



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1057149

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

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

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Harris Unit #1-20
Doc ID	1057149

Tops

Name	Top	Datum
Anhydrite	2186	+710
Base Anhydrite	2243	+653
Heebner Sh	3897	-1001
Lansing-KC	3938	-1042
Stark Sh	4219	-1323
Base KC	4302	-1406
Marmaton	4333	-1437
Pawnee	4427	-1531
Fort Scott	4477	-1581
Cherokee	4498	-162
Mississippi	4569	-1673

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Harris Unit #1-20
Doc ID	1057149

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	4548-50, 4553-55	250 Gal 15% NEFe	4548-50, 4553-55
4	4436-41	250 Gal 15% NEFe	4436-41
5	4383-85	250 Gal 15% NERe	4436-41, 4383-85
		300 Gal 15% MCA	4436-41, 4383-85
4	4357-70,	250 Gal 15% MCA	4357-70
4	4308-16	300 Gal 15% MCA	4357-70, 4308-16
		500 Gal 15% MCA	4357-70, 4308-16
	CIBP @ 4505'		
	Cmt retainer @ 4414'		
		Cmt perms w/ 75 sx std cmt	4436-41



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
2/24/2011	20527

BILL TO
Larson Engineering, Inc. 562 West State Road 4 Olmitz, KS 67564-8561

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-20	Harris Unit	Lane	Wild West Well S...	Oil	Development	Cement Port Collar	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
576D-D	Pump Charge - Port Collar - 2147 Feet				1	Job	1,100.00	1,100.00
290	D-Air				2	Gallon(s)	35.00	70.00T
276	Flocele				47	Lb(s)	1.50	70.50T
330	Swift Multi-Density Standard (MIDCON II)				185	Sacks	15.00	2,775.00T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				446.54	Ton Miles	1.00	446.54
	Subtotal							4,999.54
	Sales Tax Lane County						6.30%	183.68
Thank You For Your Business!							Total	\$5,183.22

9308



CHARGE TO: **LARSON ENGINEERING**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
20527

PAGE **1** OF **1**

SERVICE LOCATIONS
 1. **NESS CITY, KS.** WELL/PROJECT NO. LEASE **HARRIS UNIT 1-2D** COUNTY/PARISH **LANE** STATE **KS.** CITY **Amu, KS.** DATE **24 FEB 11** OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR **WILD WEST WELL SERV.** RIG NAME/NO. SHIPPED VIA **LOCATION** DELIVERED TO ORDER NO.
 3. WELL TYPE **DIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **CEMENT PORT COLLAR** WELL PERMIT NO. WELL LOCATION **3W, 1S, 1/2W, N INTO**
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #110	40	MIL			5 ⁰⁰	200 ⁰⁰
576D		1			PUMP CHARGE	1	JOB	2147	FT.	1100 ⁰⁰	1100 ⁰⁰
290		1			D-AIR	2	gal			35 ⁰⁰	70 ⁰⁰
276		1			FLOCELE	47	lbs			1 ⁵⁰	70 ⁵⁰
330		1			SWIFT MULTI DENSITY	185	SX			15 ⁰⁰	2775 ⁰⁰
581		1			SERVICE CHARGE	225	SX			1 ⁵⁰	337 ⁵⁰
583		1			DRAYAGE	22327	lbs	446	SAT	1 ⁰⁰	446 ⁵⁴

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 **24 FEB 11** TIME SIGNED **1500** 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	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				4999	54
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			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	5183 22

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

SWIFT OPERATOR **James E. Roadoff** APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 24 FEB 11 PAGE NO.

CUSTOMER
LARSON ENGINEERING

WELL NO.

LEASE
HARRIS UNIT 1-20

JOB TYPE
CEMENT PORT COLLAR

TICKET NO.
20527

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							ON LOCATION
	1327				✓		1000	PRESSURE UP - HELD
	1329	3			✓		300	OPEN PORT COLLAR TAKE IN RATE
	1333	4	103		✓		400 AU	MIX 185 SX SMD @ 11.2 PPG CIRCULATE 20 SX TO PIT
	1403							CLOSE PORT COLLAR
	1405				✓		1000	PRESSURE UP HELD
								RUN 4 JTS.
	1415	3	20		✓		300	REVERSE CEMENT OUT
	1435							WASH TRUCK
	1500							JOB COMPLETE.
								THANKS #110
								JASON, JEFF, JOE

RECEIVED FEB 24 2011



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
2/22/2011	20149

BILL TO
Larson Engineering, Inc. 562 West State Road 4 Olmitz, KS 67564-8561

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-20	Harris Unit	Lane	H D Drilling Rig #3	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
578D-L	Pump Charge - Long String - 4650 Feet				1	Job	1,400.00	1,400.00
281	Mud Flush				500	Gallon(s)	1.00	500.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
419-5	5 1/2" Rotating Head Rental				1	Each	150.00	150.00T
276	Floccle				57	Lb(s)	1.50	85.50T
277	Gilsonite (Coal Seal)				700	Lb(s)	0.40	280.00T
283	Salt				500	Lb(s)	0.15	75.00T
284	Calseal				5	Sack(s)	30.00	150.00T
285	CFR-1				47	Lb(s)	4.00	188.00T
325	Standard Cement				100	Sacks	12.00	1,200.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	15.00	1,875.00T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				471.28	Ton Miles	1.00	471.28
Subtotal								7,032.28
Sales Tax Lane County							6.30%	291.28
We Appreciate Your Business!							Total	\$7,323.56

9308



CHARGE TO: **LARSON ENGINEERING**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
20149

SERVICE LOCATIONS: 1. **NESS CITY, KS**
 WELL/PROJECT NO.:
 LEASE: **HARRIS UNIT 1-2D** COUNTY/PARISH: **LANE** STATE: **KS.** CITY: **AMY, KS.** DATE: **22 FEB 11** OWNER:
 TICKET TYPE: SERVICE SALES CONTRACTOR: **HD DRILLING RIG #3** RIG NAME/NO.:
 WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **S 2 LONGSTRING** DELIVERED TO: **LOCATION** ORDER NO.:
 REFERRAL LOCATION: INVOICE INSTRUCTIONS: **3W, 1S, 2W, NINTD**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #110	40	MIL			5.00	200.00
578		1			Pump CHARGE	1	4650 FT			1400.00	1400.00
281		1			MUD FLUSH	500	GAZ			1.00	500.00
221		1			LIQUID KCL	2	GAZ			25.00	50.00
290		1			D-AIR	2	GAZ			35.00	70.00
419		1			ROTATING HEAD RENTAL	1	ADB			150.00	150.00

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: **22 FEB 11** TIME SIGNED: **1915** 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		AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE 1	2370.00
WE UNDERSTOOD AND MET YOUR NEEDS?				PAGE TOTAL	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				PAGE 2	4662.28
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				sub total	7032.28
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				Lane TAX 6.3%	291.28
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	7323.56

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



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

TICKET CONTINUATION

TICKET No. 20149

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
276		1				FLDCELE	57	lbs			1.50	85.50
277		1				COAL SEAC	700	lbs			.40	280.00
283		1				SALT	500	lbs			.15	75.00
284		1				CALSGAL	5	sx			30.00	150.00
285		1				CFR-1	47	lbs			4.00	188.00
325		1				STANDARD CEMENT	100	sx			12.00	1200.00
330		1				SWIFT MULTI DENSITY STANDARD	125	sx			15.00	1875.00
581		1				SERVICE CHARGE					1.50	337.50
583		1				MILEAGE CHARGE					1.00	471.28
							TOTAL WEIGHT	23564				
							LOADED MILES	410				
							TON MILES	471.28				
											CONTINUATION TOTAL	4662.28

JOB LOG

SWIFT Services, Inc.

DATE **22 FEB 11** PAGE NO.

CUSTOMER
LARSON ENGINEERING

WELL NO.

LEASE
HARRIS UNIT 1-20

JOB TYPE
5 1/2" LONG STRING.

TICKET NO.
20149

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							ON LOCATION 5 1/2" 15.5ppg RIDE @ 4650 SHOE JT. 42.48'
	1645							DROP BALL CIRCULATE
	1749	6	5		✓		200	Pump 5 BBL KCL FLUSH
		6	12		✓		200	Pump 500 gal MUD FLUSH
		6	15		✓		200	Pump 15 BBL KCL FLUSH
	1756		7					PLUG RH (30 sx)
	1758	4	34 1/2		✓		200	MIX 95 sx SMD @ 12.7ppg
		4	24		✓		200	MIX 100 sx EA2 @ 15.5ppg
								WASH OUT PUMPING LINES.
	1824	7			✓			RELEASE PLUG START DISPLACEMENT
	1841		109 1/2		✓		1500	PLUG DOWN PRESSURE UP LATCA PLUG IN
	1843							RELEASE PRESSURE DRY
	1845							WASH TRUCK
	1915							JOB COMPLETE
								THANKS B/D
								JASON JEFF LANE

ALLIED CEMENTING CO., LLC. 038655

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: AB

DATE <u>2-5-11</u>	SEG <u>20</u>	TWP <u>18</u>	RANGE <u>30</u>	CALLED OUT <u>—</u>	ON LOCATION <u>—</u>	JOB START <u>1:00 PM</u>	JOB FINISH <u>1:30 PM</u>
LEASE <u>Harris unit</u>			WELL# <u>1-20</u>	LOCATION <u>Dighton 10w 15 3/4w</u>		COUNTY <u>lane</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>N/S</u>			

CONTRACTOR H-D Rig 3

TYPE OF JOB Surface job

HOLE SIZE 12 1/4" T.D. 25 1/8

CASING SIZE 8 3/8" DEPTH 25 1/8

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15

PERFS. _____

DISPLACEMENT 15 bbl

OWNER _____

CEMENT AMOUNT ORDERED 175 lb Comm 3200 28 gal

COMMON	<u>175</u>	@ <u>13.50</u>	<u>2,362.50</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>20.25</u>	<u>60.75</u>
CHLORIDE	<u>6</u>	@ <u>51.50</u>	<u>309.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>175</u>	@ <u>2.25</u>	<u>393.75</u>
MILEAGE	<u>175 x 30 x .10</u>		<u>525.00</u>
TOTAL			<u>3,651.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Mike M.

223 HELPER Bob R.

BULK TRUCK DRIVER Wynn W.

_____ DRIVER _____

REMARKS:

Mix Cement + Displace + Down Cement did circulate to surface

SERVICE

DEPTH OF JOB	<u>25 1/8 ft</u>		
PUMP TRUCK CHARGE			<u>991.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>30</u>	@ <u>7.00</u>	<u>210.00</u>
MANIFOLD		@	
		@	
		@	
TOTAL			<u>1201.00</u>

CHARGE TO: Larson Engineering

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL			_____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME LEWAYNE TRESNER

SIGNATURE Lewayne Tresner

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Thank you SSS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

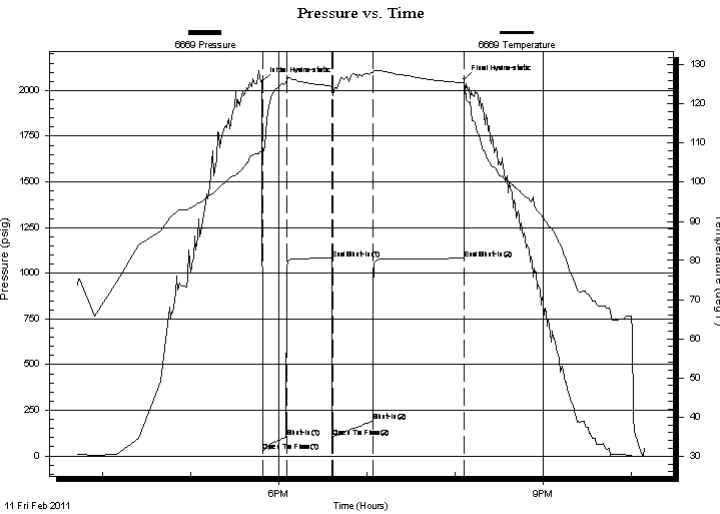
Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040682 **DST#: 1**
Test Start: 2011.02.11 @ 15:43:15

GENERAL INFORMATION:

Formation: **Lansing "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:49:00
 Time Test Ended: 22:09:00
 Interval: **4110.00 ft (KB) To 4145.00 ft (KB) (TVD)**
 Total Depth: 4145.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 2896.00 ft (KB)
 2889.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6669 Outside
 Press @ Run Depth: 191.44 psig @ 4140.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.11 End Date: 2011.02.11 Last Calib.: 2011.02.11
 Start Time: 15:43:15 End Time: 22:09:00 Time On Btm: 2011.02.11 @ 17:48:45
 Time Off Btm: 2011.02.11 @ 20:06:15

TEST COMMENT: IF: Built to 10" blow
 IS: No return blow
 FF: BOB in 23 min.
 FS: NO return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.99	107.75	Initial Hydro-static
1	24.90	106.86	Open To Flow (1)
17	104.69	125.43	Shut-In(1)
48	1081.30	124.53	End Shut-In(1)
48	102.46	122.12	Open To Flow (2)
76	191.44	128.09	Shut-In(2)
137	1080.82	125.38	End Shut-In(2)
138	2061.45	125.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	free oil	0.00
360.00	sw	4.04

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040682 **DST#: 1**
Test Start: 2011.02.11 @ 15:43:15

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: 11500 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

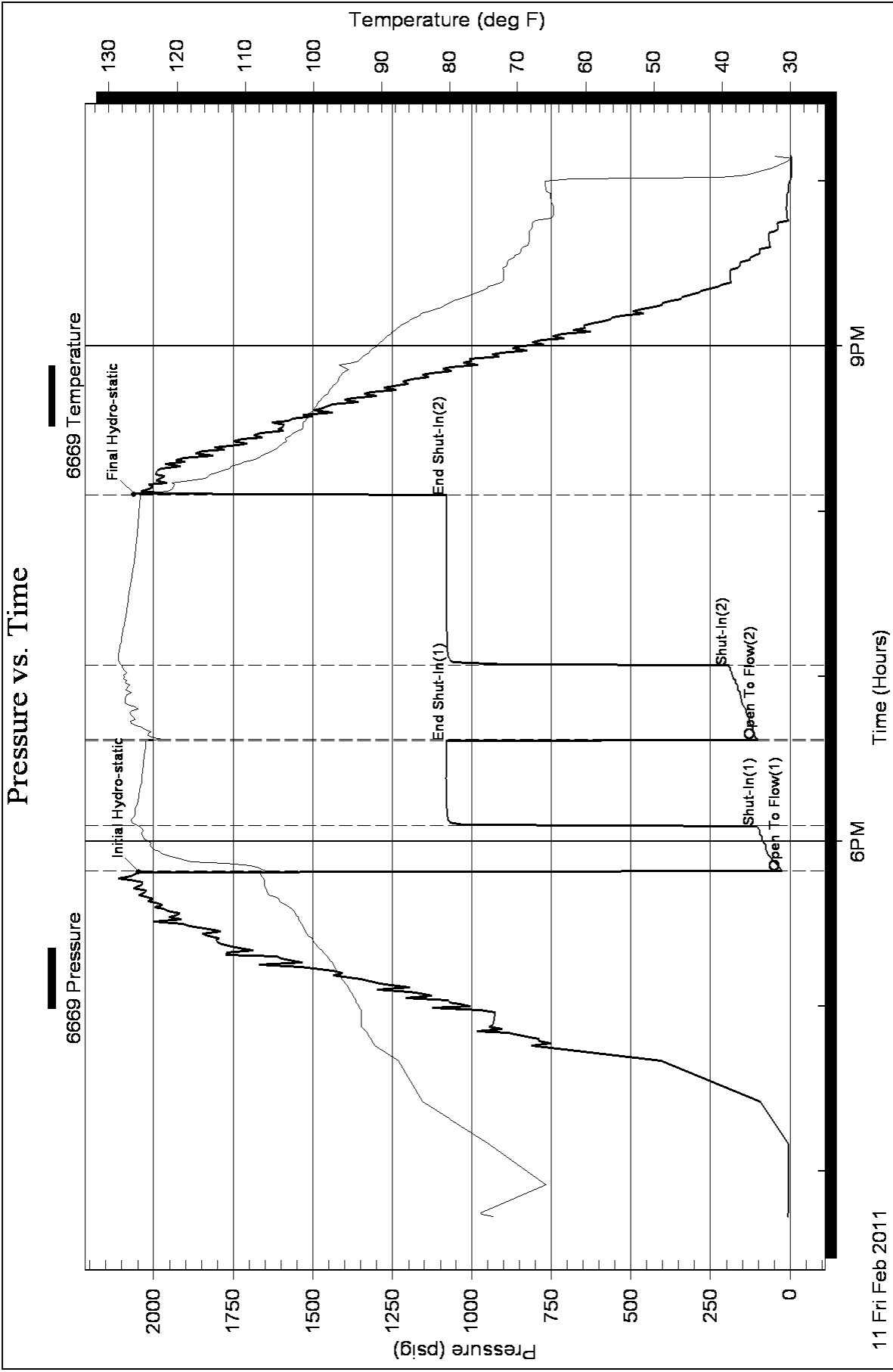
Length ft	Description	Volume bbl
1.00	free oil	0.005
360.00	sw	4.039

Total Length: 361.00 ft Total Volume: 4.044 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .386@52.3*=11,500 ppm



11 Fri Feb 2011



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

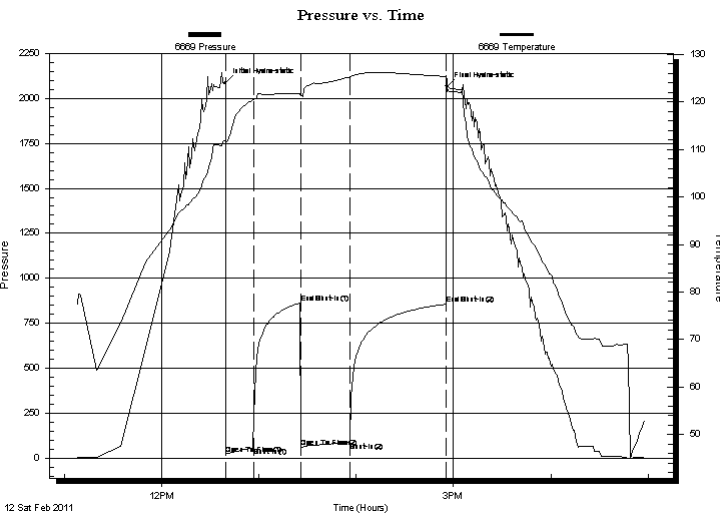
Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040683 **DST#: 2**
Test Start: 2011.02.12 @ 11:08:15

GENERAL INFORMATION:

Formation: **Lansing "I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:39:45
Time Test Ended: 16:57:45
Interval: **4175.00 ft (KB) To 4190.00 ft (KB) (TVD)**
Total Depth: 4175.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 48
Reference Elevations: 2896.00 ft (KB)
2889.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6669 Outside
Press @ Run Depth: 88.01 psig @ 4185.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.02.12 End Date: 2011.02.12 Last Calib.: 2011.02.12
Start Time: 11:08:15 End Time: 16:57:45 Time On Btm: 2011.02.12 @ 12:39:30
Time Off Btm: 2011.02.12 @ 14:55:45

TEST COMMENT: IF: Built to 4" blow
IS: No return blow
FF: Built to 4" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.11	111.73	Initial Hydro-static
1	21.29	111.38	Open To Flow (1)
17	57.59	120.55	Shut-In(1)
47	863.65	121.63	End Shut-In(1)
47	61.07	121.28	Open To Flow (2)
77	88.01	125.25	Shut-In(2)
136	856.88	125.34	End Shut-In(2)
137	2066.85	124.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	free oil	0.01
142.00	mcsw 30%m 70%w	1.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040683 **DST#: 2**
Test Start: 2011.02.12 @ 11:08:15

Mud and Cushion Information

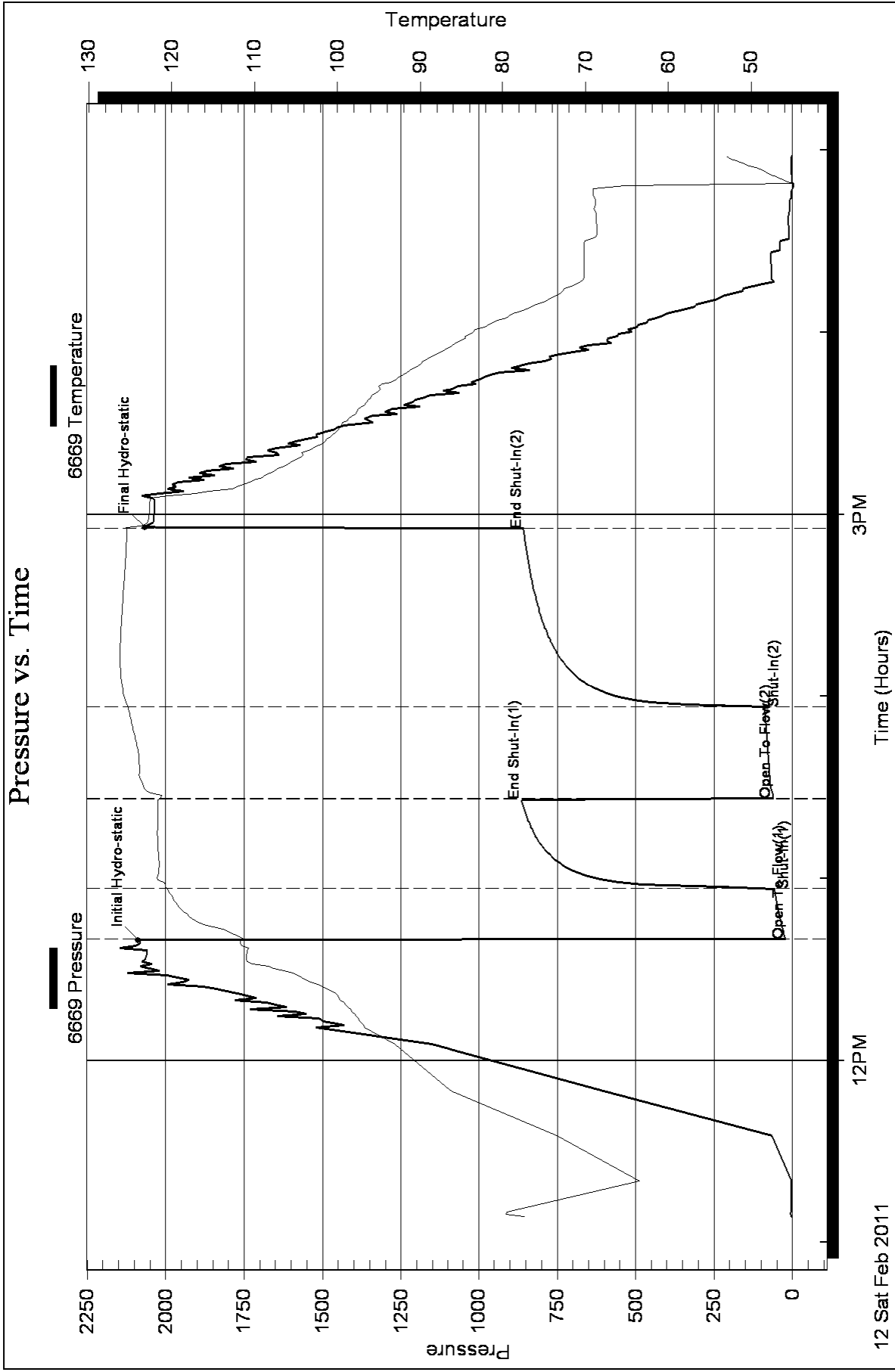
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	free oil	0.015
142.00	mcsw 30%m 70%w	0.999

Total Length: 145.00 ft Total Volume: 1.014 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW=.381 @57.7=12,100ppm





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

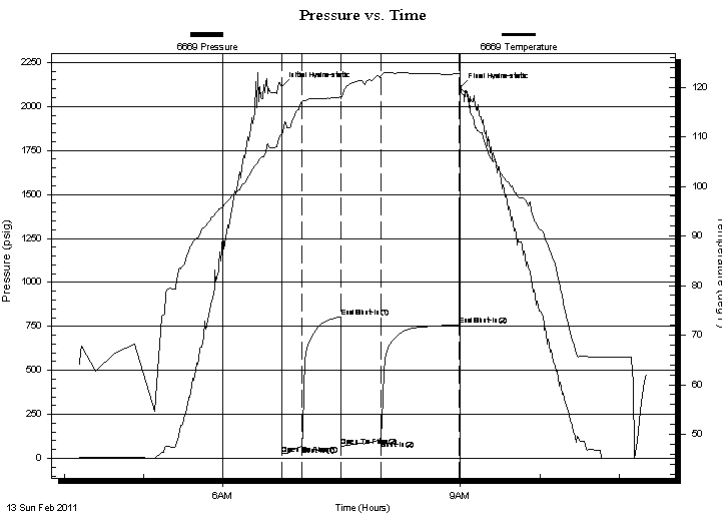
Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040684 **DST#: 3**
Test Start: 2011.02.13 @ 04:11:15

GENERAL INFORMATION:

Formation: **Lansing "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:44:45
Time Test Ended: 11:21:15
Interval: **4218.00 ft (KB) To 4234.00 ft (KB) (TVD)**
Total Depth: 4234.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 48
Reference Elevations: 2896.00 ft (KB)
2889.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6669 Outside
Press @ RunDepth: 102.04 psig @ 4229.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.02.13 End Date: 2011.02.13 Last Calib.: 2011.02.13
Start Time: 04:11:15 End Time: 11:21:15 Time On Btm: 2011.02.13 @ 06:44:30
Time Off Btm: 2011.02.13 @ 09:00:00

TEST COMMENT: IF: Built to 5" blow
IS: No return blow
FF: Built to 4" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.29	110.43	Initial Hydro-static
1	24.54	110.19	Open To Flow (1)
16	66.66	117.02	Shut-In(1)
45	801.25	117.99	End Shut-In(1)
45	71.08	117.76	Open To Flow (2)
75	102.04	122.24	Shut-In(2)
135	759.67	122.66	End Shut-In(2)
136	2104.06	121.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	free oil 100% o	0.37
49.00	mco 30% m 70% o	0.35
112.00	ocm 10% o 90% m	1.57

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040684 **DST#: 3**
Test Start: 2011.02.13 @ 04:11:15

Mud and Cushion Information

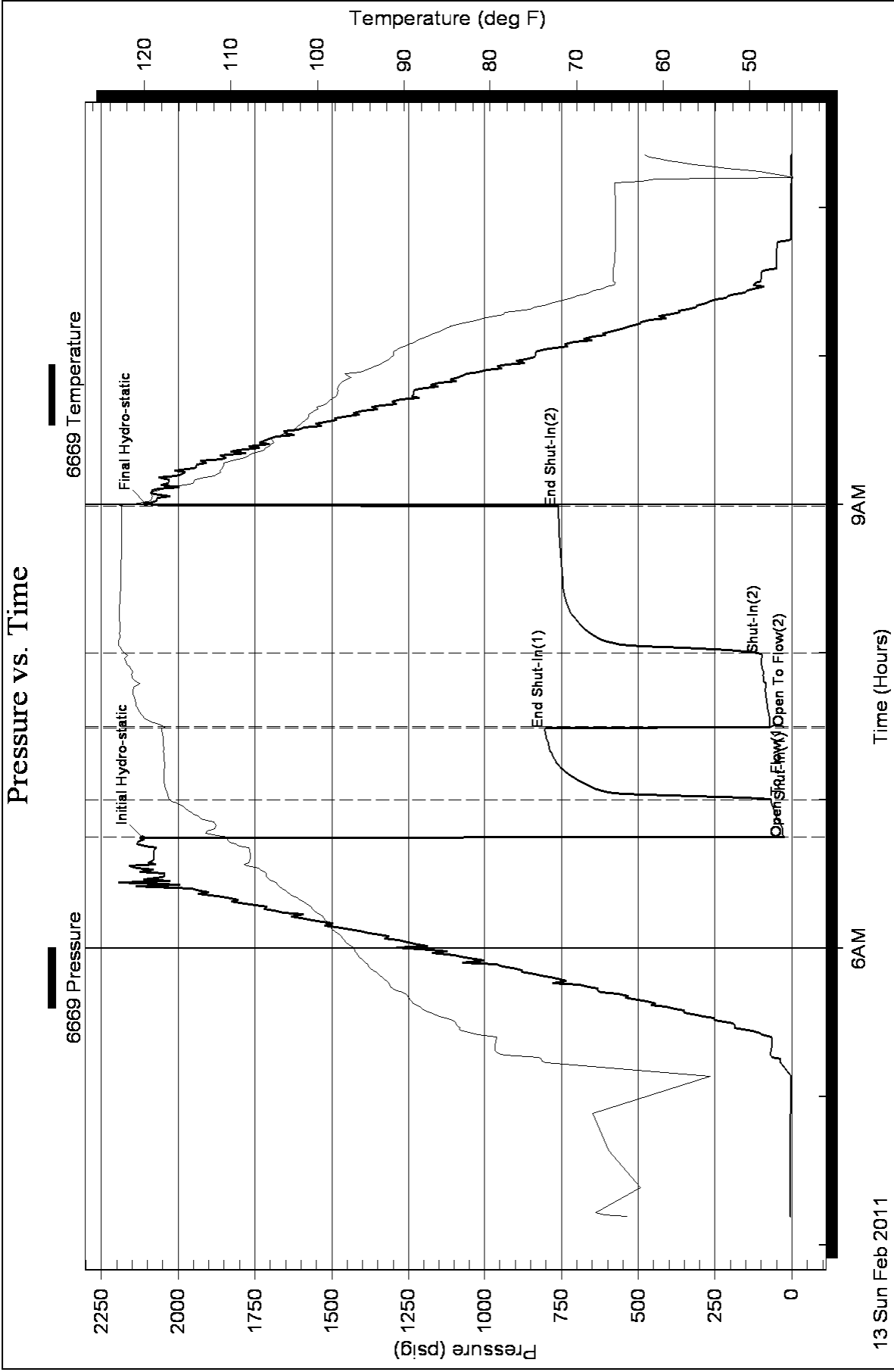
Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	free oil100% o	0.369
49.00	mco 30%m 70%o	0.350
112.00	ocm 10%o 90%m	1.571

Total Length: 236.00 ft Total Volume: 2.290 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: API= 36@60





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

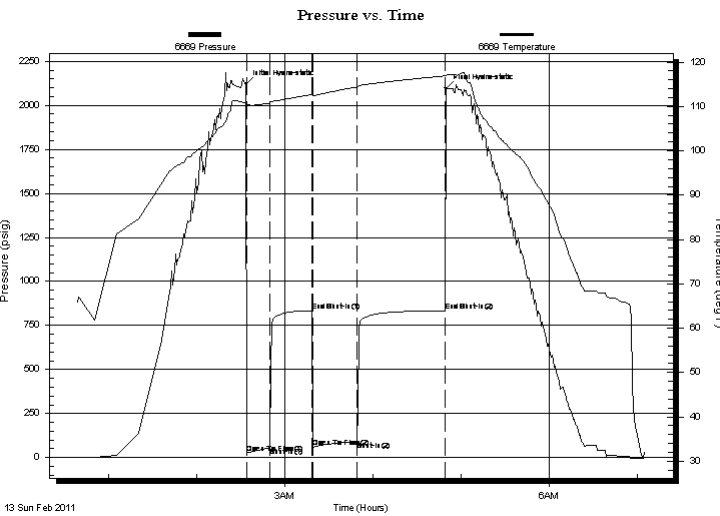
Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040685 **DST#: 4**
Test Start: 2011.02.13 @ 00:39:00

GENERAL INFORMATION:

Formation: **Lansing "L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:34:00
Time Test Ended: 07:04:45
Interval: **4258.00 ft (KB) To 4279.00 ft (KB) (TVD)**
Total Depth: 4279.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 48
Reference Elevations: 2896.00 ft (KB)
2889.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6669 Outside
Press @ Run Depth: 93.47 psig @ 4274.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.02.13 End Date: 2011.02.13 Last Calib.: 2011.02.14
Start Time: 00:39:15 End Time: 07:04:45 Time On Btm: 2011.02.13 @ 02:33:45
Time Off Btm: 2011.02.13 @ 04:49:30

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Built to 2" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.88	110.87	Initial Hydro-static
1	24.69	109.54	Open To Flow (1)
17	57.51	110.78	Shut-In(1)
45	834.64	112.70	End Shut-In(1)
46	59.61	112.46	Open To Flow (2)
76	93.47	114.40	Shut-In(2)
136	834.25	116.91	End Shut-In(2)
136	2096.49	117.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	free oil	0.01
112.00	sw 100% sw	0.57

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040685 **DST#: 4**
Test Start: 2011.02.13 @ 00:39:00

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: 20000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

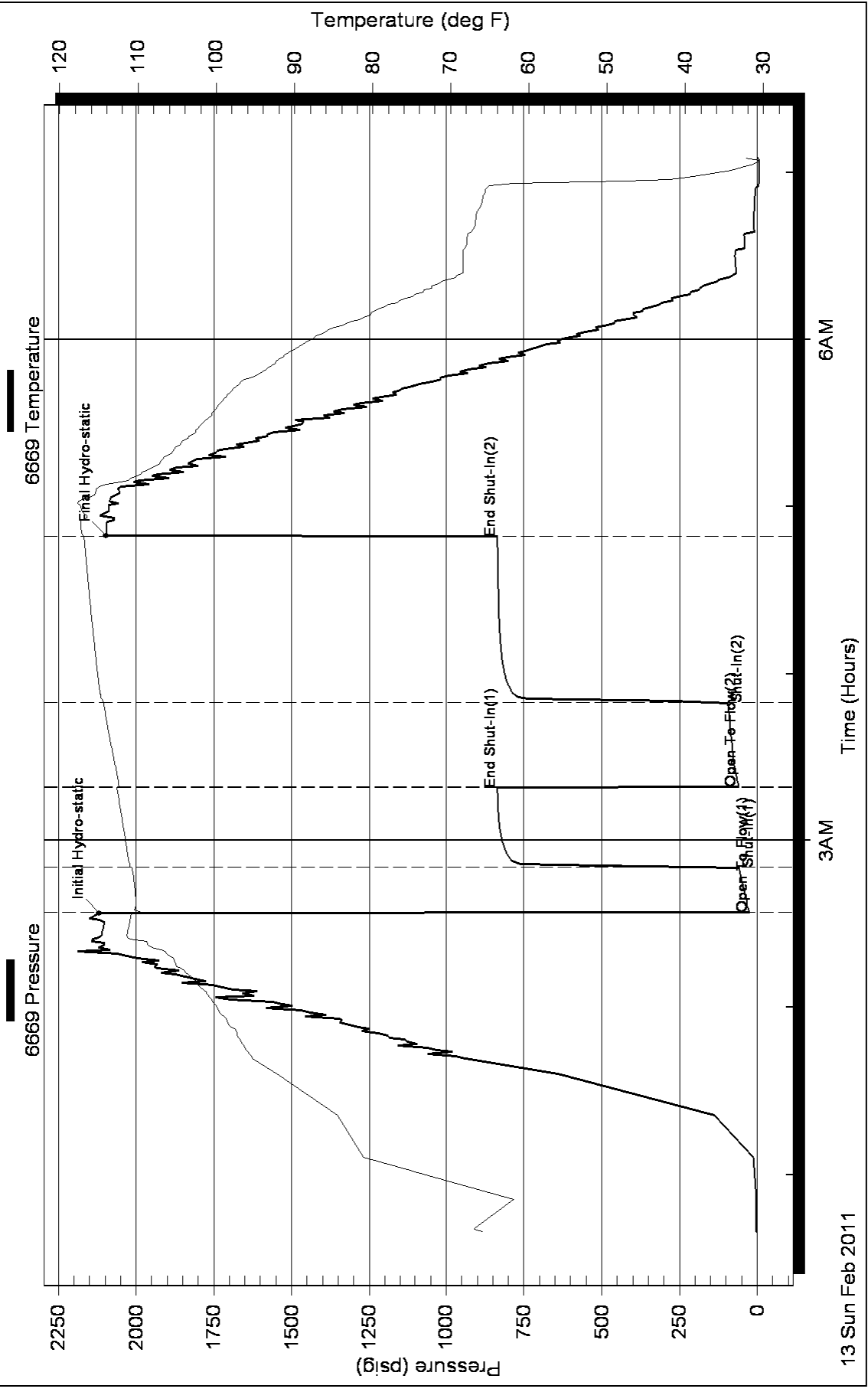
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	free oil	0.010
112.00	sw 100% sw	0.569

Total Length: 114.00 ft Total Volume: 0.579 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW= 31.2* @ .712=20,000 ppm

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040686 **DST#: 5**
Test Start: 2011.02.14 @ 16:39:15

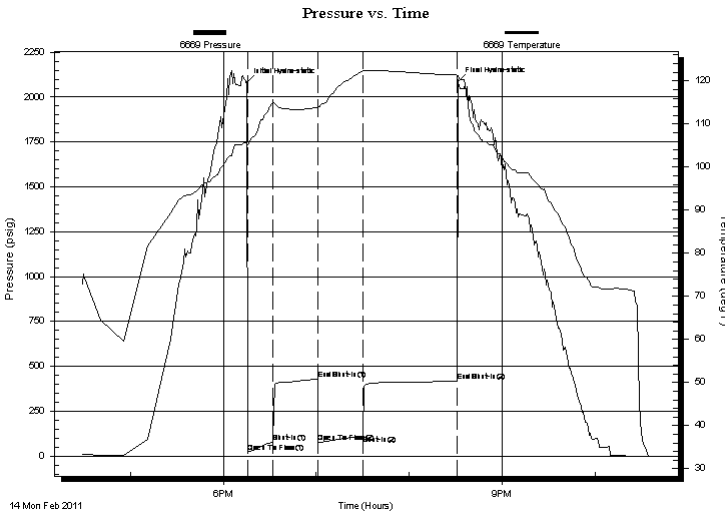
GENERAL INFORMATION:

Formation: **Lansing "L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:25:45
Time Test Ended: 22:45:30
Interval: **4267.00 ft (KB) To 4291.00 ft (KB) (TVD)**
Total Depth: 4291.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2896.00 ft (KB)
2889.00 ft (CF)
KB to GR/CF: 7.00 ft
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 48

Serial #: 6669 Outside
Press @ Run Depth: 112.78 psig @ 4286.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.02.14 End Date: 2011.02.14 Last Calib.: 2011.02.14
Start Time: 16:29:15 End Time: 22:35:30 Time On Btm: 2011.02.14 @ 18:15:15
Time Off Btm: 2011.02.14 @ 20:31:45

TEST COMMENT: IF: Built to 5" blow
IS: No return blow
FF: Built to 3" blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2079.66	105.67	Initial Hydro-static
1	21.62	105.28	Open To Flow (1)
17	75.04	114.82	Shut-In(1)
46	429.64	113.80	End Shut-In(1)
46	75.83	113.74	Open To Flow (2)
75	112.78	122.32	Shut-In(2)
136	415.28	121.33	End Shut-In(2)
137	2087.36	121.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	free oil	0.01
172.00	w cm 70% m 30% w	1.41

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040686 **DST#: 5**
Test Start: 2011.02.14 @ 16:39:15

Mud and Cushion Information

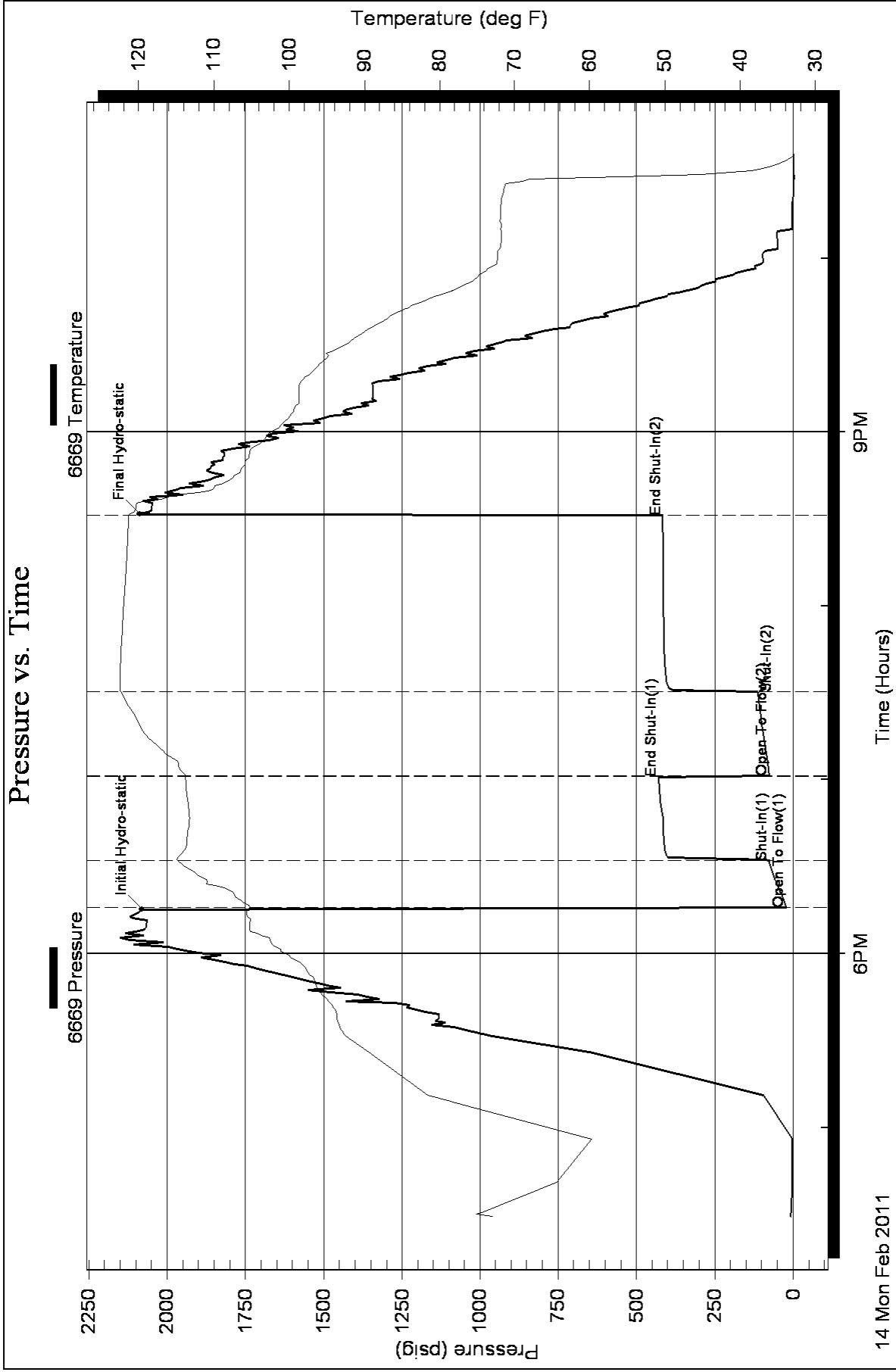
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	free oil	0.010
172.00	w cm 70% m 30% w	1.411

Total Length: 174.00 ft Total Volume: 1.421 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
 562 West State Road 4
 Olmitz KS 67564
 ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
 Job Ticket: 040687 **DST#: 6**
 Test Start: 2011.02.15 @ 11:21:15

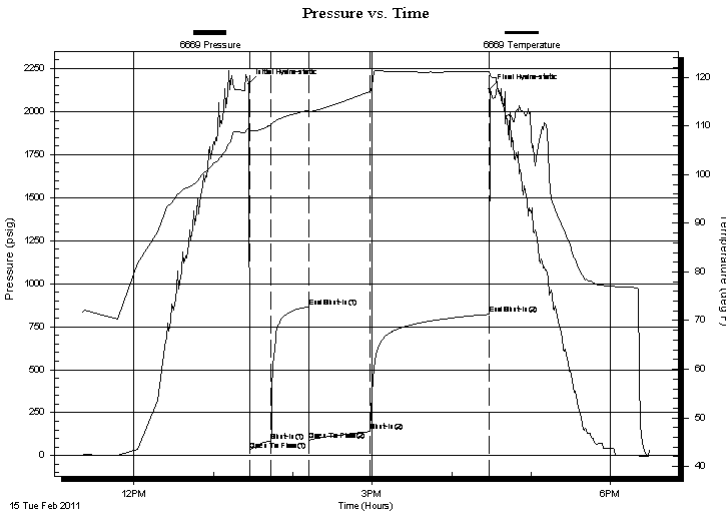
GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:27:15
 Time Test Ended: 18:30:00
Interval: 4298.00 ft (KB) To 4374.00 ft (KB) (TVD)
 Total Depth: 4374.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 2896.00 ft (KB)
 2889.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6669 Outside
 Press @ Run Depth: 140.66 psig @ 4369.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.15 End Date: 2011.02.15 Last Calib.: 2011.02.15
 Start Time: 11:21:15 End Time: 18:30:00 Time On Btm: 2011.02.15 @ 13:27:00
 Time Off Btm: 2011.02.15 @ 16:28:45

TEST COMMENT: IF: Built to 6" blow
 IS: No return blow
 FF: Built to 7" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.03	109.43	Initial Hydro-static
1	31.71	108.57	Open To Flow (1)
17	86.52	110.26	Shut-In(1)
45	862.87	113.23	End Shut-In(1)
46	90.16	113.03	Open To Flow (2)
92	140.66	117.14	Shut-In(2)
181	821.69	121.24	End Shut-In(2)
182	2131.21	120.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
298.00	mud with oil spots	3.16

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 West State Road 4
Olmitz KS 67564
ATTN: Bob Lew ellyn

Harris Unit 1-20
20-18-30 Lane CO KS
Job Ticket: 040687 **DST#: 6**
Test Start: 2011.02.15 @ 11:21:15

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: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

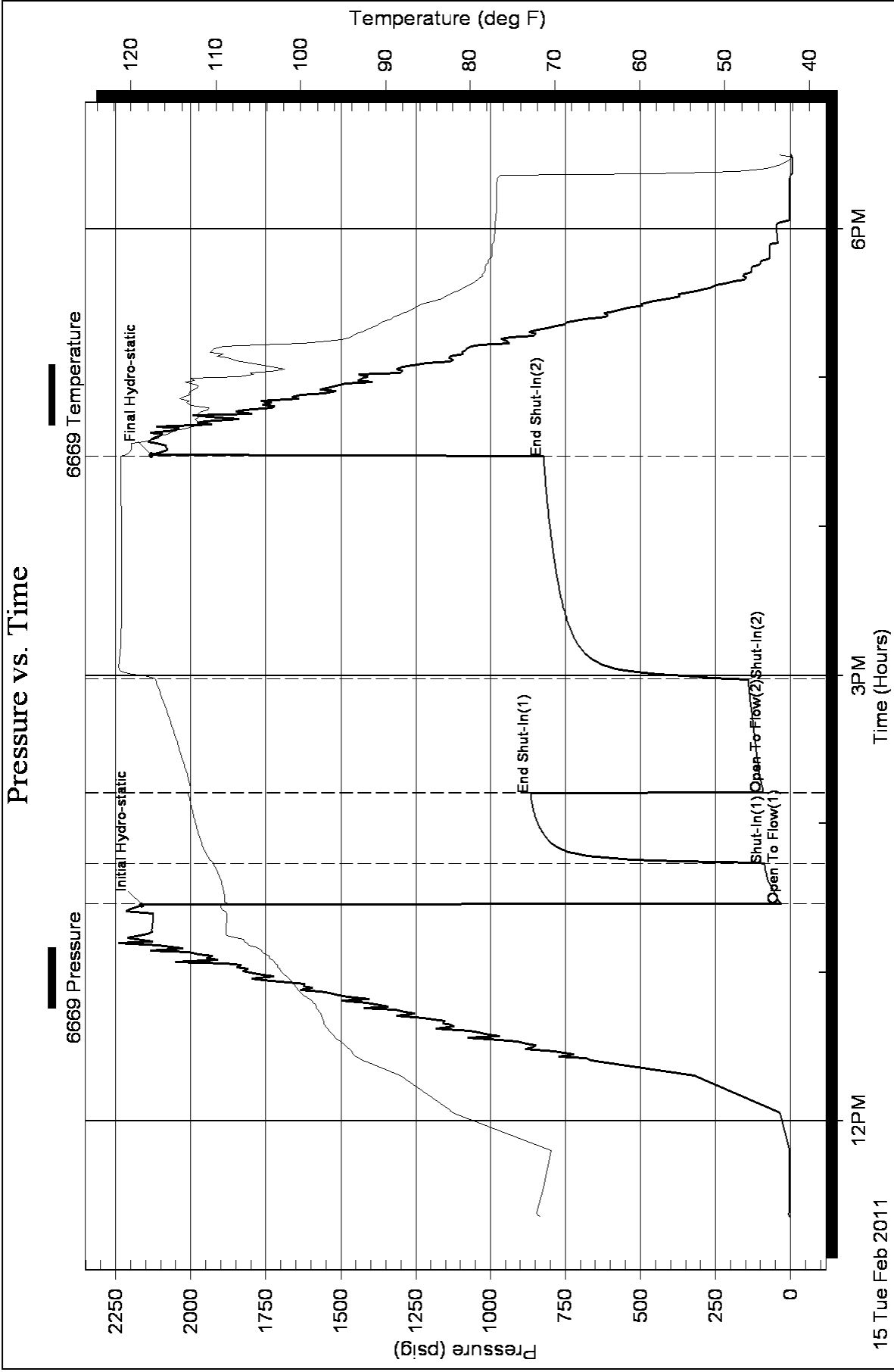
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
298.00	mud w ith oil spots	3.160

Total Length: 298.00 ft Total Volume: 3.160 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Kechi, Kansas 67067
316-518-0495
boblewellyn@yahoo.com

GEOLOGICAL REPORT

Larson Engineering, Inc.

No. 1-20 Harris Unit
728' FSL & 2502' FWL Sec. 20-18S-30W
Lane County, Kansas

CONTRACTOR: H D Drilling, LLC
SPUDDED: February 05, 2011
DRILLING COMPLETED: February 22, 2011
SURFACE CASING: 8 5/8" @ 255 KBM/175 sx.
ELECTRIC LOGS: DIL CNL/CDL MEL
ELEVATIONS: 2896 KB 2889 GL

FORMATION TOPS: (Electric Log)

Anhydrite	2186 (+ 710)
Base Anhydrite	2243 (+ 653)
Heebner Shale	3897 (-1001)
Lansing-Kansas City Group	3938 (-1042)
Muncie Creek Shale	4117 (-1221)
Stark Shale	4219 (-1323)
Hushpuckney Shale	4262 (-1366)
Base Kansas City	4302 (-1406)
Marmaton	4333 (-1437)
Pawnee	4427 (-1531)
Myrick Station	4458 (-1562)
Fort Scott	4477 (-1581)
Cherokee	4498 (-1602)
Mississippian	4569 (-1673)
Electric Log Total Depth	4651 (-1755)

Samples were examined microscopically from 3800 to Rotary Total Depth. Samples were examined wet and dry and samples from potentially productive zones were viewed under a fluoroscope and checked for oil cut. Following is a description of zones of interest, Drill Stem Tests, etc. For a complete lithologic description of all formations refer to the sample log in the back pages of this report.

Lansing-Kansas City Zones:

3938-3964 (A Zone)

Limestone, cream to buff, dense and chalky to finely crystalline, slightly fossiliferous, trace of poor to fair scattered vugular porosity, some scattered dead stain, no show of live oil

3974-3987 (B Zone)

Limestone, cream to buff, dense to finely crystalline and slightly fossiliferous, some chalky, scattered poor intercrystalline and vugular porosity with dead stain, no show of live oil. Some finely oolitic limestone with black oolites.

3989-4021 (C/D Zone)

Limestone, cream, some buff, trace of tan, dense with much chalk, some scattered finely crystalline, slightly fossiliferous, zone is mostly tight with no shows of oil.

4023-4039 (E Zone)

Limestone, buff to tan, dense to finely crystalline, slightly fossiliferous, scattered poor intercrystalline and vugular porosity, trace of dead stain, no show of live oil.

4040-4056 (F Zone)

Limestone, cream to buff to tan, dense to finely crystalline, scattered poor to fair intercrystalline and vugular porosity, trace of scattered dead stain, one or two pieces with questionable very poor spotted stain, no free oil, no odor, no fluorescence, no cut, zone warrants no further evaluation.

4059-4069 (G Zone)

Limestone, cream to buff, some gray, finely crystalline and partly oolitic, trace of very poor intercrystalline, interoolitic, and scattered oolitic porosity, no show of oil. Lower portion of section consisted of cream, dense and chalky limestone, some finely crystalline with poor intercrystalline porosity and no show of oil.

4131-4145 (H Zone)

Limestone, buff to tan, dense to finely crystalline, slightly fossiliferous, fair intercrystalline and interfossil porosity, some fair vugular porosity, fair spotted stain, good show of free oil, good odor, good fluorescence, good cut.

Drill Stem Test No. 1

4110-4145

15-30-30-60; built to 10 inch blow on first flow period, no blowback; blow off bottom of bucket in 23 minutes on second flow, no blowback; recovered one foot of free oil and 360 feet of saltwater.

ISIP 1081# FSIP 1080# IFP 24-104# FFP 102-191# IHP 2046# FHP 2061# BHT N/A

The lower portion of the H Zone consisted of limestone, buff to tan to brown, dense to finely crystalline, mostly tight with a trace of poor spotted stain.

4173-4190 (I Zone)

Limestone, buff to tan, trace of gray, dense to finely crystalline, fossiliferous in part, poor to fair intercrystalline and interfossil porosity, scattered poor spotted stain, fair show of free oil, fair odor, poor fluorescence, fair cut, trace of white to light gray sub-translucent chert.

Drill Stem Test No. 2

4175-4190

15-30-30-60; blow built to 4" on first flow, no blowback; blow built to 4" on second flow, no blowback; recovered 3 feet of free oil and 142 feet of mud cut saltwater (70% water, 30% mud) ISIP 863# FSIP 856# IFP 21-57# FFP 61-88# IHP 2087# FHP 2066# BHT N/A.

4198-4219 (J Zone)

Limestone, buff to tan and gray, finely crystalline and partly oolitic, partly mealy with scattered cream chalky, zone is mostly tight with only a trace of very poor intercrystalline and interoolitic porosity, rare trace of very poor spotted stain with scattered dead stain, no free oil, no odor, no fluorescence, no cut. Zone warrants no further evaluation.

4228-4234 (K Zone)

Limestone, buff to tan, some gray, dense to finely crystalline, slightly fossiliferous and oolitic, fair intercrystalline porosity with scattered fair spotted stain, fair show of free oil, fair to good odor, fair fluorescence, good cut.

Drill Stem Test No. 3

4218-4234

15-30-30-60; built to 5 inch blow on first flow, no blowback; built to 4 inch blow on second flow; recovered 75 feet of free oil, 49 feet of mud cut oil (70% oil, 30% mud), 112 feet of oil cut mud (10% oil, 90% mud). ISIP 801# FSIP 759# IFP 24-66# FFP 71-102# IHP 2114# FHP 2104# BHT 122 degrees.

4238-4249 (K2 Zone)

Limestone, buff to tan, finely crystalline, trace of medium crystalline, slightly fossiliferous and oolitic, fair intercrystalline porosity, rare trace of very poor spotted stain, no free oil, no odor, no fluorescence, no cut, zone warrants no further evaluation.

4255-4259 (K3 Zone)

Limestone, buff to tan, finely crystalline, trace of medium crystalline, slightly fossiliferous and oolitic, fair intercrystalline porosity, some scattered vugular porosity, poor to fair spotted stain, slight show of free oil, fair odor, poor to fair fluorescence, fair cut. Recommend perforating this zone prior to abandonment.

4265-4279 (Middle Creek and L Zone)

Limestone, buff to tan to brown, some gray, finely crystalline with scattered oolitic and fossiliferous,

poor to fair intercrystalline and vugular porosity, poor to fair spotted stain, show of free oil, good odor, poor fluorescence, fair to good cut, trace of chert, light gray, opaque, fresh.

Drill Stem Test No. 4 4258-4279

15-30-30-60; built to 2 inch blow on first flow, no blowback; built to 2 inch blow on second flow, no blowback; recovered 2 feet of free oil and 112 feet of saltwater. ISIP 834# FSIP 834# IFP 24-57# FFP 59-93# IHP 2117# FHP 2096# BHT 116 degrees.

4285-4290 (L2 Zone)

Limestone, buff to tan, dense to finely crystalline, brittle, poor to fair intercrystalline porosity, some poor vugular porosity, scattered poor to fair spotted stain, show of free oil, faint to fair odor, poor fluorescence, poor to fair cut.

Drill Stem Test No. 5 4267-4291

15-30-30-60; built to 5 inch blow on first flow, no blowback; built to 3 inch blow on second flow, no blowback; recovered 2 feet of free oil and 174 feet of water cut mud (30% water, 70% mud). ISIP 429# FSIP 415# IFP 21-75# FFP 75-112# IHP 2079# FHP 2087# BHT 121 degrees.

4304-4316 (Pleasanton Zone)

Limestone, buff to tan, some brown, some gray, dense to finely crystalline and slightly fossiliferous, poor to fair intercrystalline porosity, some fair vugular porosity, scattered poor to fair stain, show of free oil, good odor, poor fluorescence, fair cut

4357-4370 (Marmaton Zone)

Limestone, cream to buff, some gray, dense and fine to medium crystalline, partly fossiliferous, fair intercrystalline porosity, some poor to fair fossil cast and interfossil porosity, fair spotted stain, fair show of free oil, fair odor, poor to fair fluorescence, fair cut.

Drill Stem Test No. 6 4298-4374

15-30-45-90; built to 6 inch blow on first flow, no blowback; built to 7 inch blow on second flow, no blowback; recovered 298 feet of mud with oil spots. ISIP 862# FSIP 821# IFP 31-86# FFP 90-140# IHP 2162# FHP 2131# BHT 121 degrees.

4384-4423 (Altamont Zone)

Limestone, cream to buff, some light gray, dense to finely crystalline with considerable chalk, mostly tight with a trace of scattered very poor intercrystalline porosity, some scattered dead stain, no show of live oil. Zone warrants no further evaluation.

4427-4453 (Pawnee Zone)

Limestone, cream to buff to tan, dense and fine to medium crystalline, fair to good vugular and intercrystalline porosity, fair spotted stain, fair show of free oil, fair odor, fair fluorescence, fair to good cut, some scattered chert, fresh, opaque, gray.

4458-4473 (Myrick Station Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, trace of broken intercrystalline porosity streaks with very poor spotted stain, very slight show of free oil, faint fleeting odor, poor fluorescence, poor cut.

4477-4498 (Fort Scott Zone)

Limestone, buff to tan, some brown, dense to finely crystalline and oolitic, zone is mostly tight with rare traces of questionable stain, no free oil, no odor, no fluorescence, no cut. Zone warrants no further evaluation.

4501-4528 (Cherokee Lime Zones)

Broken streaks of tan to brown limestone, dense with scattered finely crystalline, mostly tight with no shows of oil.

4530-4554 (Johnson Zone)

Limestone, tan to brown, dense to finely crystalline, partly fossiliferous, poor vugular and intercrystalline porosity, trace poor spotted stain, rare very slight show of free oil, no odor, no fluorescence, no cut. Zone warrants no further evaluation.

4569-4651 (Mississippian)

Limestone, partly dolomitic, tan to brown, dense and fine to medium crystalline, partly chalky, brittle and flaky, some scattered oolitic, trace of poor intercrystalline porosity, some scattered dead stain, no show of live oil. Lower portion is buff to tan, slightly dolomitic, finely crystalline limestone with no show of oil.

Conclusions and Recommendations:

Production casing was cemented in the No. 1-20 Harris Unit. The well should be completed with treatment as necessary to facilitate production in accordance with Tom Larson and Kyle Carter.

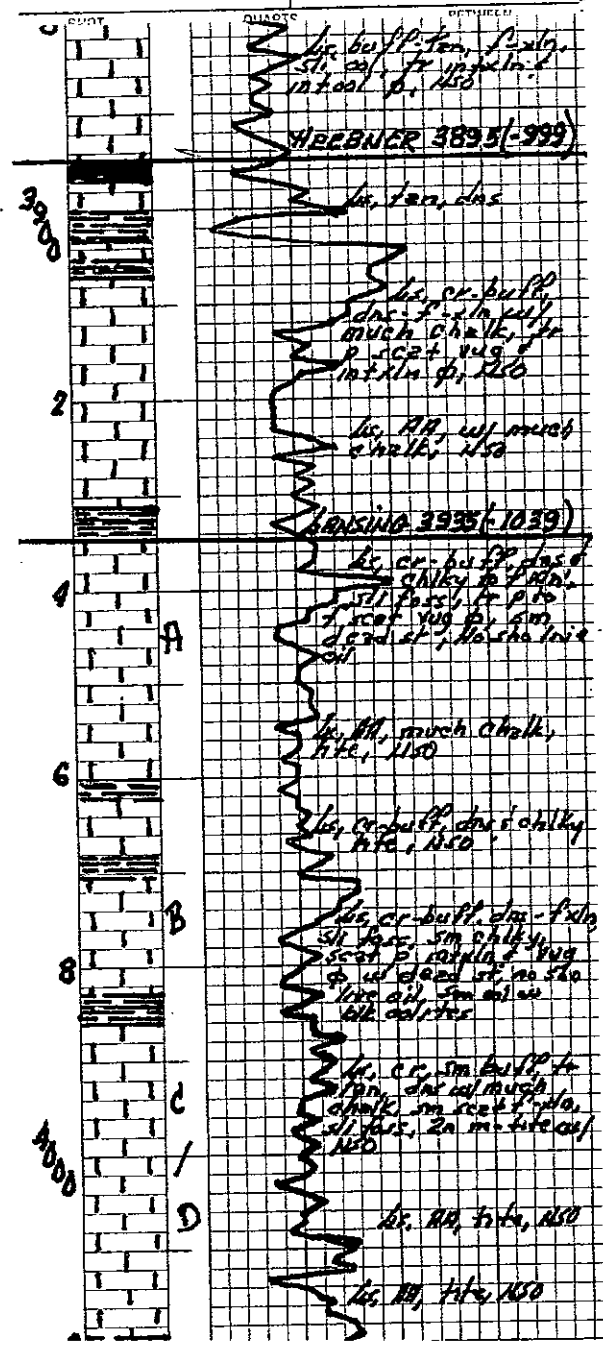
Respectfully submitted,

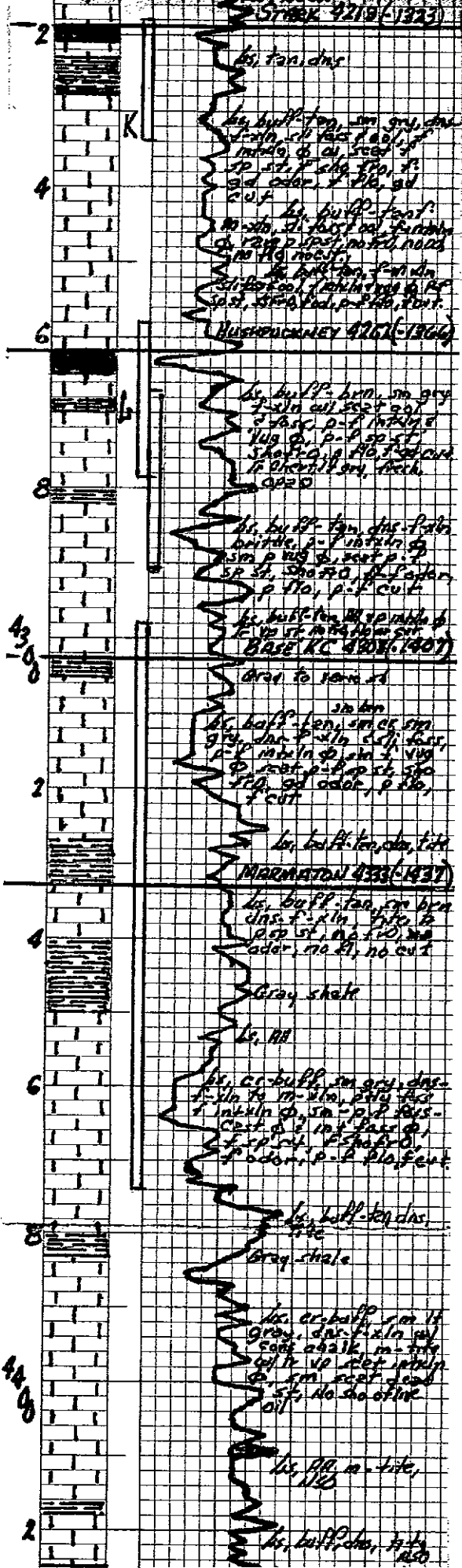
Robert C. Lewellyn
Petroleum Geologist

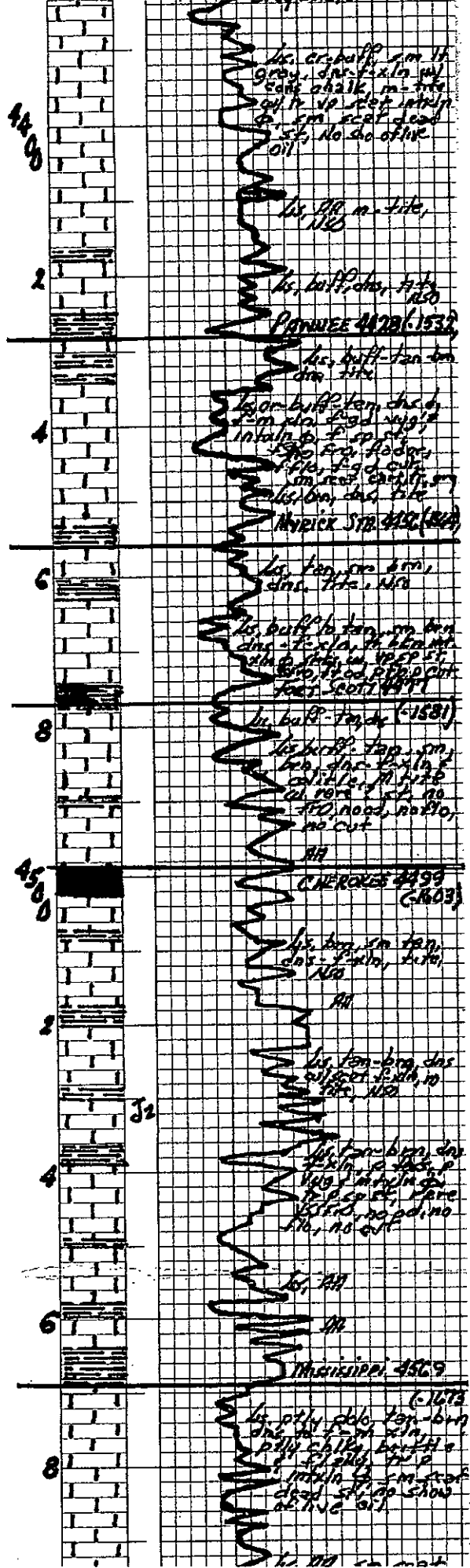
RCL:me

STATE		COMPANY BARSON ENGINEERING, Inc.	
COUNTY	FARM	WELL NO.	
KAUFAS	HARRIS UNIT	1-20	
BLOCK	SURVEY		
	758' FSL, 2502' FWL		
SEC. 20			
T. 18S	R. 30W	TOTAL DEPTH 4650	
CONTRACTOR HD Drilling LLC, Rig 3		COMPLETED 02-22-2011	
COMMENCED 02-04-2011		REMARKS	
ALTITUDE 2896 KB		Robert C. Leavellyn - Geol	
PRODUCTION Oil		CASING RECORD	

8 5/8" @ 255 KBM / 175 SX







ls. cr. buff, sm. sh. gray, dr. f. x. in. w/ some sh. alk. m. fine oil, no oil, no cut.

ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh.

PANNEE 4470 (1532)

ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh. with some sh. alk. m. fine oil, no oil, no cut.

MISSISSIPPI 4500 (1532)

ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh. with some sh. alk. m. fine oil, no oil, no cut.

ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh. with some sh. alk. m. fine oil, no oil, no cut.

MISSISSIPPI 4499 (1503)

ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh.

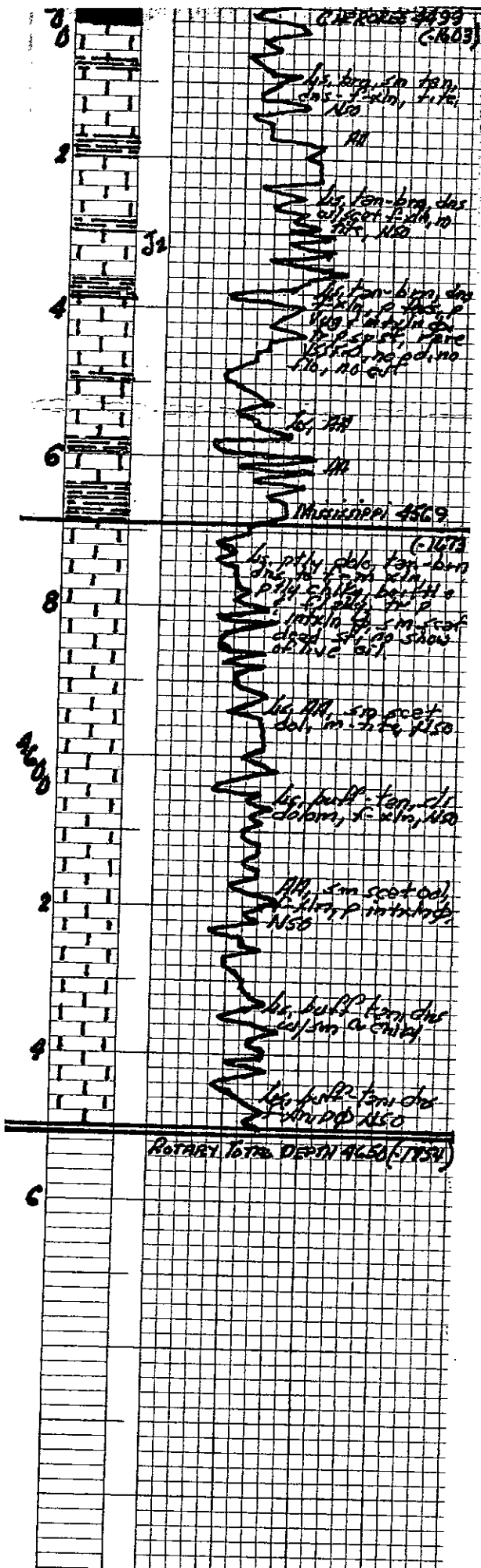
ls. buff, tan to dr. sh.

ls. buff, tan to dr. sh.

MISSISSIPPI 4509 (1673)

ls. buff, tan to dr. sh. with some sh. alk. m. fine oil, no oil, no cut.

ls. buff, tan to dr. sh.



RECEIVED MAR 28 2011



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
3/25/2011	20071

BILL TO
Larson Engineering, Inc. 562 West State Road 4 Olmitz, KS 67564-8561

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-20	Harris Unit	Lane	Cheyenne Well Se...	Oil	Development	Squeeze Perforat...	Wayne
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
578D-D	Pump Charge - Deep Squeeze (> 1500 Ft.) - 4414 Feet				1	Job	1,400.00	1,400.00
325	Standard Cement				75	Sacks	12.00	900.00T
290	D-Air				1	Gallon(s)	35.00	35.00T
581D	Service Charge Cement				100	Sacks	1.50	150.00
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							2,935.00
	Sales Tax Lane County						6.30%	58.91
We Appreciate Your Business!							Total	\$2,993.91

9308



CHARGE TO: **LARSON ENGINEERING**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
20071

PAGE 1 OF 1

SERVICE LOCATIONS 1. NESS CITY, KS	WELL/PROJECT NO. 1-20	LEASE HARRIS UNIT	COUNTY/PARISH LANE	STATE Ks	CITY	DATE 3-25-11	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR CHEVYNE WELL SERVICE	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE SQUEEZE PERFORATIONS	WELL PERMIT NO.	WELL LOCATION DEIGHTON, KS - 10W, 1S, 12W, N		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE # 114	40	ME	5.00		200.00
578		1			PUMP CHARGE	1	JOB	1400.00		1400.00
325		1			STANDARD CEMENT	75	SBS	12.00		900.00
290		1			D-AIR	1	GA	35.00		35.00
581		1			SERVICE CHARGE CEMENT	100	SBS	1.50		150.00
582		1			MINIMUM DRIVAGE	9400	CS	250.00	188	250.00

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 **3-25-11** TIME SIGNED **0900** 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?					2935.00
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			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	2993.91

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

SWIFT OPERATOR **Wayne Wilson** APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 3-25-11 PAGE NO. 1

CUSTOMER CARSON ENGINEERING WELL NO. 1-20 LEASE HARRIS UNIT JOB TYPE SQUEEZE PERFS TICKET NO. 20071

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							ON LOCATION
								2 3/8 x 5 1/2 CIRP - 4505
								PERFS - 4383 - 85 4436 - 41
								RETAINER - 4414
	0945		89		✓			LOAD WELL - CIRCULATION
								STRING INTO RETAINER
	1000	2 1/2	4	✓		600		INT RATE - CIRCULATION
	1125	2 1/2	15 3/4	✓		300		MIX 75 SLS STAGGED COMPT
	1130	2	0	✓		150		DISPLACE COMPT
	1135		10			VAR		" SHUT DOWN
	1140	1/2	13	✓		400		"
		1/2	15	✓		650		"
	1150	1/2	16	✓		650		" SHUT DOWN
	1200	1/2	16 1/2	✓		300/800		" " HOLDING - SHUT IN
	1205		1/4	✓		250/800		PST ANNULUS - HELD SHUT IN - STRING OUT
								WASH TRUCK
	1220				✓	700/800		HOLDING
	1223					800		RELEASE PST - HELD
	1230	2	115	✓		500		REVERSE CLEAN
								PULL 200TS - LOAD HOLE
	1430							JOB COMPLETE
								THANK YOU
								WAYNE, DAVE K., ROB

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

June 06, 2011

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

Re: ACO1
API 15-101-22278-00-00
Harris Unit #1-20
SW/4 Sec.20-18S-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

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

June 07, 2011

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

Re: ACO-1
API 15-101-22278-00-00
Harris Unit #1-20
SW/4 Sec.20-18S-30W
Lane County, Kansas

Dear Thomas Larson:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 2/4/2011 and the ACO-1 was received on June 06, 2011 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department