri Apr 2014 Time (Hours)	28 Sal					
Recovery				Gas Ra	1	· · · · · · · · · · · · · · · · · · ·
Length (ft) Description 3.00 M w / oil spots	Volume (bbl) 0.01			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

(Th-		DRI	ILL STEM TEST	REPOR	Г		FLUID S	UMMARY
	RILOBITE	Hess C	Oil Company		27-13S-19	W Ellis, KS		
	ESTING , INC.	PO Box McPhe	x 1009 erson, KS 67460		Sack #1 Job Ticket: 5	8763	DST#:1	
		ATTN: David Gould				2014.04.25 @ 18		
Mud and Cu	ushion Information							
	el Chem		Cushion Type:			Oil A PI:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity:	45.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	5.80 in ³		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressur	e:	psig			
Salinity: Filter Cake:	2200.00 ppm inches							
Recovery In	nformation							
			Recovery Table			_		
	Lengt ft	h	Description		Volume bbl			
		3.00	Mw/oil spots		0.015	5		
	Total Length:	3	3.00 ft Total Volume:	0.015 bbl				
	Recovery Com	nents:						

Printed: 2014.04.26 @ 06:46:08

Ref. No: 58763

Trilobite Testing, Inc



Temperature (deg F)

Sack #1

DST Test Number: 1

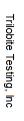
Serial #: 8372 Inside Hess Oil Company

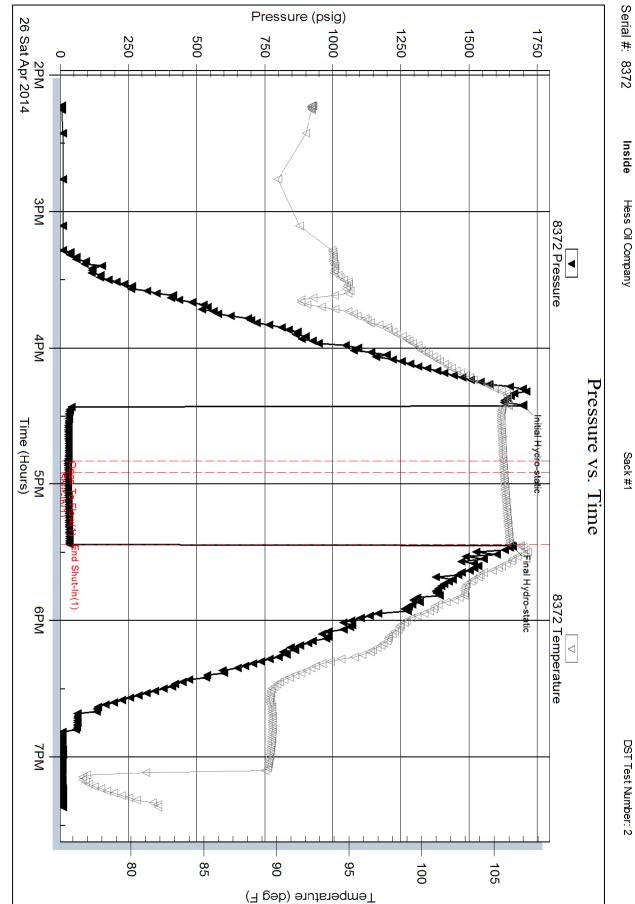
	DRILL STEM TES	ST REPORT
RILOBITE	Hess Oil Company	27-13S-19W Ellis, KS
ESTING , INC	PO Box 1009 McPherson, KS 67460	Sack #1 Job Ticket: 58764 DST#: 2
	ATTN: David Gould	Test Start: 2014.04.26 @ 14:13:22
GENERAL INFORMATION:		
Formation:LansingDeviated:NoWhipstock:Time Tool Opened:16:49:52Time Test Ended:19:21:52	ft (KB)	Test Type:Conventional Bottom Hole (Reset)Tester:Brannan LUnit No:48
Interval:3409.00 ft (KB) To34Total Depth:3475.00 ft (KB) (TVHole Diameter:7.88 inches Hole	(D)	Reference Elevations: 2101.00 ft (KB) 2096.00 ft (CF) KB to GR/CF: 5.00 ft
Serial #: 8372InsidePress@RunDepth:29.14 psigStart Date:2014.04.26Start Time:14:13:23TEST COMMENT:30- IF- Weak surf 30- ISI- No blow	End Date: End Time:	Capacity: 8000.00 psig 2014.04.26 Last Calib.: 2014.04.26 19:21:52 Time On Btm: 2014.04.26 @ 16:25:22 Time Off Btm: 2014.04.26 @ 17:27:22
Pulled tool Pressure vs. TS 832 Pressure	me ₹72 Ionemiue	PRESSURE SUMMARY Time Pressure Temp Annotation
1750 1950	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(Min.) (psig) (deg F) 0 1699.70 105.98 Initial Hydro-static 25 25.77 105.60 Open To Flow (1) 30 29.14 105.66 Shut-In(1) 61 33.93 106.05 End Shut-In(1)
Recovery Length (ft) Description	Volume (bbl)	Gas Rates Choke (inches) Pressure (psig) Gas Rate (Mcf/d)
5.00 M	Volume (bbi) 0.02	Criore (Incres) Pressure (psig) Gas Rate (Mictrd)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 58764	Printed: 2014.04.26 @ 22:40:24

		RILL S	TEM TEST R	EPORT	-		FLUID S	UMMARY
HILUD	ITE	ss Oil Comp	any		27-13S-19	W Ellis, KS		
I EST		PO Box 1009 McPherson, KS 67460 ATTN: David Gould			Sack #1 Job Ticket: 5	8764	DST#:2	
	AT					2014.04.26 @		
Mud and Cushion Info	ormation							
Mud Type: Gel Chem	mation		Cushion Type:			Oil A PI:		deg API
Mud Weight: 9.00 lk	o/gal		Cushion Length:		ft	Water Salinity	<i>ı</i> :	ppm
Viscosity: 57.00 s			Cushion Volume:		bbl			
Water Loss: 9.59 ir Resistivity: c	n³ ohm.m		Gas Cushion Type: Gas Cushion Pressure:		psig			
Salinity: 6000.00 p					polg			
	nches							
Recovery Information								
			Recovery Table			-		
	Length ft		Description		Volume bbl			
	5.0	0 M			0.025	5		
Tot	al Length:	5.00 ft	Total Volume:	0.025 bbl				
	m Fluid Samples: ()	Num Gas Bombs:	0	Serial #	:		
	boratory Name: covery Comments		Laboratory Location	1:				
Trilobite Testing, Inc.		Ref. No:				· 2014 04 26		

Printed: 2014.04.26 @ 22:40:25

Ref. No: 58764





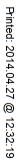
Sack #1

Inside

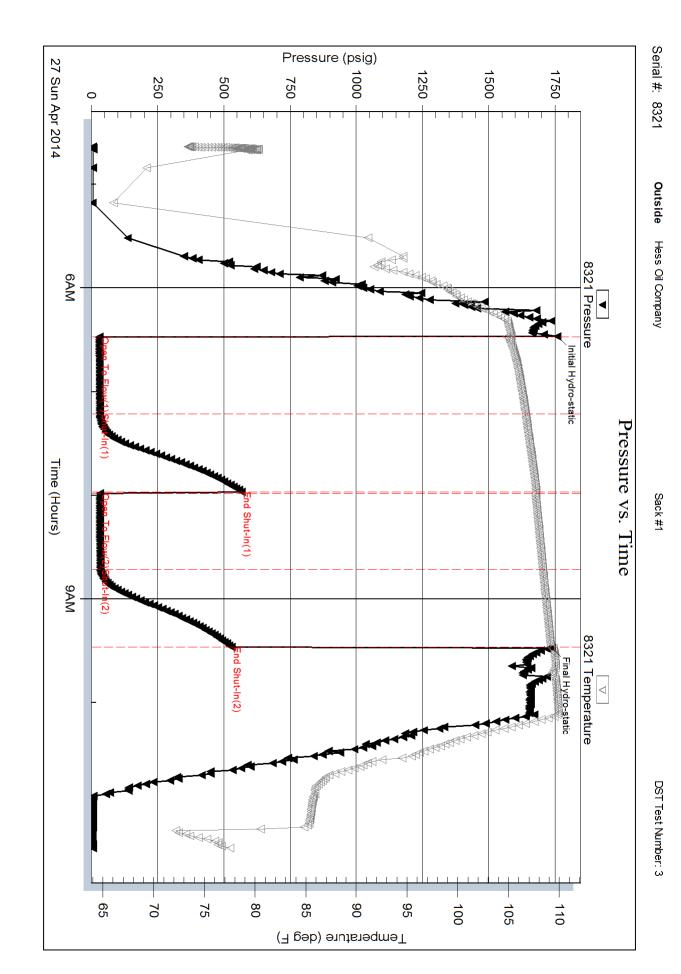
DST Test Number: 2

	DRILL STEM TES	ST REP	ORT		
RILOBITE	Hess Oil Company		27-13S-1	9W Ellis, h	<s< td=""></s<>
ESTING , INC.	PO Box 1009		Sack #1		
	McPherson, KS 67460		Job Ticket	58765	DST#:3
	ATTN: David Gould		Test Start:	2014.04.27	@ 04:38:21
GENERAL INFORMATION:					
Formation:LKCDeviated:NoWhipstock:Time Tool Opened:06:28:21Time Test Ended:11:24:21	ft (KB)		Test Type: Tester: Unit No:	Conventior Brannan L 48	nal Bottom Hole (Reset)
Interval:3474.00 ft (KB) To35Total Depth:3520.00 ft (KB) (T\Hole Diameter:7.88 inchesHole	/D)			Elevations:	2101.00 ft (KB) 2096.00 ft (CF) 5.00 ft
Serial #: 8321 Outside					
Press@RunDepth: 33.97 psig		2014.04.27	Capacity: Last Calib.:		8000.00 psig
Start Date: 2014.04.27 Start Time: 04:38:22					2014.04.27 7 @ 06:27:51
		11:24:21	Time On Btm: Time Off Btm:		7 @ 09:28:21
45- FF- No blow 45- FSI- No blow Pressure vs. T			PRESS		MARY
1750	Temperature Francisco Francisco Francisco Francisco Francisco Francisco	Time (Min.)	Pressure Tem		tion
		(1/11.)	(psig) (deg 1759.06 105.		dro-static
	100	1 45	31.17 104. 32.51 106.		
		90	566.66 107.	72 End Shut	-ln(1)
		91 135		.61 Open To .36 Shut-In(2	
750		180	528.85 109.		
27 San Ayr 2014	10 10 10 10 10 10 10 10 10 10	[*] 181	1737.73 109.	40 Final Hyd	Iro-static
Recovery				Gas Rates	
Length (ft) Description	Volume (bbl)		Cho	oke (inches) Pres	sure (psig) Gas Rate (Mcf/d)
5.00 M	0.02				
* Recovery from multiple tests					
Trilobite Testing, Inc	Ref. No: 58765		Print	ed: 2014.04.2	7 @ 12:32:18

	DRILL STEM TES	T REPO	ORT		
RILOBITE	Hess Oil Company		27-13S-19	W Ellis, K	S
ESTING , INC.	PO Box 1009 McPherson, KS 67460		Sack #1		
			Job Ticket:		DST#: 3
	ATTN: David Gould		Test Start:	2014.04.27 @	2 04:38:21
GENERAL INFORMATION:					
Formation:LKCDeviated:NoWhipstock:Time Tool Opened:06:28:21Time Test Ended:11:24:21	ft (KB)		Test Type: Tester: Unit No:	Conventiona Brannan L 48	al Bottom Hole (Reset)
Interval:3474.00 ft (KB) To35Total Depth:3520.00 ft (KB) (TvHole Diameter:7.88 inches Hole	′D)		Reference I	Elevations: 3 to GR/CF:	2101.00 ft (KB) 2096.00 ft (CF) 5.00 ft
Serial #: 8372 Inside					
Press@RunDepth:psigStart Date:2014.04.27Start Time:04:37:43	@ 3475.00 ft (KB) End Date: End Time:	2014.04.27 11:23:42	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2014.04.27
Pressure vs. T: 8372 Pressure 1750 1750 1750	inne 8372 Tempendure	Time (Min.)	Pressure Temp		
-		(Min.)		Annotatio	
27 San Agr 2014 Time (Huss) Recovery	944			as Rates	
Length (ft) Description	Volume (bbl)				ure (psig) Gas Rate (Mcf/
5.00 M	0.02		I		
* Recovery from multiple tests					

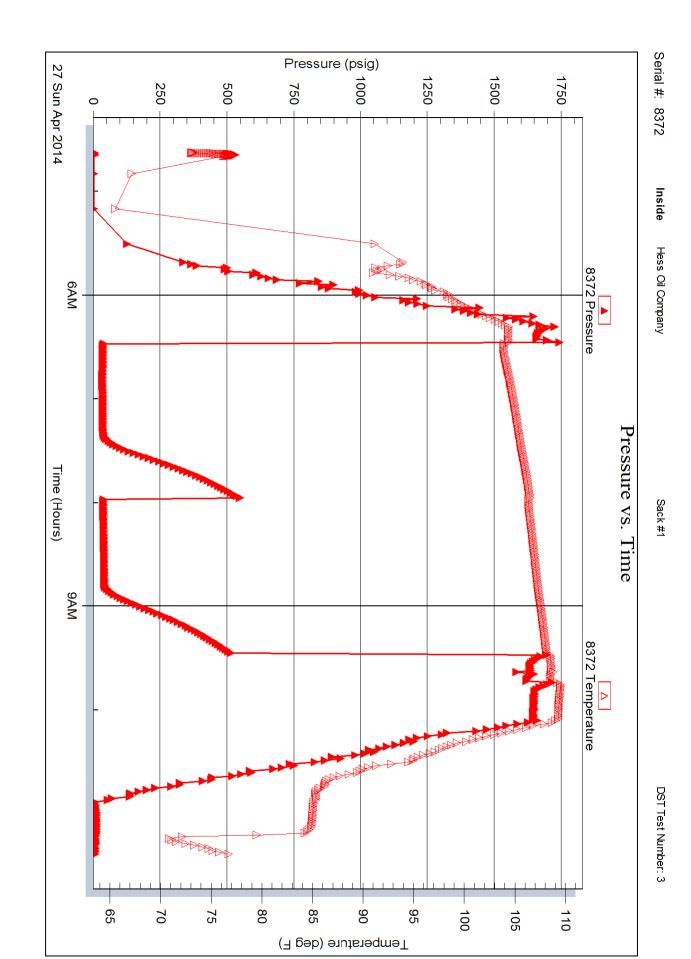


Ref. No: 58765





Ref. No: 58765



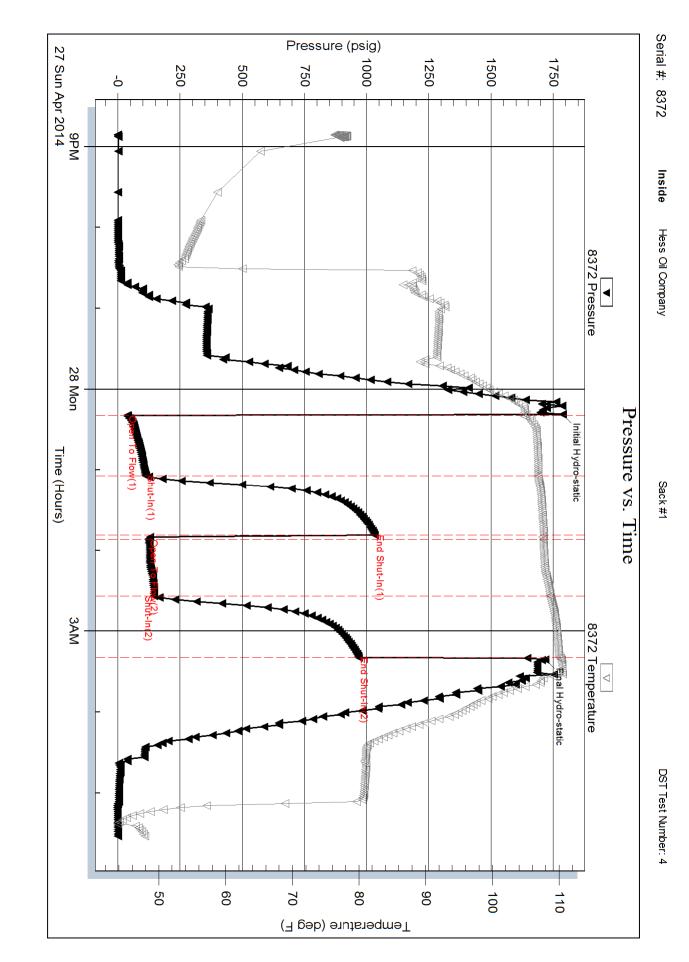
	DRILL STEM TES	TREP	ORT			
RILOBITE	Hess Oil Company		27-13S-1	9W Ellis, KS		
ESTING , INC	PO Box 1009 McPherson, KS 67460		Sack #1 Job Ticket: 58766 DST#:4			
	ATTN: David Gould			2014.04.27 @ 20:51:00		
GENERAL INFORMATION:						
Formation:LKCDeviated:NoWhipstock:Time Tool Opened:00:19:30Time Test Ended:05:32:00	ft (KB)		Test Type: Tester: Unit No:	Conventional Bottom Hole (Reset) Brannan L 48		
Interval: 3539.00 ft (KB) To 36 Total Depth: 3604.00 ft (KB) (TV 100 Hole Diameter: 7.88 inchesHole 100	/D)			Elevations: 2101.00 ft (KB) 2096.00 ft (CF) (B to GR/CF: 5.00 ft		
Serial #: 8372 Inside						
Press@RunDepth:145.72 psigStart Date:2014.04.27Start Time:20:51:01	2540.00 ft (KB)End Date:End Time:	2014.04.28 05:32:00	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 psig 2014.04.28 2014.04.28 @ 00:18:30 2014.04.28 @ 03:21:00		
TEST COMMENT: 45- IF- BOB 20mi 45- ISI- No blow 45- FF- BOB 20m 45- FSI- No blow						
Pressure vs. T T 832 Pressure	ITTE 8372 Tempenture			URE SUMMARY		
1750	Bold inposed 10 10 10 10 10 10 10 10 10 10	Time (Min.) 0 1 46 90 94 136 181 183	112.09 106. 1033.58 107.	 F) Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2) 		
Recovery				Gas Rates		
Length (ft) Description 300.00 MCO, 30%M70%O	Volume (bbl) 1.93		Cho	ke (inches) Pressure (psig) Gas Rate (Mct/d)		
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 58766		Printe	ed: 2014.04.28 @ 06:52:37		

RILOBITE		DRI	LL STEM TEST	-	FLUID SUMMARY			
	ODITL	Hess C	Dil Company		27-13S-19	W Ellis, KS		
	STING , INC.	PO Box 1009 McPherson, KS 67460 ATTN: David Gould			Sack #1 Job Ticket: 5	8766	DST#:4	
						014.04.27 @ 2	0:51:00	
Mud and Cushion	Information							
Viscosity: 58 Nater Loss: 9 Resistivity:	9.00 lb/gal 8.00 sec/qt 9.99 in ³ ohm.m 9.00 ppm inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressu	re:	ft bbl psig	Oil API: Water Salinity:		deg API ppm
Recovery Informa	tion							
	·	_	Recovery Table			1		
	Leng ft	th	Description		Volume bbl			
		300.00	MCO, 30%M 70%O		1.930)		
	Total Length:	300.	.00 ft Total Volume:	1.930 bbl				

Printed: 2014.04.28 @ 06:52:38

Ref. No: 58766



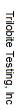


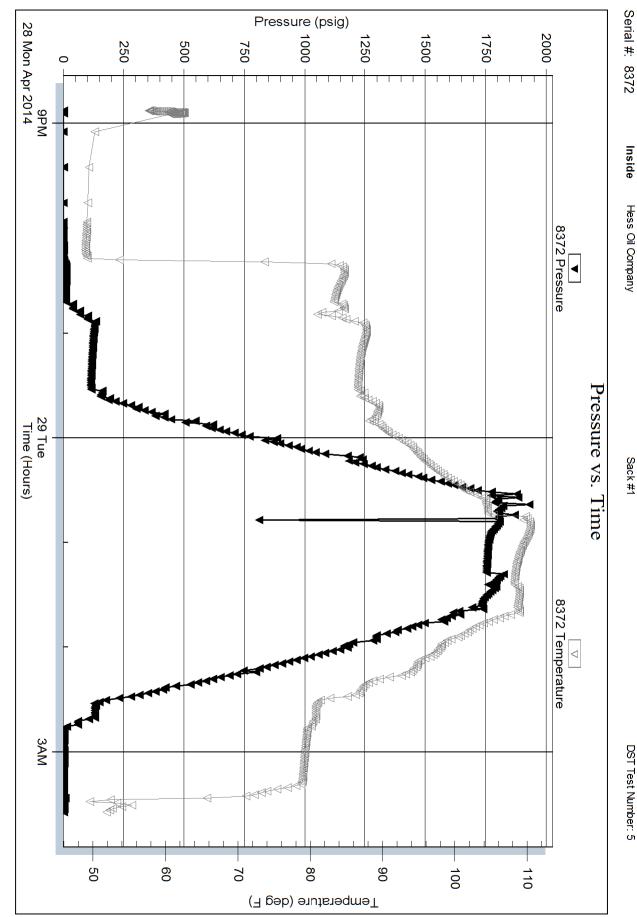
	DRILL STEM TES	T REPO	RT	
RILOBITE	Hess Oil Company		27-13S-19W	Ellis, KS
ESTING , INC.	PO Box 1009 McPherson, KS 67460		Sack #1	~7 DOT # F
	ATTN: David Gould		Job Ticket: 5876 Test Start: 2014	67 DST#:5 4.04.25 @ 18:27:51
GENERAL INFORMATION:				
Formation: Marmaton Deviated: No Whipstock: Time Tool Opened: Time Test Ended:	ft (KB)			nventional Bottom Hole (Reset) annan L
Interval:3698.00 ft (KB) To37Total Depth:3710.00 ft (KB) (TvHole Diameter:7.88 inches Hole	′D)		Reference Eleva	ations: 2101.00 ft (KB) 2096.00 ft (CF) GR/CF: 5.00 ft
Serial #: 8372InsidePress@RunDepth:psigStart Date:2014.04.28Start Time:20:52:45	@ 3699.00 ft (KB) End Date: End Time:	2014.04.29	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 psig 2014.04.29
2000 Fressure vs. T 8372 Pressure	ime 8372 Tonpaske - 110	Time F (Min.)		SUMMARY Annotation
1759 1759	Timpereum (Gerg 7)			
Recovery				Rates
Length (ft) Description 200.00 M	Volume (bbl) 0.98		Choke (inch	nes) Pressure (psig) Gas Rate (Mcf/d
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 58767		Drintod: 20	014.04.29 @ 07:01:33

	ILOBITE	DRI	LL STEM TEST REPOR	FLU	FLUID SUMMARY	
		Hess (Dil Company	27-13S-19	W Ellis, KS	
	ESTING , INC.	1000	x 1009 Jrson, KS 67460	Sack #1 Job Ticket:	58767 DS	T#:5
		ATTN:	David Gould		2014.04.25 @ 18:27:	
Mud and Cushic	on Information					
Water Loss: Resistivity:	em 9.00 lb/gal 51.00 sec/qt 9.59 in ³ ohm.m 00.00 ppm inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil A PI: Water Salinity:	deg API ppm
Recovery Inforn	nation					
	Leng	th	Recovery Table Description	Volume bbl	7	
		200.00	M	0.98	4	
	Total Length:	200	0.00 ft Total Volume: 0.984 b	bl		

Printed: 2014.04.29 @ 07:01:33

Ref. No: 58767





DST Test Number: 5

Serial #: 8372 Inside Hess Oil Company

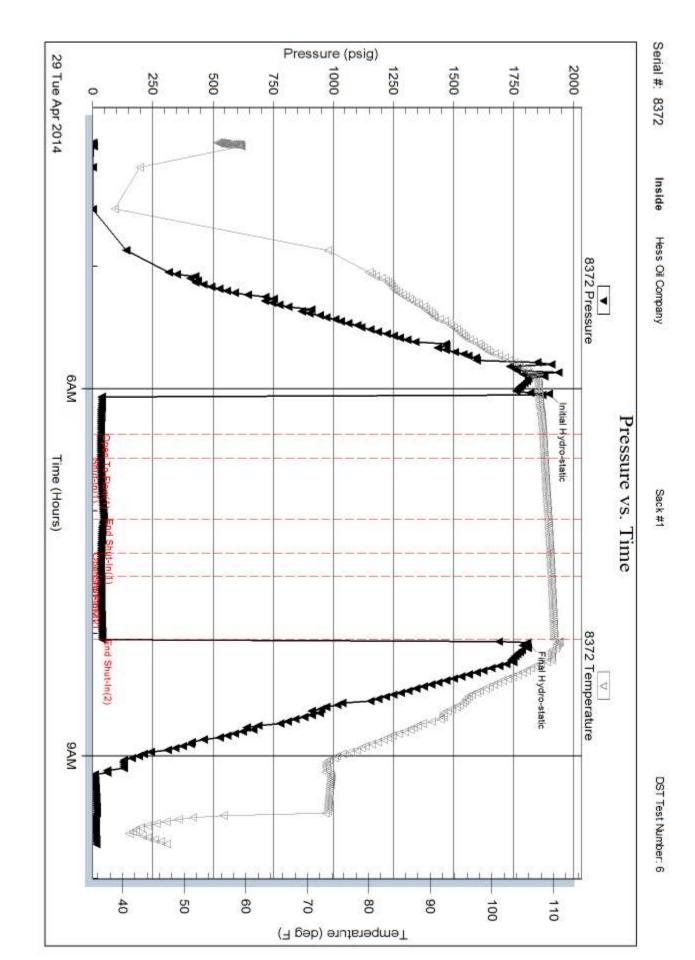
	DRILL STEM TES	T REP	ORT	
TRILOBITE	Hess Oil Company		27-13S	-19W Ellis, KS
ESTING , INC			Sack #	t 1
	McPherson, KS 67460		Job Tick	et: 58768 DST#:6
MOR.	ATTN: David Gould		Test Sta	rt: 2014.04.29 @ 03:59:26
GENERAL INFORMATION:				
Formation:MarmatonDeviated:NoWhipstock:Time Tool Openet:06:21:55Time Test Ended:09:43:25	ft (KB)		Test Typ Tester: Unit No:	be: Conventional Bottom Hole (Reset) Brannan L 48
Interval: 3655.00 ft (KB) To 37			Referen	ce Elevations: 2101.00 ft (KB)
Total Depth:3710.00 ft (KB) (The Diameter:Hole Diameter:7.88 inchesHole	√D) e Condition: Fair			2096.00 ft (CF) KB to GR/CF: 5.00 ft
Serial #: 8372 Inside				
Press@RunDepth: 35.45 psig	@ 3656.00 ft (KB)		Capacity:	8000.00 psig
Start Date: 2014.04.29	End Date:	2014.04.29	Last Calib.:	2014.04.29
Start Time: 03:59:27	End Time:	09:43:26	Time On Btm: Time Off Btm:	0
30- ISI- No blow 30- FF- No blow 30- FSI- No blow Pressure vs. 1		1		
T 8372 Pessure	.`TTTLC 	Timo		SURE SUMMARY
200 170 170 170 170 170 170 170 1		Time (Min.) 0 20 32 62 78 90 121 122	(psig) (de 1896.36 10 34.49 10 34.08 10 46.89 10 35.45 10 40.84 11	Annotationeg F)07.61Initial Hydro-static08.30Open To Flow (1)08.52Shut-In(1)09.13End Shut-In(1)09.46Open To Flow (2)09.65Shut-In(2)10.14End Shut-In(2)10.82Final Hydro-static
Recovery				Gas Rates
Length (ft) Description 5.00 M	Volume (bbl) 0.02		(Choke (inches) Pressure (psig) Gas Rate (Mcf/d)
	0.02			
* Recovery from multiple tests				
Trilobite Testing, Inc	Ref. No: 58768	1	Pri	inted: 2014.04.29 @ 10:12:00

	RILOBITE	DRILL STEM TEST REPORT						FLUID SUMMARY		
		Hess Oil Company				27-13S-19W Ellis, KS				
		PO Box 1009 McPherson, KS 67460				Sack #1	58768	DST#:6		
		ATTN: David Gould				Test Start: 2014.04.29 @ 03:59:26				
Mud and C	ushion Information									
	Gel Chem 9.00 lb/gal 51.00 sec/qt 9.59 in ³ ohm.m 8000.00 ppm inches			Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure	9:	ft bbl psig	Oil API: Water Salinity	r:	deg API ppm	
Recovery Ir										
necercity in			F	Recovery Table						
	Lengt	h		Description		Volume bbl]			
		5.00	М			0.02	5			
	Total Length:	5	.00 ft	Total Volume:	0.025 bbl					
	Laboratory Nam Recovery Com			Laboratory Locatio						
	sting Inc		ef No: !				d: 2014 04 29 6			

Printed: 2014.04.29 @ 10:12:01

Ref. No: 58768





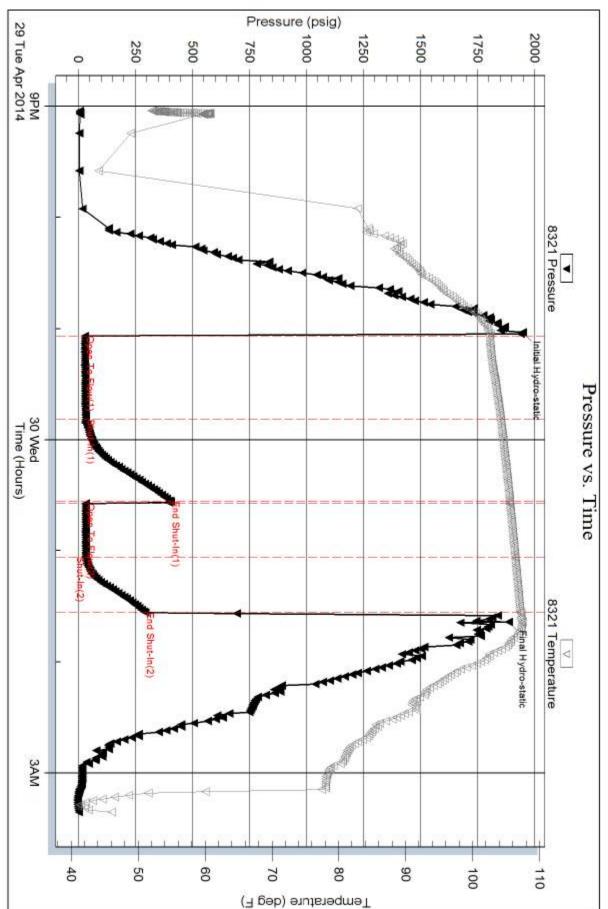
	DRILL STEM TEST REPORT						
RILOBITE	Hess Oil Company	27-13S-19W Ellis, KS					
ESTING , INC			Sack #	1			
	McPherson, KS 67460	Job Ticket: 58769			DST#: 7		
	ATTN: David Gould		Test Start: 2014.04.29 @ 21:02:26				
GENERAL INFORMATION:							
Formation:Cong.Deviated:NoWhipstock:Time Tool Opened:23:03:5Time Test Ended:03:20:5	Test Type:Conventional Bottom Hole (Reset)Tester:Brannan LUnit No:48						
Interval:3722.00 ft (KB) To37Total Depth:3760.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Referenc	e Elevations: KB to GR/CF:	2101.00 ft (KB) 2096.00 ft (CF) 5.00 ft		
Serial #: 8321OutsidePress@RunDepth:33.21 psigStart Date:2014.04.29Start Time:21:02:27TEST COMMENT:45- IF- Surface to 45- ISI- No blow 30- FF- No blow 30- FSI- No blow	End Date: End Time:	2014.04.30 03:20:56	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2014.04.30 9 @ 23:01:56 9 @ 01:38:26		
		1					
Pressure vs. T	inne ∑ 8321 Tempenture ↓ 110	Time		SURE SUM			
200 175 175 175 175 175 175 175 175		(Min.) 0 2 47 92 93 122 152 157	(psig) (de 1947.32 10 30.32 10 32.61 10 405.07 10 32.79 10 33.21 10 293.08 10	g F) 2.44 Initial Hyd 2.48 Open To 4.19 Shut-In(1 5.57 End Shut 5.52 Open To 6.35 Shut-In(2 7.12 End Shut 7.47 Final Hyd	Iro-static Flow (1)) -In(1) Flow (2)) -In(2)		
Recovery	Gas Rates						
Length (ft) Description 5.00 M	Volume (bbl) 0.02		C	hoke (inches) Pres	sure (psig) Gas Rate (Mcf/d)		
* Recovery from multiple tests							
Trilobite Testing, Inc	Ref. No: 58769	1	Pri	nted: 2014.04.3	0 @ 07:56:05		

	RILOBITE ESTING , INC.	DRILL STEM TEST REPORT						FLUID SUMMARY		
		Hess Oil Company				27-13S-19W Ellis, KS				
		PO Box 1009 McPherson, KS 67460				Sack #1	58760	DST#-7		
		ATTN: David Gould				Job Ticket: 58769 DST#: 7 Test Start: 2014.04.29 @ 21:02:26				
Mud and Cus	shion Information									
	I Chem		C	Cushion Type:			Oil API:		deg API	
Mud Weight:	9.00 lb/gal		C	Cushion Length:		ft	Water Salinity	:	ppm	
Viscosity: Water Loss:	48.00 sec/qt 9.99 in³			Cushion Volume: Gas Cushion Type:		bbl				
Resistivity:	ohm.m			Gas Cushion Pressure	e:	psig				
Salinity:	8500.00 ppm					1 0				
Filter Cake:	inches									
Recovery Inf	ormation		F	Recovery Table						
	Lengt ft	h		Description		Volume bbl				
		5.00	М			0.02	5			
	Total Length:	5	.00 ft	Total Volume:	0.025 bbl					
	Laboratory Nam Recovery Comn			Laboratory Locatic	n:					

Printed: 2014.04.30 @ 07:56:05

Ref. No: 58769

Trilobite Testing, Inc



Sack #1

Serial #: 8321

Outside Hess Oil Company

DST Test Number: 7