

Kansas Corporation Commission Oil & Gas Conservation Division

1055167

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

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:									

Side Two

1055167

Operator Name:			Lease Nar	me:			. Well #:	
Sec Twp	S. R	East West	County: _					
time tool open and clor recovery, and flow rate	sed, flowing and shut-	base of formations per in pressures, whether s t, along with final chart(vell site report.	hut-in pressur	e reached	static level,	hydrostatic press	ures, bottom h	ole temperature, fluid
Drill Stem Tests Taken (Attach Additional S		☐ Yes ☐ No		Log	Formation	n (Top), Depth an	d Datum	Sample
Samples Sent to Geol	logical Survey	Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Electric Log Submittee (If no, Submit Copy	d Electronically	Yes No Yes No Yes No						
List All E. Logs Run:								
		CASING Report all strings set-	RECORD [New	Used	on, etc.		
Purpose of String	Size Hole	Size Casing	Weight		Setting	Type of	# Sacks	Type and Percent
	Drilled	Set (In O.D.)	Lbs. / Ft.	•	Depth	Cement	Used	Additives
		ADDITIONAL	CEMENTING	/ SQUEEZ	E RECORD			
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Us	sed		Type and F	ercent Additives	
Perforate Protect Casing								
Plug Back TD Plug Off Zone								
Shots Per Foot	PERFORATIO	N RECORD - Bridge Plugotage of Each Interval Per	s Set/Type			cture, Shot, Cement		d Depth
	Ороскіў ГС	olage of Each interval i er	ioratea		(70)	nount and rund of we	ichar Osca)	Верит
TUBING RECORD:	Size:	Set At:	Packer At:	Lir	ner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	R. Producing Met	hod:	Gas	Lift 0	ther (Explain)		
Estimated Production Per 24 Hours	Oil Bl	bls. Gas	Mcf	Water	Bb	ols. (Gas-Oil Ratio	Gravity
DISPOSITIO	ON OF CAS:		METHOD OF CO	OMBI ETICI	NI:		DRODUCTIO	MINITEDVAL.
Vented Sold	ON OF GAS: Used on Lease	Open Hole	METHOD OF CO	Dually Con		nmingled	PRODUCTIC	ON INTERVAL:
(If vented, Sub		Other (Specify)		Submit ACO-		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Ehmke 1-19
Doc ID	1055167

Tops

Name	Тор	Datum
Anhydrite	2225	+615
Base Anhydrite	2250	+590
Heebner Sh	3921	-1081
Lansing-KC	3958	-1118
Stark Shale	4224	-1384
Base KC	4302	-1462
Marmaton	4328	-1488
Altamont	4352	-1512
Pawnee	4421	-1581
Fort Scott	4478	-1638
Cherokee	4500	-1660
Mississippi	4573	-1733



CHARGE TO:	
LARSON	
ADDRESS	
CITY, STATE, ZIP CODE	

TICKET 19294

Serv	ices, I	nc.		r, SIAIE, ZI	ir col	JE								PAC	E 1	OF S	
SERVICE LOCATIONS		WELL/PROJECT NO		LEAS	SE		COUNTY/PARIS	4	STATE	CITY			D/	\TE	ÓW	NER	
1. HAYS		1-19		ے ا	E.H.	MME	LANC		26				ا ا	02-05-11			
2. LESS		TICKET TYPE CO SERVICE SALES WELL TYPE	NTRACTOR	₹			RIG NAME/NO.	(42	SHIPPED	DELIVERED T		V. 1170. J		RDER NO.			
3.		WELL TYPE		WEL	L CAT	EGORY JOE	B PURPOSE	4 77 6	[[[]	WELL PERMIT	NO.	14777000	W	ELL LOCATION			
4		DIL			EVE	LOP	Louisa	21x E		15-10/		77	- 1	519,7/7,	a_2C		
REFERRAL LOCATION		INVOICE INSTRUCT	IONS		<u></u>	<u> </u>	20101370		<u>-</u>	<u> </u>				2///////			
PRICE REFERENCE	SECONDARY PART N			COUNTING ACCT	DF		DESCRIPTION	٧		QTY.	U/M	QTY.	U/M	UNIT PRICE		AMOUNT	r
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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

TIME SIGNED

⊘8 A.M. □ P.M. **REMIT PAYMENT TO:**

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

_							1
	SURVEY	AGREE	UN- DECIDED	DIS- AGREE	PL-1	2470	Do
	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	4902	00
	WE UNDERSTOOD AND MET YOUR NEEDS?				sub		
	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				70742	スチフィ	00
	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lane TAX 70	291	 <i>38</i>
	ARE YOU SATISFIED WITH OUR SE		NO				<u> </u>
	CUSTOMER DID NOT	WISH TO R	ESPOND		TOTAL	7663	¦ <i>3</i> 8

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

SWIFT OPERATOR DAVEASU

APPROVAL

Thank You!

SWIFT

PO Box 466.

TICKET CONTINUATION

TICKET No. 19294

	No	o Cih	, KS 675	(A)													
Service	Nes O. Inc. Off	: 785	5-798-23	00_		CUSTOM	LARSON			WELL /49,	EHM	ME		DATE 02-05-1	,	PAGE 2)
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT 92		TIME		DES	CRIPTION		ату,	U/M :	€ QTY.5	U/M	UNIT PRICE	(\$)46	AMOUN	1.4
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						MILEAGE CHARGE	TOTAL WEIGHT	LOADED	MILES	TON MILES							1
					,								ONTIN	UATIONTOTAL		4902.0	

SWIFT Services, Inc. DATE 02.05-11 PAGE NO. **JOB LOG** WELL NO. 1-19 JOB TYPE LO NGSTRING TICKET NO. 19259 CUSTOMER LARSON LEASE E HMUE PUMPS PRESSURE (PSI) VOLUME (GAL) DESCRIPTION OF OPERATION AND MATERIALS TUBING CASING DROG ON LOCATION CMT: 100 STO EA-2 125 Sma RXD 4630, SETPUR 4629, ST 40.25, ZUSAT 4586 51/2 15.5 P.C.@ ABBET BREAMCIAC- DOGTE PIR , I HR 0330 PLUL RA Yoma 0440 7,0 900 15a MCLFLWH MUSFLISH SOULK 120 MUFUCH **5**3 400 SMO CMT 24.5 EA 2 DADPLD PULL, WASHOUTK STADEOIS ઝજ 200 45.5 CATONBUTEN 85,0 SO STOP ROTATING 1000 *60*0 700 ८०८:० 109.1 1500 CARD FUC 0530 BUSASE - 1)21 045 TRB Compose DAR JOSHBLANE



Larson Engineering

Ehmke #1-19

562 West St Rd 4

19-17s-29w Lane, Ks

Olmitz, Ks

Job Ticket: 041142 DST#: 1

ATTN: Bob Lew ellyn

Test Start: 2011.01.28 @ 11:32:38

GENERAL INFORMATION:

Formation:

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

Time Tool Opened: 13:37:38

Tester: Unit No: 40

Reference Elevations:

Shane McBride

Time Test Ended: 16:50:53

2840.00 ft (KB)

Interval:

4158.00 ft (KB) To 4188.00 ft (KB) (TVD)

2833.00 ft (CF)

Total Depth: 4188.00 ft (KB) (TVD) Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6667 Press@RunDepth: Inside

15.72 psig @

4159.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 2011.01.28 11:32:38

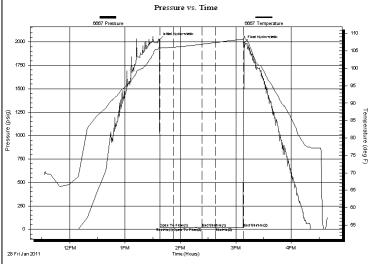
End Date: End Time: 2011.01.28 16:39:53 Last Calib.: Time On Btm:

2011.01.28 2011.01.28 @ 13:37:23

Time Off Btm: 2011.01.28 @ 15:08:38

TEST COMMENT: Weak blow died in 5 min.

No return No blow No return



PRESSURE SUMMARY Annotation Time Pressure Temp (Min.) (psig) (deg F) 0 2022.43 106.08 Initial Hydro-static 15.53 105.53 Open To Flow (1) 1 15 15.82 106.06 | Shut-In(1) 46 19.14 106.91 End Shut-In(1) 46 15.33 106.92 Open To Flow (2) 15.72 107.41 Shut-In(2) 61 End Shut-In(2) 91 17.94 108.42 1993.53 Final Hydro-static 108.91

Cac Datas

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.00

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

Trilobite Testing, Inc Ref. No: 041142 Printed: 2011.01.29 @ 11:20:03 Page 1



FLUID SUMMARY

Larson Engineering

Ehmke #1-19

562 West St Rd 4

Olmitz, Ks

19-17s-29w Lane, Ks

Job Ticket: 041142

DST#: 1

ATTN: Bob Lew ellyn

Test Start: 2011.01.28 @ 11:32:38

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 0 deg API Mud Weight: Cushion Length: 9.00 lb/gal Water Salinity: 0 ppm ft

Viscosity: 54.00 sec/qt Cushion Volume: bbl

> $6.80 in^3$ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 900.00 ppm Filter Cake: 2.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

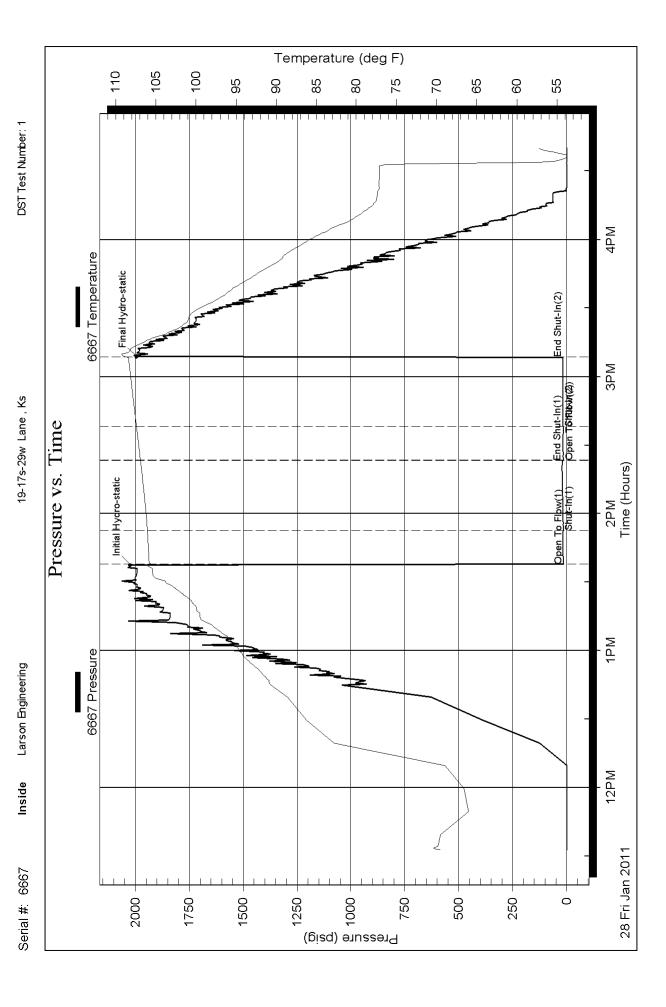
Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Ref. No: 041142 Trilobite Testing, Inc Printed: 2011.01.29 @ 11:20:04 Page 2



Printed: 2011.01.29 @ 11:20:04 041142 Ref. No: Trilobite Testing, Inc

Page 3



Larson Engineering

Ehmke #1-19

562 West St Rd 4

19-17s-29w Lane, Ks

Olmitz, Ks

Job Ticket: 041143 DST#: 2

ATTN: Bob Lew ellyn

Test Start: 2011.01.29 @ 06:36:13

GENERAL INFORMATION:

Formation:

Interval:

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 08:32:58 Time Test Ended: 12:55:13

4218.00 ft (KB) To 4244.00 ft (KB) (TVD)

Total Depth: 4244.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole

Tester:

Shane McBride

Unit No:

Reference Elevations:

2840.00 ft (KB)

2833.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6667 Inside

Press@RunDepth: 4219.00 ft (KB) 8000.00 psig 71.97 psig @ Capacity:

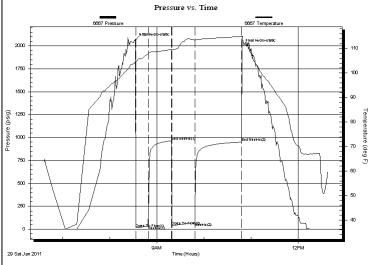
Start Date: 2011.01.29 End Date: 2011.01.29 Last Calib.: 2011.01.29 Start Time: 06:36:13 End Time: Time On Btm: 2011.01.29 @ 08:32:43 12:38:13

Time Off Btm: 2011.01.29 @ 10:48:43

PRESSURE SUMMARY

TEST COMMENT: 1 1/4"in blow

No return 1 1/4"in blow No return



		Г	\L330I\	L SOMMAN
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2063.60	104.96	Initial Hydro-static
	1	14.93	104.18	Open To Flow (1)
	17	35.10	107.96	Shut-In(1)
7	46	964.05	109.58	End Shut-In(1)
Temnerature	47	37.41	109.26	Open To Flow (2)
	76	71.97	113.36	Shut-In(2)
neh)	136	950.48	114.90	End Shut-In(2)
פ	136	1995.27	115.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	22.00 w c m 40%w 60%m	
1	I	

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

Trilobite Testing, Inc. Ref. No: 041143 Printed: 2011.01.29 @ 16:38:09 Page 1



FLUID SUMMARY

Larson Engineering

Ehmke #1-19

562 West St Rd 4

19-17s-29w Lane , Ks

Olmitz, Ks

Job Ticket: 041143

ATTN: Bob Lew ellyn

Test Start: 2011.01.29 @ 06:36:13

DST#: 2

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: 28000 ppm

Viscosity: 54.00 sec/qt Cushion Volume: bbl

Water Loss: 6.79 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 900.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

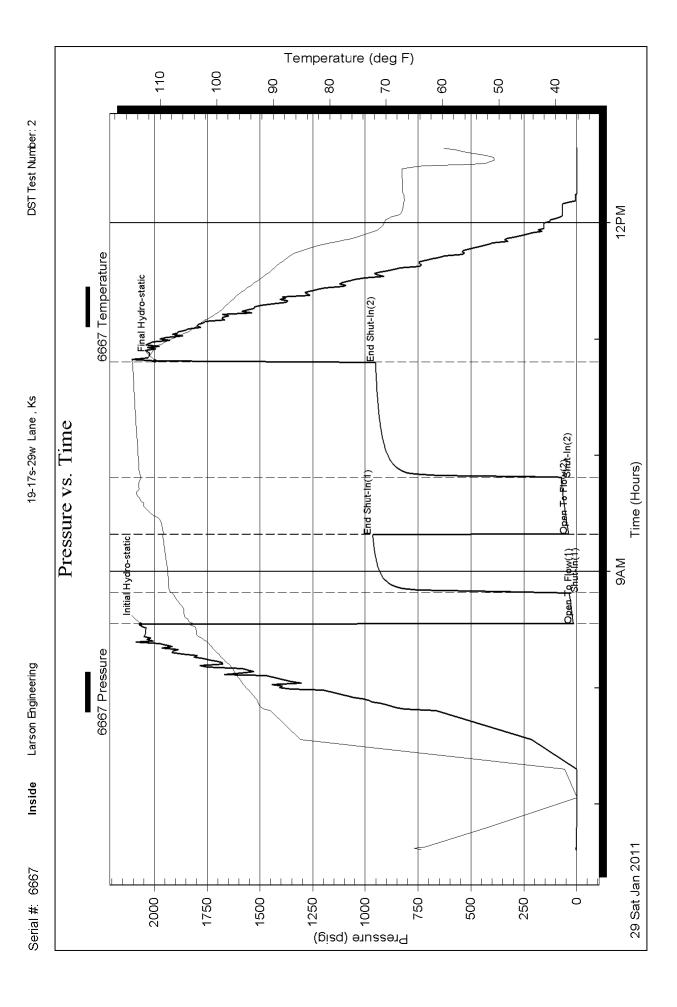
Length ft	Description	Volume bbl
122.00	w c m 40%w 60%m	0.600

Total Length: 122.00 ft Total Volume: 0.600 bbl

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

Laboratory Name: Laboratory Location: Recovery Comments: rw .280 @ 62*f = 28,000 chlor

Trilobite Testing, Inc Ref. No: 041143 Printed: 2011.01.29 @ 16:38:10 Page 2



Printed: 2011.01.29 @ 16:38:11 Page 3



Larson Engineering

562 West St Rd 4

Olmitz, KS

ATTN: Bob Lew ellyn

Ehmke #1-19

19-17s-29w Lane KS

Job Ticket: 041144 DST#: 3

Test Start: 2011.01.29 @ 22:21:05

GENERAL INFORMATION:

Formation: L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:20 Time Test Ended: 04:10:50

Interval: 4254.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Capacity:

Reference Elevations:

2840.00 ft (KB)

2833.00 ft (CF)

8000.00 psig

KB to GR/CF: 7.00 ft

Serial #: 6667 Inside

Press @ RunDepth: 15.55 psig @ 4255.00 ft (KB)

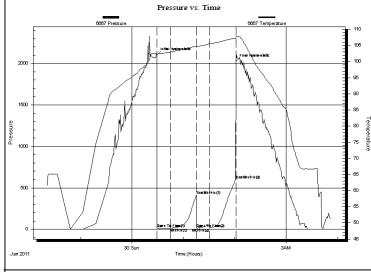
 Start Date:
 2011.01.29
 End Date:
 2011.01.30
 Last Calib.:
 2011.01.30

 Start Time:
 22:21:05
 End Time:
 03:52:50
 Time On Btm:
 2011.01.30 @ 00:29:05

Time Off Btm: 2011.01.30 @ 02:01:50

TEST COMMENT: Weak Surface blow died in 10 min

No return No blow No return



		PI	RESSUR	RE SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2104.16	102.65	Initial Hydro-static
	1	14.99	102.08	Open To Flow (1)
	16	15.88	102.95	Shut-In(1)
	46	413.81	104.77	End Shut-In(1)
Tom	47	15.41	104.60	Open To Flow (2)
Temperatur	62	15.55	105.43	Shut-In(2)
0	93	597.59	107.27	End Shut-In(2)
	93	2028.33	107.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	heavy mud 100%m	0.00

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

Trilobite Testing, Inc Ref. No: 041144 Printed: 2011.01.31 @ 09:03:05 Page 1



FLUID SUMMARY

DST#: 3

Larson Engineering

Ehmke #1-19

562 West St Rd 4

19-17s-29w Lane KS

Olmitz, KS

Job Ticket: 041144

ATTN: Bob Lew ellyn Test Start: 2011.01.29 @ 22:21:05

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 0 deg API 0 ppm

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

Viscosity: 51.00 sec/qt Cushion Volume:

Water Loss: $6.78 in^3$ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 900.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Volume Length Description ft bbl 1.00 heavy mud 100%m 0.005

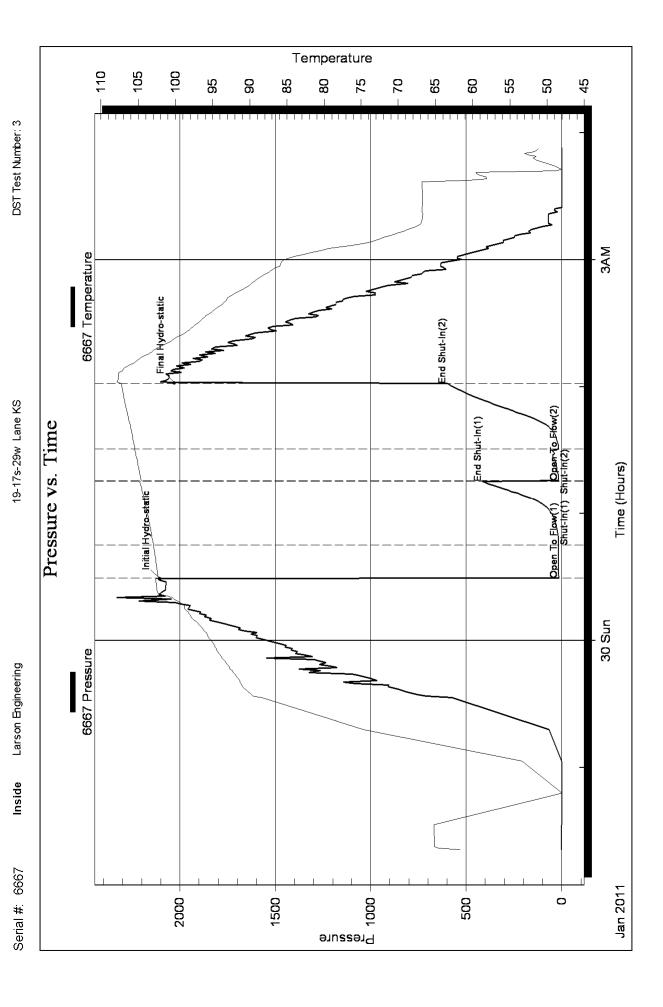
Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 041144 Printed: 2011.01.31 @ 09:03:06 Page 2



Page 3 Printed: 2011.01.31 @ 09:03:07 041144 Ref. No:

Trilobite Testing, Inc



Larson Engineering

Ehmke #1-19

562 West St Rd 4

19-17s-29w Lane KS

DST#: 4

Olmitz, KS

Job Ticket: 041145

ATTN: Bob Lew ellyn

Test Start: 2011.01.30 @ 21:57:51

GENERAL INFORMATION:

Formation: Lenapah

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

Time Tool Opened: 00:08:51 Time Test Ended: 05:15:51

Unit No:

4298.00 ft (KB) To 4355.00 ft (KB) (TVD) Interval:

Reference Elevations:

2840.00 ft (KB)

Total Depth: 4355.00 ft (KB) (TVD)

2833.00 ft (CF) KB to GR/CF: 7.00 ft

Shane McBride

7.88 inches Hole Condition: Fair Hole Diameter:

Serial #: 6667 Press@RunDepth: Inside

4299.00 ft (KB) 188.21 psig @

Capacity:

8000.00 psig

Start Date: 2011.01.30 End Date: 2011.01.31 04:58:51 Last Calib.: Time On Btm:

Tester:

2011.01.31 2011.01.31 @ 00:08:21

Start Time:

21:57:51

End Time:

Time Off Btm:

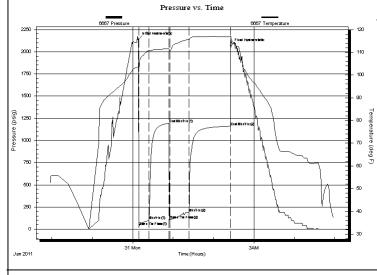
2011.01.31 @ 02:25:36

TEST COMMENT: B.O.B. in 13 min

Surface return in 7 min built to 1/4"in.

B.O.B. in 13 min

Surface return in 5 min built to 1 1/2" in.



PRESSURE SUMMARY

T	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2138.02	103.54	Initial Hydro-static
	1	35.92	103.18	Open To Flow (1)
	16	101.58	110.97	Shut-In(1)
	46	1193.32	111.49	End Shut-In(1)
	47	107.64	110.93	Open To Flow (2)
	75	188.21	115.69	Shut-In(2)
	137	1161.21	116.85	End Shut-In(2)
	138	2065.08	116.88	Final Hydro-static
1				

Recovery

Length (ft)	Description	Volume (bbl)
120.00	s g o c m 5%g 30%o 65%m	0.59
180.00	s g m c o 5%g 30%m 65%o	2.51
80.00	c g o 5%g 95%o	1.12
0.00	220' gas in pipe	0.00

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 041145 Printed: 2011.01.31 @ 09:02:06 Page 1



FLUID SUMMARY

0 ppm

Larson Engineering

Ehmke #1-19

562 West St Rd 4

19-17s-29w Lane KS

Olmitz, KS

Job Ticket: 041145 **DST#:4**

Water Salinity:

ATTN: Bob Lew ellyn

Test Start: 2011.01.30 @ 21:57:51

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 26 deg API

Mud Weight:9.00 lb/galCushion Length:ftViscosity:56.00 sec/qtCushion Volume:bbl

6.80 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 2.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
120.00	s g o c m 5%g 30%o 65%m	0.590
180.00	s g m c o 5%g 30%m 65%o	2.507
80.00	c g o 5%g 95%o	1.122
0.00	220' gas in pipe	0.000

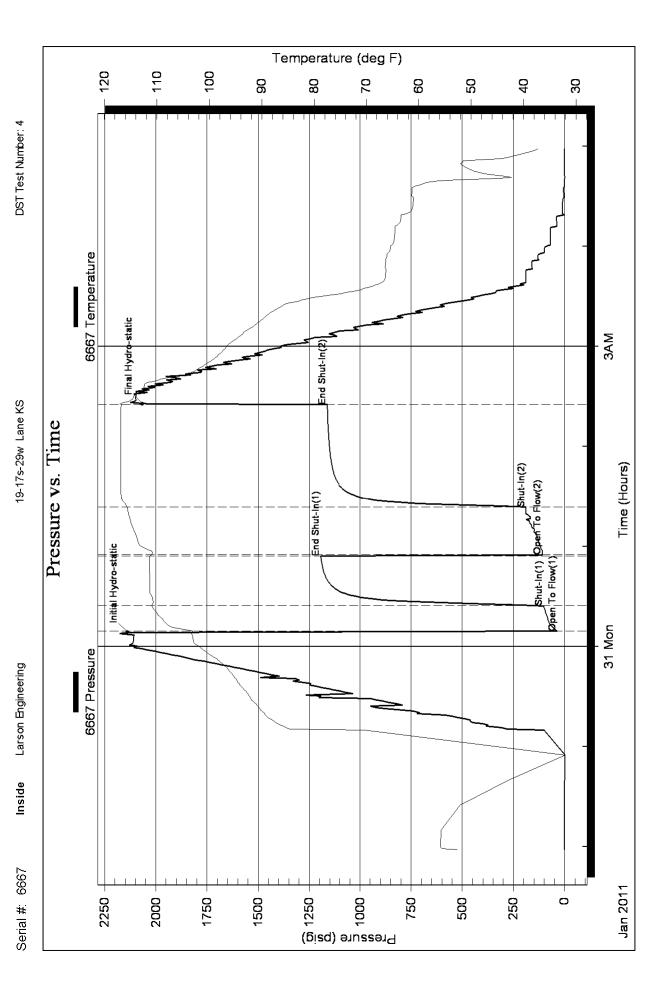
Total Length: 380.00 ft Total Volume: 4.219 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 041145 Printed: 2011.01.31 @ 09:02:07 Page 2



Printed: 2011.01.31 @ 09:02:07 041145 Ref. No: Trilobite Testing, Inc

Page 3



Larson Engineering

Ehmke #1-19

Tester:

Unit No:

562 West St Rd 4

19-17s-29w Lane, Ks

Olmitz, Ks

Job Ticket: 041146 DST#: 5

ATTN: Bob Lew ellyn

Test Start: 2011.02.01 @ 03:30:39

Shane McBride

GENERAL INFORMATION:

Formation: Pawnee, Ft Scott

Test Type: Conventional Bottom Hole Deviated: Whipstock: ft (KB)

Time Tool Opened: 09:02:39 Time Test Ended: 15:25:24

Interval:

4406.00 ft (KB) To 4495.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4495.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

2840.00 ft (KB)

2833.00 ft (CF)

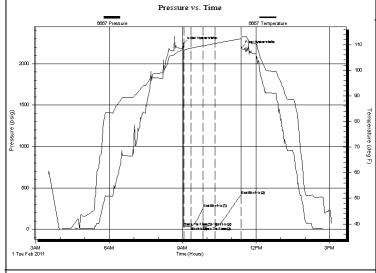
Serial #: 6667 Inside

Press@RunDepth: 4407.00 ft (KB) Capacity: 8000.00 psig 32.95 psig @

Start Date: 2011.02.01 End Date: 2011.02.01 Last Calib.: 2011.02.01 Start Time: 03:30:39 End Time: 15:06:24 Time On Btm: 2011.02.01 @ 09:02:24 Time Off Btm: 2011.02.01 @ 11:24:24

TEST COMMENT: Weak blow died in 8 min.

No return Nop blow No return



		P	RESSUR	RE SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2243.02	108.13	Initial Hydro-static
	1	28.95	106.83	Open To Flow (1)
	18	31.60	108.54	Shut-In(1)
	48	253.85	109.61	End Shut-In(1)
	48	31.94	109.50	Open To Flow (2)
	78	32.95	110.40	Shut-In(2)
	141	412.63	112.30	End Shut-In(2)
	142	2194.43	112.96	Final Hydro-static

Recovery

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

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

Trilobite Testing, Inc. Ref. No: 041146 Printed: 2011.02.01 @ 15:52:53 Page 1



FLUID SUMMARY

Larson Engineering

Ehmke #1-19

562 West St Rd 4

19-17s-29w Lane , Ks

Olmitz, Ks

Job Ticket: 041146

DST#: 5

ATTN: Bob Lew ellyn

Test Start: 2011.02.01 @ 03:30:39

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:0 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Viscosity: 63.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl			
5.00	heavy mud 100%m	0.025			

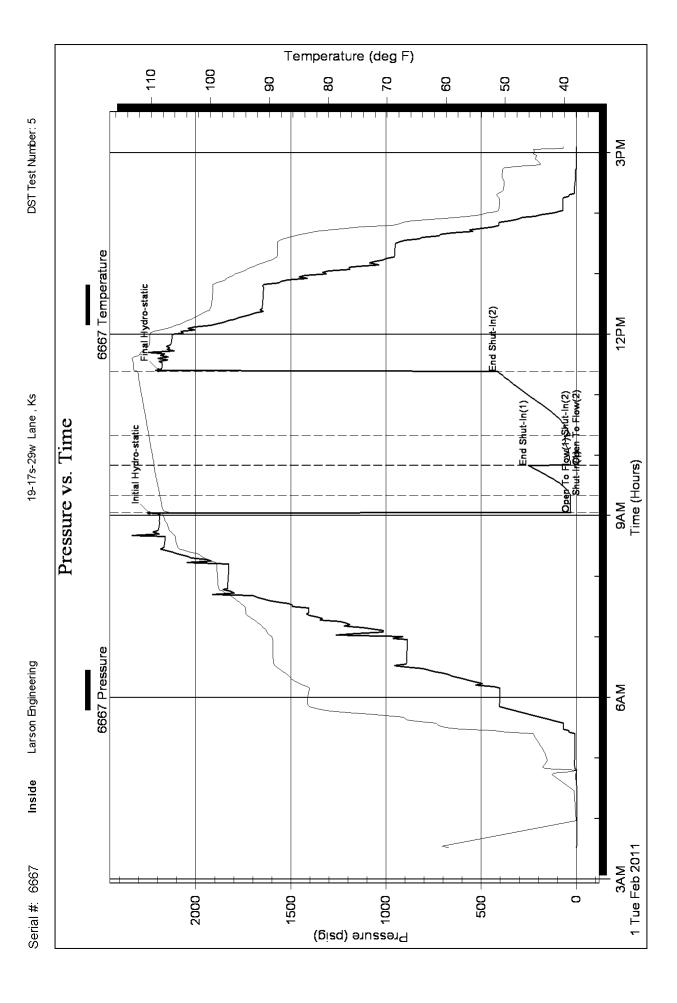
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 041146 Printed: 2011.02.01 @ 15:52:55 Page 2



Printed: 2011.02.01 @ 15:52:55 Page 3

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. 1-19 Ehmke

1520' FNL & 1036' FWL Sec. 19-17S-29W

Lane County, Kansas

CONTRACTOR:

H D Drilling, LLC, Rig 2

SPUDDED:

Jamuary 21, 2011

DRILLING COMPLETED:

February 04, 2011

SURFACE CASING:

8 5/8" @ 265 KBM/175 sx.

ELECTRIC LOGS:

DIL CNL/CDL MEL

ELEVATIONS:

2840 KB 2830 GL

FORMATION TOPS: (Electric Log)

Anhydrite Base Anhydrite Heebner Shale Lansing-Kansas City Group Muncie Creek Shale Stark Shale Hushpuckney Shale Base Kansas City Marmaton Altamont Pawnee Myrick Station	2225 (+ 615) 2250 (+ 590) 3921 (-1081) 3958 (-1118) 4134 (-1294) 4224 (-1384) 4260 (-1420) 4302 (-1462) 4328 (-1488) 4352 (-1512) 4421 (-1581) 4447 (-1607)
Pawnee	4421 (-1581)
Mississippian Electric Log Total Depth	4573 (-1733) 4629 (-1789)

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:

3958-3985 (A Zone)

Limestone, cream to buff, dense with much chalky, some scattered finely crystalline, slightly fossiliferous, interval is mostly tight with no shows of oil.

3995-4007 (B Zone)

Limestone, cream to buff, dense to finely crystalline, much chalky, very slightly fossiliferous, trace of very poor intercrystalline porosity, some dead stain, no show of live oil.

4016-4044 (C/D Zone)

Limestone, cream, chalky and dense, some buff to tan scattered finely crystalline with trace of slightly fossiliferous, zone contains a trace of very poor intercrystalline porosity with no show of oil.

4047-4060 (E Zone)

Limestone, cream to buff to tan, dense to finely crystalline, some scattered partly fossiliferous, scattered poor intercrystalline and interfossil porosity, no show of oil.

4064-4076 (F Zone)

Limestone, buff to tan, some brown dense to finely crystalline, partly oolitic, slightly fossiliferous, scattered very poor to poor intercrystalline and interoolitic porosity, trace of scattered dead stain, no show of live oil.

4080-4134 (G Zone)

This entire interval consisted of cream to buff chalky limestones with scattered finely crystalline and dense limestones, and a trace of poorly developed oolitic limestones. The section was mostly tight and contained no shows of oil.

4145-4167 (H Zone)

Limestone, buff to tan, dense to finely crystalline, slightly fossiliferous, very poor intercrystalline and small vug porosity, trace of very poor interfossil porosity, rare trace of very poor scattered spotted stain, no free oil, no odor, no fluorescence, no cut. Zone warrants no further evaluation.

4169-4188 (I Zone)

Limestone, buff to tan, dense to finely crystalline, slightly fossiliferous, poor to fair intercrystalline porosity, scattered fair spotted stain, fair show of free oil, faint to fair odor, poor fluorescence, poor to fair cut, some white to light gray sub-translucent chert.

Drill Stem Test No. 1 4158-4188

15-30-15-30; weak blow, died in 5 minutes of first flow; did not return on second flow; recovered 1 foot of mud. ISIP 19# FSIP 17# IFP 15-15# FFP 15-15# IHP 2022# FHP 1993# BHT 108 degrees.

4205-4224 (J Zone)

Limestone, cream to buff, some tan, dense to finely crystalline with traces of oolitic, zone is mostly tight with no shows of oil.

4232-4242 (K Zone)

Limestone, buff to tan, some gray mottled, finely crystalline and partly fossiliferous, partly oolitic, scattered fair intercrystalline and interfossil porosity, trace of scattered poor vugular porosity, scattered poor spotted stain, very slight show of free oil, faint to fair odor, poor fluorescence, poor to fair cut. Lower portion of K Zone is limestone, tan to brown, dense, some finely crystalline, tight, no show of oil.

Drill Stem Test No. 2

4218-4244

15-30-30-60; blow built to 1 1/4" on first flow, no blowback; blow built to 1 1/4" on second flow, no blowback; recovered 122 feet of water cut mud (40% water, 60% mud). ISIP 964# FSIP 950# IFP 14-35# FFP 37-71# IHP 2063# FHP 1995# BHT 115 degrees.

4264-4268 (Middle Creek)

Limestone, buff to tan to gray, mottled in part, finely crystalline, fossiliferous and oolitic, scattered fair intercrystalline and interfossil porosity, trace of poor intercolitic porosity, fair spotted stain, show of free oil, fair odor, poor fluorescence, fair cut.

4270-4278 (L Zone)

Limestone, buff, trace of gray, dense to finely crystalline, some scattered fossiliferous, poor intercrystalline porosity with traces of poor vugular posority, scattered poor spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor to fair cut.

Drill Stem Test No. 3

4254-4278

15-30-15-30; weak blow, died in 10 minutes of first flow; blow did not return on second flow; recovered one foot of heavy mud. ISIP 413# FSIP 597# IFP 14-15# FFP 15-15# IHP 2104# FHP 2028# BHT 107 degrees.

4278-4302 (Lower L Zone)

Limestone, buff to mottled light and medium gray, dense to finely crystalline with scattered cream chalky, brittle, two or three fragments with calcite crystal overgrowth, trace of very poor intercrystalline porosity with trace of dead stain, no show of live oil.

4308-4314 (Pleasanton Zone)

Limestone, buff to tan, dense to finely crystalline and fossiliferous, poor to fair fossil-cast and intercrystalline porosity, scattered dead stain with poor to fair live stain, faint odor, very slight show of free oil, poor fluorescence, poor cut.

4336-4340 (Marmaton Zone)

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

4352-4355 (Altamont "A" Zone)

Limestone, cream to buff to tan, finely crystalline, slightly chalky, fair intercrystalline porosity, trace of poor spotted stain, no free oil, questionable odor, no fluorescence, no cut.

Drill Stem Test No. 4

4298-4355

15-30-30-60; blow off bottom of bucket in 13 minutes on first flow; blowback in 7 minutes built to 1/4"; blow off bottom of bucket in 13 minutes on second flow; blowback in 5 minutes built to 1 1/2"; recovered 220 feet of gas in drill pipe, 80 feet of clean gassy oil (95% oil, 5% gas),180 feet of slightly gas and mud cut oil (5% gas, 65% oil, 30% mud), 120 feet of slightly gas and oil cut mud (5% gas, 30% oil, 65% mud). ISIP 1193# FSIP 1161# IFP 35-101# FFP 107-188# IHP 2138# FHP 2065# BHT 117 degrees.

4355-4415 (Lower Altamont Section)

This interval consisted of limestone, cream to buff, dense to finely crystalline, slightly oolitic, slightly fossiliferous, zone is mostly tight with much light gray chert, fresh, opaque, no shows of oil.

4421-4444 (Pawnee)

Limestone, cream to buff, some tan, dense to finely crystalline and slightly fossiliferous, fair intercrystalline porosity, some fair small vug porosity, fair spotted stain, fair show of free oil, faint to fair odor, fair fluorescence, poor to fair cut.

4447-4472 (Myrick Station Zone)

Limestone, buff, some brown, dense to finely crystalline and microcrystalline, slightly fossiliferous, some poor to fair intercrystalline porosity with poor spotted stain, slight show of free oil, faint to fair odor, poor fluorescence, poor to fair cut.

4478-4500 (Fort Scott Zone)

Limestone, buff to tan, some brown to mottled, finely crystalline and oolitic, some very poor intercolitic porosity with trace of poor spotted stain, very slight show of free oil, faint, fleeting odor, no fluorescence, poor cut. Some gray oolitic limestone with dark oollites.

Drill Stem Test No. 5

4406-4495

15-30-30-60; weak blow, died in 8 minutes of first flow; did not return on second flow; recovered 5 feet of heavy mud. ISIP 253# FSIP 412# IFP 28-31# FFP 31-32# IHP 2243# FHP 2194# BHT 112 degrees.

4500-4542 (Cherokee Lime Zones)

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

4530-4552 (Johnson Zone)

Limestone, tan to brown, dense, partly fossiliferous, some finely crystalline with poor vugular and intercrystalline porosity, trace of dead stain with scattered poor spotted live stain, very slight show of free oil, questionable odor, no fluorescence, poor cut.

4573-4629 (Mississippian)

Limestone, partly dolomitic, buff to tan, dense to finely crystallline and partly chalky, brittle, flaky, scattered slightly oolitic and fossiliferous, trace of light gray chert, fresh, opaque, trace of poor intercrystalline, interoolitic and interfossil porosity, no show of oil.

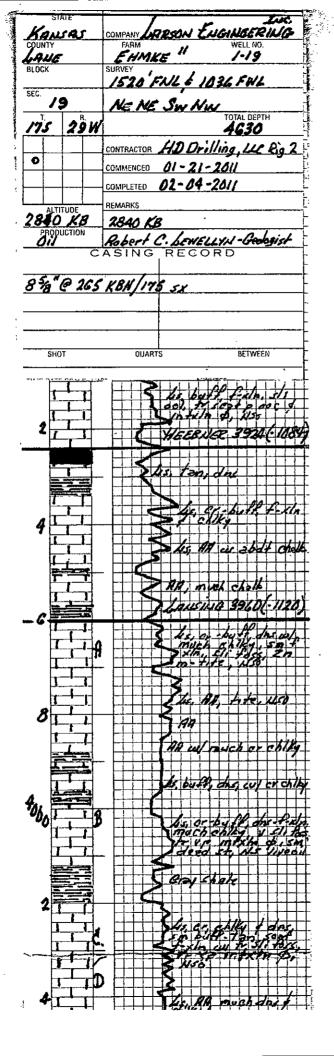
Conclusions and Recommendations:

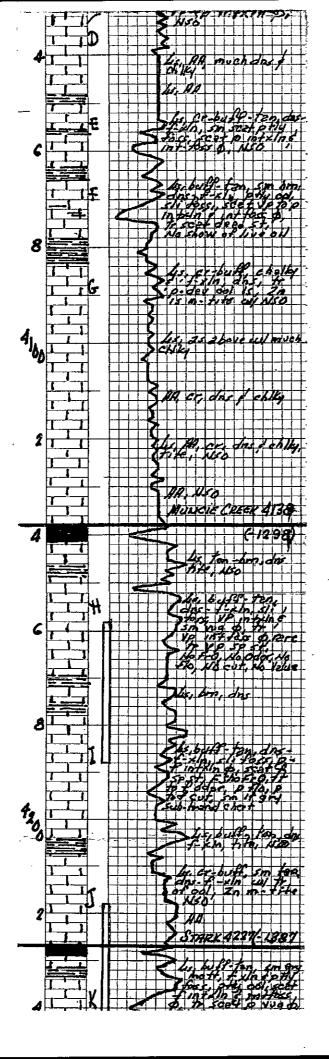
Production casing was cemented in the No. 1-19 Ehmke. The well should be completed with treatment as necessary to facilitate production as per Tom Larson and Kyle Carter.

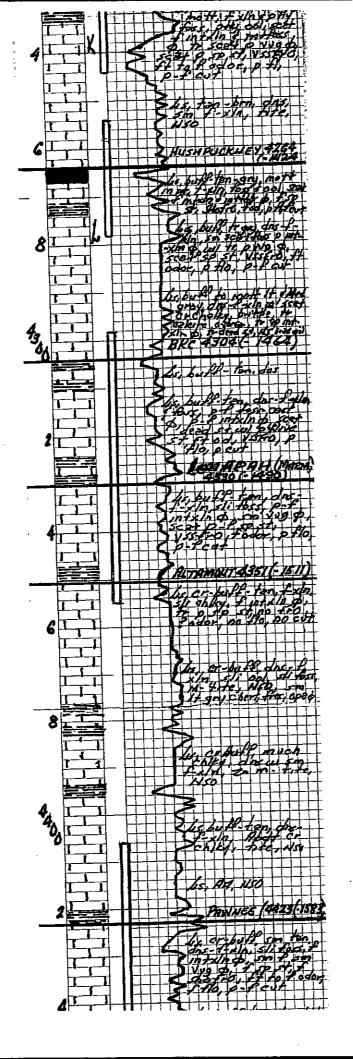
Respectfully submitted,

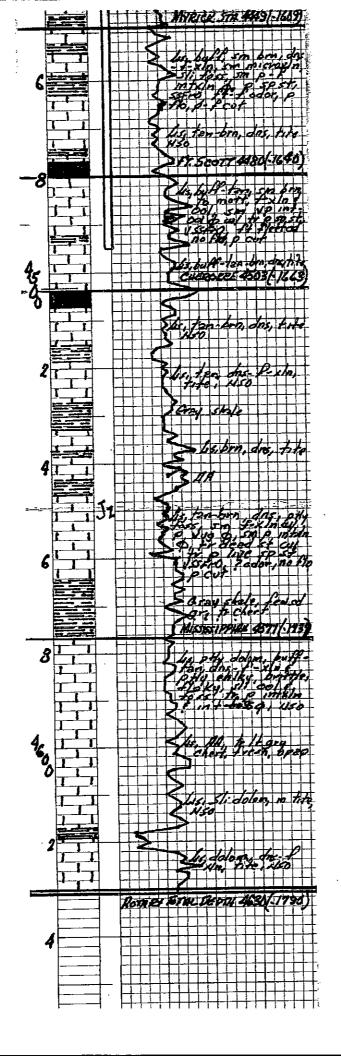
Robert C. Lewellyn Petroleum Geologist

RCL:me









SWIFT Services, Inc. DATE 7 PER 11 PAGE NO. **JOB LOG** LEASE Elamke TICKET NO. 20084 WELL NO. JOB TYPE CUSTOMER LARSON Engineering coment put collar 1-19 PUMPS PRESSURE (PSI) CHART NO. VOLUME **DESCRIPTION OF OPERATION AND MATERIALS** TIME (BBL) (GAL) TUBING CASING 225 SMD w/ 4# fbrale 53×23 post allea 2186' on loc TRK 114 1410 test to 1000 asi - held 1000 1430 1000 open poet collar in rate 228 400 23 3 400 Mix coment SWD @ 12 ppg 1440 400 Fluid to Pit 13 83 coment to Pit 600 kick out cent - 1858 mixed Displace tobiy w/ 7661 40 1510 close port collar test to 100 psi -1525 1000 zostes topit 1535 25 pull tool 1545 306 complete Dave & Blains



CHARGE TO: LARGO	n Engineering	
ADDRESS		

TICKET 20084

Seri	ices, l	inc.		ITY, STATE,	ZIP CQ									PAC	SE 1	OF	
SERVICE LOCATIONS 1.	ity KS	WELL/PROJECT NO. TICKET TYPE CON' LET SERVICE	-/e	<u> </u>		hmke	COUNTY/PARISH LANC RIG NAME/NO.		145 SHIPPED	DELIVERED TO				FEB I		NER	
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ALLIED CEMENTING CO., LLC. 035551 Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT	<u></u>
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OLD OR NEW (Circle one) LOCATION Healy	1ESELTO	
CONTRACTOR HA Ariling #7	OWNER Same	
TYPE OF JOB Surface		
HOLE SIZE 1715 T.D. 269'	CEMENT	
CASING SIZE 8 DEPTH 348'	AMOUNT ORDERED 175 SKI Com 3000	<u>_</u>
TUBING SIZE DEPTH		-
DRILL PIPE DEPTH		
TOOL DEPTH PRES. MAX MINIMUM	COMMON 175 5K1 @ 1545 220	252
MEAS. LINE SHOE JOINT	POZMIX @ 82	
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DISPLACEMENT 16.1 BBL Ha 37	ASC@	
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MADSSK) Co 300 CC 2000. Displace in 16. 11 BOL HD Coment Bill Countato. Thinkfun, man, man, man, man, man, man, man, ma	DEPTH OF JOB_ PUMP TRUCK CHARGE	8000
MADSSK) Co 300 CC 2000. Displace in 16. 11 BOL HD Coment Bill Countato. Thinkfun, man, man, man, man, man, man, man, ma	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD @ TOTAL PLUG & FLOAT EQUIPMENT @	800
MADSSK) Co 300 C 2000. Diffice in 16. I BILLY D Coment Bid Circulato. Think in my new plan, way, new ing STREET. STATE ZIP	DEPTH OF JOB_ PUMP TRUCK CHARGE	8000
MADSSK) Co 300 C 2000. Displace in 16. 181 HD Charles To Lines ON Engineer ing STREET To Allied Cementing Co., LLC.	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD @ TOTAL PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ ##################	8000
Displace on 16 BILLY Conent Discon Circulate The Man, way reput STREET: To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD @ TOTAL PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ ##################	8000
Charge to Lacson Engineering City STATE To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD @ TOTAL PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ ##################	
Charge to Lacson Engineering 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	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD @ TOTAL PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ ##################	800
CHARGE TO: Lincoln Local Lincoln Language Contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD @ TOTAL PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ ##################	8000
CHARGE TO LANGE TO STATE STATE ZIP 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"	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MILEAGE MANIFOLD @ ### TOTAL PLUG & FLOAT EQUIPMENT ### ### ### ### ### ### ### ### #### ####	8000
CHARGE TO: Lincoln Local Lincoln Language Contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE @ 35E MILEAGE 50 @ 35E MANIFOLD @ 70TAL	800
CHARGE TO LANGE TO STATE STATE ZIP 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"	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MILEAGE MANIFOLD @ ### TOTAL PLUG & FLOAT EQUIPMENT ### ### ### ### ### ### ### ### #### ####	8000
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.	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE MANIFOLD PLUG & FLOAT EQUIPMENT PLUG & FLOAT EQUIPMENT OF TOTAL TOTAL SALES TAX (If Any) TOTAL CHARGES	
CHARGE TO LANGE TO STATE STATE ZIP 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"	DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE 6 9 35E MANIFOLD 6 6 7 36 PLUG & FLOAT EQUIPMENT 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	

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/

Thomas E. Wright, Chairman Ward Loyd, Commissioner Corporation Commission

Sam Brownback, Governor

May 19, 2011

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

Re: ACO1 API 15-101-22277-00-00 Ehmke 1-19

> NW/4 Sec.19-17S-29W 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