

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

6/24/12

OPERATOR: License # 3842

Name: LARSON ENGINEERING, INC.

Address 1: 562 WEST STATE ROAD 4

Address 2: _____

City: OLMITZ State: KS Zip: 67564 + 8561

Contact Person: TOM LARSON

Phone: (620) 653-7368

CONTRACTOR: License # 33935

Name: H.D. DRILLING, LLC

Wellsite Geologist: ROBERT LEWELLYN

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
 - Oil SWD SLOW
 - Gas ENHR SIGW
 - CM (Coal Bed Methane) Temp. Abd.
 - Dry Other _____
- (Core, WSW, Expl., Cathodic, 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./SWD

Plug Back: _____ Plug Back Total Depth _____

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Enhr.?) Docket No. _____

6/26/2010 3/9/2010

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 101-22214-00-00

Spot Description: _____

NE - NW - NE - SW Sec. 1 Twp. 18 S. R. 27 East West

2360 feet from SOUTH Line of Section

1668 feet from WEST Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: LANE

Lease Name: WILES Well #: 1-1

Field Name: DELOS SOUTHWEST

Producing Formation: _____

Elevation: Ground: 2562' Kelly Bushing: 2572'

Total Depth: 4560' Plug Back Total Depth: 264'

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple State 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 PAUSE 30 TO
(Data must be collected from the Reserve Pit)

Chloride content: 12400 ppm Fluid volume: 1000 bbls

Dewatering method used: ALLOWED TO DRY

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License No.: _____

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

County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Coral Larson

Title: SECRETARY/TREASURER Date: 6/24/2010

Subscribed and sworn to before me this 24TH day of JUNE

2010.

Notary Public: Debra Ludwig

Date Commission Expires: MAY 5, 2012

DEBRA J. LUDWIG
Notary Public - State of Kansas
My Appt. Expires 5/5/2012

KCC Office Use ONLY

Letter of Confidentiality Received - 6/24/10

If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

RECEIVED
JUN 25 2010
KCC WICHITA

JUN 24 2010

Operator Name: LARSON ENGINEERING, INC. Lease Name: WILES Well #: 1-1

Sec. 1 Twp. 18 S. R. 27 East West County: LANE **CONFIDENTIAL**

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copes of drill stem 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 copy of all Electric Wireline Logs surveyed. Attach final geologist well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: DUAL INDUCTION DUAL COMP POROSITY MICRORESISTIVITY	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr><td>ANHYDRITE</td><td>1937</td><td>+635</td></tr> <tr><td>BASE ANHYDRITE</td><td>1956</td><td>+616</td></tr> <tr><td>HEEBNER SH</td><td>3829</td><td>-1257</td></tr> <tr><td>LANSING-KC GROUP</td><td>3869</td><td>-1297</td></tr> <tr><td>STARK SH</td><td>4131</td><td>-1559</td></tr> <tr><td>BASE KC</td><td>4205</td><td>-1633</td></tr> <tr><td>ALTAMONT</td><td>4254</td><td>-1682</td></tr> <tr><td>PAWNEE</td><td>4337</td><td>-1765</td></tr> <tr><td>FORT SCOTT</td><td>4386</td><td>-1814</td></tr> <tr><td>CHEROKEE</td><td>4412</td><td>-1840</td></tr> <tr><td>MISSISSIPPIAN</td><td>4510</td><td>-1938</td></tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	1937	+635	BASE ANHYDRITE	1956	+616	HEEBNER SH	3829	-1257	LANSING-KC GROUP	3869	-1297	STARK SH	4131	-1559	BASE KC	4205	-1633	ALTAMONT	4254	-1682	PAWNEE	4337	-1765	FORT SCOTT	4386	-1814	CHEROKEE	4412	-1840	MISSISSIPPIAN	4510	-1938
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CASING RECORD <input type="checkbox"/> New <input checked="" 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
SURFACE	12-1/4"	8-5/8"	20#	264'	CLASS A	175	2% GEL, 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 <input checked="" type="checkbox"/> Other (Specify) D & A	PRODUCTION INTERVAL: _____
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Mall to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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KCC WICHITA

ALLIED CEMENTING CO., LLC. 036389

KCC

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

JUN 24 2010

SERVICE POINT:

Great Bend KS

CONFIDENTIAL

DATE <u>3-9-10</u>	SEC. <u>1</u>	TWP. <u>18</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00 pm</u>	JOB FINISH <u>11:00 pm</u>
LEASE <u>wiles</u>	WELL# <u>1-1</u>	LOCATION <u>Alvamarata Truck Road</u>				COUNTY <u>hance</u>	STATE <u>KS</u>
<input checked="" type="radio"/> OLD OR NEW (Circle one)			<u>3 N To 180 2E wicket RD 1/2 S E1/4</u>				

RECEIVED

JUN 25 2010

CONTRACTOR H-O-Rig 2
 TYPE OF JOB Rotary Plug
 HOLE SIZE 7 7/8 T.D. 4573
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 1950
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 13.25 / 22 BBLs mud

OWNER hanson
 CEMENT
 AMOUNT ORDERED 270 SX 6090 (KCC WICHITA)
1/2 # 10851

COMMON	<u>162</u>	@	<u>13.50</u>	<u>2187.00</u>
POZMIX	<u>108</u>	@	<u>7.55</u>	<u>815.40</u>
GEL	<u>9</u>	@	<u>20.25</u>	<u>182.25</u>
CHLORIDE		@		
ASC		@		
<u>fl seal</u>	<u>67 #</u>	@	<u>2.45</u>	<u>164.15</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>270</u>	@	<u>2.25</u>	<u>607.50</u>
MILEAGE	<u>110/55/mile</u>			<u>810.00</u>
TOTAL				<u>4766.30</u>

EQUIPMENT
 PUMP TRUCK CEMENTER Wayne - D
 # 181 HELPER Alvin - R
 BULK TRUCK
 # 344 DRIVER Ron - B
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

1st plug 1950 mix 50SX 5BBLs # 3/0
19 BBLs mud
2nd plug 1110 mix 80SX Displace 4 BBLs
H 3/0 3 BBLs mud 3rd plug 570
Mix 40SX Displace 4 BBLs H 3/0
4th plug 290 mix 50SX Displace 25
5th plug 60ft mix 20SX 319 000
Rathole mix 30SX washed
Rig Down

SERVICE

DEPTH OF JOB	<u>1950</u>			
PUMP TRUCK CHARGE				<u>991</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>30</u>	@	<u>7.00</u>	<u>210.00</u>
MANIFOLD		@		
		@		
TOTAL				<u>1201.00</u>

CHARGE TO: hanson
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@			
<u>Dry hole plug</u>	@	<u>53.00</u>		<u>53.00</u>
	@			
	@			
TOTAL				<u>53.00</u>

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.

SALES TAX (if Any) _____
 TOTAL CHARGES 1201.00
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Doug Roberts
 SIGNATURE Doug Robert
THANKS!

ALLIED CEMENTING CO., LLC. 33837

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

KCC
JUN 24 2010

SERVICE POINT:
Russell KS

DATE <u>2-27-10</u>	SEC. <u>1</u>	TWP. <u>18</u>	RANGE <u>27</u>	CONFIDENTIAL	ON LOCATION	JOB START <u>2:00am</u>	JOB FINISH <u>2:30am</u>
LEASE <u>Wiles</u>	WELL # <u>1-1</u>	LOCATION <u>Ness City West to Turkey Red</u>			COUNTY <u>Lanc</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			Rd. 3 North 2 East 1/2 South East into.				

CONTRACTOR HD Drilling Rig #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 267'
 CASING SIZE 8 5/8 DEPTH 267'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 16 Bbl

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts
 # 398 HELPER Glenn
 BULK TRUCK
 # 344/170 DRIVER Alvin
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Est. Circulation
Mix 175sk cement
Displace w/ 16 Bbl H2O
Cement Did Circulate!

CHARGE TO: Larson Engineering
 STREET _____
 CITY _____ 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 TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Days Roberts
 SIGNATURE Days Robert

OWNER _____
 CEMENT AMOUNT ORDERED 175 cum 3% cc 2% Gel

COMMON	<u>175</u>	@	<u>13.50</u>	<u>2362.50</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>110/sk/mile</u>			<u>437.50</u>
TOTAL				<u>3563.50</u>

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SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>991.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>25</u>	@	<u>7.00</u>	<u>175.00</u>
MANIFOLD		@		
		@		
		@		

TOTAL 1166.00

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL _____

SALES TAX (If Any) _____
 TOTAL CHARGES ~~_____~~
 DISCOUNT _____ IF PAID IN 30 DAYS

Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Kechi, KS 67067-0375
Office 316-744-2567
Cell 316-518-0495
boblewellyn@yahoo.com

GEOLOGICAL REPORT

KCC
JUN 24 2010
CONFIDENTIAL

Larson Engineering, Inc.
Wiles No. 1-1
2360' FSL & 1668' FWL Sec. 1-18S-27W
Lane County, Kansas

CONTRACTOR: H D Drilling, LLC
SPUDDED: February 26, 2010
DRILLING COMPLETED: March 09, 2010
SURFACE CASING: 8 5/8" @ 264 KBM/175 sx,
ELECTRIC LOGS: Log-Tech DIL CNL/CDL MEL
ELEVATIONS: 2572 KB 2562 GL

FORMATION TOPS (Electric Log):

Anhydrite	1937 (+ 635)
Base Anhydrite	1956 (+ 616)
Heebner Shale	3829 (-1257)
Lansing-Kansas City Group	3869 (-1297)
Muncie Creek Shale	4037 (-1465)
Stark Shale	4131 (-1559)
Hushpuckney shale	4170 (-1598)
Base Kansas City	4205 (-1633)
Lenapah	4230 (-1658)
Altamont	4254 (-1682)
Pawnee	4337 (-1765)
Fort Scott	4386 (-1814)
Cherokee	4412 (-1840)
Cherokee sand zone	4489 (-1917)
Mississippian	4510 (-1938)
Electric Log Total Depth	4560 (-1988)

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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:

3877-3884 (A Zone)

Limestone, cream to buff, dense with scattered finely crystalline and chalky, slightly fossiliferous, some poor intercrystalline porosity with scattered dead stain, no show of live oil. Some light gray chert and some limestone, tan to brown, oolitic and fossiliferous, mostly tight with scattered dead oil stain, no show of live oil.

3911-3920 (B Zone)

Limestone, cream, chalky to finely crystalline, some buff to tan, dense, zone is mostly tight with trace of poor scattered intercrystalline porosity, no show of oil.

3928-3936 (C/D Zone)

Limestone, cream chalky and buff to tan dense with some finely crystalline, zone is mostly tight with a trace of poor intercrystalline porosity, no shows of oil. Some scattered light gray chert.

3949-3959 (E Zone)

Limestone, cream to buff, dense and chalky, some finely crystalline, rare trace of poor intercrystalline porosity, zone is mostly tight with no shows of oil.

3963-3966 (F Zone)

Limestone, cream to buff, dense and chalky, some finely crystalline, some mealy limestone, zone is mostly tight with no shows of oil, some white to light grey chert, fresh, opaque.

3976-3993 (G Zone)

Limestone, cream to buff, some tan, finely crystalline and partly oolitic, partly chalky, poor scattered ooliticastic porosity, no show of oil, some scattered white chert.

4050-4072 (H Zone)

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Limestone, buff to tan and brown, dense to finely crystalline with some slightly fossiliferous, some slightly oolitic, zone is mostly tight with only a trace of very poor intercrystalline porosity, zone becomes dense in lower part, no show of oil.

4084-4088 (I Zone)

Limestone, buff, some tan, dense to finely crystalline, some cream chalky, some scattered very poor "edge" vugular porosity, trace of dead stain, no show of live oil.

4112-4115 (J Zone)

Limestone, tan to brown, dense to finely crystalline and partly oolitic, scattered poor intercrystalline, interoolitic and ooliticastic porosity, trace of poor spotted stain, faint to fair odor and slight show of free oil, poor fluorescence, poor cut.

Drill Stem Test No. 1

4106-4136

15-30-30-60; quarter-inch blow, died in 11 minutes on first flow; blow did not return on second flow; recovered five feet of mud. ISIP 82# FSIP 325# IFP 15-16# FFP 16-17# IHP 2009# FHP 2005# BHT 115 degrees.

4142-4147 (K Zone)

Limestone, cream to buff, finely crystalline, fair to good intercrystalline porosity, fair spotted stain, good show of free oil, good odor, fair fluorescence, fair to good cut.

Drill Stem Test No. 2

4126-4150

15-30-30-60; blow built to one inch on first flow, no blowback; blow returned 10 minutes into second flow as a quarter inch blow, then died back to a surface blow, no blowback; recovered 60 feet of mud; ISIP 857# FSIP 847# IFP 17-29# FFP 30-48# IHP 1950# FHP 1942# BHT 111 degrees.

4186-4193 (L Zone)

Limestone, buff, dense to finely crystalline, some medium crystalline, fair intercrystalline and small vug porosity, fair spotted stain, fair to good show of free oil, good odor, fair fluorescence, fair cut. Lower section is limestone, finely crystalline, oolitic with black oolites, mostly tight with trace of very poor spotted stain, no fluorescence, very poor cut.

Drill Stem Test No. 3

4166-4200

15-30-30-60; blow built to 3 ¼ inches on first flow, no blowback; blow built to five inches on second flow, no blowback; recovered 62 feet of slightly water cut mud (30% water, 70% mud), 93 feet of water cut mud (50% water, 50% mud), and 30 feet of mud. ISIP 887# FSIP 874# IFP 16-60# FFP 68-98# IHP 2041# FHP 2040# BHT 120 degrees.

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4205-4230 (Pleasanton Zone)

The Pleasanton section consisted of limestones, buff to tan to brown, dense to finely crystalline, slightly fossiliferous. The section was mostly tight with no shows of oil.

4230-4244 (Lenapah Zone)

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

4267-4270 & 4302-4304 (Altamont Zone)

Limestone, cream to buff, finely crystalline, some dense, partly fossiliferous, poor intercrystalline and interfossil porosity, poor spotted stain, very slight show of free oil, faint fleeting odor, no fluorescence, poor cut.

4337-4382 (Pawnee Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, trace of poor intercrystalline porosity with dead asphaltic stain, no show of live oil, becoming brown and dense in lower portion, tight, no show of oil.

4386-44412 (Fort Scott Zone)

Limestone, tan to brown, finely crystalline and oolitic, some dense-oolitic, poor to fair intercrystalline and interoolitic porosity, fair spotted stain, fair show of free oil, fair odor, poor fluorescence, poor cut. Lower section is brown, finely crystalline and oolitic, very poor intercrystalline and interoolitic porosity, scattered very poor spotted stain, very slight show of free oil, questionable odor, poor cut.

4415-4423 (Cherokee Lime Zone)

Limestone, brown, dense to finely crystalline, slightly fossiliferous, zone is mostly tight with no shows of oil.

Drill Stem Test No. 4

4266-4425

15-30-45-90; blow built to 1 ¼ inch then died back to ¾ inch on first flow, no blowback; quarter inch blow on second flow died in 22 minutes, no blowback; recovered 30 feet of mud. ISIP 741# FSIP 891# IFP 23-30# FFP 32-42# IHP 2244# FHP 2159# BHT 114 degrees.

4444-4470 (Johnson Zone)

Limestone, tan to brown, dense to finely crystalline, slightly fossiliferous, zone is mostly tight with only a hint of very poor spotted stain. Zone warrants no further evaluation.

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4489-4501 (Cherokee Sand Zone)

Sand, white to tan, very fine grained to fine grained, shaly, calcareous, fairly well sorted, well cemented with traces of scattered friable sand, poor intergranular porosity in friable sand, poor to fair spotted stain, slight show of free oil, poor fluorescence, poor cut, some scattered chert, white, fresh, opaque.

Drill Stem Test No. 5 4467-4518 (Straddle)

15-39-30-60; blow built to ¾ inch on first flow period, no blowback; blow did not return on second opening; recovered five feet of mud. ISIP 564# FSIP 619# IFP 33-36# FFP 517-878# IHP 2272# FHP 2274# BHT 125 degrees. This appears to be a flawed test. Because of an inaccurate rotation count it appears that on the second flow the tool either only partially opened, or did not open at all. The test appears to have an initial open, a shut in, another shut in, then another open period or partial open period. The open time on the first flow period was enough to indicate there is not sufficient reservoir quality in the Cherokee sand to produce oil or gas.

4510-4560 (Mississippian Zone)

Limestone, slightly dolomitic, cream, dense to finely crystalline, some mealy, soft, friable, brittle, scattered very poor intercrystalline porosity, no show of oil, some chert, cream, fresh, opaque, some tan dolomite with poor intercrystalline porosity and no show of oil. Some scattered chert, white to light grey, fresh, opaque.

4560 Rotary Total Depth

Conclusions and Recommendations:

Sample examination, drill stem testing and electric logging revealed no zones of possible commercial production in the No. 1-1 Wiles. It was therefore recommended that this well be plugged and abandoned.

Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

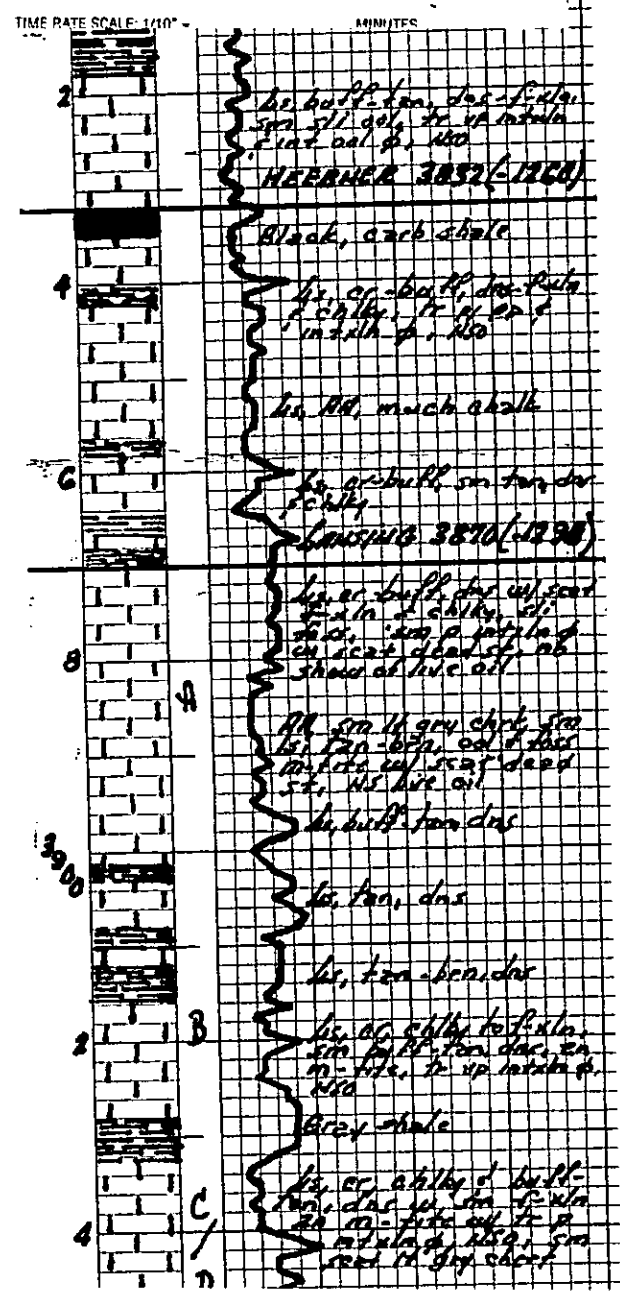
RCL:me

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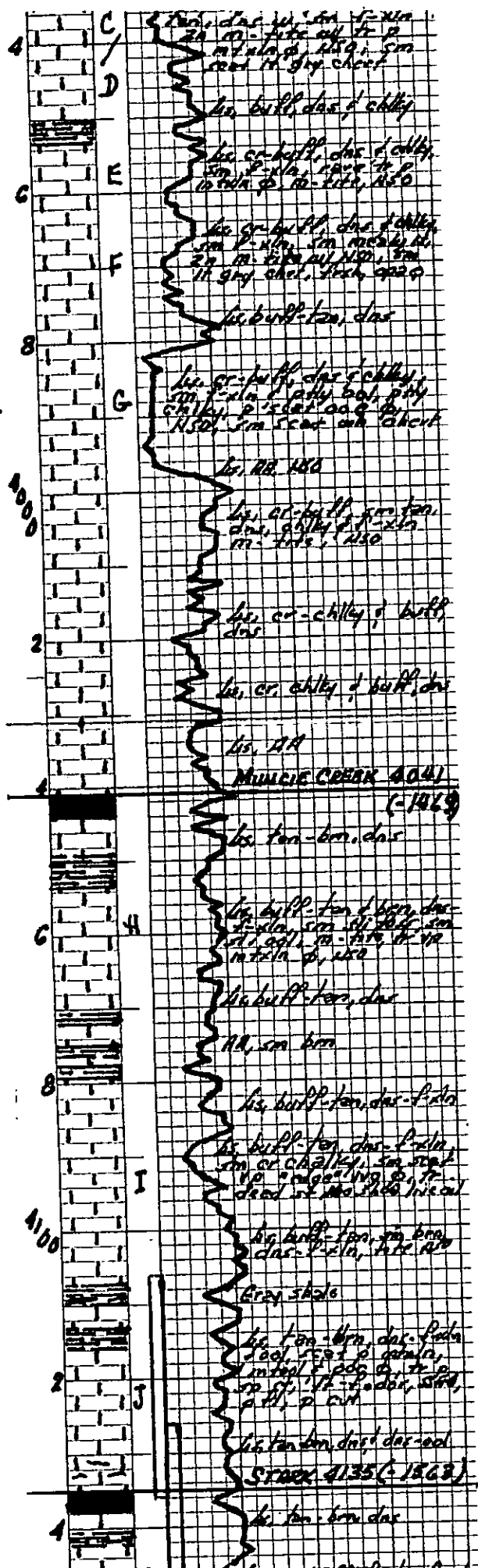
STATE KANSAS	COMPANY LARSON ENGINEERING INC.
COUNTY LANE	FARM WILBS
BLOCK	WELL NO. 1-1
SEC. 1	SURVEY 2960 FSL & 1668 FNE
T 185	R. 27W
TOTAL DEPTH	
CONTRACTOR HD Drilling, LLC	
COMMENCED 02-26-2010	
COMPLETED	
REMARKS	
ALTITUDE 2572 KB	PRODUCTION Robert C. Lowelky - Geologist

CASING RECORD
8 5/8" @ 264 KBM/1955x

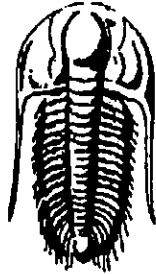
SHOT QUARTS BETWEEN



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 KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lewellyn

1-18s-27w Lane KS

Wiles #1-1

Start Date: 2010.03.04 @ 23:40:05

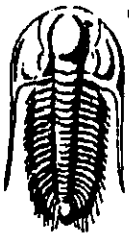
End Date: 2010.03.05 @ 07:05:14

Job Ticket #: 37773 DST #: 1

**KCC
JUN 24 2010
CONFIDENTIAL**

**RECEIVED
JUN 25 2010
KCC WICHITA**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lewellyn

Wiles #1-1

1-18s-27w Lane KS

Job Ticket: 37773

DST#: 1

Test Start: 2010.03.04 @ 23:40:05

GENERAL INFORMATION:

Formation: **Lans. J**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **02:31:30**

Time Test Ended: **07:05:14**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4106.00 ft (KB) To 4136.00 ft (KB) (TVD)**

Total Depth: **4136.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2572.00 ft (KB)**

2562.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: **8322** Inside

Press@RunDepth: **17.27 psig @ 4107.00 ft (KB)**

Start Date: **2010.03.04**

End Date:

2010.03.05

Capacity: **8000.00 psig**

Last Calib.: **2010.03.05**

Start Time: **23:40:05**

End Time:

07:05:14

Time On Btm: **2010.03.05 @ 02:31:00**

Time Off Btm: **2010.03.05 @ 04:46:14**

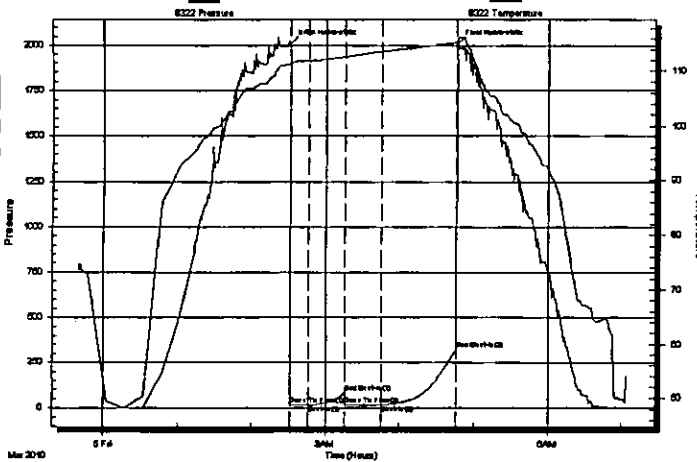
TEST COMMENT: **IF: 1/4 inch died in 11 mins.**

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

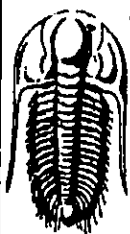
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.29	111.21	Initial Hydro-static
1	15.80	111.06	Open To Flow (1)
15	16.69	111.80	Shut-In(1)
45	82.71	112.64	End Shut-In(1)
46	16.47	112.64	Open To Flow (2)
75	17.27	113.60	Shut-In(2)
135	325.56	115.26	End Shut-In(2)
136	2012.26	115.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100% m	0.02
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Wiles #1-1

562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37773

DST#: 1

ATTN: Bob Lew elyn

Test Start: 2010.03.04 @ 23:40:05

Tool Information

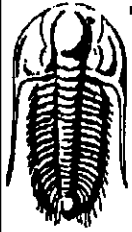
Drill Pipe:	Length: 3981.00 ft	Diameter: 3.80 inches	Volume: 55.84 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	56.45 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4106.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4079.00	
Shut In Tool	5.00			4084.00	
Hydraulic tool	5.00			4089.00	
Jars	5.00			4094.00	
Safety Joint	3.00			4097.00	
Packer	5.00			4102.00	28.00 Bottom Of Top Packer
Packer	4.00			4106.00	
Stubb	1.00			4107.00	
Recorder	0.00	8322	Inside	4107.00	
Recorder	0.00	8166	Inside	4107.00	
Perforations	24.00			4131.00	
Bullnose	5.00			4136.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Wiles #1-1

562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37773

DST#: 1

ATTN: Bob Lew ellyn

Test Start: 2010.03.04 @ 23:40:05

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%m	0.025
0.00	GP = 0	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

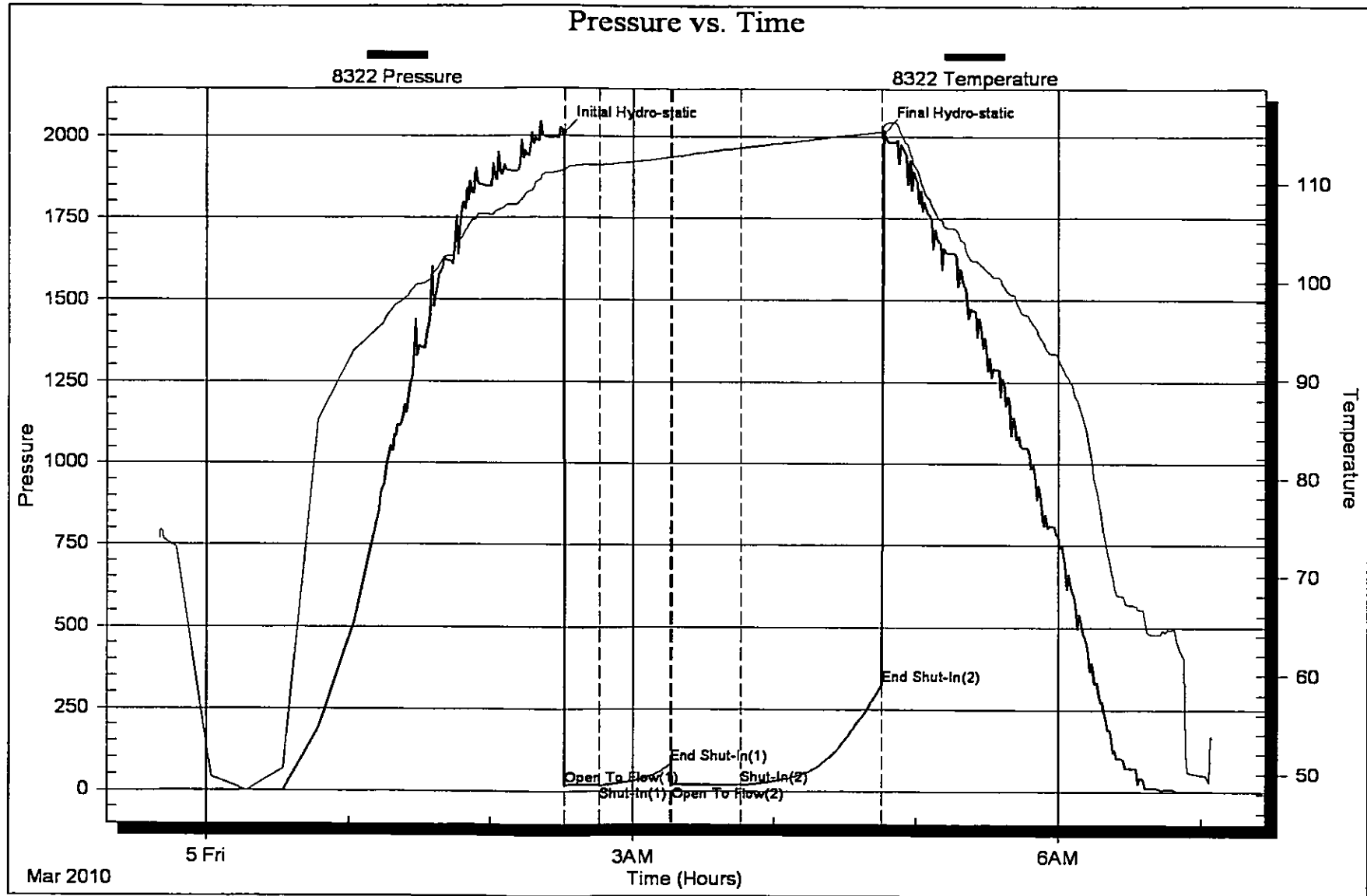
Num Gas Bombs: 0

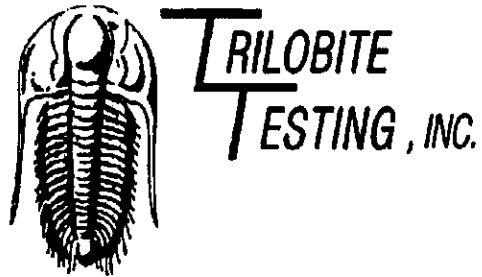
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lewellyn

1-18s-27w Lane KS

Wiles #1-1

Start Date: 2010.03.05 @ 14:24:05

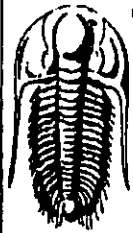
End Date: 2010.03.05 @ 19:47:29

Job Ticket #: 37774 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lew elyn

Wiles #1-1

1-18s-27w Lane KS

Job Ticket: 37774

DST#: 2

Test Start: 2010.03.05 @ 14:24:05

GENERAL INFORMATION:

Formation: **Lans, K**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 15:56:00

Time Test Ended: 19:47:29

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4126.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Reference Elevations: **2572.00 ft (KB)**

Total Depth: **4150.00 ft (KB) (TVD)**

2562.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: 10.00 ft

Serial #: 8322 Inside

Press@RunDepth: **48.92 psig @ 4127.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.03.05**

End Date: **2010.03.05**

Last Calib.: **2010.03.05**

Start Time: **14:24:05**

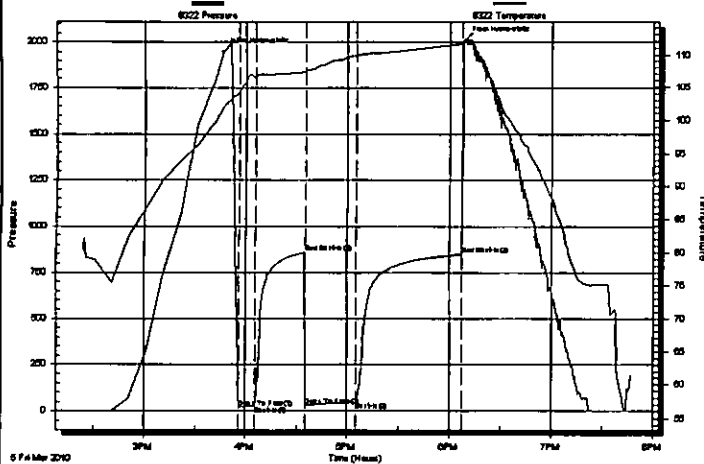
End Time: **19:47:29**

Time On Btm: **2010.03.05 @ 15:46:00**

Time Off Btm: **2010.03.05 @ 18:08:30**

TEST COMMENT: IF: Built to 1 inch.
IS: No return.
FF: Came back @ 10 mins built to 1/4 inch died back to weak surface.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.48	101.94	Initial Hydro-static
10	17.00	104.25	Open To Flow (1)
20	29.09	106.68	Shut-In(1)
49	857.74	107.32	End Shut-In(1)
50	30.58	107.19	Open To Flow (2)
79	48.92	109.86	Shut-In(2)
142	847.91	111.54	End Shut-In(2)
143	2008.83	112.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	M 100% m	0.30
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Wiles #1-1

562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37774

DST#: 2

ATTN: Bob Lewellyn

Test Start: 2010.03.05 @ 14:24:05

Tool Information

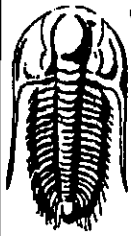
Drill Pipe:	Length: 3981.00 ft	Diameter: 3.80 inches	Volume: 55.84 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4126.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4099.00	
Shut In Tool	5.00			4104.00	
Hydraulic tool	5.00			4109.00	
Jars	5.00			4114.00	
Safety Joint	3.00			4117.00	
Packer	5.00			4122.00	28.00 Bottom Of Top Packer
Packer	4.00			4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	8322	Inside	4127.00	
Recorder	0.00	8166	Inside	4127.00	
Perforations	18.00			4145.00	
Bullnose	5.00			4150.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Wiles #1-1

562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37774

DST#: 2

ATTN: Bob Lewellyn

Test Start: 2010.03.05 @ 14:24:05

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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.77 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	M 100%m	0.295
0.00	GIP = 0	0.000

Total Length: 60.00 ft

Total Volume: 0.295 bbf

Num Fluid Samples: 0

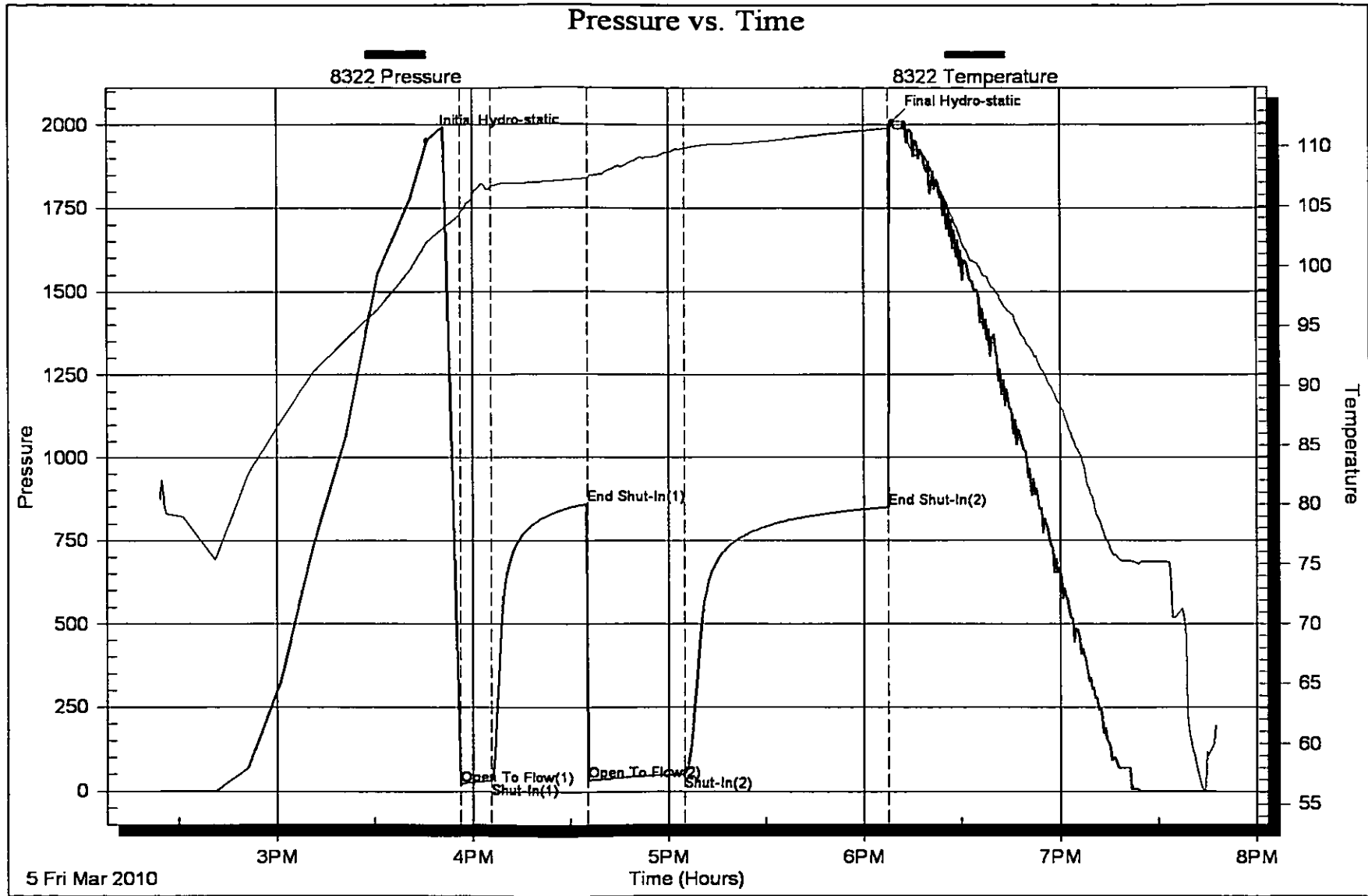
Num Gas Bombs: 0

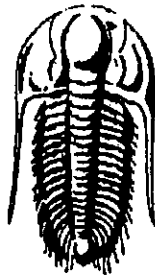
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lewellyn

1-18s-27w Lane KS

Wiles #1-1

Start Date: 2010.03.06 @ 07:07:05

End Date: 2010.03.06 @ 12:59:14

Job Ticket #: 37775 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Larson Engineering

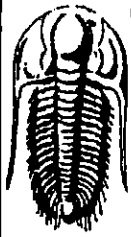
Wiles #1-1

1-18s-27w Lane KS

DST # 3

Lans L

2010.03.06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lew ellyn

Wiles #1-1

1-18s-27w Lane KS

Job Ticket: 37775

DST#: 3

Test Start: 2010.03.06 @ 07:07:05

GENERAL INFORMATION:

Formation: **Lans L**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 08:48:00

Time Test Ended: 12:59:14

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4166.00 ft (KB) To 4200.00 ft (KB) (TVD)**

Total Depth: **4200.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2572.00 ft (KB)**

2562.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: **8322** Inside

Press@RunDepth: **98.04 psig @ 4167.00 ft (KB)**

Start Date: **2010.03.06**

End Date: **2010.03.06**

Start Time: **07:07:05**

End Time: **12:59:14**

Capacity: **8000.00 psig**

Last Calib.: **2010.03.06**

Time On Btm: **2010.03.06 @ 08:47:30**

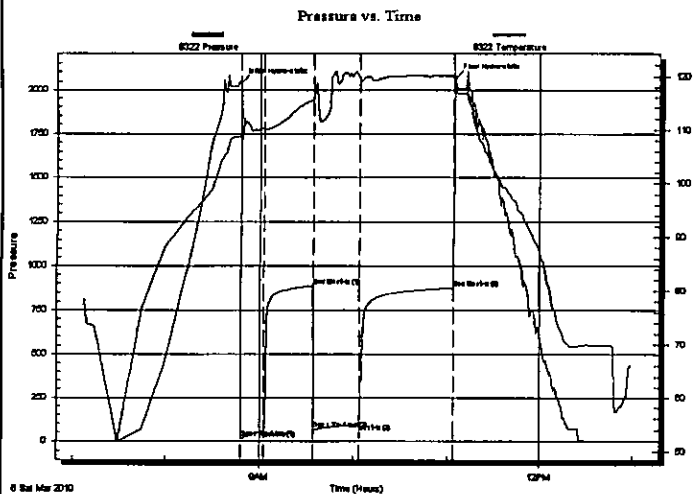
Time Off Btm: **2010.03.06 @ 11:05:00**

TEST COMMENT: IF: Built to 3 1/4 inches.

IS: No return.

FF: Built to 5 inches.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.41	108.78	Initial Hydro-static
1	16.51	107.98	Open To Flow (1)
16	60.18	109.95	Shut-In(1)
47	887.54	115.67	End Shut-In(1)
48	68.55	116.04	Open To Flow (2)
76	98.04	119.87	Shut-In(2)
137	874.57	120.21	End Shut-In(2)
138	2068.82	117.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100%m	0.15
93.00	WCM 50%w 50%m	0.46
62.00	SWCM 30%w 70%m	0.86
0.00	GIP = 0	0.00
0.00	RW = .125@64 F =70000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Wiles #1-1

562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37775

DST#: 3

ATTN: Bob Lewellyn

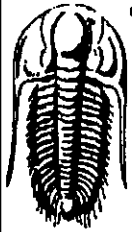
Test Start: 2010.03.06 @ 07:07:05

Tool Information

Drill Pipe:	Length: 4050.00 ft	Diameter: 3.80 inches	Volume: 56.81 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 57.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4166.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4147.00	
Shut In Tool	5.00			4152.00	
Hydraulic tool	5.00			4157.00	
Packer	5.00			4162.00	20.00 Bottom Of Top Packer
Packer	4.00			4166.00	
Stubb	1.00			4167.00	
Recorder	0.00	8322	Inside	4167.00	
Recorder	0.00	8166	Inside	4167.00	
Perforations	28.00			4195.00	
Bullnose	5.00			4200.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Wiles #1-1

562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37775

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2010.03.06 @ 07:07:05

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:

70000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%m	0.148
93.00	WCM 50%w 50%m	0.457
62.00	SWCM 30%w 70%m	0.861
0.00	GP = 0	0.000
0.00	RW = .125@64 F =70000 ppm	0.000

Total Length: 185.00 ft

Total Volume: 1.466 bbl

Num Fluid Samples: 0

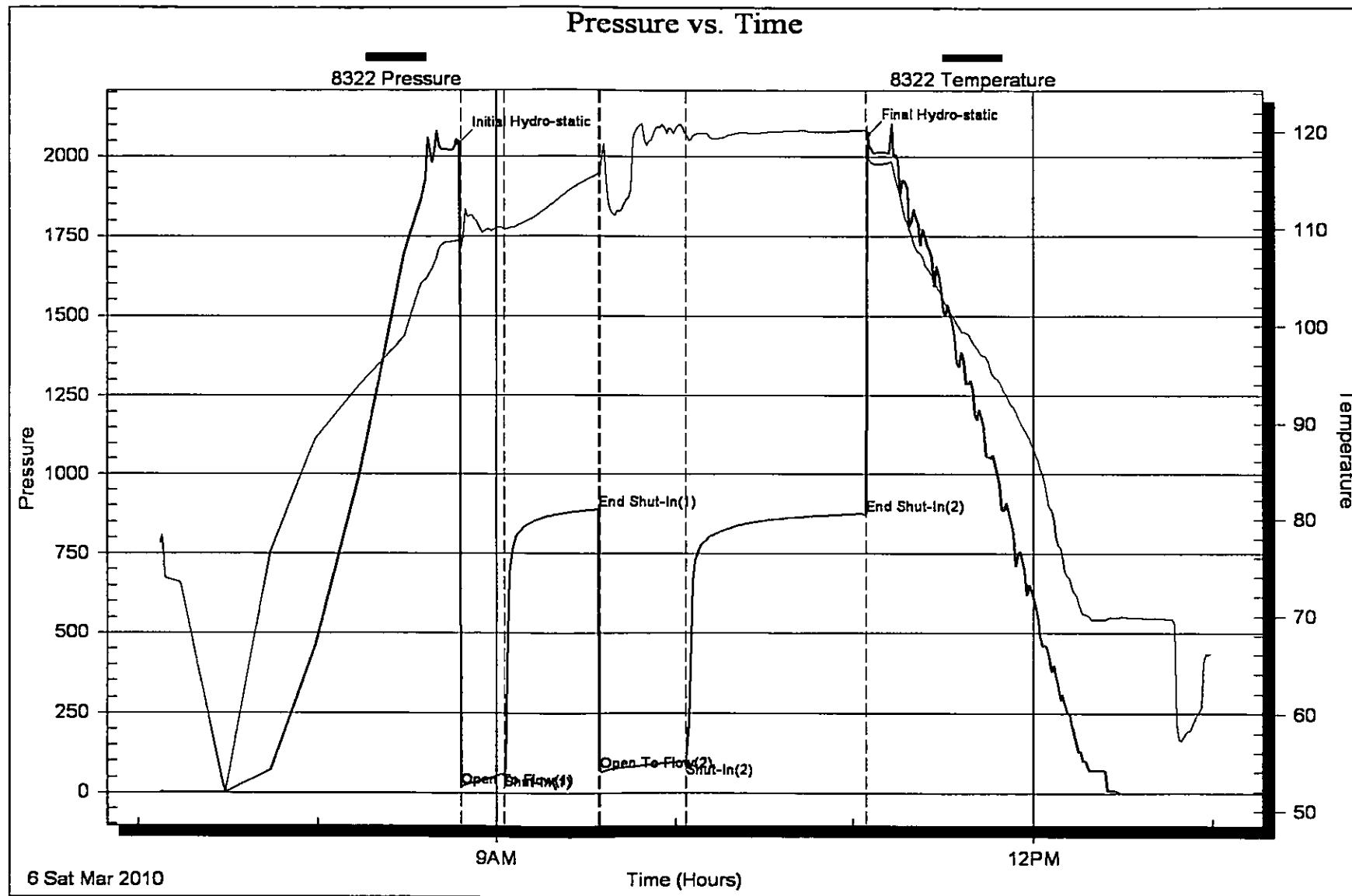
Num Gas Bombs: 0

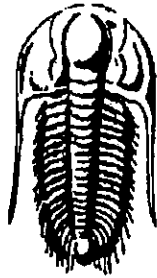
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lewellyn

1-18s-27w Lane KS

Wiles #1-1

Start Date: 2010.03.07 @ 19:25:05

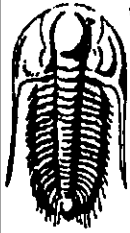
End Date: 2010.03.08 @ 02:55:14

Job Ticket #: 37801 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lewellyn

Wiles #1-1

1-18s-27w Lane KS

Job Ticket: 37801

DST#: 4

Test Start: 2010.03.07 @ 19:25:05

GENERAL INFORMATION:

Formation: **Altamont - Ft Scott**

Deviated: **No Whipstock: ft (KB)**

Time Tool Opened: 21:23:30

Time Test Ended: 02:55:14

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4266.00 ft (KB) To 4425.00 ft (KB) (TVD)**

Reference Elevations: **2572.00 ft (KB)**

Total Depth: **4425.00 ft (KB) (TVD)**

2562.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **10.00 ft**

Serial #: 8322

Inside

Press@RunDepth: **42.01 psig @ 4267.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.03.07**

End Date:

2010.03.08

Last Calib.:

2010.03.08

Start Time: **19:25:05**

End Time:

02:55:14

Time On Btm: **2010.03.07 @ 21:20:45**

Time Off Btm: **2010.03.08 @ 00:26:59**

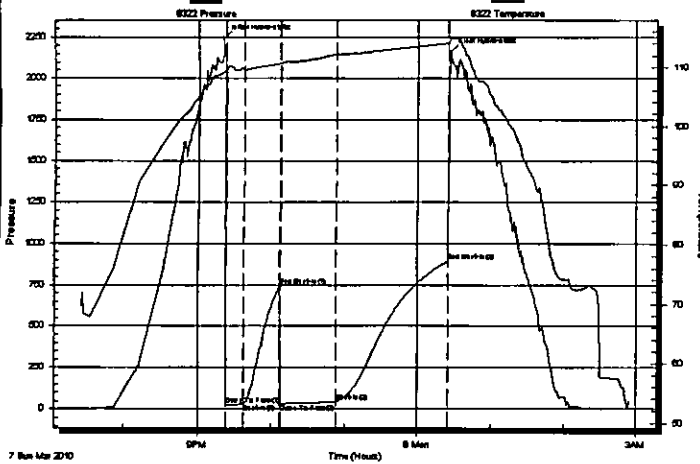
TEST COMMENT: IF: Built to 1 1/4 inch died back to 3/4 inch.

IS: No return.

FF: 1/4 inch died in 22 mins.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.34	109.17	Initial Hydro-static
3	23.24	109.51	Open To Flow (1)
17	30.01	109.52	Shut-In(1)
47	741.83	110.58	End Shut-In(1)
47	32.36	110.62	Open To Flow (2)
93	42.01	112.21	Shut-In(2)
185	891.59	114.01	End Shut-In(2)
187	2159.58	114.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Wiles #1-1

562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37801

DST#: 4

ATTN: Bob Lewellyn

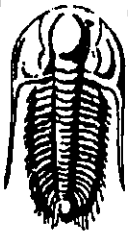
Test Start: 2010.03.07 @ 19:25:05

Tool Information

Drill Pipe:	Length: 4134.00 ft	Diameter: 3.80 inches	Volume: 57.99 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4266.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	159.00 ft			
Tool Length:	187.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	3.00			4257.00	
Packer	5.00			4262.00	28.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	8322	Inside	4267.00	
Recorder	0.00	8166	Inside	4267.00	
Perforations	30.00			4297.00	
Change Over Sub	1.00			4298.00	
Drill Pipe	121.00			4419.00	
Change Over Sub	1.00			4420.00	
Bullnose	5.00			4425.00	159.00 Bottom Packers & Anchor
Total Tool Length:	187.00				



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FLUID SUMMARY

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562 W State RD 4
Olmitz KS, 67564

1-18s-27w Lane KS

Job Ticket: 37801

DST#: 4

ATTN: Bob Lew ellyn

Test Start: 2010.03.07 @ 19:25:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil Apt:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

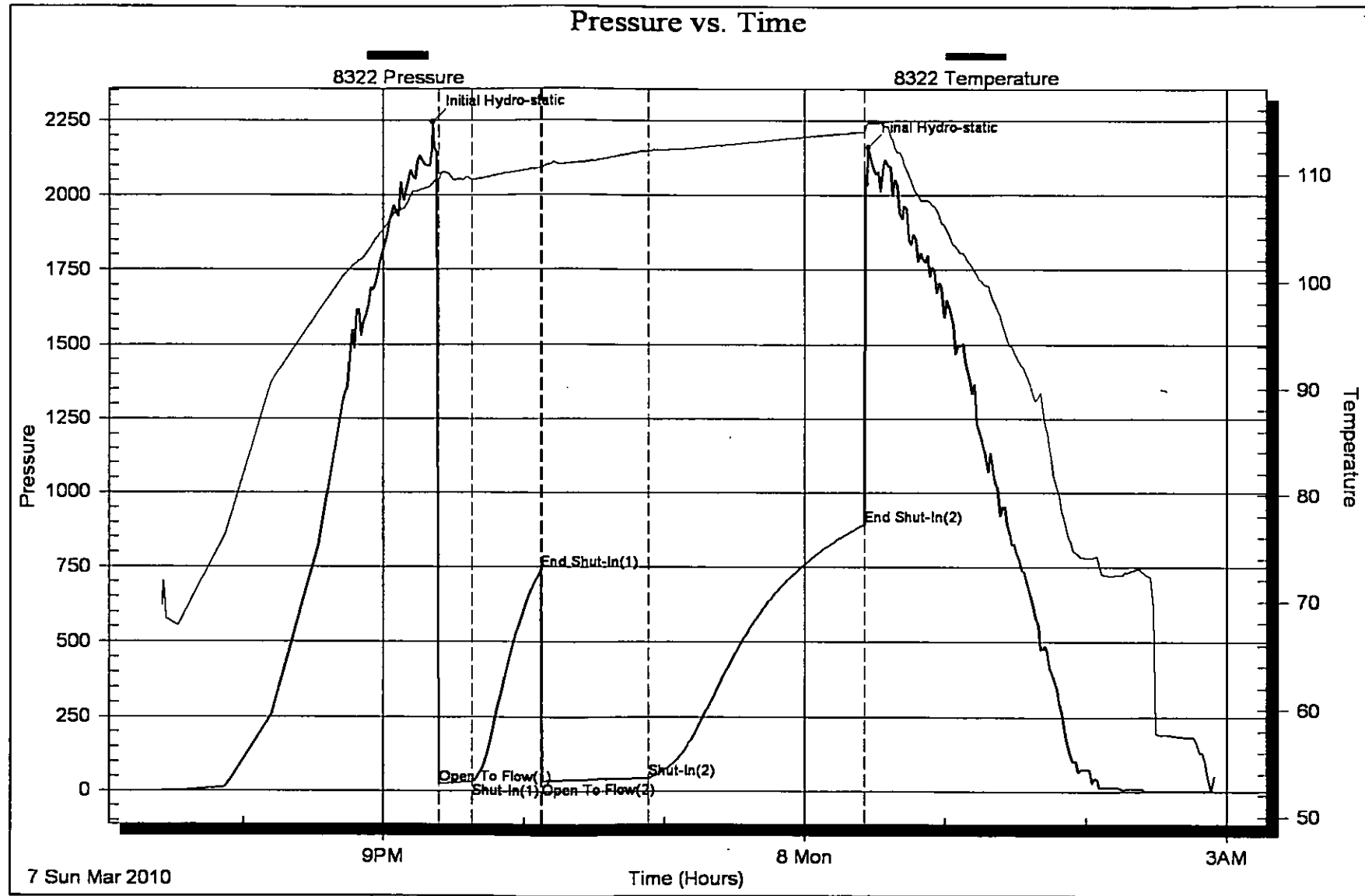
Length ft	Description	Volume bbl
30.00	M 100%m	0.148
0.00	GP = 0	0.000

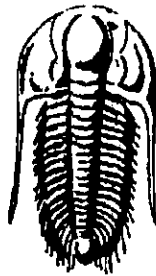
Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lewellyn

1-18s-27w Lane KS

Wiles #1-1

Start Date: 2010.03.09 @ 07:56:05

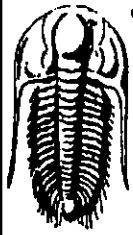
End Date: 2010.03.09 @ 14:29:14

Job Ticket #: 37802 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering

562 W State RD 4
Olmitz KS, 67564

ATTN: Bob Lew ellyn

Wiles #1-1

1-18s-27w Lane KS

Job Ticket: 37802

DST#: 5

Test Start: 2010.03.09 @ 07:56:05

GENERAL INFORMATION:

Formation: Cherokee Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:03:15

Time Test Ended: 14:29:14

Test Type: Conventional Straddle

Tester: Brandon Domsch

Unit No: 48

Interval: 4467.00 ft (KB) To 4518.00 ft (KB) (TVD)

Total Depth: 4560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2572.00 ft (KB)

2562.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8322 Inside

Press@RunDepth: 878.53 psig @ 4468.00 ft (KB)

Start Date: 2010.03.09

End Date:

2010.03.09

Capacity: 8000.00 psig

Last Calib.: 2010.03.09

Start Time: 07:56:05

End Time:

14:29:14

Time On Btm: 2010.03.09 @ 10:02:15

Time Off Btm: 2010.03.09 @ 12:23:29

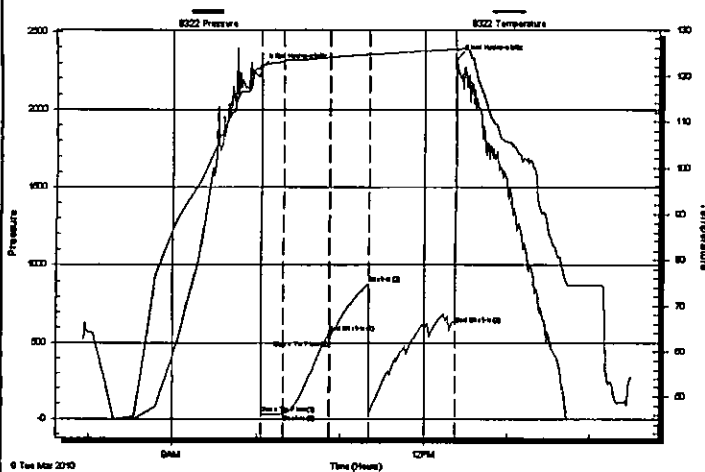
TEST COMMENT: IF: Built to 3/4 inch.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

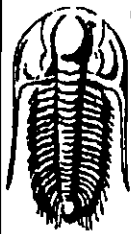
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.68	122.50	Initial Hydro-static
1	33.44	121.67	Open To Flow (1)
17	36.21	123.35	Shut-In(1)
50	564.40	124.06	End Shut-In(1)
50	517.51	124.05	Open To Flow (2)
79	878.53	124.69	Shut-In(2)
141	619.30	125.81	End Shut-In(2)
142	2325.81	125.45	Final Hydro-static

Recovery

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

Gas Rates

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



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Job Ticket: 37802

DST#: 5

ATTN: Bob Lewellyn

Test Start: 2010.03.09 @ 07:56:05

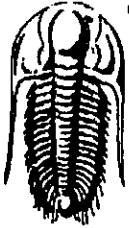
Tool Information

Drill Pipe:	Length: 4346.00 ft	Diameter: 3.80 inches	Volume: 60.96 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 61.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4467.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	4518.00 ft			
Interval between Packers:	51.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4440.00		
Shut In Tool	5.00			4445.00		
Hydraulic tool	5.00			4450.00		
Jars	5.00			4455.00		
Safety Joint	3.00			4458.00		
Packer	5.00			4463.00	28.00	Bottom Of Top Packer
Packer	4.00			4467.00		
Stubb	1.00			4468.00		
Recorder	0.00	8322	Inside	4468.00		
Recorder	0.00	8166	Inside	4468.00		
Perforations	4.00			4472.00		
Change Over Sub	1.00			4473.00		
Drill Pipe	30.00			4503.00		
Change Over Sub	1.00			4504.00		
Perforations	10.00			4514.00		
Blank Off Sub	1.00			4515.00		
Top of packer	3.00			4518.00	51.00	Tool Interval
Packer	1.00			4519.00		
Stubb	1.00			4520.00		
Blank Spacing	4.00			4524.00		
Change Over Sub	1.00			4525.00		
Recorder	0.00	8358	Below	4525.00		
Drill Pipe	30.00			4555.00		
Change Over Sub	1.00			4556.00		
Bullnose	5.00			4561.00	43.00	Bottom Packers & Anchor

Total Tool Length: 122.00



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Job Ticket: 37802

DST#: 5

ATTN: Bob Lew ellyn

Test Start: 2010.03.09 @ 07:56:05

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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	M 100% _m	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

