



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1069956
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- 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:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. 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: _____

1069956

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CHARGE TO: LARSON Engineering
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET
21086

SERVICE LOCATIONS: 1. NEC City KS WELL/PROJECT NO. 1-29 LEASE Whitney-Dutait COUNTY/PARISH LANE STATE KS CITY Amey DATE 6 SEP 11 OWNER _____
 2. TICKET TYPE SERVICE SALES CONTRACTOR WILD WEST RIG NAME/NO. _____ SHIPPED VA. DELIVERED TO location ORDER NO. _____
 3. WELL TYPE D.1 WELL CATEGORY Development JOB PURPOSE cement port collar WELL PERMIT NO. _____ WELL LOCATION _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	40		mi		6.00	240.00
576 D		1			Pump Charge	1		ea		1250.00	1250.00
330		1			SMB cement	175		sk		16.50	2887.50
276		1			flac'e	50		lb		2.00	100.00
290		1			D-AIR	2		gal		35.00	70.00
581		1			Service Charge	225		sk		2.00	450.00
583		1			Drayage	2239	16		447.87 TM	1.00	447.80

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
 X
 DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5445.30
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? <input type="checkbox"/> YES <input type="checkbox"/> NO				
Lanc Tax 6.3%				192.62
TOTAL				5637.92

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR [Signature] APPROVAL _____
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6 SEP 11 PAGE NO.

CUSTOMER Laeson Engineering WELL NO. 1-29 LEASE Whitig - Dutist JOB TYPE Cement port collar TICKET NO. 21086

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sk SMD of #4 flocc 2 3/4 x 5 1/2 PC @ 2183'
	1400							on loc TRK 114
	1430					1000	1000	test to 1000 psi - held
	1435	3	4			200		inj rate 3 bpm @ 200 psi
	1442	3 3/4				200		mix SMD cement @ 11.2 ppg fluid to surface
		3 3/4	17			200		
	1515	3 3/4	94			550		cement to surface 175 300 20 to pit
	1525		20					run 5 joints Reverse out 2 cement plugs
	1530							wash up truck
	1600							job complete
								Thanks Blaine, Joe & Dave



CHARGE TO: Larson Engineering
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
20332

PAGE 1 OF 2

SERVICE LOCATIONS:
 1. Hays, Ks.
 2. Ness City, Ks.
 3.
 4.

WELL/PROJECT NO. #1-29 LEASE Whitley-Dewert COUNTY/PARISH Lane STATE Ks CITY DATE 8-28-11 OWNER SAME

TICKET TYPE SERVICE SALES CONTRACTOR H-D Drilling #3 RIG NAME/NO. SHIPPED VIA ET DELIVERED TO Location ORDER NO.

WELL TYPE oil WELL CATEGORY Development JOB PURPOSE Longstring WELL PERMIT NO. WELL LOCATION

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.	UM	
575		1			MILEAGE #111	45	mi	6	100	270 00
578		1			Pump Charge (Longstring)	1	ea	4646	1500 00	1500 00
221		1			KCL	2	gal	25	00	50 00
280		1			Floscheck-21	500	gal	2	50	1250 00
290		1			D-Air	2	gal	35	00	70 00
325		#								
375										
419										
419		1			Rotating Head	1	ea	5 1/2	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

X J.C. Larson
 DATE SIGNED 8-28-11 TIME SIGNED 1700 A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	3340 00
WE UNDERSTOOD AND MET YOUR NEEDS?				Page 2	4872 00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub total	8212 00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lane TAX @ 6.3%	361 78
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	8573 78
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR Nick Kothe APPROVAL

Thank You!



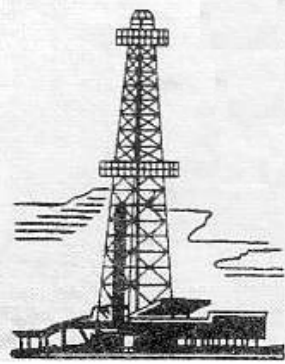
PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 20392

CUSTOMER Larson Engineering WELL #1-29 Whitley-Dewert DATE 8-28-11 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M	U/M				
325		2				Standard Cement	155	sk			13 ⁵⁰	2092 ⁵⁰
276		2				Flocele	50	#			2 ⁰⁰	100 ⁰⁰
277		2				Salt Gilsomite	1100	#			75	825 ⁰⁰
283		2				Calsalt Salt	800	#			2 ⁰⁰	160 ⁰⁰
284		2				Halad Calseal	7	sk			35 ⁰⁰	245 ⁰⁰
286		2				Halad-1	100	#			8⁰⁰ 7 ⁵⁰	800⁰⁰ 750
581		2				SERVICE CHARGE	155	sk			2 ⁰⁰	310 ⁰⁰
583		2				MILEAGE CHARGE					1 ⁰⁰	389 ⁵⁰
							TOTAL WEIGHT	17320				
							LOADED MILES	45				
							TON MILES	389.5				
											CONTINUATION TOTAL	4872 ⁰⁰



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



Scale 1:240 (5"=100') Imperial

Well Name: WHITING-DUTOIT #1-29
Location: S2 SW SW SW Sec. 29-18s-30w
Licence Number: API: 15-101-22304
Spud Date: August 16, 2011
Surface Coordinates: 67' FSL & 330' FWL

Region: Lane Co., KS
Drilling Completed: August 28, 2011

Bottom Hole Coordinates:	Vertical Hole		
Ground Elevation (ft):	2891'	K.B. Elevation (ft):	2898'
Logged Interval (ft):	3600'	To: RTD	Total Depth (ft): 4650'
Formation:	Mississippi		
Type of Drilling Fluid:	Chemical Premix (Displaced)		

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR:

Company: LARSON ENGINEERING, INC.
Address: 562 West State Road 4
Olmitz, KS 67564-8561

DRILLING CONTRACTOR:

H. D. Drilling, LLC, Rig #3

DP 4.5" XH (16.6#); DC 6.0" (ave) x 2-3/8" (ave) x 653.14', Kelly + Bit 41.30', Tool Joint 5.5" ; Bit: JZ QX20, 7-7/8", jets 3-14s; rpm 80, WOB 35k; Kelly Bushing 7' above ground level; LeWayne "Lew" Tresner (tool pusher).

SURFACE CASING:

Set 8-5/8" casing at 260' (20#).

CIRCULATION SYSTEM:

Pump: EMSCO D-300, duplex, 6 x 14, 2" rod, 54 spm, 297 gpm (85%). SPP: 750-900 psi; Chemical, premix, displaced about 3550'; Morgan Mud, Inc., McCook, Neb., David Lines.

GAS DETECTION SYSTEM:

None.

OPEN HOLE LOGS:

DN (PE), DI (SP), ML: 5" detail RTD-3600; 2" DI to surface casing; No Sonic Log; LogTech-Pioneer Wireline, Hays, KS, C. Desaire, Log total depth (4648') was two feet short to rotary total depth (4650').

DRILL STEM TEST #1:

Zone: Kans. City "J": Test Interval: 4190-4214' (24' anchor); Blow: weak surf IFP, weak incr 3/4" FFP; NRB; Time Periods: 5-15-30-60; Recovery: 2' clean oil; 55' OCM (20% oil, 80% mud), 50' OCM (10% oil, 90% mud); Pressure: HP: 2017-2035; SIP: 887-900; FP: 38-39, 42-70; BHT: 125 deg F; dual packers, jars, joints, 141' collars; Trilobite Testing, Inc., Will MacLean.

DRILL STEM TEST #2:

Zone: Kans. City "J2" & "K": Test Interval: 4217-4248 (31' anchor); Blow: BOB 2 min IFP, NRB; BOB 2.5 min FFP, NRB; Time Periods: 5-15-15-30; Recovery: 810' total fluid, no GIP; Grindouts: 427' OCMW (2% oil, 5% mud, 93% water), 200' OCMW (4% oil, 30% mud, 66% water); 183' OCMW (2% oil, 40% mud, 58% water); chlorides 5k ?; Pressures: HP: 2107-2055; SIP: 749-743; FP: 169-227, 266-405; BHT: 131 deg F; dual packers, jars, joints, 141' collars; Trilobite Testing, Inc., Will MacLean.

DRILL STEM TEST #3:

Zone: Kans. City "Middle Creek": Test Interval: 4267-4275 (7' anchor); Blow: weak surface blow died quick IFP, no blow FFP; Time Periods: 5-15-15-30; Recovery: 5' mud with oil spots in tool; Pressures: HP: 2137-2044; SIP: 39-356; FP: 34-31, 29-26; BHT: 119 deg F; dual packers, jars, joints, 141' collars; Trilobite Testing, Inc., Will MacLean.

DRILL STEM TEST #4:

Zone: Pleasanton, Lenapah: Test Interval: 4311-4375 (64' anchor); Blow: weak incr 5" IFP, NRB, BOB 10 min FFP, 1/2" RB; Time Periods: 5-15-30-60; Recovery: 120' GIP, 420' total fluid; Grindout: 90' gassy oil (10% gas, 90% oil, 34 grav), 150' oil cut muddy water (5% gas, 40% mud, 55% water), 180' muddy water (10% mud, 90% water, Rw 0.2 at 100 F, chlorides 23k); Pressures: HP: 2189-2093; SIP: 940-895; FP: 54-95, 97-189; BHT: 131 deg F; dual packers (w/shale packer), jars, joints, 141' collars; Trilobite Testing, Inc., Brandon

DRILL STEM TEST #5:

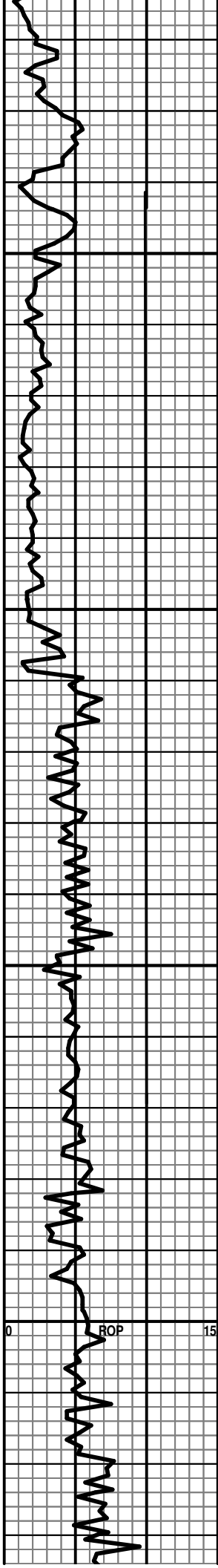
Zone: Marmaton thru Ft. Scott: Test Interval: 4373-4500 (127' anchor); Blow: weak surface blow died 5 min; no blow FFP; Time Periods: 5-15-15-30; Recovery: 5' mud, no show; Pressures: HP: 2241-2162; SIP: 603-875; FP: 40-38, 37-41; BHT: 120 deg F; dual packers (w/shale packer), jars, joints, 141' collars; Trilobite Testing, Inc., Brandon Turley.

COMPLETION:

Oil Well.

7AM DAILY ACTIVITY:

08/16: MIRT, SPUD
08/17: Drilling 300'
08/18: Drilling 2100'
08/19: Drilling 2900'
08/20: Call 3400 4:30 am
08/20: Drilling 3460'
08/21: Drilling 3814'
08/22: Short Trip 4120'
08/23: DST #1 4214'
08/24: DST #3 4274'
08/25: Drilling 4351'
08/26: Drilling 4421'
08/27: CFS 4562'
08/27: RTD 4650', 5:37pm
08/28: Run Prod. Casing 4650', Released 1am



3850

LS: LT-GRAYISH BROWN; VF-XTAL; CHALKY IN PART; SLI FOS; POOR APPARENT POROSITY; NO SHOWS.

LS: AS ABOVE;

SHALE: GREEN, GRAY;

LS: LT-GRAYISH BROWN; VF-XTAL; CHALKY & ARGILL IN PART; NO APPARENT POROSITY; NO SHOWS.

HEEBNER SH 3897 (-999)

SH: BLACK; CARBON; 20% 3920 SAMPLE.

LS: GRAYISH BROWN; VF-XTAL; DENSE; PYRITIC; NO APPARENT POROSITY; NO SHOWS.

SHALE: GREEN, GRAY;

LS: OFF-WHITE WITH OPAQ CHERT, GRAYISH BROWN IN PART; MIC-VF XTAL; SLI CHALKY; NO APPARENT POROSITY; NO SHOWS;

LS: AS ABOVE;

LANSING 3943 (-1045)

LS: LT-MD GRAYISH BROWN; VF-XTAL; TRC MED OOMOLDIC POROSITY; NO FLUOR OR SHOW; 3970.

LS: LT-MED GRAYISH BROWN; VF-XTAL; MOSTLY DENSE; OOLITIC; TIGHT INT OOL POROSITY AT BEST; NO SHOWS;

LS: LT GRAYISH BROWN; VF-XTAL; DENSE; INCLUDES GRAYISH BROWN, OPAQ CHERT; NO APPARENT POROSITY; NO SHOWS.

SHALE: GRAYS;

LS: OFF-WHITE, V-LT GRAY; VF-XTAL; FINELY OOLITIC IN PART; SCAT DARK PELLETS; POOR APPARENT POROSITY; NO SHOWS OR FLUOR;

LS: MOSTLY LT-BROWN; MIC-VF XTAL; DENSE; PLATEY TO ANGULAR; INCLUDES LT-MED GRAY & LT BRN, SEMI-TRANS CHERT; SLI CHALKY; NO VISIBLE POROSITY; ONLY DULL FLUOR; NO SHOWS;

LS: AS ABOVE; BUT INCR CHALK;

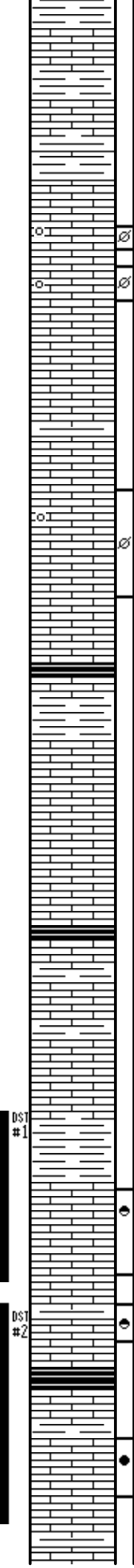
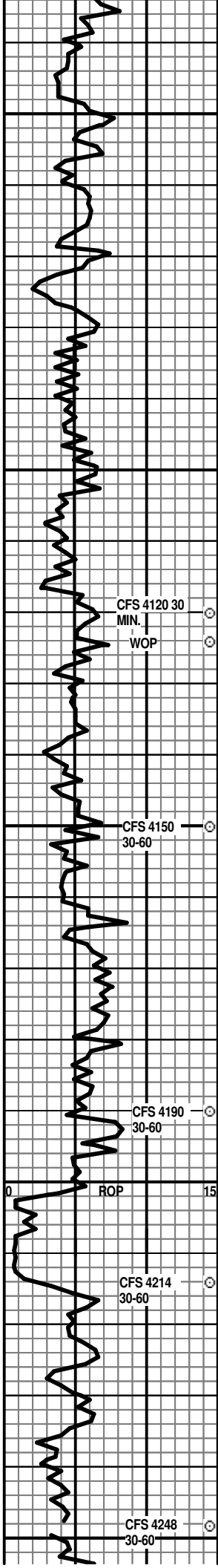
LS: LT BROWN & MED-GRAY, MIXED; MIC-VF XTAL; DENSE TO CHALKY; NO APPARENT POROSITY; NO SHOWS.

3900

3950

4000

MORGAN MUD CHECK WHILE DRILLING: 08/21-11am: 3905: VIS 67, WT 8.9, WL 7.2, CHL 1600, LCM 1.5#.



4050
4100
4150
4200
4250

LS: LT-BROWN, LT GRAYISH BROWN; VF XTAL; CHALKY IN PART; SCATTERED FINE VUG POROSITY; NO SHOWS.

LS: GRAYISH BROWN; VF-XTAL; MOSTLY DENSE; SCATTERED MED PYRITES; TIGHT INT XTAL POROSITY AT BEST;

LS: MED GRAYISH BROWN; F-XTAL; FINE-MED OOMOLDIC; POOR-FAIR OOM POROSITY; ONLY DULL FLUOR; NO SHOWS; 4100.

LS: LT-BROWN, LT GRAYISH BROWN; MIC-VF XTAL; CHALKY IN PART; NO APPARENT POROSITY; NO SHOWS. OCCASIONAL THIN GRAY TO GREENISH GRAY SHALE.

LS: LT-MED GRAY; MIC-VF XTAL; DENSE TO SLI SHALEY; NO APPARENT POROSITY; NO SHOWS;

MUNCIE CREEK 4127 (-1229)
(CORRECTED TOP)

SHALE: BLACK; CARBON; 4140.

LS: LT-MED GRAYISH BROWN, SOME DARK; VF-F XTAL; SLI FOS; FINELY PYRITIC; DENSE IN PART; TIGHT INT XTAL POROSITY IN PART; ONLY DULL FLUOR; NO SHOWS; 4140.

LS: LT-MED GRAYISH BROWN; VF-XTAL; MOSTLY DENSE; SOME SLI CHALKY; POOR APPARENT POROSITY; NO SHOWS OR FLUOR;

LS: AS ABOVE;

SHALE: BLACK; CARBON;

LS: LT-GRAYISH BROWN; VF-XTAL; MOSTLY DENSE OOLITE; CHALKY IN PART; VERY TIGHT INT OOL POROSITY AT BEST; NO FLUOR; NO SHOWS; 4190, INCR 30 MIN.

LS: LT-MD GRAYISH BROWN; VF-XTAL; DENSE; NO APPARENT POROSITY; NO SHOWS OR FLUOR;

SHALE: GRAYS, GREENS;

LS: LT-GRAY, LT BRN; VF-XTAL; MED - COARSE OOM; FAIR OOMOLDIC POROSITY; ALL BARREN EXCEPT ONE CHIP W/ FEW PIN POINT STAINS AND CRUSH SLI SHOW MED BRN OIL; NO ODOR; ONLY DULL FLUOR; 30 MIN. NO IMPROVMENT 60 MIN.

LS: MED-DK GRAYISH BROWN; VF-XTAL; MOSTLY DENSE; FEW CHIPS WITH FINE VUG POROSITY; 1 CHIP WITH POSSIBLE STAIN THAT DID CUT; NO OIL SHOW, NO ODOR; NO FLUOR WITHOUT CUT; 4240 SAMPLE.

STARK SH 4226 (-1328)

SHALE: BLACK; CARBON; 4240.

LS: LT-MD GRAYISH BROWN; F-M XTAL; SLI OOM & FINELY VUGULAR; HAS TINY SPECKS WHICH PROVE TO BE BLACK OIL MICRO- DROPS; NO ODOR; ONLY DULL FLUOR; 4248 STOP SAMP; THEN 30 MIN BECOMES V- CHALKY BUT STILL WITH FEW FINE VUGS & PIN POINT STAINS;

STOP 4120 FOR 22 STAND SHORT TRIP. CIRC 30 MIN BEFORE DRILLING.

STOP 4124 TO REPLACE BROKEN PUMP ROD. DOWN 146 MIN.

MORGAN MUD CHECK WHILE WOP: 08/22-10am: 4124: VIS 62, WT 9.1, WL 7.2, CHL 1600, LCM 1.5#.

BOARD: 4226.52, STRAP: 4227.41, STRAP WAS LONG 0.89'

CIRC 75 MIN BEFORE T.O.H.

DST #1: 4190-4214: WEAK INCR BLOW 3/4" FFP; 5-15-30-60; 2' CLEAN OIL, 105' OCM; SIP: 887-900; FP: 38-39, 43-70.

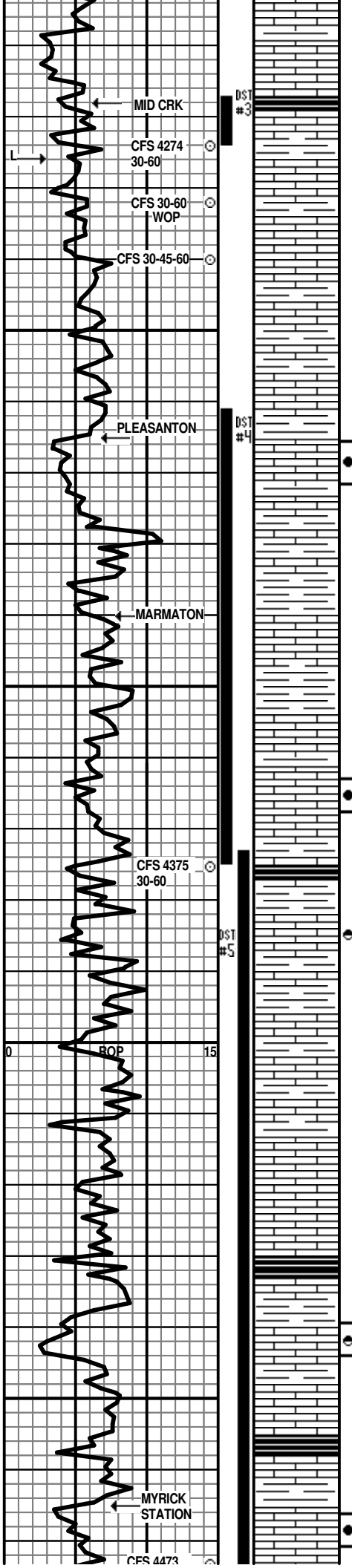
CIRC 30 MIN BEFORE DRILL AHEAD.

CIRC 75 MIN BEFORE T. O. H.

DST #2: 4117-4248: BOB 2 MIN; 5-15-15-30; 810' MW WITH OIL CUT; SIP: 749-743; FP: 169-227, 266-405;

CIRC 30 MIN BEFORE DRILL AHEAD.

MORGAN MUD CHECK WHILE DRILLING: 08/23-12pm: 4231: VIS 50, WT 9.1, WL 7.6, CHL: 1600; LCM 1#.



LS: LT-GRAY; VF-XTAL; SLI CHALKY; SCATTERED VUG POROSITY; NO SHOWS OR FLUOR;

HUSHPUCKNEY 4267 (-1369)

SHALE: BLACK; CARBON; 30 MIN.

MID CRK: LT -MD GRAISH BROWN, SOME WITH DK BRN SH SPECKS; SOME CLEANER, A TRACE W/ FINE VUG POR & CRUSH MICRO-DROPS DARK OIL 30 MIN; REPEATS IN 60 MIN.

L-ZONE: LT BRN, LT GRAYISH BRN; VF-XTAL; MOSTLY DENSE; INCLUDES MUCH GRANULAR, SEMI-OPAQ CHERT; BOTH CHERT & LIME ARE SLI OOL & SLI FOS; POOR APPARENT POROSITY; NO SHOWS; 4282 STOP & 30 MIN; NO IMPROV 60 MIN.

LS: LT-GRAYISH BROWN; VF-XTAL; DENSE; PLATEY; SLI CHALKY; DECR CHERT; NO APPARENT POROSITY; NO SHOWS.

LS: MED GRAYISH BROWN; VF-XTAL; DENSE; SLI OOLITIC; TRC VUG POROSITY; NO SHOWS;

PLEASANTON 4315 (-1417)

LS: LT-MED GRAYISH BROWN; OOLITIC IN PART; MOSTLY VF-XTAL, SCATTERED MED XTAL W/FAIR INT XTAL POROSITY ALTHOUGH IS SOMEWHAT CHALKY; CRUSH SLI SHOW LT BRN OIL; NO ODOR; NO FLUOR; ONLY SLI STAIN DRY; 4330 SAMPLE.

LS: DK GRAYISH BROWN; VF-XTAL; SUB VIT; DENSE; WITH SMOKEY, SEMI-TRANS CHERT; NO SHOWS.

SHALE: GREEN; SILTY; 4350;

MARMATON 4340 (-1442)

LS: LT-MED BROWN; VF-F XTAL; GRANULAR IN PART; SLI FOS; DENSE; POOR APPARENT POROSITY; NO SHOWS;

LS: AS ABOVE;

LS: LT-BROWN; VF-XTAL, SOME MED-XTAL WITH FINE VUGULAR POROSITY & PIN POINT STAIN; CAN CRUSH MICRO-DROPS DK BRN OIL; CHALKY PORTION BRIGHTLY FLUOR, SHOW CHIPS LESS FLUOR; NO ODOR; 4375 STOP; IMPROV 30 MIN; FEW STAINS DRY;

LS: LT-GRAYISH BROWN; MIC-VF XTAL; DENSE TO CHALKY; SCATTERED FINE VUG POROSITY W/ SLI STAIN; NO OIL OR ODOR; 4300.

LS: LT-BROWN; MIC-VF XTAL; MOSTLY DENSE, PLATEY; FEW CHIPS OF CORAL; POOR APPARENT POROSITY; NO SHOWS; 4410 THRU 4420;

LS: AS ABOVE;

LS: LT GRAYISH BROWN; MIC-VF XTAL; DENSE, PLATEY; TRC CHERT; SLI OOLITIC; NO APPARENT POROSITY; NO SHOWS;

LS: AS ABOVE WITH SCATTERED SOFT, WHITE CHALK;

SHALE: BLACK; TRC 4440.

PAWNEE 4433 (-1537)

LS: WHITE, LT-BROWN; MIC-VF XTAL; CHALKY IN PART; BRIGHT YEL-WHITE FLUOR; SCATTERED FINE VUG POROSITY WITH MED BRN SPOTTED STAIN; NO ODOR; NO OIL SHOW; LOOKS TIGHT; 4450 AND AFTER;

SHALE: BLACK;

LS: LT-MED GRAYISH BROWN; VF-XTAL; REDUCED CHALK COMPARED TO ABOVE; FINE-MED VUGULAR POROSITY; SPOTTED FLUOR & STAIN; CRUSH SLI SHOW OIL; NO ODOR; 4473-30 MIN.

CIRC 75 MIN BEFORE T. O. H.

DST #3: 4267-4274: BLOW DIED; 5-15-15-30; 5' MUD, OIL SPOTS IN TOOL; SIP: 39-356, FP: 34-31, 29-26;

CIRC 60 MIN BEFORE DRILL AHEAD.

MORGAN MUD CHECK WHILE TRIPPING: 08/24-12pm: 4274: VIS 51, WT 9.1, WL 7.6, CHL 1800, LCM 1#.

WORK ON PUMP AFTER 60 MIN SAMPLE AT 4282. DOWN 312 MIN.

CIRC 75 MIN BEFORE T. O. H.

DST #4: 4311-4375: WEAK INCR 5" IFP, BOB 10 MIN FFP, WEAK RB; 5-15-30-60; 120' GIP, 90' GO, 330' OCMW; SIP: 940-895; FP: 54-95, 97-189;

CIRC 30 MIN BEFORE DRILL AHEAD.

MORGAN MUD CHECK 08/25-11am: 4375: VIS 56, WT 9.2, WL 6.8, CHL 2k, LCM 2#.

CIRC 75 MIN BEFORE T. O. H.

DST #5: 4373-4500: BLOW DIED 5 MIN; 5-15-15-30; 5' MUD; SIP: 603-875; FP: 40-38, 37-41;

CIRC 30 MIN BEFORE DRILL AHEAD.

SHALE: BLACK; CARBON; 4490.

LS: LT-MED GRAYISH BROWN, DENSE GRAIN SUPTD OOLITE; TRC W/VERY TIGHT INT OOL POROSITY & SPECKLED FLUOR; CRUSH FEW MICRO-DROPS CLEAR OIL (VISIBLE ONLY IN UV); NO ODOR, 4490.

LS: MED GRAYISH BROWN; MIC-VF XTAL; DENSE; SLI OOL; NO APPARENT POROSITY; NO SHOWS OR FLUOR;

4500

L. CHEROKEE SH 4503 (-1605)

LS: LT GRAYISH BROWN; LT BROWN; VF-XTAL; FINELY PACKED OOLITE; VERY TIGHT INT OOL POROSITY AT BEST; NO FLUOR; NO SHOWS;

LS: GRAYISH BROWN; MIC-VF XTAL; CHALKY; ARGILL; MIXED W/ DARK SHALES; NO APPARENT POROISTY; NO SHOWS;

LS: AS ABOVE;

4550

LS: LT-BROWN; VF-XTAL; OOLITIC; DENSE; POOR APPARENT POROISTY; NO SHOWS.

SHALE: GRAY, GREEN; WITH SILST: WHITE; VF-GRAIN; V-POOR INT GRAIN POROSITY; NO SHOWS;

SAMPLES SEEM DEGRADED AFTER BASE CHEROKEE LIMESTONE, CHIP SIZE BEING REDUCED BELOW 12/64TH INCH AND MUCH SHALE.

EROS. MISS. 4570 (-1672) ?

SHALES: GREENS, GRAYS; ONLY TRC OOLITIC LS.

SHALE & TRACE LIMESTONES AS ABOVE;

4600

MISSISSIPPI 4610 (-1712)
(CORRECTED TOP)

LS: LT-MD BROWN, CREAM; VF-XTAL; FINELY OOLITIC IN PART; TRC CHERT; POOR APPARENT POROSITY; NO SHOWS;

LS: AS ABOVE, SOME MICRO-XTAL, LITHOGRAPHIC;

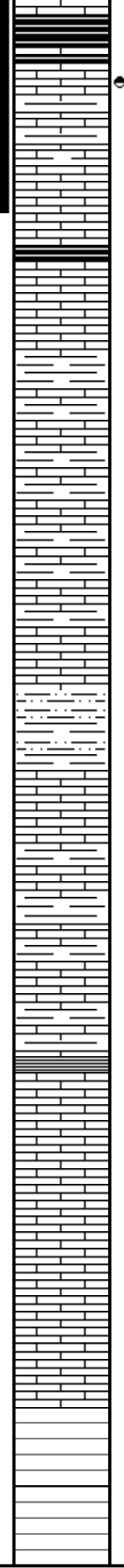
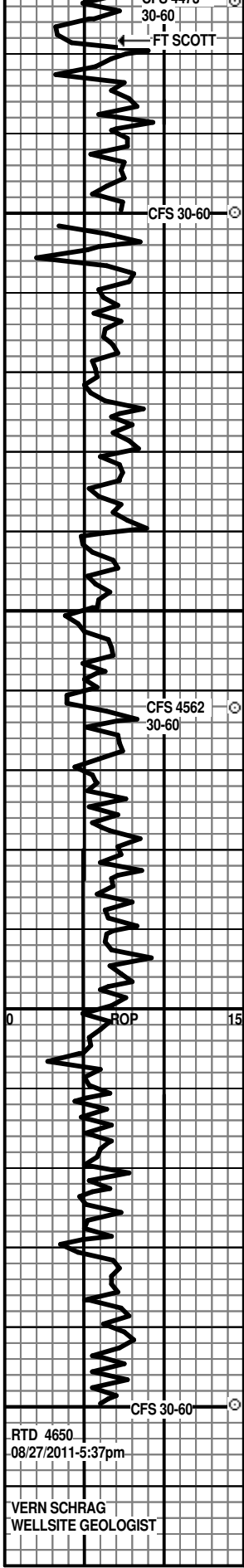
LS: LT-BROWN, CREAM; VF-XTAL; FINELY OOLITIC; SLI FOS; POOR APPARENT POROSITY; NO SHOWS;

LS: AS ABOVE;

4650

ROTARY TOTAL DEPTH 4650 (-1752)

CIRC 90 MIN BEFORE TRIP FOR LOGS. LOG-TECH LTD 4648.





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, INC

Whiting-Dutoit # 1-29

562 W State Rd 4
Olmitz KS 67564

29-18s-30w Lane Co

ATTN: Vern Schrag

Job Ticket: 43879

DST#: 1

Test Start: 2011.08.23 @ 01:54:05

GENERAL INFORMATION:

Formation: **LKC - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:00

Time Test Ended: 08:09:44

Test Type: Conventional Bottom Hole

Tester: Will MacLean

Unit No: 35

Interval: 4190.00 ft (KB) To 4214.00 ft (KB) (TVD)

Reference Elevations: 2898.00 ft (KB)

Total Depth: 4214.00 ft (KB) (TVD)

2891.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 70.34 psig @ 4191.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.23

End Date:

2011.08.23

Last Calib.:

2011.08.23

Start Time:

01:54:05

End Time:

08:09:44

Time On Btm:

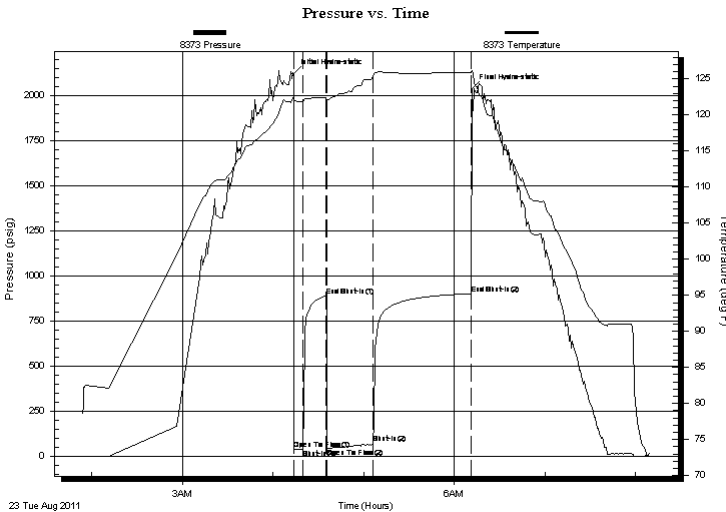
2011.08.23 @ 04:13:45

Time Off Btm:

2011.08.23 @ 06:11:44

TEST COMMENT: IF- Weak Surface Blow
IS- No Blow
FF- Surface Blow Built to 3/4"
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.68	122.49	Initial Hydro-static
1	38.21	121.84	Open To Flow (1)
7	39.88	121.90	Shut-In(1)
22	887.82	122.46	End Shut-In(1)
22	42.08	122.11	Open To Flow (2)
53	70.34	125.36	Shut-In(2)
118	900.07	125.90	End Shut-In(2)
118	2035.87	126.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% Oil	0.01
50.00	OCM 10%o 90%m	0.25
55.00	OCM 20%o 80%m	0.27

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, INC

Whiting-Dutoit # 1-29

562 W State Rd 4
Olmitz KS 67564

29-18s-30w Lane Co

Job Ticket: 43879

DST#: 1

ATTN: Vern Schrag

Test Start: 2011.08.23 @ 01:54:05

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:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	100% Oil	0.010
50.00	OCM 10%o 90%m	0.246
55.00	OCM 20%o 80%m	0.270

Total Length: 107.00 ft

Total Volume: 0.526 bbl

Num Fluid Samples: 0

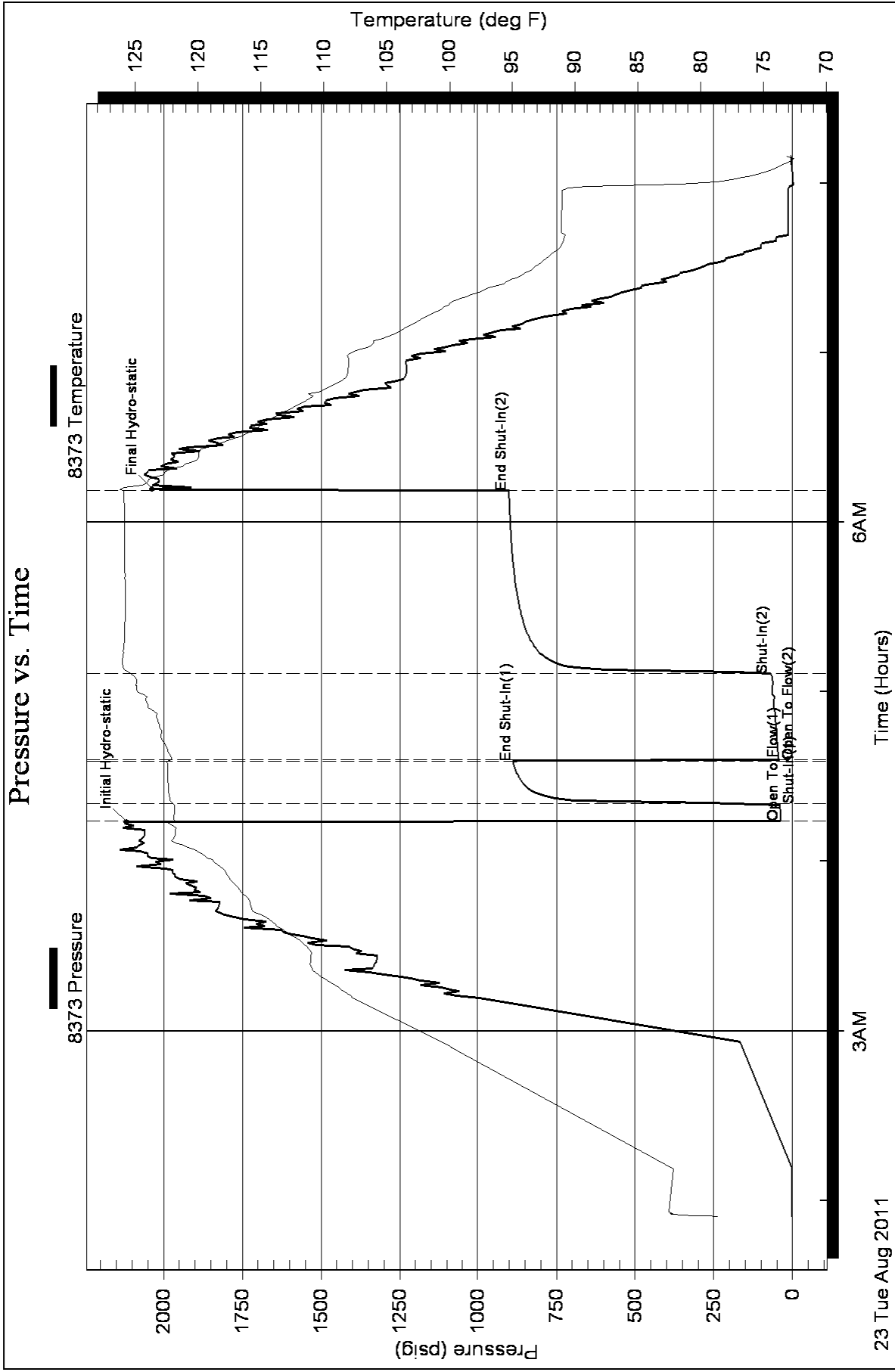
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, INC

562 W State Rd 4
Olmitz KS 67564

ATTN: Vern Schrag

Whiting-Dutoit # 1-29

29-18s-30w Lane Co

Job Ticket: 43880

DST#: 2

Test Start: 2011.08.23 @ 17:08:05

GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:30

Time Test Ended: 22:50:29

Test Type: Conventional Bottom Hole

Tester: Will MacLean

Unit No: 35

Interval: 4217.00 ft (KB) To 4248.00 ft (KB) (TVD)

Reference Elevations: 2898.00 ft (KB)

Total Depth: 4248.00 ft (KB) (TVD)

2891.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 405.03 psig @ 4218.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.23

End Date: 2011.08.23

Last Calib.: 2011.08.23

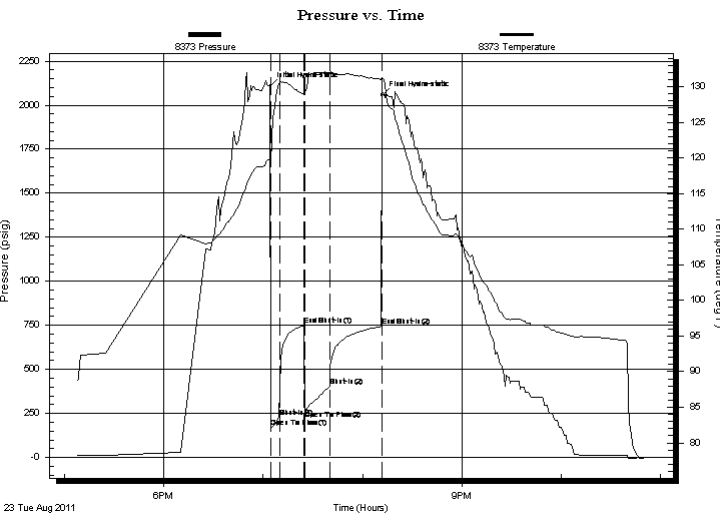
Start Time: 17:08:05

End Time: 22:50:29

Time On Btm: 2011.08.23 @ 19:04:15

Time Off Btm: 2011.08.23 @ 20:11:45

TEST COMMENT: IF- BOB in 2 min
ISI- No Blow
FF- BOB in 2 1/2min
FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.65	119.78	Initial Hydro-static
1	169.06	119.21	Open To Flow (1)
6	227.36	130.42	Shut-In(1)
21	749.59	128.93	End Shut-In(1)
21	266.51	129.17	Open To Flow (2)
36	405.03	131.94	Shut-In(2)
68	743.35	131.00	End Shut-In(2)
68	2055.49	131.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
183.00	OMcW 2%o 58%w 40%m	1.28
200.00	OMcW 4%o 66%w 30%m	2.81
427.00	OMcW 2%o 93w 5%m	5.99

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, INC

Whiting-Dutoit # 1-29

562 W State Rd 4
Olmitz KS 67564

29-18s-30w Lane Co

Job Ticket: 43880

DST#: 2

ATTN: Vern Schrag

Test Start: 2011.08.23 @ 17:08:05

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
183.00	OMcW 2%o 58%w 40%m	1.283
200.00	OMcW 4%o 66%w 30%m	2.805
427.00	OMcW 2%o 93w 5%m	5.990

Total Length: 810.00 ft Total Volume: 10.078 bbl

Num Fluid Samples: 0

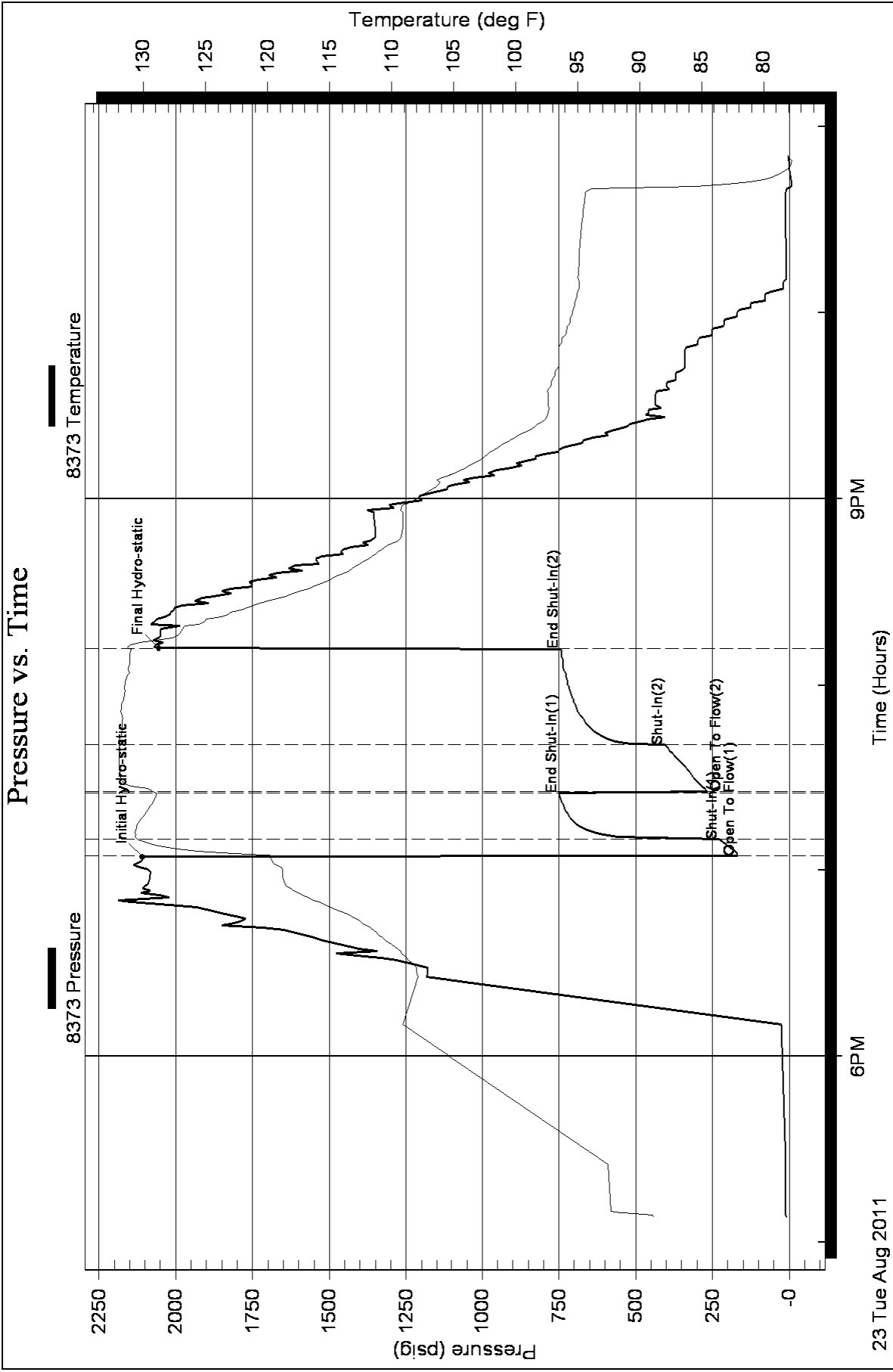
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is 1. @ 82f =5000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, INC

562 W State Rd 4
Olmitz KS 67564

ATTN: Vern Schrag

Whiting-Dutoit # 1-29

29-18s-30w Lane Co

Job Ticket: 43881

DST#: 3

Test Start: 2011.08.24 @ 07:52:05

GENERAL INFORMATION:

Formation: **Mid Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:29:30

Time Test Ended: 12:14:29

Test Type: Conventional Bottom Hole

Tester: Will MacLean

Unit No: 35

Interval: 4267.00 ft (KB) To 4274.00 ft (KB) (TVD)

Reference Elevations: 2898.00 ft (KB)

Total Depth: 4274.00 ft (KB) (TVD)

2891.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 26.85 psig @ 4268.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.24

End Date:

2011.08.24

Last Calib.:

2011.08.24

Start Time:

07:52:05

End Time:

12:14:29

Time On Btm:

2011.08.24 @ 09:29:15

Time Off Btm:

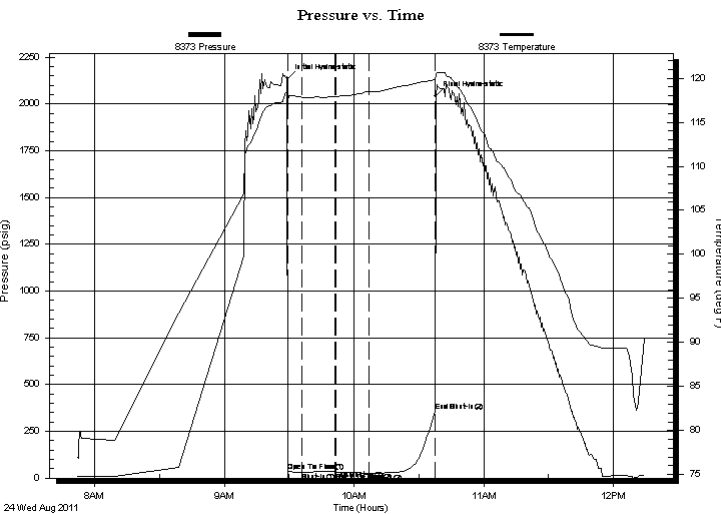
2011.08.24 @ 10:37:45

TEST COMMENT: IF-Weak Surface Blow Died in 5sec

ISI- No Blow

FF-No Blow

FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.56	118.51	Initial Hydro-static
1	34.46	117.35	Open To Flow (1)
7	31.40	117.84	Shut-In(1)
22	39.31	117.91	End Shut-In(1)
23	29.75	117.91	Open To Flow (2)
38	26.85	118.41	Shut-In(2)
69	356.40	119.83	End Shut-In(2)
69	2044.52	120.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	5' m 100% m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, INC

Whiting-Dutoit # 1-29

562 W State Rd 4
Olmitz KS 67564

29-18s-30w Lane Co

Job Ticket: 43881

DST#: 3

ATTN: Vern Schrag

Test Start: 2011.08.24 @ 07:52:05

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	5' m 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

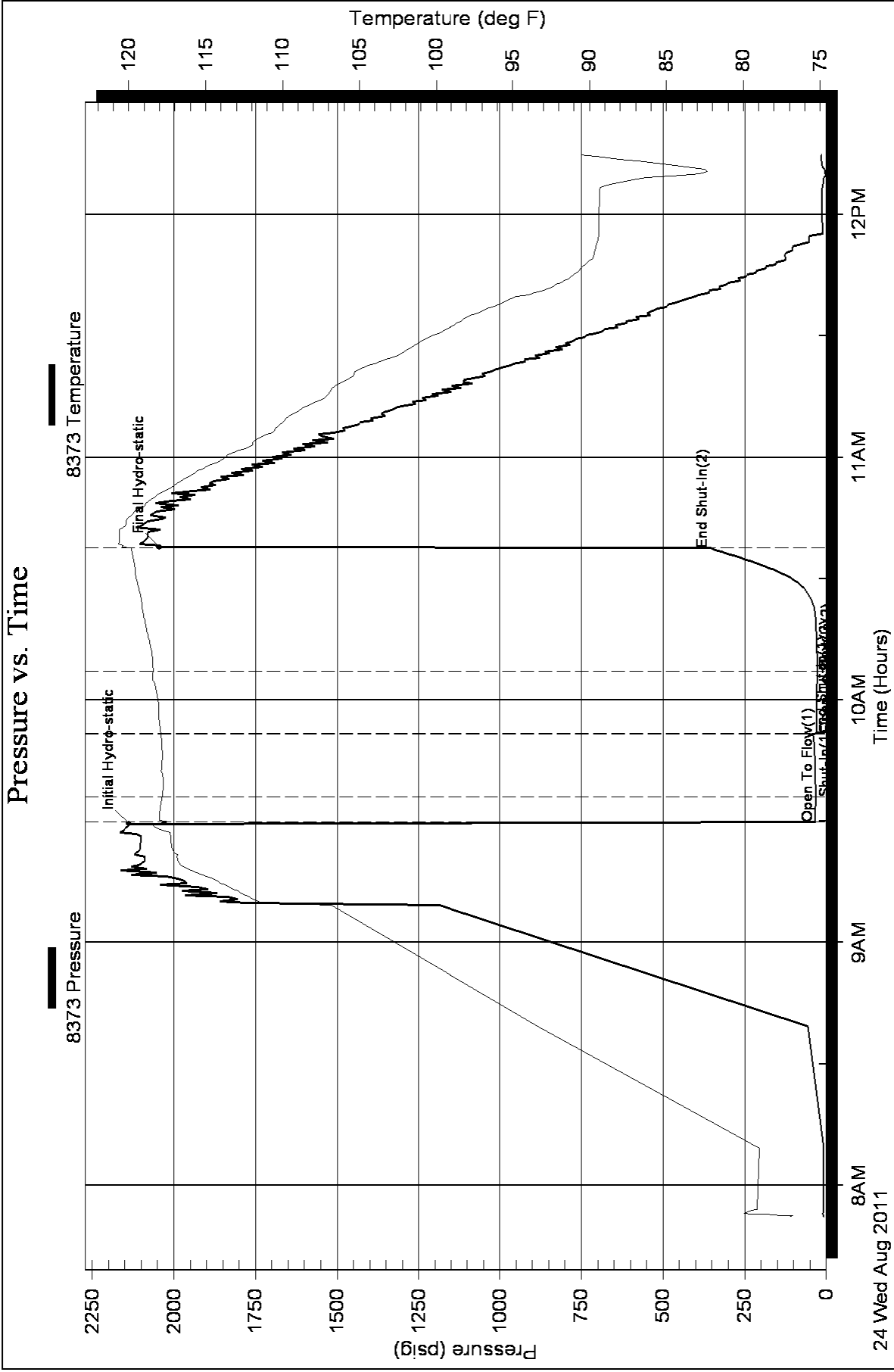
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, INC

562 W State Rd 4
Olmitz KS 67564

ATTN: Vern Schrag

Whiting-Dutoit # 1-29

29-18s-30w Lane Co

Job Ticket: 43684

DST#: 4

Test Start: 2011.08.25 @ 12:59:09

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:31:19

Time Test Ended: 18:29:03

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4311.00 ft (KB) To 4375.00 ft (KB) (TVD)

Reference Elevations: 2898.00 ft (KB)

Total Depth: 4375.00 ft (KB) (TVD)

2891.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 189.02 psig @ 4316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.25

End Date:

2011.08.25

Last Calib.:

2011.08.25

Start Time:

12:59:09

End Time:

18:29:03

Time On Btm:

2011.08.25 @ 14:29:04

Time Off Btm:

2011.08.25 @ 16:21:19

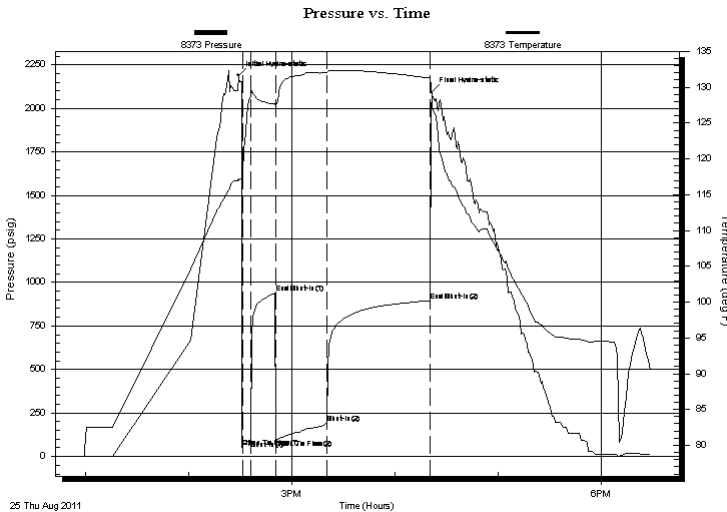
TEST COMMENT: IF: 1/4 blow built to 5 in 5 min.

IS: No return.

FF: 1/4 blow BOB in 10 min.

FS: Surface blow built to a 1/2 in 60 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.85	117.17	Initial Hydro-static
3	54.09	116.72	Open To Flow (1)
7	95.59	128.80	Shut-In(1)
22	940.38	127.71	End Shut-In(1)
22	97.05	127.42	Open To Flow (2)
52	189.02	132.05	Shut-In(2)
112	895.68	131.28	End Shut-In(2)
113	2093.82	128.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcw 90%w 10%m	1.24
150.00	ocmw 5%o 55%w 40%m	2.10
90.00	go 10%g 90%o	1.26
0.00	120 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, INC

Whiting-Dutoit # 1-29

562 W State Rd 4
Olmitz KS 67564

29-18s-30w Lane Co

Job Ticket: 43684

DST#: 4

ATTN: Vern Schrag

Test Start: 2011.08.25 @ 12:59:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	mcw 90%w 10%m	1.240
150.00	ocmw 5%o 55%w 40%m	2.104
90.00	go 10%g 90%o	1.262
0.00	120 GIP	0.000

Total Length: 420.00 ft Total Volume: 4.606 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

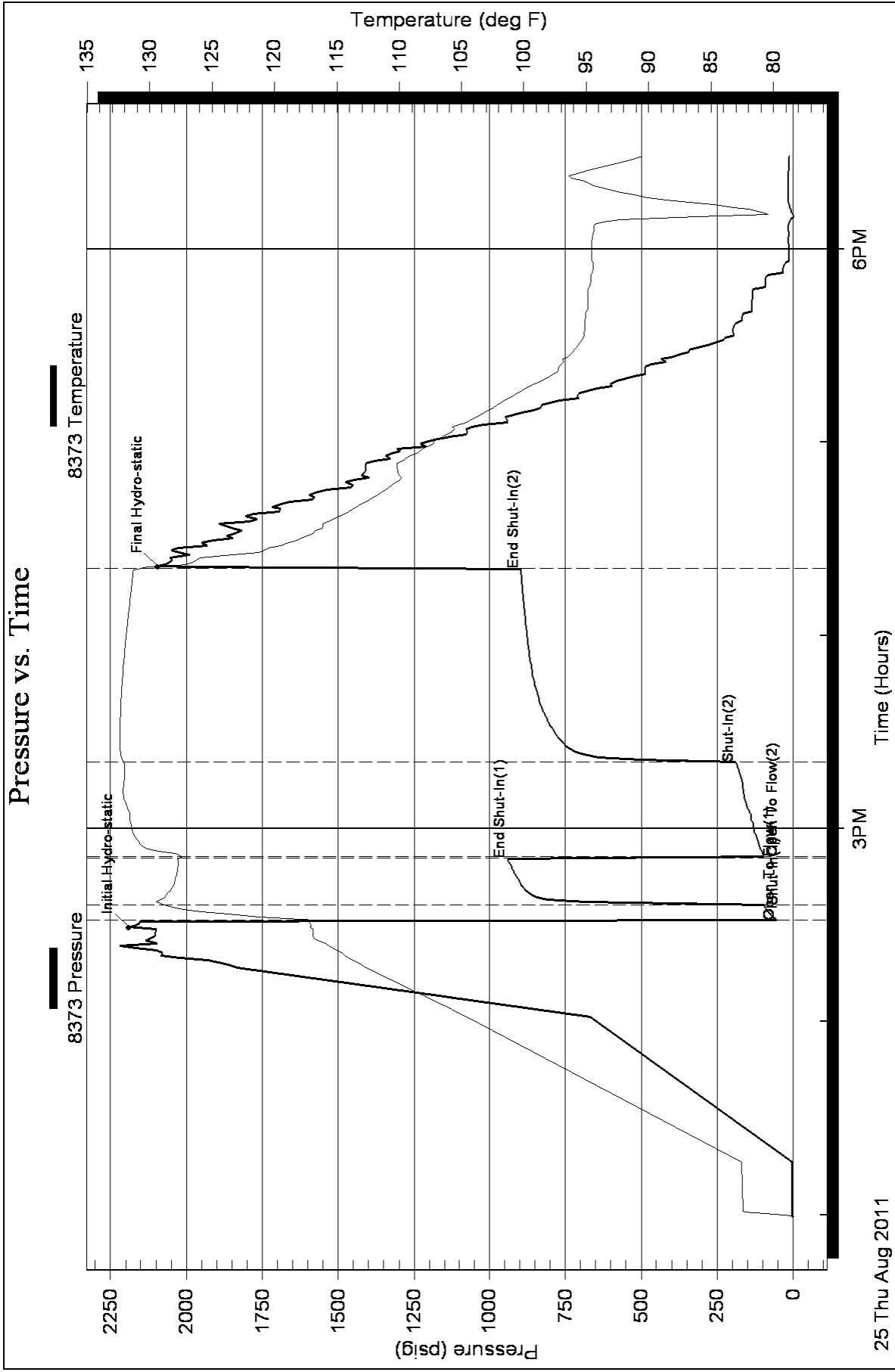
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 38@100=34

.20@100=23000





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, INC

562 W State Rd 4
Olmitz KS 67564

ATTN: Vern Schrag

Whiting-Dutoit # 1-29

29-18s-30w Lane Co

Job Ticket: 43685

DST#: 5

Test Start: 2011.08.26 @ 15:36:18

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:56:13

Time Test Ended: 20:51:27

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4373.00 ft (KB) To 4500.00 ft (KB) (TVD)

Reference Elevations: 2898.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

2891.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 41.43 psig @ 4378.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.26

End Date:

2011.08.26

Last Calib.:

2011.08.26

Start Time: 15:36:18

End Time:

20:51:27

Time On Btm:

2011.08.26 @ 17:53:58

Time Off Btm:

2011.08.26 @ 19:03:13

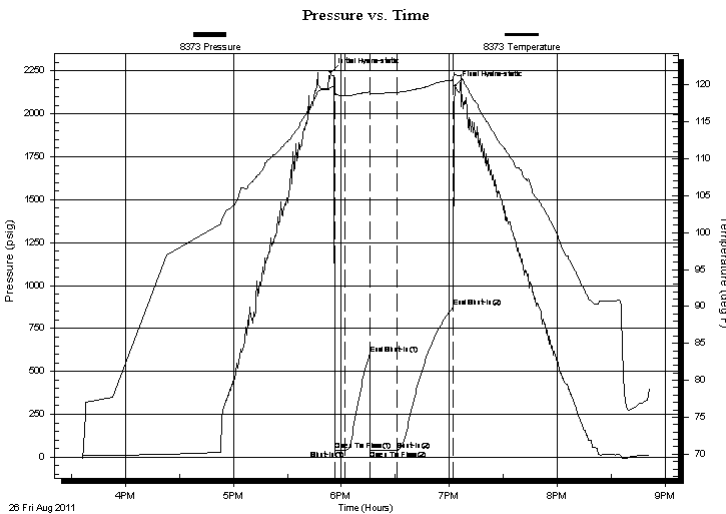
TEST COMMENT: IF: Surface blow died in 5 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.20	119.68	Initial Hydro-static
3	40.79	118.98	Open To Flow (1)
8	38.58	118.54	Shut-In(1)
22	603.29	119.03	End Shut-In(1)
22	37.74	118.74	Open To Flow (2)
37	41.43	118.97	Shut-In(2)
69	875.69	120.67	End Shut-In(2)
70	2162.27	121.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, INC

Whiting-Dutoit # 1-29

562 W State Rd 4
Olmitz KS 67564

29-18s-30w Lane Co

Job Ticket: 43685

DST#: 5

ATTN: Vern Schrag

Test Start: 2011.08.26 @ 15:36:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

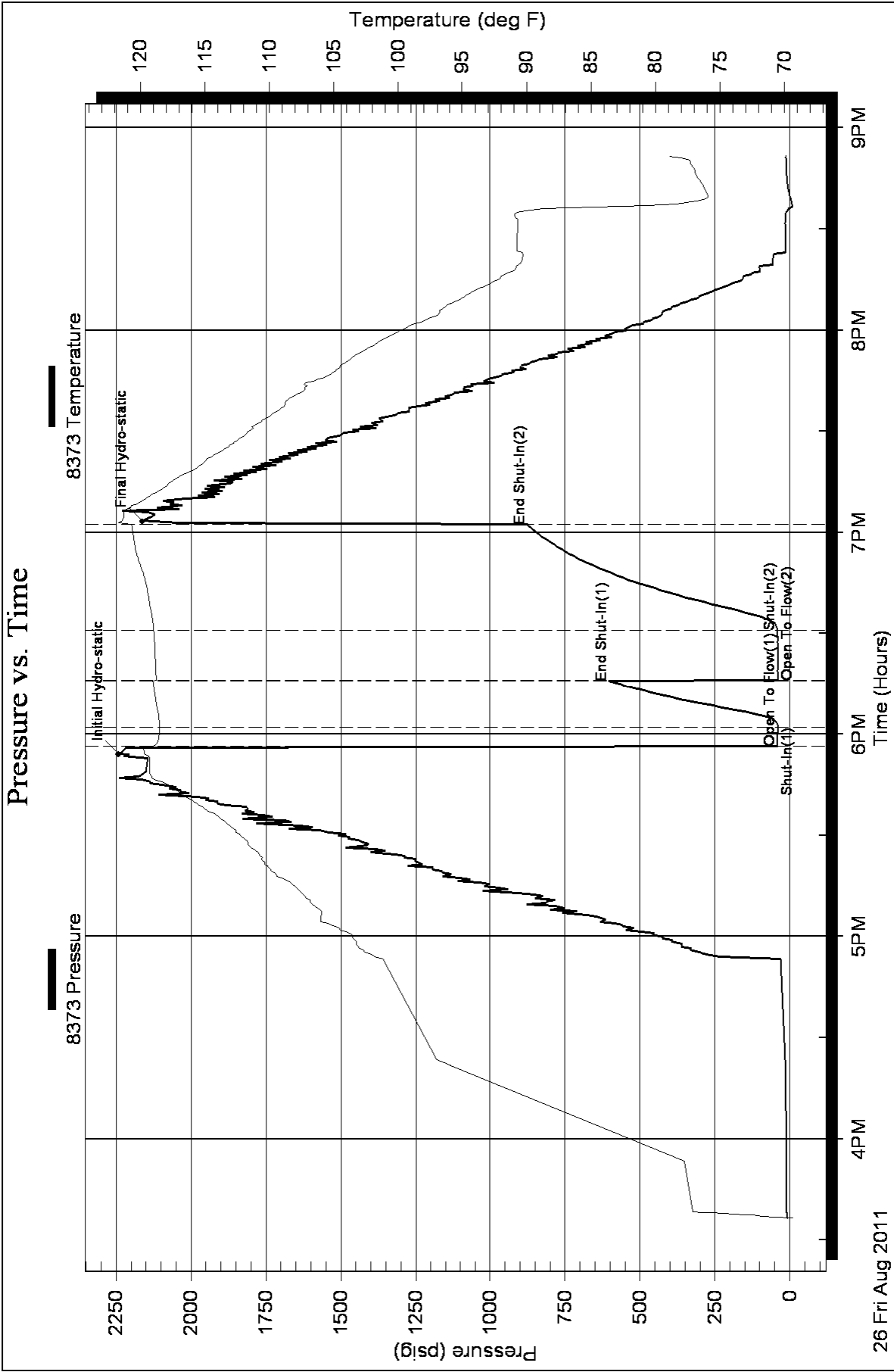
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

December 13, 2011

Thomas Larson
Larson Engineering, Inc. dba Larson Operating
Company
562 W STATE RD 4
OLMITZ, KS 67564-8561

Re: ACO1
API 15-101-22304-00-00
Whiting-Dutoit 1-29
SW/4 Sec.29-18S-30W
Lane 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,
Thomas Larson