

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1237876

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:	SecTwpS. R		
Address 2:	Feet from North / South Line of Section		
City: State: Zip:+	Feet from East / West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()	□NE □NW □SE □SW		
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
□ Oil □ WSW □ SHOW □ 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: Operator: Well Name:	Producing Formation: Elevation: Ground: Kelly Bushing: Feet Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt.		
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)		
□ Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:		
GSW Permit #:	Cuerter See Two S R Total West		
Spud Date or Date Reached TD Completion Date or Recompletion Date	QuarterSec. TwpS. R East West 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

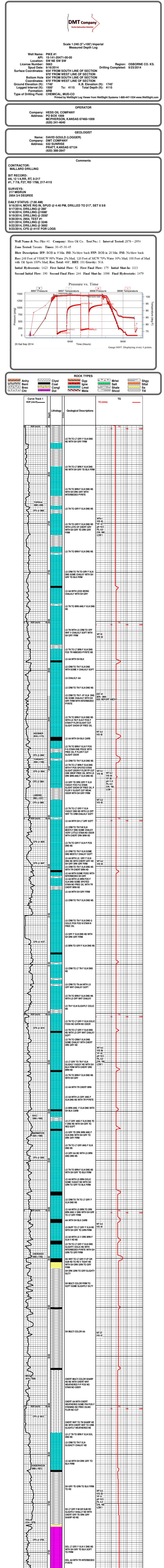


Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	Sacks Used		Type and Pe	ercent Additives	
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				y mean and small discourse			
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Pike 1
Doc ID	1237876

Tops

Name	Тор	Datum
Anhydrite	741	+1004
Base Anhydrite	773	+972
Topeka	2643	-898
Heebner	2898	-1153
Toronto	2923	-1178
Lansing	2954	-1209
Base Kansas City	3301	-1556
Marmaton	3335	-1590
Mississippi	3573	-1828
Viola	3798	-2053
Simpson Sand	4036	-2291
Arbuckle	4098	-2353
RTD	4115	-2370







DRILL STEM TEST REPORT

Hess Oil Company

18-10s-11w-Osborne Co.

DST#: 1

Pike #1

PO Box 1009

McPherson KS 67460 Job Ticket: 60516

ATTN: David Gould Test Start: 2014.09.20 @ 03:43:02

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 05:15:22 Tester: Tate Lang
Time Test Ended: 09:47:52 Unit No: 77

Interval: 2876.00 ft (KB) To 2954.00 ft (KB) (TVD) Reference Elevations: 1745.00 ft (KB)

Total Depth: 2954.00 ft (KB) (TVD) 1740.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8897 Inside

Press@RunDepth: 243.92 psig @ 2887.00 ft (KB) Capacity: 8000.00 psig

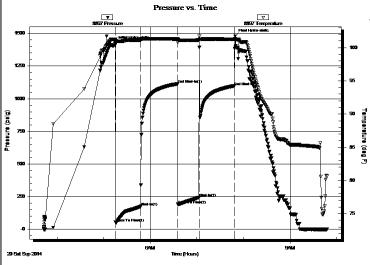
 Start Date:
 2014.09.20
 End Date:
 2014.09.20
 Last Calib.:
 2014.09.20
 2014.09.20

 Start Time:
 03:43:03
 End Time:
 09:47:52
 Time On Btm:
 2014.09.20 @ 05:15:12

 Time Off Btm:
 2014.09.20 @ 07:49:32

TEST COMMENT: 30-B.O.B. in 9 mins

45-Dead no blow back 30-B.O.B. in 20 mins 45-Dead no blow back



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1422.62	101.22	Initial Hydro-static
	1	51.99	100.52	Open To Flow (1)
	33	174.90	101.15	Shut-In(1)
	81	1113.16	101.28	End Shut-In(1)
	81	190.09	100.76	Open To Flow (2)
	108	243.92	101.12	Shut-In(2)
,	153	1096.35	101.25	End Shut-In(2)
,	155	1478.66	101.33	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
248.00	VSMCW 2%M 98%W	1.22
120.00	MCW 30%M 70%W	1.68
100.00	Mud 100%M w ith oil spots	1.40
-		

Gas Rat	es	
Choko (inahaa)	Drocoure (poig)	Coo Roto (Mof/d)

Trilobite Testing, Inc Ref. No: 60516 Printed: 2014.09.20 @ 11:01:43



DRILL STEM TEST REPORT

Hess Oil Company

18-10s-11w-Osborne Co.

PO Box 1009

Pike #1 Job Ticket: 60516

DST#: 1

McPherson KS 67460

ATTN: David Gould

Test Start: 2014.09.20 @ 03:43:02

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 05:15:22 Tester: Tate Lang Time Test Ended: 09:47:52 Unit No: 77

Interval: 2876.00 ft (KB) To 2954.00 ft (KB) (TVD) Reference Elevations: 1745.00 ft (KB)

Total Depth: 2954.00 ft (KB) (TVD) 1740.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

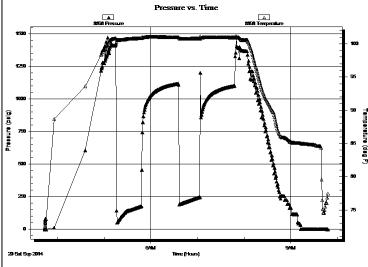
Press@RunDepth: 2887.00 ft (KB) 8000.00 psig psig @ Capacity:

Start Date: 2014.09.20 End Date: 2014.09.20 Last Calib.: 2014.09.20

Start Time: 03:43:39 End Time: Time On Btm: 09:48:18 Time Off Btm:

TEST COMMENT: 30-B.O.B. in 9 mins

45-Dead no blow back 30-B.O.B. in 20 mins 45-Dead no blow back



PRESSURE SU	JMM	ARY
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Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
,				
ì				
(

Recovery

Description	Volume (bbl)
VSMCW 2%M 98%W	1.22
MCW 30%M 70%W	1.68
Mud 100%M w ith oil spots	1.40
	V SMCW 2%M 98%W MCW 30%M 70%W

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 60516 Printed: 2014.09.20 @ 11:01:43



DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company

18-10s-11w-Osborne Co.

PO Box 1009

Pike #1

McPherson KS 67460

ATTN: David Gould

Job Ticket: 60516 **DST#:1**

Test Start: 2014.09.20 @ 03:43:02

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 1250 ppm

Viscosity: 43.00 sec/qt Cushion Volume: bbl

Water Loss: 6.00 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 500.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	VSMCW 2%M 98%W	1.220
120.00	MCW 30%M 70%W	1.683
100.00	Mud 100%M w ith oil spots	1.403

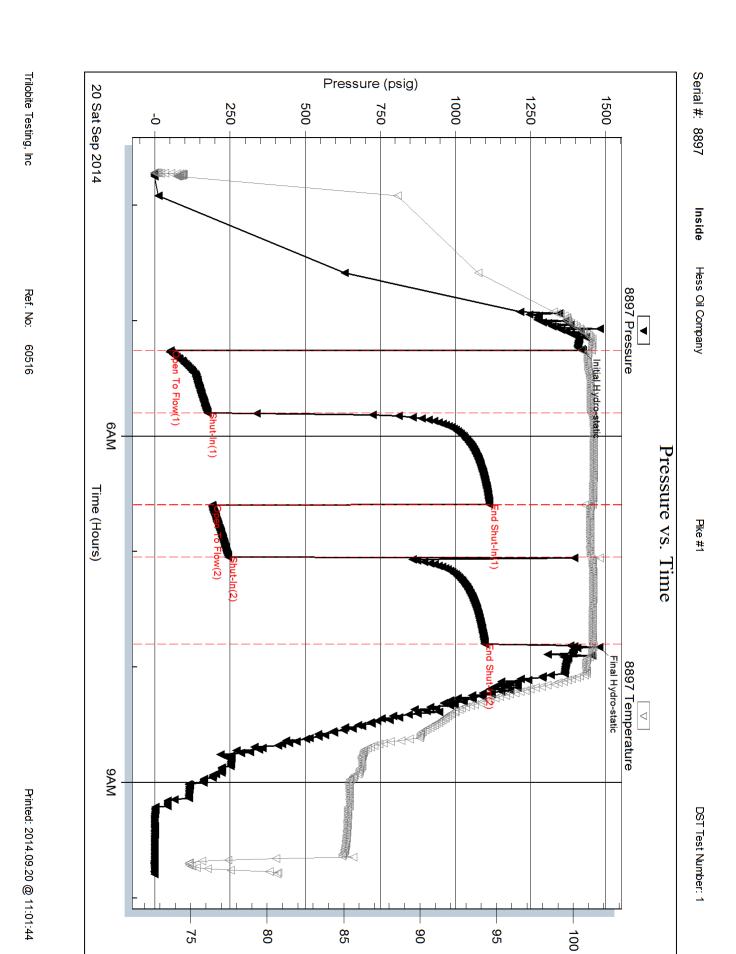
Total Length: 468.00 ft Total Volume: 4.306 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

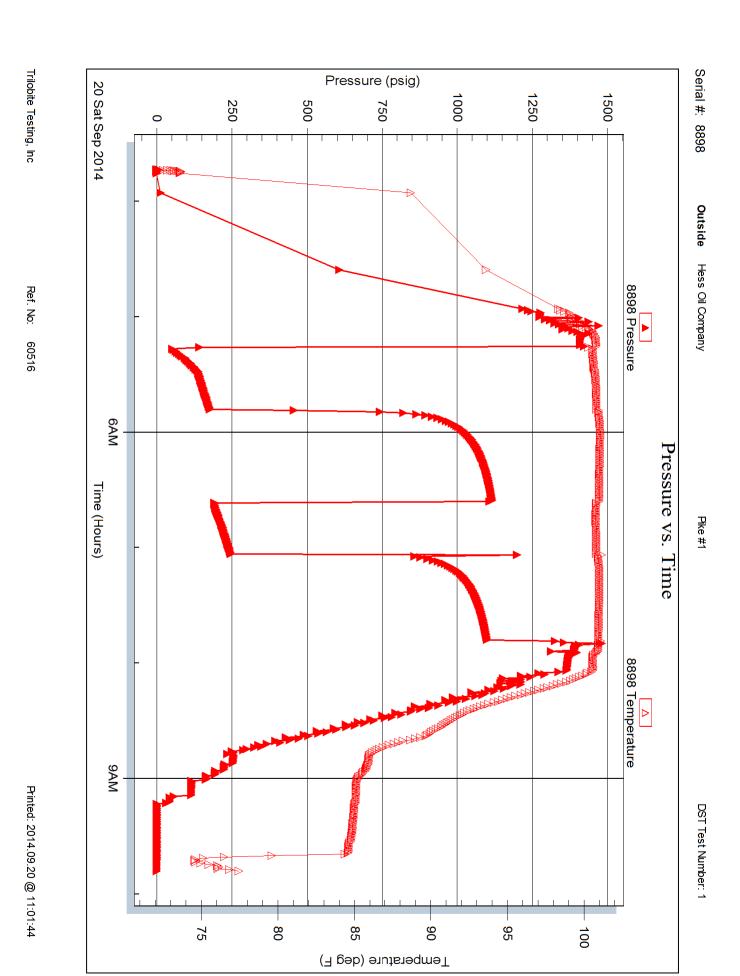
Laboratory Name: Laboratory Location:

Recovery Comments: .476 @ 67 F = 1250

Trilobite Testing, Inc Ref. No: 60516 Printed: 2014.09.20 @ 11:01:43



Temperature (deg F)



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665 No. Phone 785-483-2025 Cell 785-324-1041 On Location State County Sec. Twp. Range Well No. To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Hole Size T.D. To Depth Stree. Depth City State Tbg. Size The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool Cement Amount Ordered Shoe Joint Cement Left in Csg. Meas Line Displace **EQUIPMENT** Common Cementer? Poz. Mix Helper Pumptrk Driver Driver Gel. Bulktrk Driver Calcium Driver JOB SERVICES & REMARKS Hulls Salt Remarks: Flowseal Rat Hole Kol-Seal Mouse Hole Mud CLR 48 Centralizers CFL-117 or CD110 CAF 38 Baskets D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer **Baskets AFU** Inserts Float Shoe Latch Down Pumptrk Charge Mileage. Tax Discount Total Charge

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665

No.

	Sec.	Twp.	Range	(County	State	On Location	Finish	
Date 4-16-14	18	10	11	09	borne	195		9:15,PM	
terit i kalendaria da jarah 1961. Kanada kalendaria				Location	on Lucas 1	V to CL. 4	W, IN	; · · · · · · · · · · · · · · · · · · ·	
Lease Pike Well No.			Owner						
Contractor Mallard			To Quality Oilwell Cementing, Inc.						
Type Job Surface			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
tole Size 12 4 T.D. 217		Charge Hess Dil Company							
Csg. 8 1/3		Depth 217		Street					
Tbg. Size		Depth			City		State		
Tool		Depth				s done to satisfaction a	and supervision of owne	r agent or contractor.	
Cement Left in Csg. 2	0	Shoe J	oint 20		Cement Amo		SX Coin, 3% CC		
Meas Line		Displac	17 16 11	1	,		· · · · · · · · · · · · · · · · · · ·		
	EQUIPM			,	Common /	50			
Pumptrk / 7 No. Ceme		HieW.			Poz. Mix				
Bulktrk 3 No. Driver		· · ·			Gel.		***		
Bulktrk P4 No. Driver	·				Calcium 5	5			
JOB SERVICES & REMARKS				Hulls					
Remarks: Cement did circulate				Salt		•			
Rat Hole				٠.	Flowseal				
Mouse Hole				Kol-Seal					
Centralizers				Mud CLR 48					
Baskets				CFL-117 or CD110 CAF 38					
D/V or Port Collar		***			Sand				
					Handling /	58			
					Mileage				
						FLOAT EQUIPA	MENT	*	
					Guide Shoe				
					Centralizer				
					Baskets				
		×*****		#	AFU Inserts				
					Float Shoe		7		
				Latch Down					
					<i>4</i>	100			
				Pumptrk Cha	ige Surface				
				Mileage 4/					
						:	Tax		
1	0		1				Discount		
Signature Now Language				. :		Total Charge			
7	01				-				