



1153581

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---



CHARGE TO: Herald Oil
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET
 No 24439

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Hays ks</u>	WELL/PROJECT NO. <u>3</u>	LEASE <u>Wanager A</u>	COUNTY/PARISH <u>Ellis</u>	STATE <u>KS</u>	CITY	DATE <u>6-14-13</u>	OWNER
2. <u>Ness City ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>O. Security</u>	RIG NAME/NO. <u>1</u>	SHIPPED VIA <u>ACT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Devlop</u>	JOB PURPOSE <u>5 1/2 Longstring</u>	WELL PERMIT NO.		WELL LOCATION <u>see 24 two 155 R 19w</u>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 112	20	mi			6.00	120.00
578					Pump Charge Longstring	1	ea			1500.00	1500.00
221					Liquid KCL	2	gal			25.00	50.00
281					Mud Flush	300	gal			1.25	375.00
290					O-Air	2	gal			42.00	84.00
402					Centralizers	7	ea		5 1/2	70.00	490.00
403					Cement Basket	1	ea			285.00	285.00
406					Latch Down Plug + B.H.H	1	ea			275.00	275.00
407					Insert First shoe of 4th Ell	1	ea			375.00	375.00
419					Rotating Head Rental	1	ea			200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 6/14/13 TIME SIGNED 0500
 A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	4406.00
TOTAL	8792.66

SWIFT OPERATOR M. Bull APPROVAL _____

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

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 24439

CUSTOMER: Heile Oil
WELL: Wasinger A #3
DATE: 6-19-13
PAGE: 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOMMODATIONS LOG ACCT. OF	TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
					QTY.	UM		
325				Standard cement	175	SKS	14.00	2450.00
276				Fluorel	50	lbs	21.00	1050.00
283				S-11	400	lbs	20.00	8000.00
284				Cal Seal	8	SK	35.00	280.00
286				Halad-1	85	lbs	8.00	680.00
581				SERVICE CHARGE			2.00	350.00
583				WEAVER SERVICE CHARGE			1.00	366.00
TOTAL WEIGHT 18285					LOADED MILES 40	CUBIC FEET 175 SKS		
TOTAL WEIGHT 18285					LOADED MILES 40	TON MILES 366		


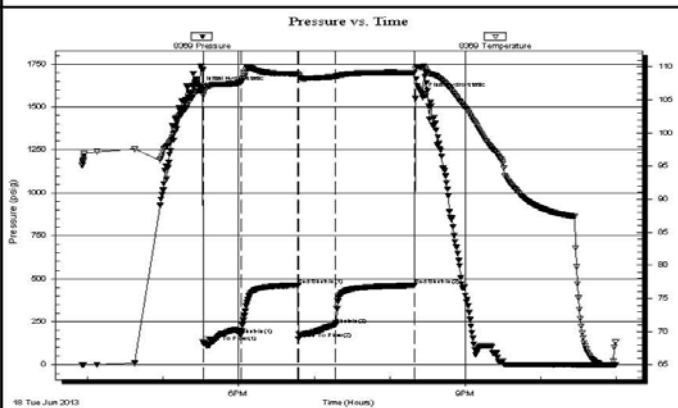
CONTINUATION TOTAL 4406.00

Topeka	2960- 954	2960- 954	- 957
Heebner Shale	3242-1236	3241-1235	-1238
Toronto	3265-1259	3261-1255	-1257
LKC	3285-1279	3286-1280	-1283
BKC	3533-1527	3536-1530	-1529
Conglomerate SS		NONE	
Reworked Arbuckle		3611-1605	
Arbuckle		3634-1628	-1621
RTD	3700-1694		
LTD		3700-1694	

SUMMARY OF DAILY ACTIVITY

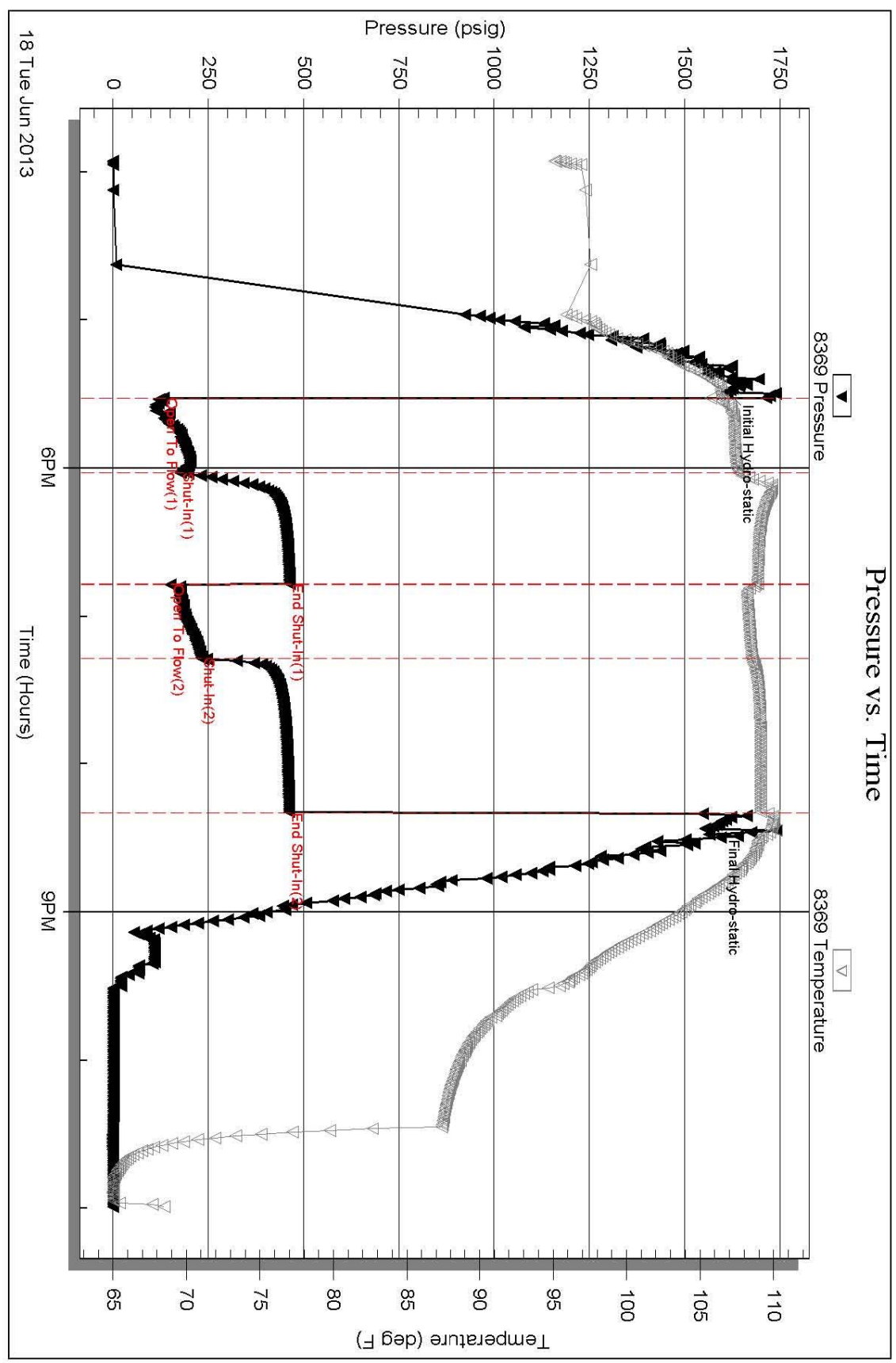
- 6-12-13 RU, spud 1:30 PM
- 6-13-13 1123', set 8 5/8" surface pipe to 1195.6' w/ 450 sxs common 2% gel 3% CC, plug down 2:15PM, WOC 12 HRS
- 6-14-13 1297', drilling
- 6-15-13 2352', drilling, parted drill string at 2725'
- 6-16-13 2725', fished parted collar string, TIWB, drilling, displaced @2802'
- 6-17-13 3242', drilling
- 6-18-13 3688', RTD 3700' @ 8:15AM, short trip, CCH, TOWB, logs, DST # 1 straddle test 3294'-3342' "C & D" LKC, TIWB, LDDP
- 6-19-13 3700', finish LDDP, run casing and cement, RD

DST # 1 STRADDLE TEST SUMMARY "C_D" LKC BOTTOM PACKER HELD

 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT																																										
	Hertel Oil Co Inc 704 E 12th st Hays Ks 67801-3440 ATTN: Dave Hertel	24-15s-19w Ellis Wasinger A#3 Job Ticket: 52094 Test Start: 2013.06.18 @ 15:55:33	DST#: 1																																								
GENERAL INFORMATION: Formation: LKC C-D Deviated: No Whipstock: ft (KB) Time Tool Opened: 17:31:43 Time Test Ended: 22:59:42 Interval: 3294.00 ft (KB) To 3342.00 ft (KB) (TVD) Total Depth: 3700.00 ft (KB) (TVD) Hole Diameter: 7.85 inches Hole Condition: Fair Test Type: Conventional Straddle (Initial) Tester: Ray Schwager Unit No: 42 Reference Elevations: 2006.00 ft (KB) 1998.00 ft (CF) KB to GR/CF: 8.00 ft																																											
Serial #: 8369 Inside Press@RunDepth: 231.40 psig @ 3300.00 ft (KB) Start Date: 2013.06.18 End Date: 2013.06.18 Start Time: 15:55:33 End Time: 22:59:42 Capacity: 8000.00 psig Last Calib.: 2013.06.18 Time On Btm: 2013.06.18 @ 17:29:13 Time Off Btm: 2013.06.18 @ 20:25:27																																											
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EXPANDED CHART DST # 1 STRADDLE TEST

Serial #: 8369 Inside Hertel Oil Co Inc Wasinger A#3 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 52094

Printed: 2013.06.19 @ 07:48:20

ROCK TYPES

Chtcong	Dol Lime	Lscong	Carbon Sh	Ss
Dolprim	Lmst fw<7	shale, grn	shale, red	Sltst
Dolsec	Lmst fw7>	shale, gry	Shcol	

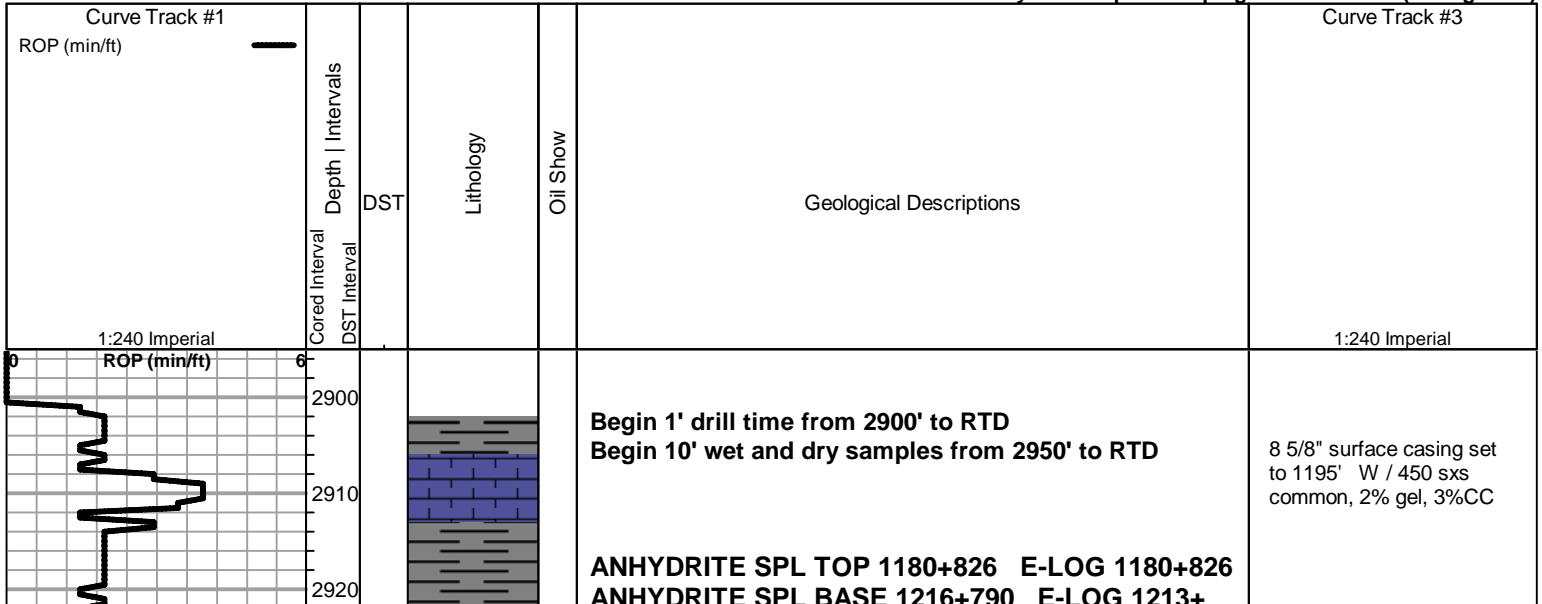
ACCESSORIES

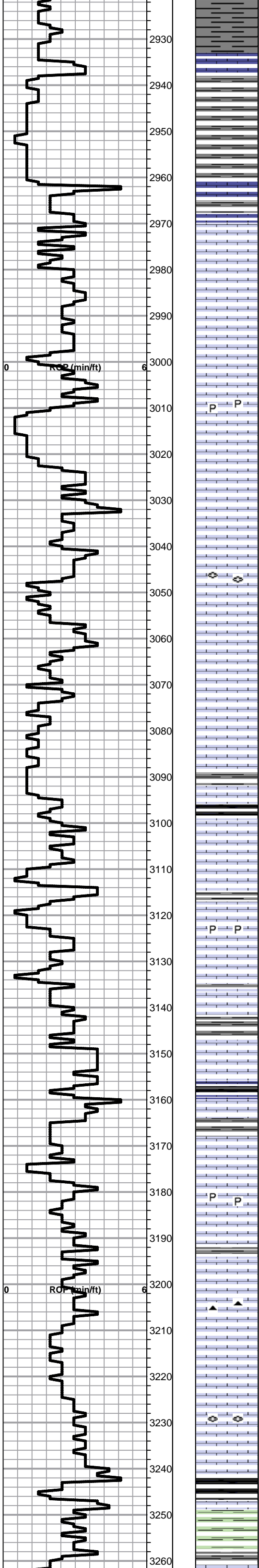
MINERAL	FOSSIL	STRINGER
▲ Chert, dark	◆ Fossilinid	■ red shale
⊠ Chert, tripolitic		
P Pyrite		
△ Chert White		

OTHER SYMBOLS

DST
■ DST Int
■ DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Shale gray/green blocky soft

Shale Dark Gray fissile

TOPEKA SPL 2960-954 E-LOG 2960-954

Lime cream- Light brown fnxn fossiliferous

Lime cream fnxn dense chalky in part

Lime light brown fnxn

Lime light gray fnxn slighly fossiliferous

Lime medium brown sucrosic friable

Lime light-medium brown fnxn

Lime medium brown fnxn to granular in part

Lime light to medium brown fnxn

Lime light brown-tan fnxn

Lime brown fnxn chalky

Lime medium brown fnxn to granular slighly fossiliferous

Lime medium gray fn-vfxln

Shale gray soft blocky

Shale black carbonaceous blocky (King Hill)

Lime cream fnxn dense

Lime off white fnxn

Lime tan fn-vfxln

Lime off white chalky fossiliferous

Shale black carbonaceous blocky (Queen Hill)

Lime light brown sucrosic friable slightly chalky

Shale light gray with black specks soft and blocky

Lime light gray fnxn fossiliferous

Lime light-medium gray fn-vfxln
Chert light gray hard brittle

Lime light brown fnxn gillsonitic stain no odor NSFO

Lime light gray fnxn with fusulinids in part

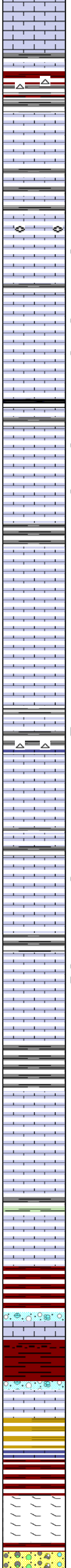
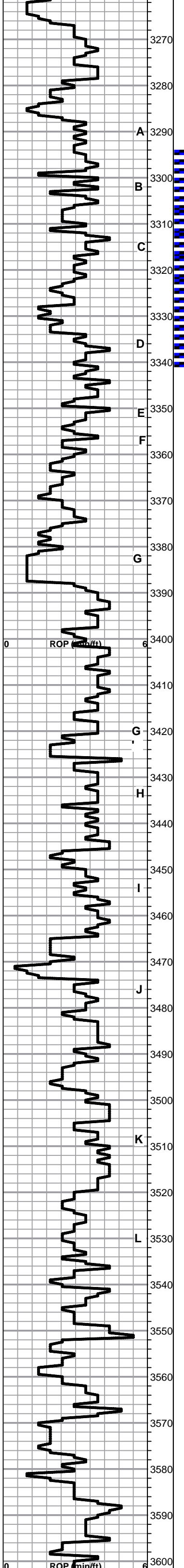
Lime gray to medium brown fnxn

HEEBNER SHALE SPL 3242-1236 E-LOG 3241-

1235
Shale black carbonaceous blocky

Shale gray/green blocky soft

TORONTO E-LOG 3261-1255



Lime bright white fn-vfxln

Shale maroon/gray soft sticky with white chert in part

LKC SPL 3285-1279 E-LOG 3286-1280

Lime off white slightly oolitic fnxln
slight odor NSFO

Lime medium xln-granular
slight odor, slight staining, NSFO

Lime light brown fn-vfxln

Lime cream white medium xln with slight staining no odor

Lime fine inner xln cream slight staining NSFO

Shale dark gray / black carbonaceous, fissile

Lime cream medium xln slight pin point porosity scattered stain
no odor, NSFO

Lime cream vuggy porosity slight staining NSFO

Lime cream granular NSFO vugs in some chips

Lime cream-light tan fnxln

Lime cream fnxln

Lime cream granular with gillsonitic staining
Chert light gray

Lime cream oolitic fnxln no stain
Shale light gray-brown soft blocky

Lime cream fnxln friable

Lime cream fnxln some pinpoint porosity slight staining no odor

Lime tan oomoldic no odor

Lime cream-light tan fnxln

Lime cream oomoldic with slight staining slight wet cut upon breakage
under backlight

Lime cream fnxln

Lime cream-off white fn-vfxln

Lime light brown fnxln

Shale green-gray soft blocky

Lime cream-tan fnxln

Shale reddish brown soft sticky, clastic mix

Lime cream- light brown fnxln

Shales various colors blocky to sticky, red wash persistent
1 chip oolitic Lime with slight staining

Cherts various colors rework

Lime hard brittle slightly dolomitic

Conglomerate unconsolidated with angular clasts

**DST # 1 3294' TO 3342'
SEE HEADER FOR
TEST SUMMARY**

LOG INTERVAL 3316-22 IS
PRODUCTIVE IN AREA BUT
NOT IN EAST OFFSETS.
TENDS TO BE WATER
DRIVE WITH GOOD
PRODUCTIVE POTENTIAL

LOG INTERVAL 3326-34
APPEARS TO BE NEW
ZONE IN FIELD.
RECOMMEND
PERFORATING ZONE BY
ITSELF AND TESTING
BEFORE PERFORATING
ANY OTHER ZONE

LOG INTERVAL 3360-64
SHOULD BE PERFORATED
AND TESTED PRIOR TO
ABANDONMENT OF WELL

LOG INTERVAL 3426-28
ZONE APPEARS VERY THIN.
ZONE SHOULD BE
PERFORATED AND TESTED
PRIOR TO ABANDONMENT
OF WELL

LOG INTERVAL 3448-50.
APPEARS TO BE THIN
ZONE BUT SHOULD BE
PERFORATED AND TESTED
BEFORE ABANDONMENT.
ZONE MAY HAVE LOW
PRESSURE DUE TO
PRODUCTION IN OFFSETS

LOG INTERVAL 3468-73
PRIMARY PRODUCTIVE
ZONE IN OFFSETS. LIKELY
LOW PRESSURE FROM
DEPLETION. WOULD ONLY
PERFORATE AND TEST
AFTER OTHER ZONES
EXHAUSTED AND
ENHANCED RECOVERY
WELL INSTALLED.

BKC SPL 3533-1527 E-LOG 3536-1530

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 30, 2013

Dave Hertel
Hertel Oil Company LLC
704 E 12TH ST
HAYS, KS 67601-3440

Re: ACO1
API 15-051-26523-00-00
Wasinger A 3
NE/4 Sec.24-15S-19W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Dave Hertel



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hertel Oil Co Inc
 704 E 12th st
 Hays Ks 67601-3440
 ATTN: Dave Hertel

24-15s-19w Ellis
Wasinger A#3
 Job Ticket: 52094 **DST#: 1**
 Test Start: 2013.06.18 @ 15:55:33

GENERAL INFORMATION:

Formation: **LKC C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:31:43
 Time Test Ended: 22:59:42
 Interval: **3294.00 ft (KB) To 3342.00 ft (KB) (TVD)**
 Total Depth: 3700.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2006.00 ft (KB)
 1998.00 ft (CF)
 KB to GR/CF: 8.00 ft

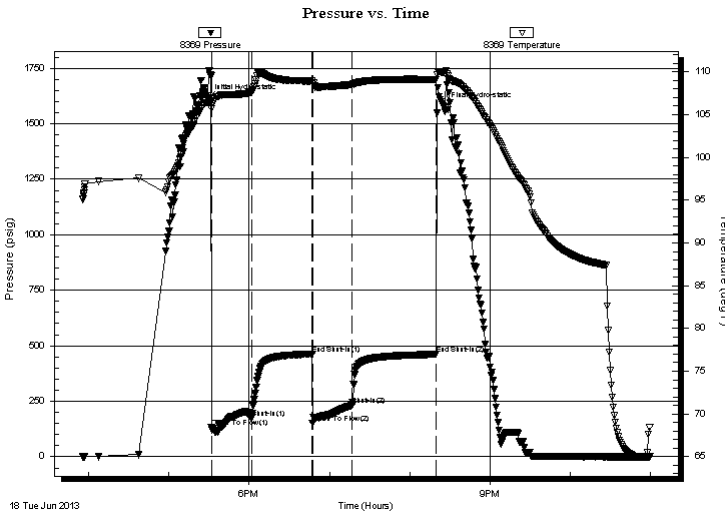
Serial #: 8369

Inside

Press @ Run Depth: 231.40 psig @ 3300.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.18 End Date: 2013.06.18 Last Calib.: 2013.06.18
 Start Time: 15:55:33 End Time: 22:59:42 Time On Btm: 2013.06.18 @ 17:29:13
 Time Off Btm: 2013.06.18 @ 20:25:27

TEST COMMENT: 30-IFP-strg bl in 1min , GTS in 26min
 45-ISIP-strg bl bk
 30-FFP-strg bl GTS , To w k to gauge
 60-FSIP-strg bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1611.81	106.43	Initial Hydro-static
3	132.05	105.72	Open To Flow (1)
33	176.01	107.63	Shut-In(1)
78	462.90	108.92	End Shut-In(1)
78	151.38	108.76	Open To Flow (2)
108	231.40	108.52	Shut-In(2)
171	461.50	109.11	End Shut-In(2)
177	1575.07	109.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
372.00	GMO 35%G5%M60%O	5.22
186.00	GMO 45%G 5%M50%O	2.61
62.00	CO	0.87

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Co Inc
704 E 12th st
Hays Ks 67601-3440
ATTN: Dave Hertel

24-15s-19w Ellis
Wasinger A#3
Job Ticket: 52094 **DST#: 1**
Test Start: 2013.06.18 @ 15:55:33

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
372.00	GMO 35%G5%M60%O	5.218
186.00	GMO 45%G 5%M50%O	2.609
62.00	CO	0.870

Total Length: 620.00 ft Total Volume: 8.697 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

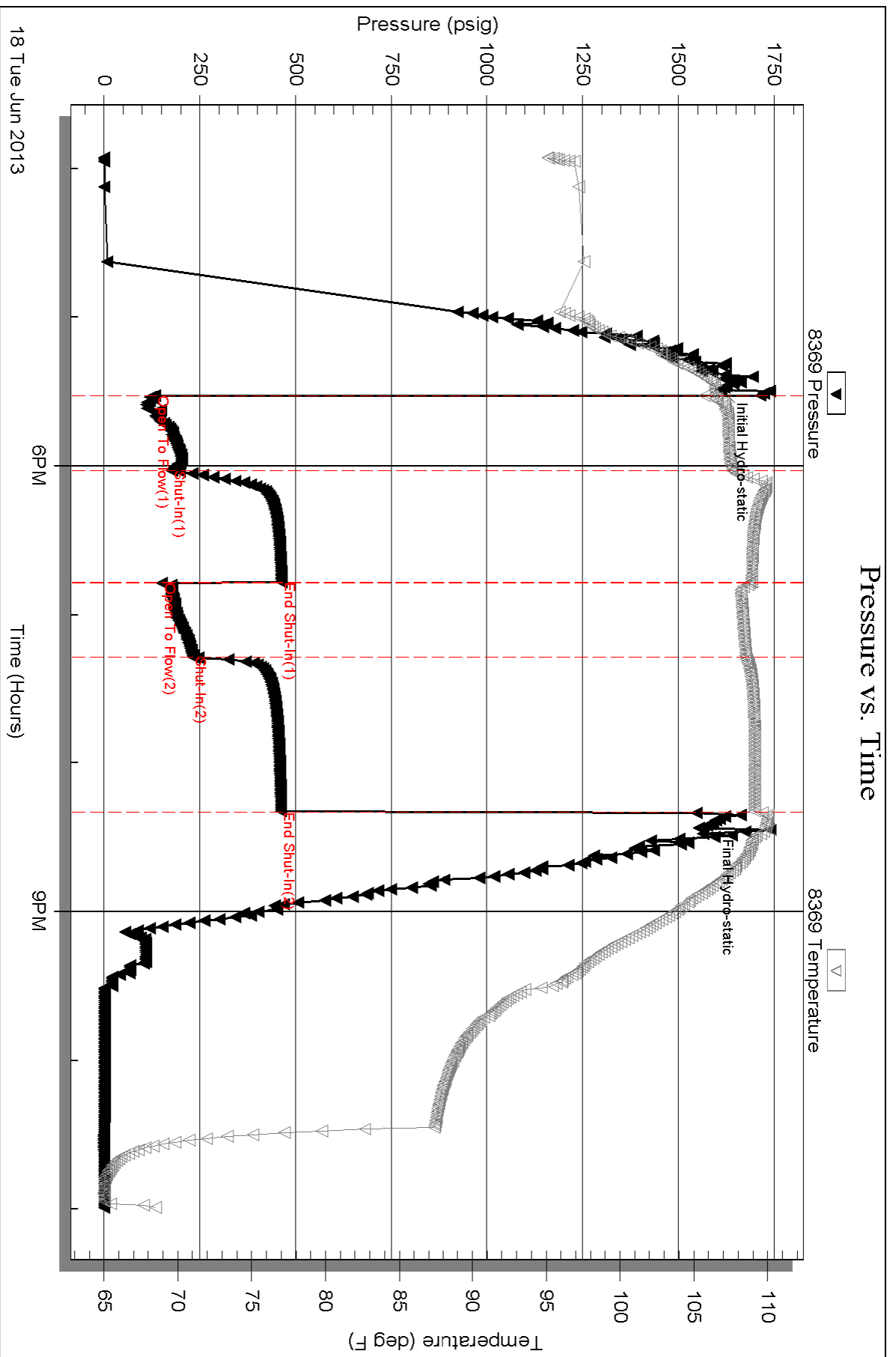
Serial #: 8369

Inside

Hertel Oil Co Inc

Wasinger A#3

DST Test Number: 1



Serial #: 8700

Below (Stratfield) Oil Co Inc

Wasinger A#3

DST Test Number: 1

