



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: _____



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 Bbbs.	Gas Mcf	Water Bbbs.	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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 2-24
Doc ID	1053345

All Electric Logs Run

Dual induction
Dual Comp Porosity
Borehole Comp Sonic
Microresistivity

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 2-24
Doc ID	1053345

Tops

Name	Top	Datum
Anhydrite	2156	+693
Base Anhydrite	2215	+634
Heebner	3901	-1052
Lansing	3940	-1091
Stark Sh	4218	-1369
Pawnee	4409	-1560
Cherokee Sh	4494	-1645
Mississippi	-4560	-1711

Summary of Changes

Lease Name and Number: Marit 2-24

API/Permit #: 15-101-22268-00-00

Doc ID: 1053345

Correction Number: 2

Approved By: Deanna Garrison

Field Name	Previous Value	New Value
Approved By	Amy Banks	Deanna Garrison
Well Number	2-24 SWD	2-24



1053342

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 Yes No
 (Attach Additional Sheets)

 Samples Sent to Geological Survey Yes No

 Cores Taken Yes No

 Electric Log Run Yes No

 Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

List All E. Logs Run:

 Log Formation (Top), Depth and Datum Sample
 Name Top Datum
CASING RECORD New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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

 Vented Sold Used on Lease
 (If vented, Submit ACO-18.)

METHOD OF COMPLETION:

 Open Hole Perf. Dually Comp. Commingled
 (Submit ACO-5) (Submit ACO-4)
 Other (Specify) _____

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 2-24 SWD
Doc ID	1053342

All Electric Logs Run

Dual induction
Dual Comp Porosity
Borehole Comp Sonic
Microresistivity

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 2-24 SWD
Doc ID	1053342

Tops

Name	Top	Datum
Anhydrite	2156	+693
Base Anhydrite	2215	+634
Heebner	3901	-1052
Lansing	3940	-1091
Stark Sh	4218	-1369
Pawnee	4409	-1560
Cherokee Sh	4494	-1645
Mississippi	-4560	-1711

Summary of Changes

Lease Name and Number: Marit 2-24 SWD

API/Permit #: 15-101-22268-00-00

Doc ID: 1053342

Correction Number: 1

Approved By: Amy Banks

Field Name	Previous Value	New Value
API	15-101-22268-00-01	15-101-22268-00-00
Approved By	NAOMI JAMES	Amy Banks
Approved Date	03/28/2011	04/05/2011



CONFIDENTIAL

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 #: _____
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- 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: _____



1052836

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 2-24 SWD
Doc ID	1052836

All Electric Logs Run

Dual induction
Dual Comp Porosity
Borehole Comp Sonic
Microresistivity

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 2-24 SWD
Doc ID	1052836

Tops

Name	Top	Datum
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Lansing	3940	-1091
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Pawnee	4409	-1560
Cherokee Sh	4494	-1645
Mississippi	-4560	-1711

ALLIED CEMENTING CO., LLC. 040627

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Medicine Creek

DATE <u>12-16-10</u>	SEC. <u>24</u>	TWP. <u>18</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 pm</u>	JOB FINISH <u>6:45 pm</u>
LEASE <u>perit</u>		WELL # <u>2-24</u>		LOCATION <u>West of Dighton KS</u>		COUNTY <u>Loge</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>to Engle Rd. 1/2 S. E into</u>			

CONTRACTOR H-O Drilling #3
 TYPE OF JOB _____
 HOLE SIZE 12 1/4 T.D. 260
 CASING SIZE 8 5/8 DEPTH 259
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 300 psi MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT 15 1/4 lbs water

OWNER Larson Engineering
 CEMENT AMOUNT ORDERED 175 sk A + 3% cc + 2% gel

EQUIPMENT

PUMP TRUCK CEMENTER Mo H Thomech
 # 414302 HELPER Ron Gilley
 BULK TRUCK
 # 381/256 DRIVER Raymond R.
 BULK TRUCK
 # _____ DRIVER _____

COMMON <u>Class A 175 sk @ 15.45</u>	<u>2703.75</u>
POZMIX @ _____	
GEL <u>4 sk @ 20.80</u>	<u>83.20</u>
CHLORIDE <u>6 sk @ 58.20</u>	<u>349.20</u>
ASC @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
HANDLING <u>185 @ 2.40</u>	<u>444.00</u>
MILEAGE <u>185 / 10 / 40</u>	<u>740.00</u>
TOTAL	<u>4320.15</u>

REMARKS:

Hookup ~~to~~ work circ with rig switch to truck pump 3 bbls water then mix 175 sk disp 15 1/4 water shot in cement disk circ.

SERVICE

DEPTH OF JOB <u>260'</u>	
PUMP TRUCK CHARGE <u>1018.00</u>	
EXTRA FOOTAGE @ _____	
MILEAGE <u>40 @ 7.00</u>	<u>280.00</u>
MANIFOLD @ _____	
_____ @ _____	
TOTAL	<u>1298.00</u>

CHARGE TO: Larson Engineering
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>X</u>	@	_____
	@	_____
	@	_____
	@	_____
	@	_____
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.

SALES TAX (If Any) _____
 TOTAL CHARGES 1298.00
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME LEWIS TRESNER
 SIGNATURE Lewis Turner

ALLIED CEMENTING CO., LLC. 040569

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend KS

DATE <u>010311</u>	SEC. <u>24</u>	TWP <u>18s</u>	RANGE <u>30w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>MARTT</u> WELL # <u>2-24</u> LOCATION <u>Dighton KS, 7w, 1/4s, E into Lane</u>						COUNTY <u>Lane</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR H D Drilling
 TYPE OF JOB Rotary Plug
 HOLE SIZE 7 7/8 T.D. 4617'
 CASING SIZE 8 5/8 DEPTH 260'
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 2210'
 TOOL DEPTH
 PRES. MAX 300 MINIMUM —
 MEAS. LINE SHOE JOINT N/A
 CEMENT LEFT IN CSG. —
 PERFS.
 DISPLACEMENT Fresh H₂O & Drilling mud
 EQUIPMENT

OWNER Larson Engineering
 CEMENT
 AMOUNT ORDERED 280sx 60:40:4% gel + 1/4" Flo Seal

PUMP TRUCK CEMENTER D. Felio / W. Davis
#366 (224) HELPER B. Rollex / (C.J.) FWS
 BULK TRUCK
#344-170 DRIVER K. Weighouse
 BULK TRUCK
 # DRIVER

COMMON	<u>168</u>	@	<u>13.50</u>	<u>2268.00</u>
POZMIX	<u>112</u>	@	<u>7.55</u>	<u>845.60</u>
GEL	<u>10</u>	@	<u>20.25</u>	<u>202.50</u>
CHLORIDE		@		
ASC		@		
<u>P10541</u>	<u>70#</u>	@	<u>2.45</u>	<u>171.50</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>280</u>	@	<u>2.25</u>	<u>630.00</u>
MILEAGE	<u>280x41x.10</u>			<u>1148.00</u>
TOTAL				<u>5.265</u>

REMARKS:

Drill Pipe at 2210', Load Hole, Pump 8 1/2 Bbls Fresh H₂O, Mix 50sx 60:40 cement Bleed, Disp. w/ 3 Fresh H₂O & 25 mud, Drill Pipe at 1430, load Hole, Pump 8 1/2 Bbls Spacers, Mix 80sx cement, Disp. w/ 3 Fresh & 12 mud Pipe at 700, Load Hole, Pump 8 1/2, Mix 50sx, Disp. w/ 3 Fresh & 3 1/2 mud, Pipe at 290, Load Hole, Pump 3 Bbls Spacers, Disp. w/ 1 Bbl Fresh H₂O, Pipe at 60, mix 20sx cement, Plug Rat Hole w/ 30sx cement,

SERVICE

DEPTH OF JOB	<u>2210</u>			
PUMP TRUCK CHARGE				<u>991.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>41</u>	@	<u>7.00</u>	<u>287.00</u>
MANIFOLD	<u>N/A</u>	@		
		@		
		@		

CHARGE TO: Larson Engineering
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 1278.00

PLUG & FLOAT EQUIPMENT

<u>NONE</u>	@	
	@	
	@	
	@	
	@	

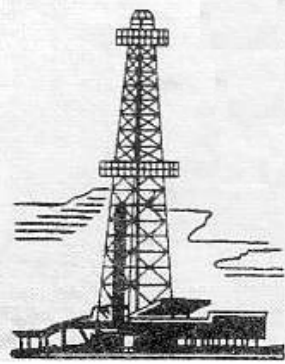
TOTAL _____

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.

SALES TAX (If Any) _____
 TOTAL CHARGES 1278.00
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME LEWYNE TRESNER

SIGNATURE Lewyne Tresner



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: MARIT #2-24
Location: NW SE NE NW SEC 24-18S-30W
Licence Number: API: 15-101-22268
Spud Date: Dec. 16, 2010
Surface Coordinates: 768' FNL & 2242' FWL

Region: Lane Co., KS
Drilling Completed: Jan. 02, 2011

Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 2842' K.B. Elevation (ft): 2849'
Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4617'
Formation: Mississippi
Type of Drilling Fluid: Chemical Premix (Displaced)

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

OPERATOR:

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

DRILLING CONTRACTOR:

H. D. Drilling, LLC, Rig #3

DP 4.5" XH (16.6#); DC 6.0" (ave) x 2-3/8" (ave) x 651,67', Kelly + Bit 41.30', Tool Joint 5.5" ; Bit: QX20, 7-7/8", jets 14-14-14; rpm 80, wob 35k; Kelly Bushing 7' above ground level; LeWayne "Lew" Tresner (tool pusher).

SURFACE CASING:

Set 8-5/8" surface casing at 256 feet (tally 247', 20#).

CIRCULATION SYSTEM:

Pump: Gardner-Denver FXQ-172, duplex, 6 x 16, 2" rod, 54 spm, 340 gpm (85%). SPP: 750-900 psi; Chemical, premix, displaced at 3730'; Morgan Mud, Inc., McCook, Neb., David Lines, Cade Lines.

GAS DETECTION SYSTEM:

None.

OPEN HOLE LOGS:

DN (DGA), DI (SP), ML, Sonic: 5" detail RTD-3600'; 2" DI to surface casing; Log-Tech, Inc., Hays, KS, J. Schuler; Log total depth (4626') was 9' low to rotary total depth (4617').

COMPLETION:

Dry & Abandoned

DRILL STEM TEST #1:

Zone: Kans. City "L": Test Interval: 4255-4280 (25' anchor); Blow; weak 1-3/4" IFP, no blow 2nd open; Time Periods: 15-30-30-60; Recovery: no GIP; 5' mud; Pressures: HP: 2152-2093 psi; SIP: 895-881 psi; FP: 37-40, 40-44 psi; Aparatus: dual packers, jars, joints, 150' D.C.; Superior Testers Enterprises LLC, Jared Scheck.

DRILL STEM TEST #2:

Zone: Marmaton, Cherokee; Test Interval: 4370-4545 (175' anchor); Blow: weak incr 6" IFP, no blow-back, weak surf blow thru FFP, no blow-back; Time Periods: 15-30-30-60; Recovery: 120' mud; Pressures: HP: 2324-2244; SIP: 908-1439 psi; FP: 168-172, 173-176 psi; BHT: 116 deg F; dual packers with shale packer, jars, safety joints, 150' D.C.; Superior Testers Enterprises, LLC., Jarad Scheck.

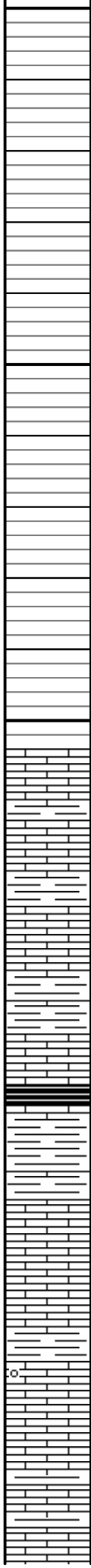
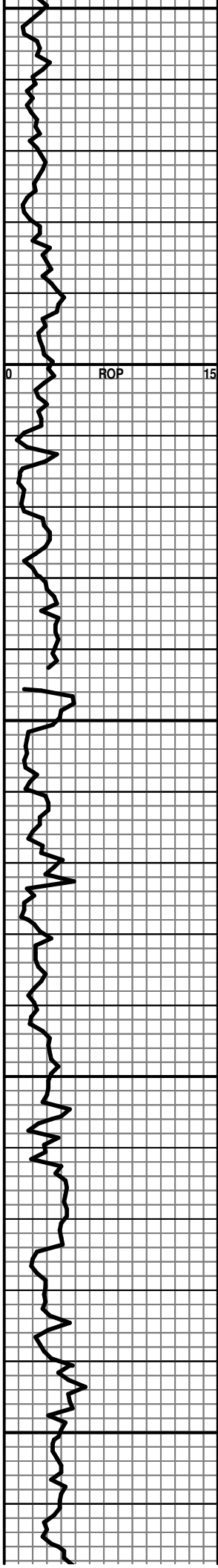
7AM DAILY ACTIVITY:

12/11: MIRU
 12/12: A-Leg repairs
 12/16: SPUD
 12/17: Drilling 495'
 12/18: Drilling 1995'
 12/19: Drilling 2885'
 12/20: Drilling 3410'
 12/21: TOH 3488', Shut-Down.
 12/27: ReStart after holidays.
 12/28: Drilling 3680'
 12/29: Drilling 4089'
 12/30: 4271 CFS
 12/31: 4368 Drilling
 01/01: 4539 Thawing Out Rig
 01/02: 4545 DST-2
 01/02: RTD 4617 3:44pm
 01/03: Released approx 4am

WELLSITE GEOLOGIST:

Vern Schrag

ROP ROP (min/ft)	DST	Lithology	Porosity and Show Depth	Geological Descriptions	TG, C1-C4 / REMARKS
			0	ANHYDRITE 2156 (+693) B/ANHY 2215 (+634)	REFERENCE WELL: LARSON ENGINEERING, INC., MARIT #1-24, SEC 24-18S-30W. RIG DRILLED TO 3478' AND TOH FOR CHRISTMAS. THEN TOOK 13 HOURS TO REAM BACK TO 3478 AFTER HOLIDAYS. GEO ON LOCATION & SETUP BY 3730, 12/28/2010. START DISPLACEMENT AT 3730.



375
3800
3850
3900
3950

START 10 FOOT SAMPLES AT 3800-3810.

MORGAN MUD CHECK: 12/28-1pm: 3796: VIS 46, WT 8.7, WL 7.2, CHL 1900, LCM 1#.

EARLY SAMPLES ARE AT LEAST 1/3 COARSE PERMIAN REDBED SLOUGH.

LS: LT-GRAYISH BRN; VF-XTAL; POOR VUG POROSITY; NO SHOWS.

LS: LT-GRAYISH BRN; VF-XTAL; SCAT PIN-POINT POROSITY; NO SHOWS;

SHALE: BROWN;

LS: LT-MD GRAYISH BRN, WITH DK BRN SPECKS; VF-XTAL; SLI SHALEY; NO VISIBLE POROSITY; NO SHOW;

HEEBNER 3901 (-1052)

SHALE: BLACK; CARBON; TRC 3910, INCR 3920.

ESTIMATE CUTTINGS AV = 118 FPM.

SHALE: STEEL GRAY, BROWN; SILTY IN PART, CALC IN PART;

LS: LT GRAY; VF-XTAL; DENSE; CHERTY; NO VISIBLE POROSITY; NO SHOWS. 3930.

LS: LT-GRAY, SOME WHITE; MIC-VF XTAL; CHALKY IN PART & SLI FOS; NO VISIBLE POROSITY; DULL SPTD FLUOR; NO SHOWS;

LS: WHITE; MIC-XTAL; DENSE; NO VISIBLE POROSITY; DULL EVEN FLUOR; NO SHOWS;

SHALE: GRAY; DRAB;

LANSING 3940 (-1091)

LS: MD GRAYISH BROWN; VF-XTAL; DENSE; GRAIN SUPTD OOLITE IN PART; V-TIGHT INT OOL POROSITY; DULL SPOTTED FLUOR; NO SHOWS;

LS: LT-MD GRAYISH BRN; VF-XTAL; FINE GRAN IN PART; TIGHT INT GRAN POR; NO SHOWS.

MISSED 3970 SAMPLE AT SHIFT CHANGE.

SHALE: BLACK; CARBON; TRC 3980.

SHALE: GRAY;

LS: WHITE, LT BRN; VF-XTAL; TRC WHITE CHERT; FINELY GRAN IN PART; TIGHT INT GRAN POR; SCAT SPTD-EVEN DULL FLUOR; NO SHOWS.

4000 LS: WHITE, LT BRN; MIC-VF XTAL; DENSE; SLI CHALKY; SMOOTH; NO VISIBLE POROSITY; DULL EVEN FLUOR; NO SHOWS.

LS: AS ABOVE ALONG WITH MINOR GREEN/BROWN MOT SHALEY LIME;

LS: WHITE, LT BRN; MIC-VF XTAL; SMOOTH; PLATEY; SLI GRAN IN PART; SLI CHALKY; NO VISIBLE POROSITY; DULL FLUOR; NO SHOW.

LS: AS ABOVE.

4050 LS: MOSTLY WHITE - LT BRN, SOME GRAYISH; MIC-VF XTAL; PLATEY; DENSE; SLI CHALKY; SLI GRANULAR IN PART; NO VISIBLE POROSITY; NO SHOWS.

CUTTINGS ARE ABOUT 1/6 COARSE GRAY SHALE SLOUGH;

LS: AS ABOVE BUT SEEMINGLY INCR IN GRAYISH BRN PORTION,

LS: LT-MD GRAYISH BRN; VF-F XTAL; SLI SHELLS; POOR OOMOLDIC POROSITY; NO SHOWS; 4080.

LS: LT-GRAYISH BRN, LT BRN; MIC-VF XTAL; PLATEY, SOME BLOCKY, ANGULAR; SLI CHALKY; NO VISIBLE POROSITY; NO SHOW.

LS: LT GRAYISH BRN AA; MIC-VF XTAL; DENSE - SLI CHALKY; NO VISIBLE POROSITY; NO SHOW;

4100 LS: AS ABOVE; SCAT PIN PT POROSITY; NO SHOWS.

LS: LT-GRAY; MIC-VF XTAL; DENSE; NO VISIBLE POROSITY, NO SHOW.

MUNCIE CREEK 4120 (-1271)

SHALE: BLACK; CARBON; TRC 4121 CIRC; PRESENT 4130, INCR 4140.

LS: MD-DK GRAYISH BROWN; VF-XTAL; SLI FOS; GRAN IN PART; NO APPARENT POROSITY; SCAT SPTD FLUOR; NO SHOWS; 4140.

STOP 4121, CFS, THEN 15 STAND SHORT TRIP WAS UNEVENTFUL, CIRC 1 HR BEFORE DRILLING AHEAD.

MORGAN MUD CHECK: 12/29-1pm: 4136: VIS 48, WT 9.2, WL 7.6, CHL 1900; LCM 1#.

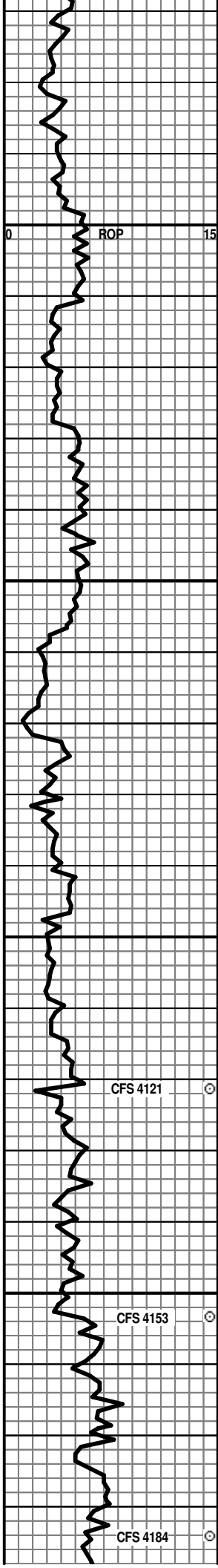
LS: LT-MD GRAYISH BRN; VF-XTAL; MOSTLY DENSE; CHALKY IN PART; SLI FOS; SCAT OOL; SPTD CALCITE FLUOR; NO SHOWS.

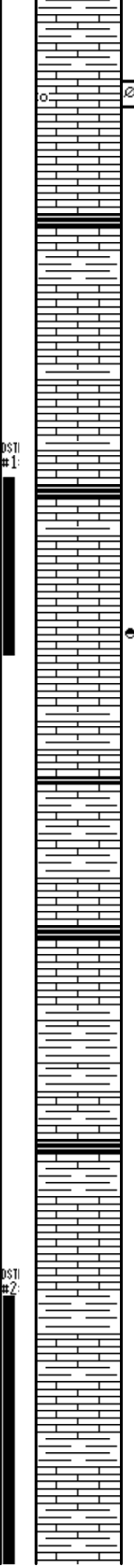
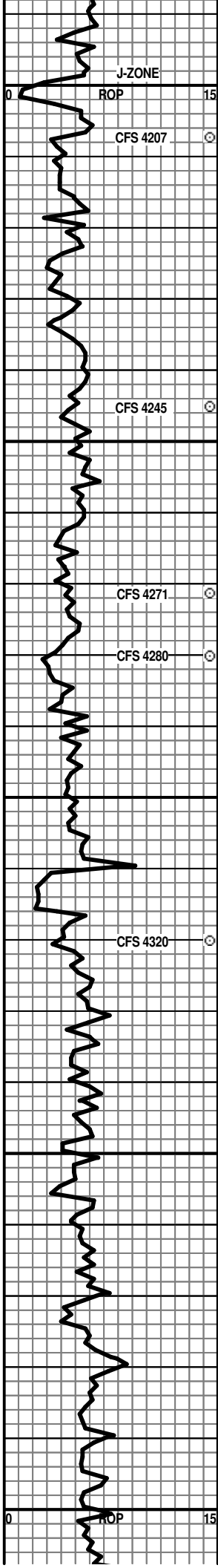
LS: MD-DK GRAYISH BRN; VF-XTAL; DENSE; SLI FOS; TRC TRANS CHERT; SCAT OOL DARKER THAN MATRIX; DULL, EVEN-SPTD FLUOR; NO SHOWS.

4150 LS: LT-MD BRN; VF-XTAL; SLI CHALKY; SPTD FLUOR; NO SHOWS.

LS: M-DK BRN; VF-XTAL; DENSE; NO VISIBLE POR; NO SHOW.

LS: LT-MD BRN; VF-XTAL; MOSTLY DENSE; SOME CHALKY; SLI FOS; TRC PYRITE; NO VISIBLE POROSITY; SPOTTED CALCITE FLUOR; NO SHOW;





4200 LS: LT-BRN; VF-XTAL; DENSE; PLATEY; OOLITIC IN PART; NO APPARENT POROSITY; NO SHOW.

4200 LS: LT-GRAY; VF-XTAL; FRAGILE; GOOD OOM POROSITY; CLEAN; NO FLUOR; NO SHOW; 4207-30 MIN.

4200 LS: LT-GRAYISH BRN; VF-XTAL; POOR APPARENT POROSITY; DULL FLUOR; NO SHOWS.

STARK SH 4218 (-1369)
SHALE: BLACK; CARBON;

SHALE: GRAYS;

4200 LS: LT-BRN; VF-XTAL; DENSE; PLATEY; WITH LT GRAY CHERT; SCAT PIN PT POROSITY; DULL FLUOR; NO SHOW.

4200 LS: AS ABOVE, DENSE, NO VISIBLE POROSITY; NO SHOW;

4250 LS: AS ABOVE.

SHALE: BLACK;

4250 LS: LT-BROWN; VF-XTAL; DENSE; SLI CHALKY; PLATEY; TRC OOLITIC; CHERTY; NO APPARENT POROSITY; TRC DULL FLUOR; NO SHOWS.

4250 LS: LT-BRN; VF-XTAL; DENSE TO SLI CHALKY; BLOCKY-PLATEY; TRC OOL; 1 PIECE DRUSY EDGE WITH EVEN DK-BROWN STAIN, DULL FLUOR; NO FO; NO ODOR; 4280-60 MIN.

4250 LS: LT-GRAY; MIC-VF XTAL; PLATEY; SLI ARGILL; NO VISIBLE POROSITY; NO SHOW.

4250 LS: AS ABOVE;

4300 LS: LT-BRN, LT GRAY; VF-XTAL; POOR APPARENT POROSITY; NO SHOWS.

4300 LS: WHITE; MICRO-XTAL; SOFT CHALK; FRAGILE; NO VISIBLE POROSITY; NO SHOW; 4320-30 MIN.

4300 LS: LT-MD BRN, SOME WHITE-LT GRAY; MIC-VF XTAL; SLI GRANULAR IN PART; CHALKY IN PART; NO APP POR; NO SHOW.

SHALE: GREEN, GRAY; AND SOFT CHALK;

4350 LS: LT-BRN, LT GRAY; MIC-VF XTAL; CHALKY, ARGILL; NO APPARENT POROSITY; NO SHOW.

SHALE: DK GRAY, BLACK; 4360.

SHALE: GRAY, GREEN; COARSE PYRITES;

4350 LS: LT-BRN, LT GRAY; MIC-VF XTAL; CHALKY IN PART; NO APPARENT POROSITY; NO SHOWS.

SHALE: GREEN, GRAY;

4350 LS: LT-BROWN; MIC-VF XTAL; CHALKY; NO VISIBLE POROSITY; NO SHOWS. 4390.

4350 LS: AS ABOVE, TRC OOLITE;

4400 LS: LT-BROWN; MIC-VF XTAL; MOSTLY DENSE; SLI CHALKY IN PART; SMOOTH; PLATEY; NO VISIBLE POR; NO SHOWS;

4400 LS: AS ABOVE.

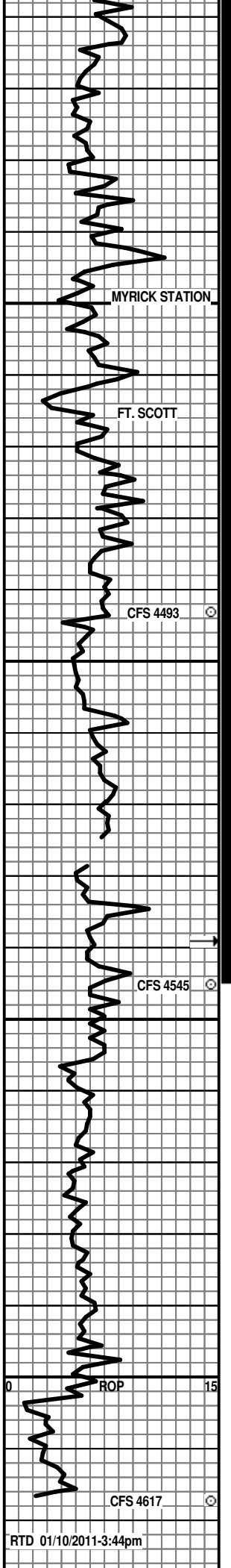
MORGAN MUD CHECK: 12/30-2pm: 4280: VIS 56, WT 9.4, WL 7.2, CHL 2900, LCM 1#.

BOARD: 4308.54, STRAP: 4317.58, STRAP WAS LONG 9.04', DEV 3/4 DEG.

CIRC 90 MIN BEFORE TOH. HIT MINOR BRIDGES ON TRIP IN WITH DST, ESPECIALLY IN UPHOLE SECTION. DID NOT SLIDE THOUGH.

DST #1: 4255-4280: WK BLOW; NO BLOW 2ND OPEN; 15-30-30-60; 5' MUD; SIP: 895-881; FP: 37-40, 40-44.

CIRC 1 HR BEFORE DRILLING AHEAD.



SHALE: BLACK; 4430.

PAWNEE 4409 (-1560)
(corrected top)

LS: LT-BRN, WHITE-LT GRAY; MIC-VF XTAL; TRC LT GRAY
CHERT; MOSTLY DENSE; SLI CHALKY; NO APP POROSITY; NO
SHOWS.

LS: MD-BRN, DARKER THAN ABOVE; VF-XTAL; DENSE; PLATEY;
HARD; NO VISIBLE POROSITY; NO SHOWS.

SHALE: BLACK;

4450

LS: GRAYISH BRN - DK BRN; VF-XTAL; DENSE BUT SOME
CHALKY PARTS; SLI FOS; TRC FINE PYRITES; NO VISIBLE
POROSITY; NO SHOWS.

SHALE: BLACK; 50% OF 4580 SAMPLE.

LS: MD BRN; VF-XTAL; GRAIN SUPTD OOLITE; GLASSY; PLATEY;
BRITTLE; DENSE; DISTINCTIVE; V-POOR INT OOL POROSITY; NO
SHOWS. 4580, 4590

LS & SHALE: GRAYS, BLACK; WHITE CHALK; CHALKY, ARGILL
LIME; SCATTERED PYRITES;

LS: LT BRN TO LT-GRAY; VF-XTAL; GRAIN SUPTD OOLITE IN
PART; CHERTY; DENSE; HARD; NO VISIBLE POROSITY; NO
SHOWS. 4493-30 MIN. INCR 60 MIN.

LOWER CHER SH 4494 (-1645)

LS: LT-GRAY; MIC-VF XTAL; CHALKY; PLATEY; SLI OOL; NO
APPARENT POROSITY; NO SHOWS.

LS: LT BRN, OOLITIC, OFF-WHITE, LT GRAY, CHALKY; DENSE; NO
APPARENT POROSITY; NO SHOW.

LS: LT-GRAY, CHALKY; SLI OOLITIC; & SHALE: GRAYS, GREENS,
COARSE PYRITES; TRC SHELLS. TRC SILTST.

LS: LT-BRN, LT-GRAY; VF XTAL; DENSE TO SLI CHALKY; NO
APPARENT POROSITY; NO SHOWS.

LS: LT GRAY; VF-XTAL; APPEARS SLI SANDY; TRC VERY TIGHT
PIN PT VUG POROSITY; TINY SPECKS BLACK OIL; VERY SLIGHT;
ONLY DULL FLUOR; NO ODOR; 4545-60 MIN.

4550

SHALE: OLIVE GREEN, BLuish GREEN; SILTY-SANDY; WAXY;
PYRITIC;

MISSISSIPPI 4560 (-1711)

LS: LT-MD GRAYISH BROWN; VF-XTAL; VERY CHALKY; MUCH
SEMI-TRANS CHERT; SLI OOLITIC; NO APPARENT POR; NO
SHOWS. 4570 WASHES WHITE.

LS: LT-MD GRAYISH BRN; VF-XTAL; VERY CHALKY; SLI
GRANULAR IN PART; LESS CHERT; NO APPARENT POR; NO
SHOWS.

LS: GRAYISH BRN; VF-XTAL; GRANULAR; SLI OOLITIC; CHALKY;
NO APPARENT POROSITY; NO SHOWS.

4600

LS: GRAYISH BRN; VF-XTAL; GRANULAR; OOLITIC; CHALKY;
NO APPARENT POROSITY; NO SHOWS.

SPERGEN 4603 (-1754)

DOL, DOL-LS: GRAYISH BRN, MOTTLED DK BRN IN PART; MOSTLY
TIGHT INT XTAL POR, WITH SCAT VUG & FOS-CAST POR, THE
LATTER HAVING TRACES DK-BRN SPTD STAIN & SLI SHOW OIL, 2
PC, NO ODOR; NO FLUOR; 4617-60 MIN.

ROTARY TOTAL DEPTH 4617 (-1768)

MORGAN MUD CHECK WHILE DRILLING: 12/31-5pm:
4456: VIS 49, WT 9.3, WL 7.6, CHL 2700, LCM 1/2#.

CIRC 2 HRS & ADD MUD PRIOR TO TOH.

DST #2: 4370-4545: 6" BLOW; 120' MUD; SIP: 908-1439,
FP: 168-172, 173-176.

CIRC 1 HR BEFORE DRILLING.

GEOLOGRAPH CABLE FROZE TO DERRICK AT 4526
CAUSING BAD SIGNALS AND LOSS OF SOME ROP.

DIESEL MOTORS FREEZING UP AT 4539, COULD NOT
CONTINUE, DOWN ABOUT 10 HOURS.

MORGAN MUD-CHECK WHILE TRIPPING: 01/01-5pm:
4545: VIS 58, WT 9.5, WL 7.2, CHL 2600, LCM 1/2#.

MORGAN MUD CHECK: 02/02-5pm: 4617: VIS 54, WT
9.5, WL 7.6, CHL 2600, LCM 1/2#.

LOG-TECH LTD 4626.

				
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DRILL STEM TEST REPORT

Prepared For: **LARSON ENGINEERING INC dba LARSON OPERATING COMPANY**

562 W STATE RD4 OLMITZ KS
67564+8561

ATTN: VERN SCHRAG

24-18-30 LANE

MARIT #2-24

Start Date: 2010.12.30 @ 13:04:00

End Date: 2010.12.30 @ 19:12:30

Job Ticket #: 16079 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.12.30 @ 19:27:29



DRILL STEM TEST REPORT

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY
562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24

24-18-30 LANE

Job Ticket: 16079

DST#: 1

ATTN: VERN SCHRAG

Test Start: 2010.12.30 @ 13:04:00

GENERAL INFORMATION:

Formation: **LKC (L ZONE)**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:06:30
 Time Test Ended: 19:12:30
 Interval: **4255.00 ft (KB) To 4280.00 ft (KB) (TVD)**
 Total Depth: 4280.00 ft (KB) (TVD)
 Hole Diameter: 6.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320- SCOTT CITY -35
 Reference Elevations: 2849.00 ft (KB)
 2842.00 ft (CF)
 KB to GR/CF: 7.00 ft

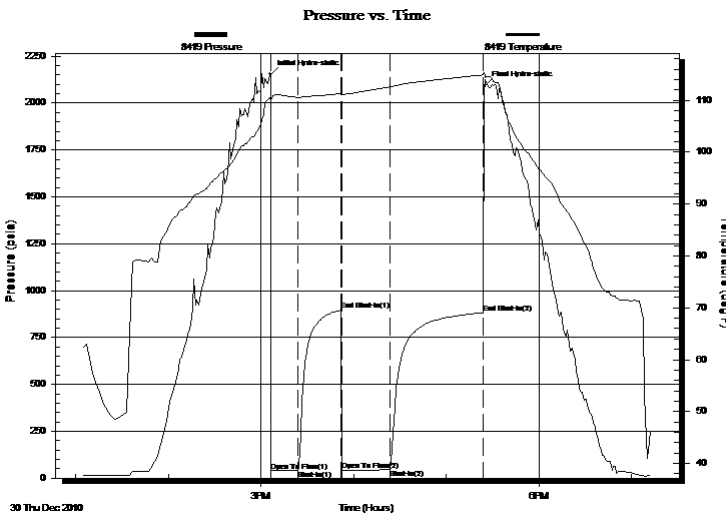
Serial #: 8419

Inside

Press@RunDepth: 44.45 psia @ 4276.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.12.30 End Date: 2010.12.30 Last Calib.: 2010.12.30
 Start Time: 13:04:00 End Time: 19:12:30 Time On Btm: 2010.12.30 @ 15:06:00
 Time Off Btm: 2010.12.30 @ 17:25:00

TEST COMMENT: 15/INITIAL OPEN:VERY WEAK BLOW BUILT 1 3/4 INTO WATER IN 15 MINUTES
 30/INITIAL SHUT IN:NO BLOW BACK
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD
 60/FINAL SHUT IN:NO BLOW BACK

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2152.70	110.82	Initial Hydro-static
1	37.93	110.01	Open To Flow (1)
18	40.18	110.58	Shut-In(1)
46	895.19	111.31	End Shut-In(1)
47	40.80	111.14	Open To Flow (2)
78	44.45	112.56	Shut-In(2)
138	881.53	114.90	End Shut-In(2)
139	2093.35	114.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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



DRILL STEM TEST REPORT

LARSON ENGINEERING INC dba LARSON
 OPERATING COMPANY
 562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24

24-18-30 LANE

Job Ticket: 16079

DST#: 1

ATTN: VERN SCHRAG

Test Start: 2010.12.30 @ 13:04:00

GENERAL INFORMATION:

Formation: **LKC (L ZONE)**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:06:30 Tester: JARED SCHECK
 Time Test Ended: 19:12:30 Unit No: 3320- SCOTT CITY -35
 Interval: **4255.00 ft (KB) To 4280.00 ft (KB) (TVD)** Reference Elevations: 2849.00 ft (KB)
 Total Depth: 4280.00 ft (KB) (TVD) 2842.00 ft (CF)
 Hole Diameter: 6.88 inches Hole Condition: Poor KB to GR/CF: 7.00 ft

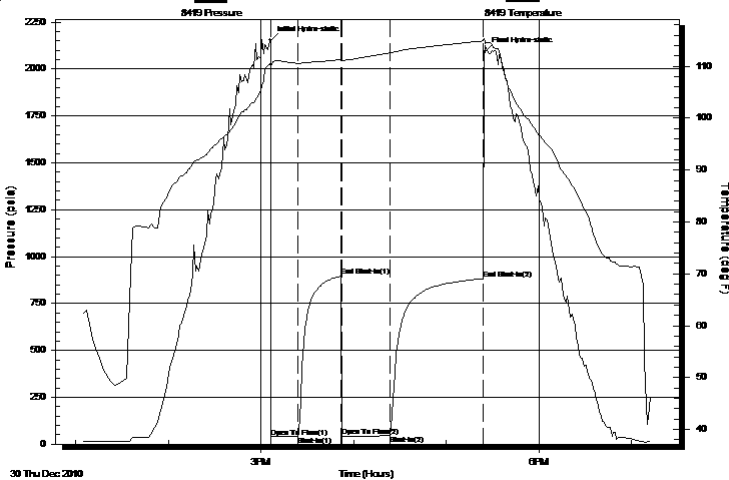
Serial #: 8524

Outside

Press@RunDepth: 881.93 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.12.30 End Date: 2010.12.30 Last Calib.: 2010.12.30
 Start Time: 13:04:00 End Time: 19:13:00 Time On Btm: 2010.12.30 @ 15:06:00
 Time Off Btm: 2010.12.30 @ 17:25:00

TEST COMMENT: 15/INITIAL OPEN:VERY WEAK BLOW BUILT 1 3/4 INTO WATER IN 15 MINUTES
 30/INITIAL SHUT IN:NO BLOW BACK
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD
 60/FINAL SHUT IN:NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2152.02	112.50	Initial Hydro-static
1	38.91	112.20	Open To Flow (1)
17	40.49	112.47	Shut-In(1)
46	896.35	113.18	End Shut-In(1)
47	40.85	112.98	Open To Flow (2)
77	44.48	113.68	Shut-In(2)
138	881.93	115.34	End Shut-In(2)
139	2134.82	115.48	Final Hydro-static

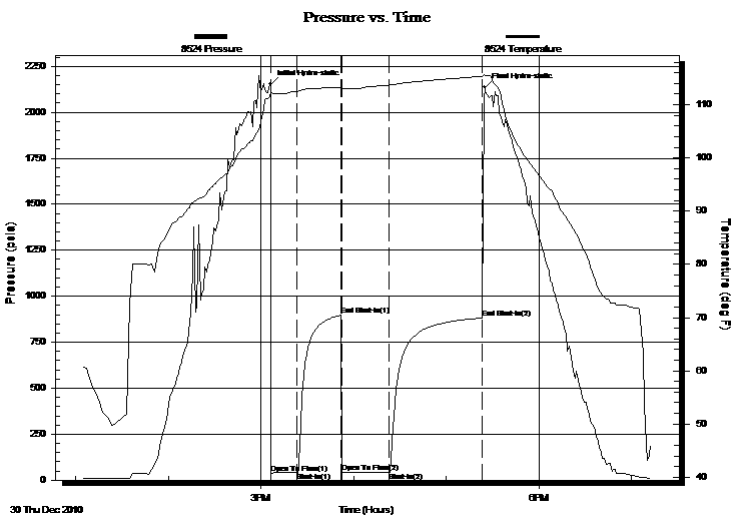
Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

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

	Recovery Table	
Length	Recovery Table	Volume
Length	Description	Volume



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DRILL STEM TEST REPORT

TOOL DIAGRAM

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY
562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24
24-18-30 LANE

Job Ticket: 16079

DST#: 1

ATTN: VERN SCHRAG

Test Start: 2010.12.30 @ 13:04:00

Tool Information

Drill Pipe:	Length: 4104.00 ft	Diameter: 3.80 inches	Volume: 57.57 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose:	67000.00 lb
			<u>Total Volume: 58.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4255.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: HIT SMALL BRIDGES THROUGHOUT HOLE

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4227.00	
Shut-In Tool	5.00			4232.00	
Hydraulic Tool	5.00			4237.00	
Jars	6.00			4243.00	
Safety Joint	2.00			4245.00	
Packer	5.00			4250.00	29.00 Bottom Of Top Packer
Packer	5.00			4255.00	
Perforations	20.00			4275.00	
Recorder	1.00	8419	Inside	4276.00	
Recorder	1.00	8524	Outside	4277.00	
Bullnose	3.00			4280.00	25.00 Bottom Packers & Anchor

Total Tool Length: 54.00



DRILL STEM TEST REPORT

FLUID SUMMARY

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY
562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24

24-18-30 LANE

Job Ticket: 16079

DST#: 1

ATTN: VERN SCHRAG

Test Start: 2010.12.30 @ 13:04:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 2900.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD	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:

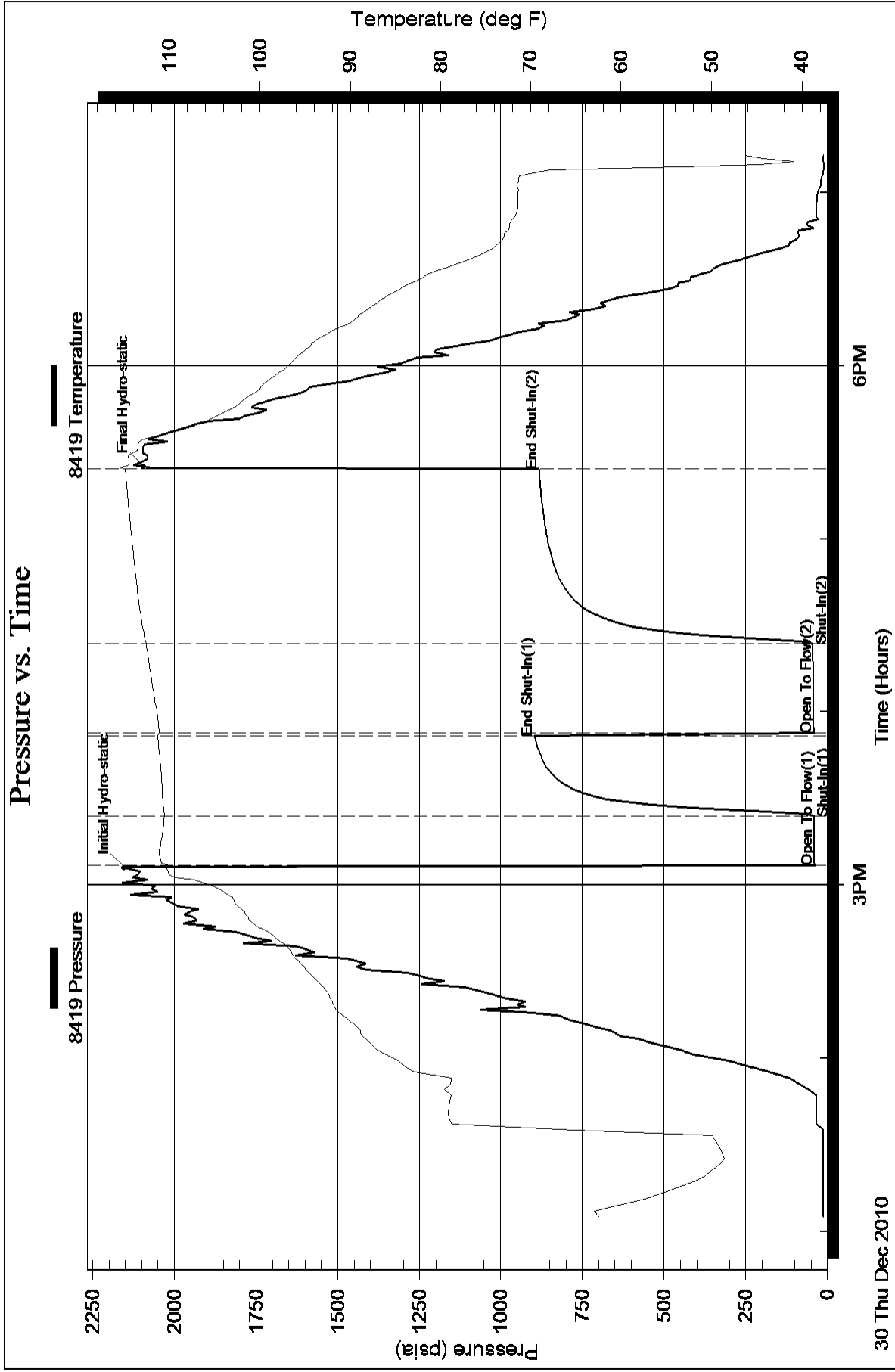
Serial #: 8419

Inside

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY

24-18-30 LANE

DST Test Number: 1



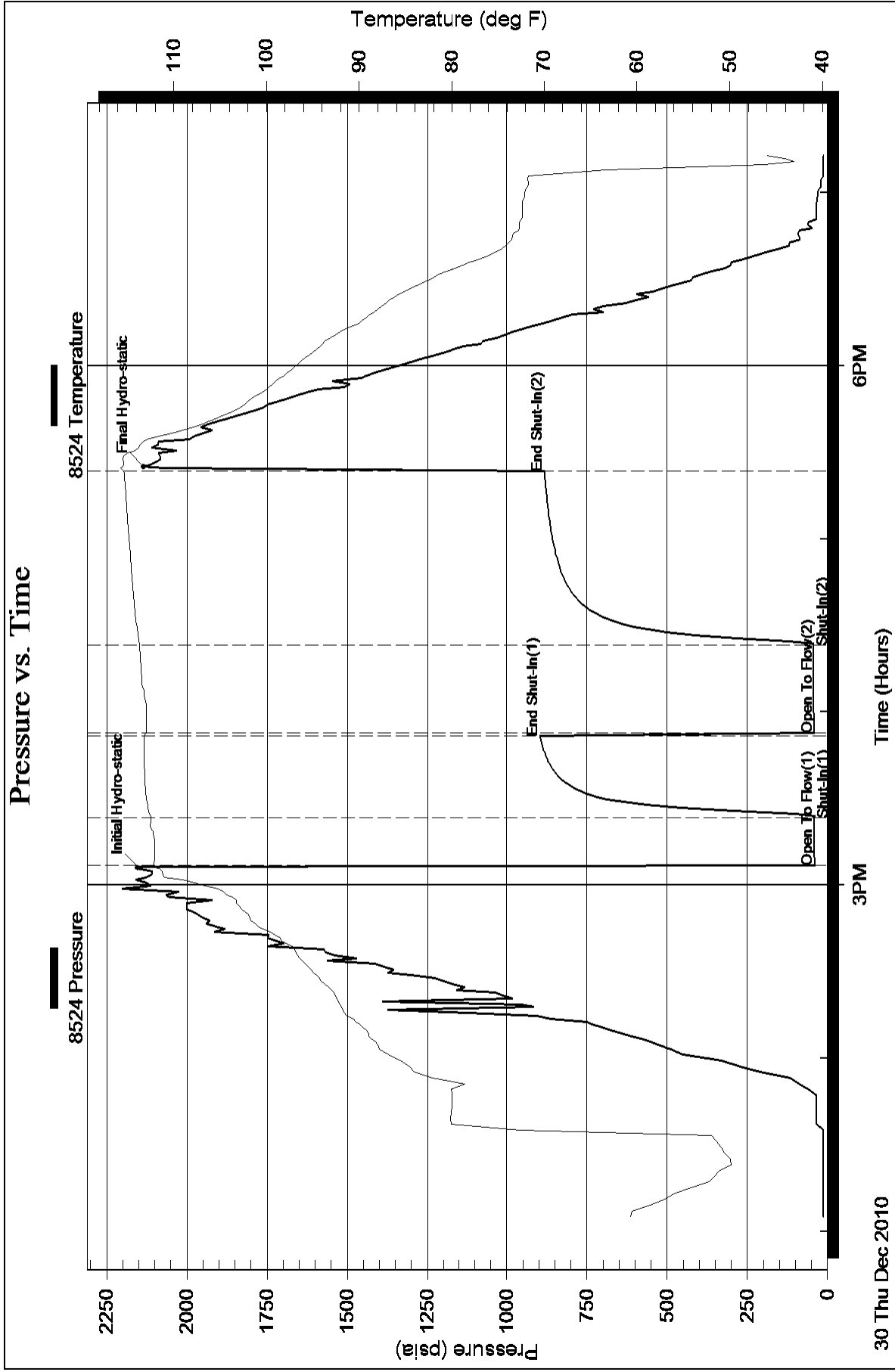
Serial #: 8524

Outside

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY

24-18-30 LANE

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **LARSON ENGINEERING INC dba LARSON OPERATING COMPANY**

562 W STATE RD4 OLMITZ KS
67564+8561

ATTN: VERN SCHRAG

24-18-30 LANE

MARIT #2-24

Start Date: 2011.01.01 @ 16:46:00

End Date: 2011.01.02 @ 01:46:30

Job Ticket #: 16080 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.01.02 @ 02:43:31

LARSON ENGINEERING INC dba LARSON OPERATING COMPANY
MARIT #2-24
24-18-30 LANE
DST # 2
MARMATON / CHEROKEE
2011.01.01



DRILL STEM TEST REPORT

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY
562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24

24-18-30 LANE

Job Ticket: 16080

DST#: 2

ATTN: VERN SCHRAG

Test Start: 2011.01.01 @ 16:46:00

GENERAL INFORMATION:

Formation: **MARMATON / CHEROKEE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:42:30

Time Test Ended: 01:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTTCITY-35

Interval: 4370.00 ft (KB) To 4545.00 ft (KB) (TVD)

Reference Elevations: 2849.00 ft (KB)

Total Depth: 4545.00 ft (KB) (TVD)

2842.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8419

Inside

Press@RunDepth: 176.62 psia @ 4541.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.01.01

End Date:

2011.01.02

Last Calib.:

2011.01.02

Start Time: 16:46:00

End Time:

01:46:30

Time On Btm:

2011.01.01 @ 19:41:30

Time Off Btm:

2011.01.01 @ 21:58:00

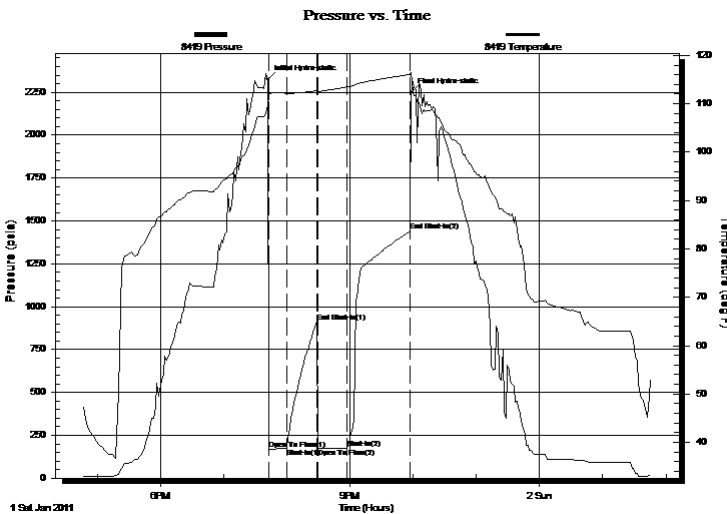
TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 6 INCHES INTO WATER IN 15 MINUTES

30/INITIAL SHUT IN:NO BLOW BACK

30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD STAYED STEADY THROUGH OUT OPEN

60/FINAL SHUT IN:NO BLOW BACK

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2324.32	109.71	Initial Hydro-static
1	168.65	111.70	Open To Flow (1)
18	172.00	112.17	Shut-In(1)
47	908.34	112.73	End Shut-In(1)
48	173.03	112.41	Open To Flow (2)
76	176.62	113.50	Shut-In(2)
136	1439.92	116.12	End Shut-In(2)
137	2244.94	116.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUD	0.59

Gas Rates

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



DRILL STEM TEST REPORT

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY
562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24

24-18-30 LANE

Job Ticket: 16080

DST#: 2

ATTN: VERN SCHRAG

Test Start: 2011.01.01 @ 16:46:00

GENERAL INFORMATION:

Formation: **MARMATON / CHEROKEE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:42:30

Time Test Ended: 01:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTTCITY-35

Interval: 4370.00 ft (KB) To 4545.00 ft (KB) (TVD)

Reference Elevations: 2849.00 ft (KB)

Total Depth: 4545.00 ft (KB) (TVD)

2842.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8524

Outside

Press@RunDepth: 1443.08 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.01.01

End Date:

2011.01.02

Last Calib.:

2011.01.02

Start Time: 16:46:00

End Time:

01:46:30

Time On Btm:

2011.01.01 @ 19:40:30

Time Off Btm:

2011.01.01 @ 21:58:00

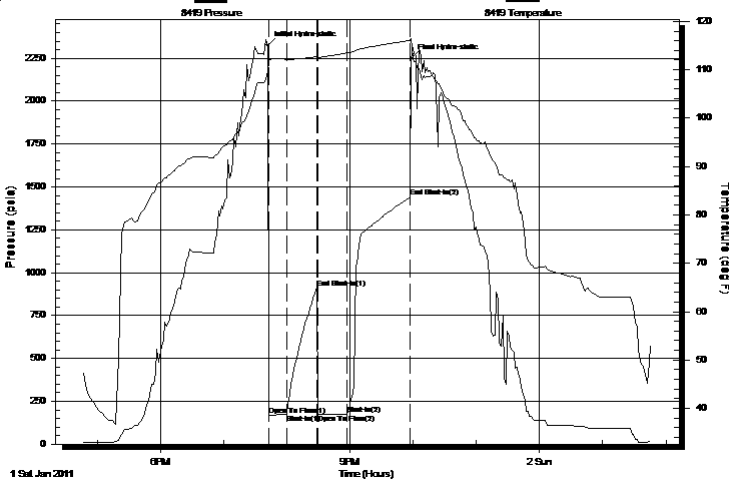
TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 6 INCHES INTO WATER IN 15 MINUTES

30/INITIAL SHUT IN:NO BLOW BACK

30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD STAYED STEADY THROUGH OUT OPEN

60/FINAL SHUT IN:NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2329.85	110.94	Initial Hydro-static
1	168.73	112.50	Open To Flow (1)
18	173.07	112.53	Shut-In(1)
48	920.08	112.98	End Shut-In(1)
49	175.30	112.79	Open To Flow (2)
76	177.36	113.20	Shut-In(2)
137	1443.08	115.37	End Shut-In(2)
138	2216.65	115.81	Final Hydro-static

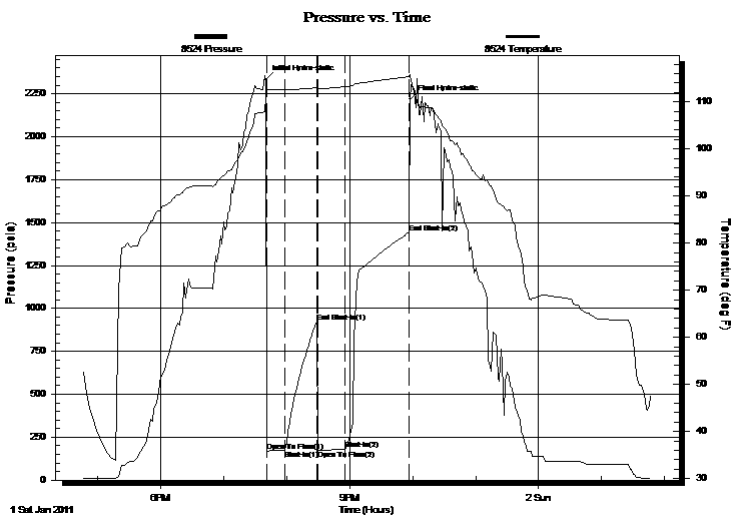
Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUD	0.59

Gas Rates

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

	Recovery Table	
Length	Recovery Table	Volume
Length	Description	Volume





DRILL STEM TEST REPORT

TOOL DIAGRAM

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY
562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24
24-18-30 LANE

Job Ticket: 16080

DST#: 2

ATTN: VERN SCHRAG

Test Start: 2011.01.01 @ 16:46:00

Tool Information

Drill Pipe:	Length: 4198.00 ft	Diameter: 3.80 inches	Volume: 58.89 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 59.63 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4370.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	175.00 ft				
Tool Length:	204.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: RUINED BOTTOM PACKER

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4342.00	
Shut-In Tool	5.00			4347.00	
Hydraulic Tool	5.00			4352.00	
Jars	6.00			4358.00	
Safety Joint	2.00			4360.00	
Packer	5.00			4365.00	29.00 Bottom Of Top Packer
Packer	5.00			4370.00	
Change Over Sub	0.75			4370.75	
Drill Pipe	152.50			4523.25	
Change Over Sub	0.75			4524.00	
Perforations	16.00			4540.00	
Recorder	1.00	8419	Inside	4541.00	
Recorder	1.00	8524	Outside	4542.00	
Bullnose	3.00			4545.00	175.00 Bottom Packers & Anchor

Total Tool Length: 204.00



DRILL STEM TEST REPORT

FLUID SUMMARY

LARSON ENGINEERING INC dba LARSON
 OPERATING COMPANY
 562 W STATE RD4 OLMITZ KS 67564+8561

MARIT #2-24

24-18-30 LANE

Job Ticket: 16080

DST#: 2

ATTN: VERN SCHRAG

Test Start: 2011.01.01 @ 16:46:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2100.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MUD	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RUINED BOTTOM PACKER

Serial #: 8419

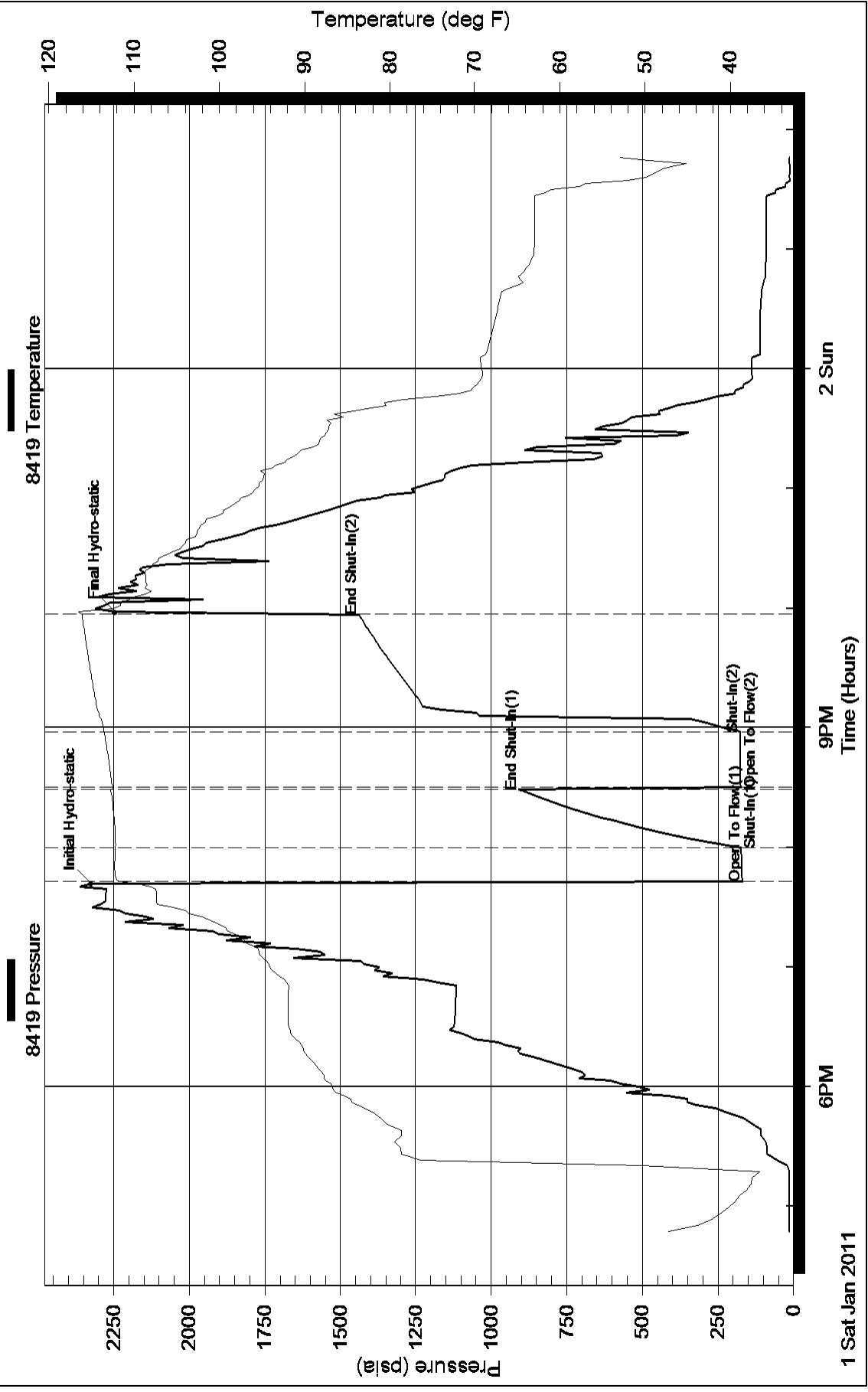
Inside

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY

24-18-30 LANE

DST Test Number: 2

Pressure vs. Time



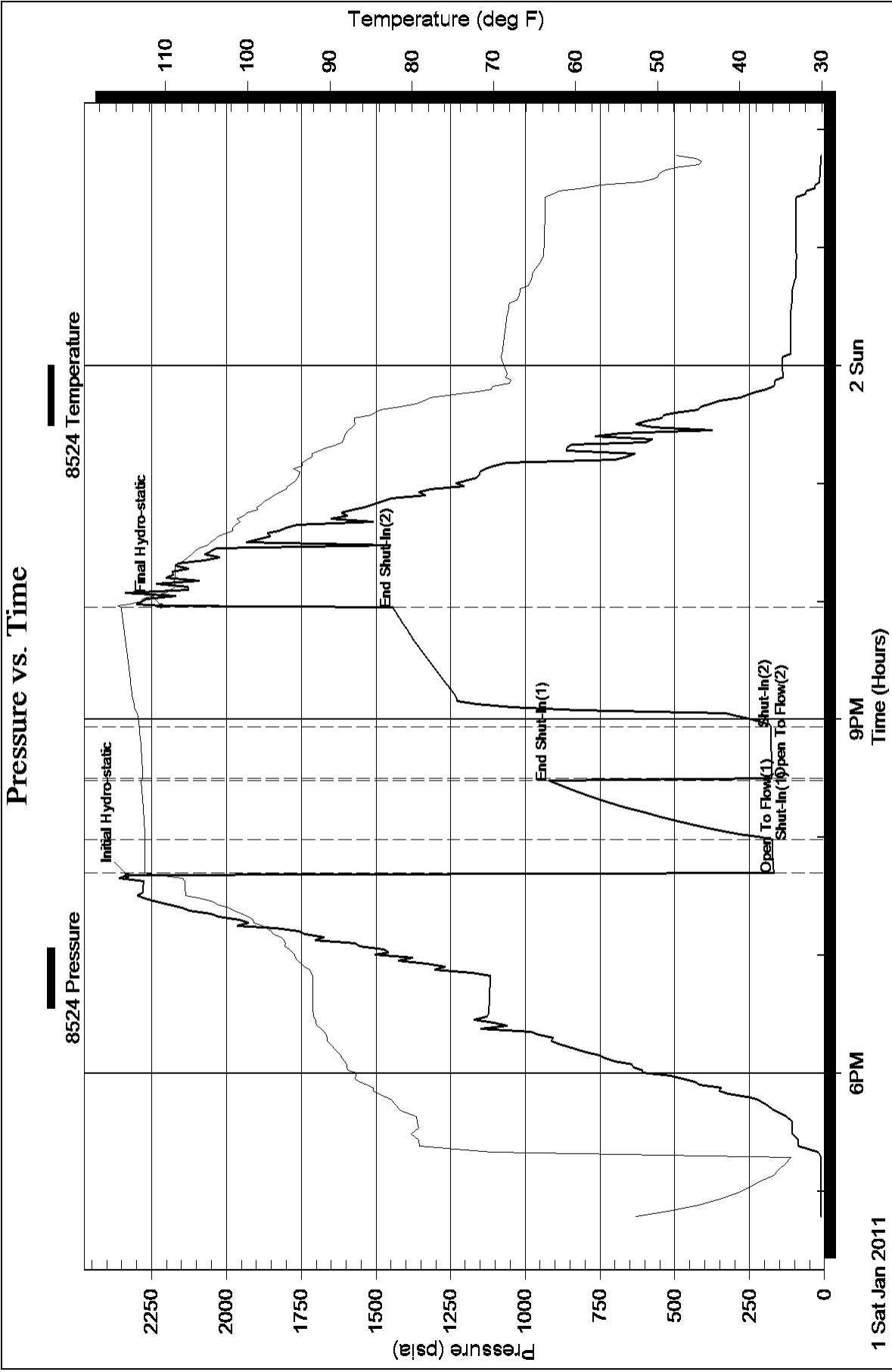
Serial #: 8524

Outside

LARSON ENGINEERING INC dba LARSON
OPERATING COMPANY

24-18-30 LANE

DST Test Number: 2



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

March 25, 2011

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

Re: ACO1
API 15-101-22268-00-01
Marit 2-24 SWD
NW/4 Sec.24-18S-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