



KANSAS CORPORATION COMMISSION 1119207
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

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

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)* _____

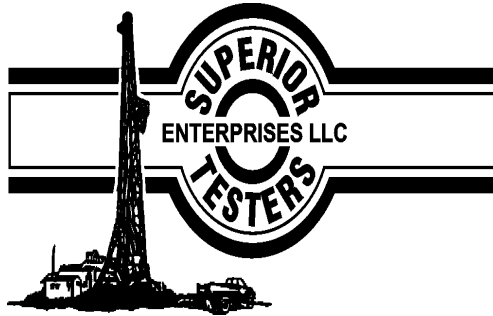
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Pickrell Drilling Company, Inc.
Well Name	Dinges AC Unit 4
Doc ID	1119207

Tops

Name	Top	Datum
T/Anhydrite	1916	+673
B/Anhydrite	1943	+646
Heebner	3885	-1296
Lansing	3926	-1337
Stark	4174	-1595
Pawnee	4368	-1779
Fort Scott	4433	-1844
Cherokee Shale	4460	-1871
Mississippi Porosity	4542	-1953



DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company**

100 s Main St 505 Wichita KS 67202+3738

ATTN: Jerry Smith

Dingnes AC Unit #4

2-18-26 Ness

Start Date: 2013.02.04 @ 16:24:00

End Date: 2013.02.04 @ 22:20:30

Job Ticket #: 16963 DST #: 1

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

Printed: 2013.02.04 @ 22:32:19



DRILL STEM TEST REPORT

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16963 **DST#: 1**
 Test Start: 2013.02.04 @ 16:24:00

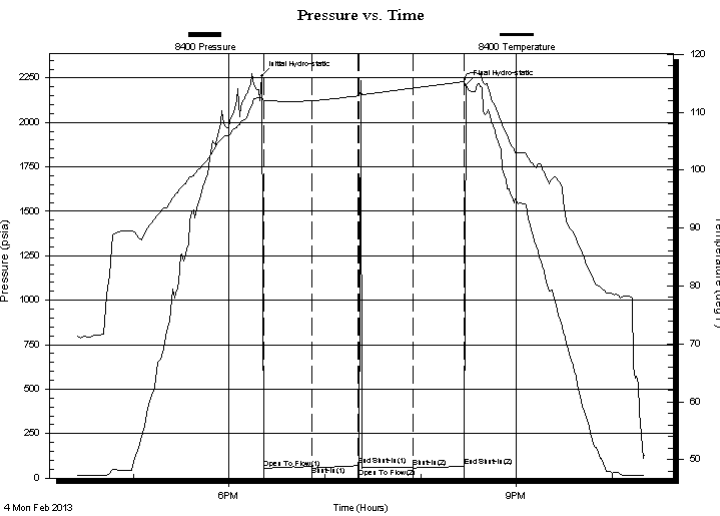
GENERAL INFORMATION:

Formation: **Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:21:30 Tester: Jared Scheck
 Time Test Ended: 22:20:30 Unit No: 3335-Great Bend-
 Interval: **4395.00 ft (KB) To 4452.00 ft (KB) (TVD)** Reference Elevations: 2589.00 ft (KB)
 Total Depth: 4452.00 ft (KB) (TVD) 2580.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8400

Press @ RunDepth: 58.37 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.04 End Date: 2013.02.04 Last Calib.: 2013.02.04
 Start Time: 16:24:00 End Time: 22:20:30 Time On Btm: 2013.02.04 @ 18:20:30
 Time Off Btm: 2013.02.04 @ 20:28:30

TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow flushed tool Weak surface blow stayed steady
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2263.00	112.54	Initial Hydro-static
1	56.81	111.96	Open To Flow (1)
31	67.28	112.00	Shut-In(1)
60	70.27	112.82	End Shut-In(1)
61	56.78	112.83	Open To Flow (2)
95	58.37	114.15	Shut-In(2)
127	65.66	115.30	End Shut-In(2)
128	2212.19	116.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	mud	0.06

Gas Rates

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



DRILL STEM TEST REPORT

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16963 **DST#: 1**
 Test Start: 2013.02.04 @ 16:24:00

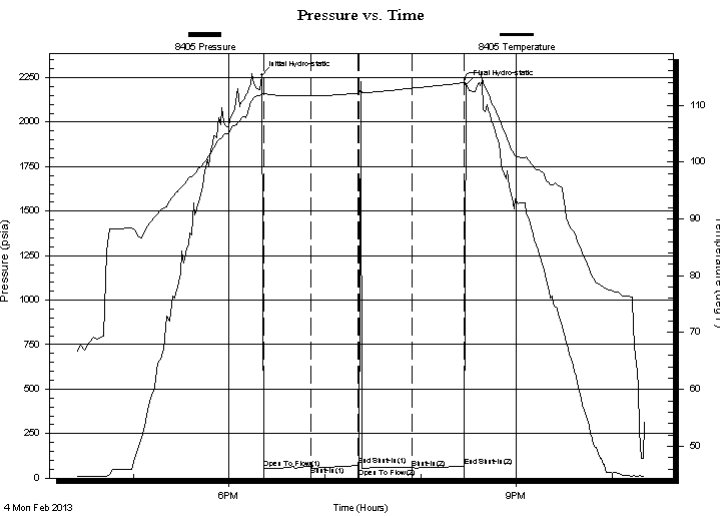
GENERAL INFORMATION:

Formation: **Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:21:30 Tester: Jared Scheck
 Time Test Ended: 22:20:30 Unit No: 3335-Great Bend-
 Interval: **4395.00 ft (KB) To 4452.00 ft (KB) (TVD)** Reference Elevations: 2589.00 ft (KB)
 Total Depth: 4452.00 ft (KB) (TVD) 2580.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8405

Press @ RunDepth: 65.61 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.04 End Date: 2013.02.04 Last Calib.: 2013.02.04
 Start Time: 16:24:00 End Time: 22:20:30 Time On Btm: 2013.02.04 @ 18:20:30
 Time Off Btm: 2013.02.04 @ 20:28:30

TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow flushed tool Weak surface blow stayed steady
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2263.84	111.98	Initial Hydro-static
1	56.16	112.05	Open To Flow (1)
31	68.76	111.62	Shut-In(1)
60	70.39	112.06	End Shut-In(1)
61	56.46	112.07	Open To Flow (2)
94	57.98	112.96	Shut-In(2)
127	65.61	113.94	End Shut-In(2)
128	2213.01	115.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	mud	0.06

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16963 **DST#: 1**
 Test Start: 2013.02.04 @ 16:24:00

Tool Information

Drill Pipe:	Length: 4398.00 ft	Diameter: 3.80 inches	Volume: 61.69 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 61.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4395.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4372.00	
Hydraulic Tool	5.00			4377.00	
Jars	6.00			4383.00	
Safety Joint	2.00			4385.00	
Packer	5.00			4390.00	28.00 Bottom Of Top Packer
Packer	5.00			4395.00	
Anchor	3.00			4398.00	
Change Over Sub	0.75			4398.75	
Drill Pipe	31.50		Outside	4430.25	
Change Over Sub	0.75		Outside	4431.00	
Anchor	16.00			4447.00	
Recorder	1.00		Inside	4448.00	
Recorder	1.00		Outside	4449.00	
Bullnose	3.00			4452.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company
100 s Main St 505 Wichita KS 67202+3738
ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
Job Ticket: 16963 **DST#: 1**
Test Start: 2013.02.04 @ 16:24:00

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:	46.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.79 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	mud	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

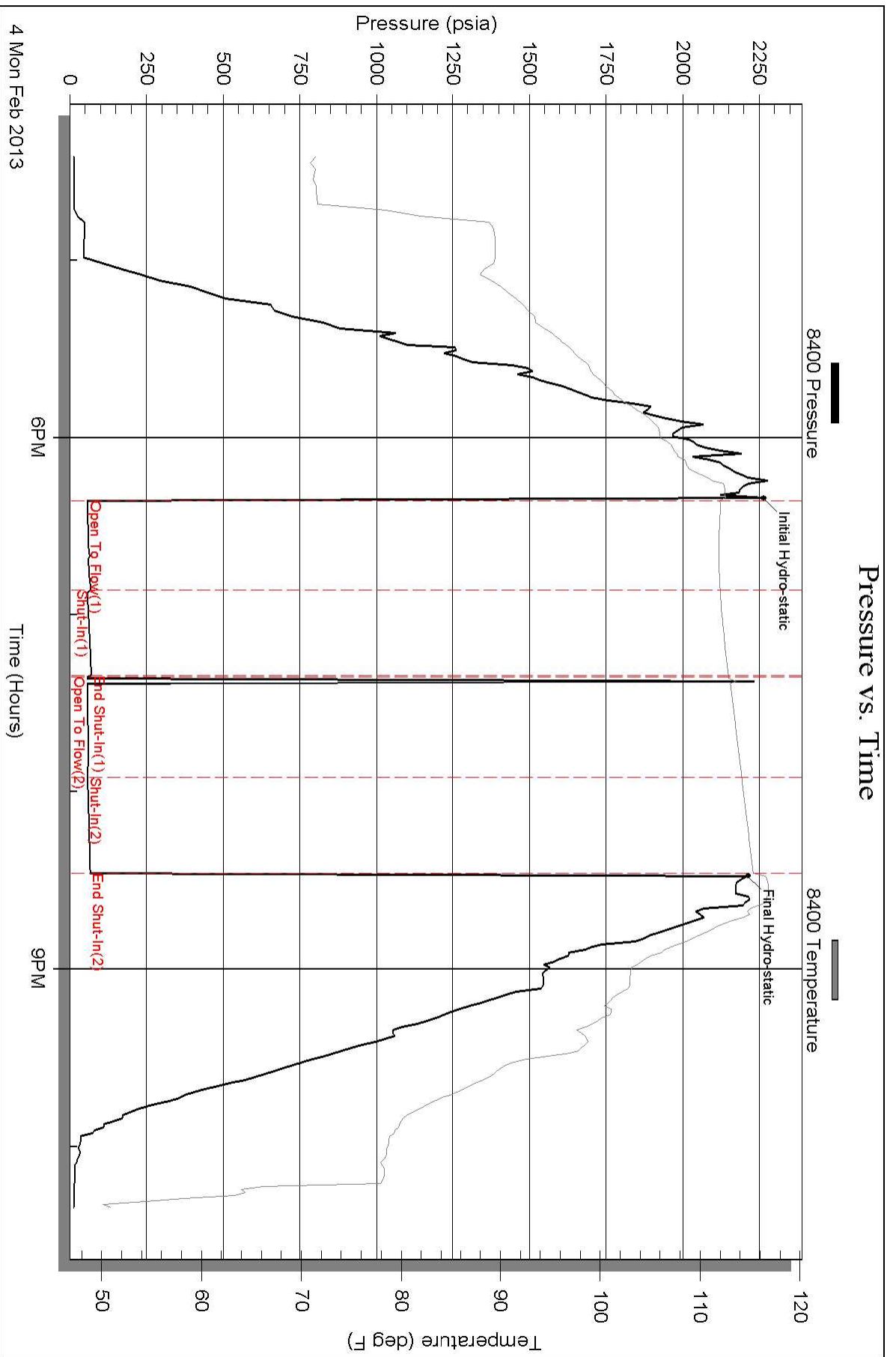
Serial #:

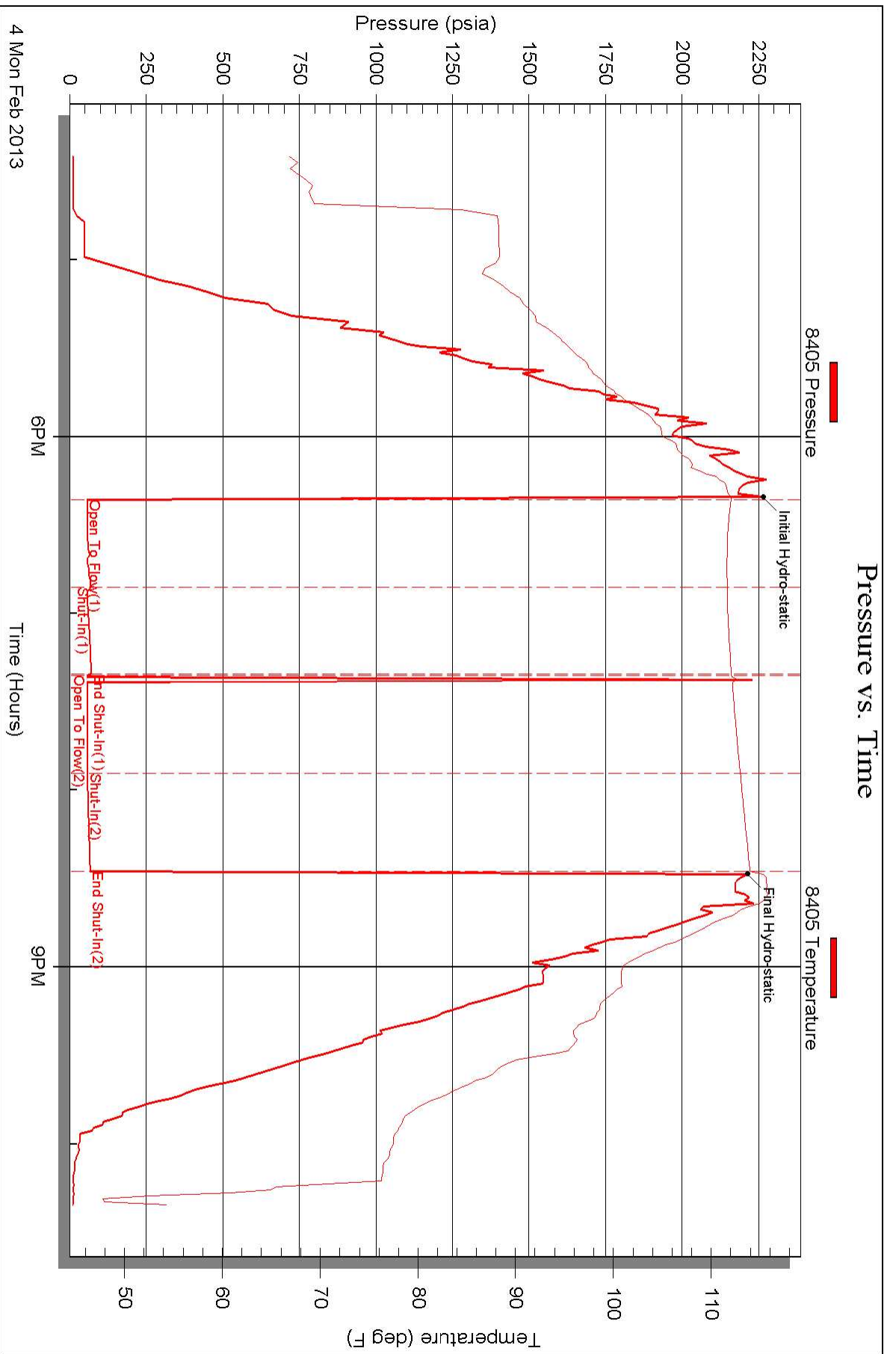
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company**

100 s Main St 505 Wichita KS 67202+3738

ATTN: Jerry Smith

Dingnes AC Unit #4

2-18-26 Ness

Start Date: 2013.02.05 @ 14:33:00

End Date: 2013.02.05 @ 23:06:30

Job Ticket #: 16964 DST #: 2

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

Printed: 2013.02.05 @ 23:39:22

Pickrell Drilling Company 2-18-26 Ness Dingnes AC Unit #4 DST # 2 Mississippian 2013.02.05



DRILL STEM TEST REPORT

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16964 **DST#: 2**
 Test Start: 2013.02.05 @ 14:33:00

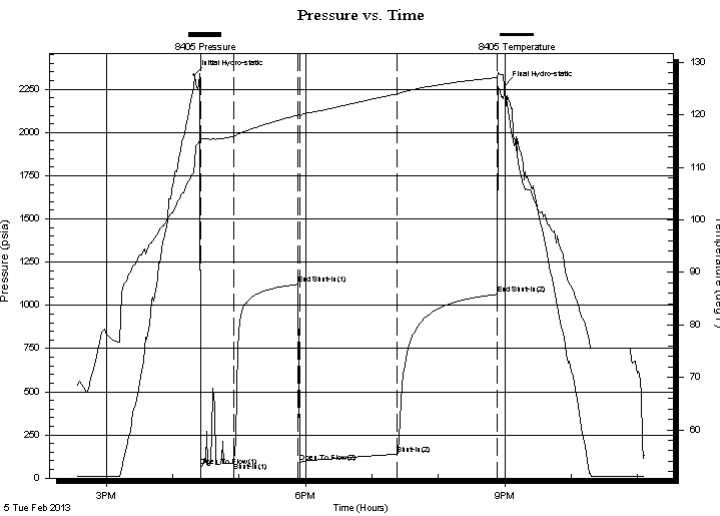
GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:25:30
 Time Test Ended: 23:06:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330 Great Bend/
 Interval: **4473.00 ft (KB) To 4545.00 ft (KB) (TVD)**
 Reference Elevations: 2589.00 ft (KB)
 Total Depth: 4545.00 ft (KB) (TVD) 2580.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8405

Press @ Run Depth: 139.21 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.05 End Date: 2013.02.05 Last Calib.: 2013.02.05
 Start Time: 14:33:00 End Time: 23:06:30 Time On Btm: 2013.02.05 @ 16:19:30
 Time Off Btm: 2013.02.05 @ 21:00:30

TEST COMMENT: 1st Open/ 30 Minutes Weak blow built to 6.5 inches in 5 gallon bucket of water.
 1st Shut In/ 60 Minutes No BLOW Back.
 2nd Open/ 90 Minutes Weak Blow built to 6.5 inches in 5 gallon bucket of water.
 2nd Shut In/ 90 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2334.89	110.86	Initial Hydro-static
6	66.97	115.28	Open To Flow (1)
36	89.25	115.93	Shut-In(1)
95	1121.93	119.97	End Shut-In(1)
95	93.72	119.84	Open To Flow (2)
184	139.21	123.99	Shut-In(2)
274	1063.74	127.11	End Shut-In(2)
281	2274.30	123.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Rig mud with show of oil	1.68
0.00	95% mud 5% oil	0.00
50.00	Rig mud and oil	0.70
0.00	55% mud 45% oil	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16964 **DST#: 2**
 Test Start: 2013.02.05 @ 14:33:00

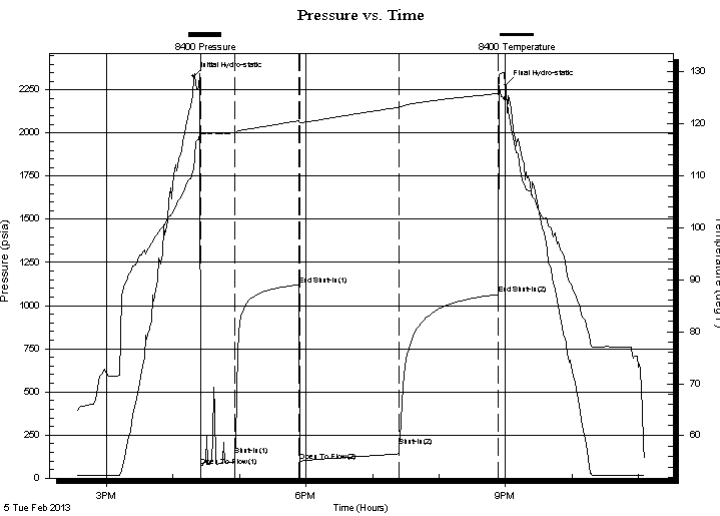
GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:25:30 Tester: Shane Konzem
 Time Test Ended: 23:06:30 Unit No: 3330 Great Bend/
 Interval: **4473.00 ft (KB) To 4545.00 ft (KB) (TVD)** Reference Elevations: 2589.00 ft (KB)
 Total Depth: 4545.00 ft (KB) (TVD) 2580.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8400

Press @ Run Depth: 1064.91 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.05 End Date: 2013.02.05 Last Calib.: 2013.02.05
 Start Time: 14:33:00 End Time: 23:06:00 Time On Btm: 2013.02.05 @ 16:18:30
 Time Off Btm: 2013.02.05 @ 21:00:30

TEST COMMENT: 1st Open/ 30 Minutes Weak blow built to 6.5 inches in 5 gallon bucket of water.
 1st Shut In/ 60 Minutes No BLOW Back.
 2nd Open/ 90 Minutes Weak Blow built to 6.5 inches in 5 gallon bucket of water.
 2nd Shut In/ 90 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2328.42	111.08	Initial Hydro-static
7	71.53	117.89	Open To Flow (1)
38	134.14	118.23	Shut-In(1)
96	1121.45	120.55	End Shut-In(1)
96	97.62	120.20	Open To Flow (2)
186	184.92	123.14	Shut-In(2)
275	1064.91	125.75	End Shut-In(2)
282	2279.03	125.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Rig mud with show of oil	1.68
0.00	95% mud 5% oil	0.00
50.00	Rig mud and oil	0.70
0.00	55% mud 45% oil	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16964 **DST#: 2**
 Test Start: 2013.02.05 @ 14:33:00

Tool Information

Drill Pipe:	Length: 4460.00 ft	Diameter: 3.80 inches	Volume: 62.56 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 61000.00 lb
			Total Volume: 62.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4473.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.50 ft			
Tool Length:	106.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4450.00	
Hydraulic Tool	5.00			4455.00	
Jars	6.00			4461.00	
Safety Joint	2.00			4463.00	
Packer	5.00			4468.00	28.00 Bottom Of Top Packer
Packer	5.00			4473.00	
Anchor	5.00			4478.00	
Change Over Sub	0.75			4478.75	
Drill Pipe	31.00		Outside	4509.75	
Change Over Sub	0.75		Outside	4510.50	
Anchor	36.00			4546.50	
Recorder	1.00	4505	Inside	4547.50	
Recorder	1.00	4500	Outside	4548.50	
Bullnose	3.00			4551.50	78.50 Bottom Packers & Anchor

Total Tool Length: 106.50



DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16964 **DST#: 2**
 Test Start: 2013.02.05 @ 14:33:00

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: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

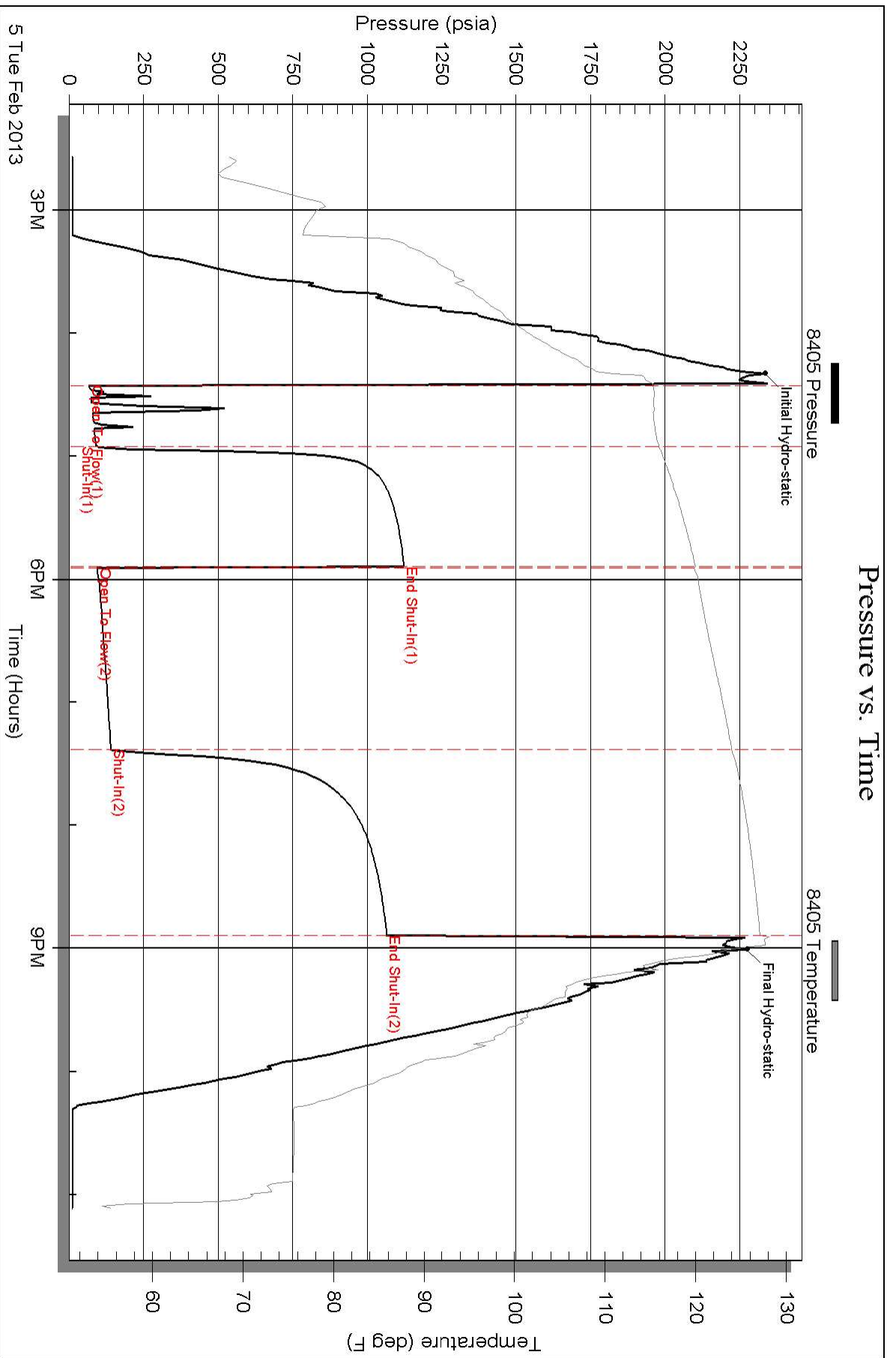
Recovery Information

Recovery Table

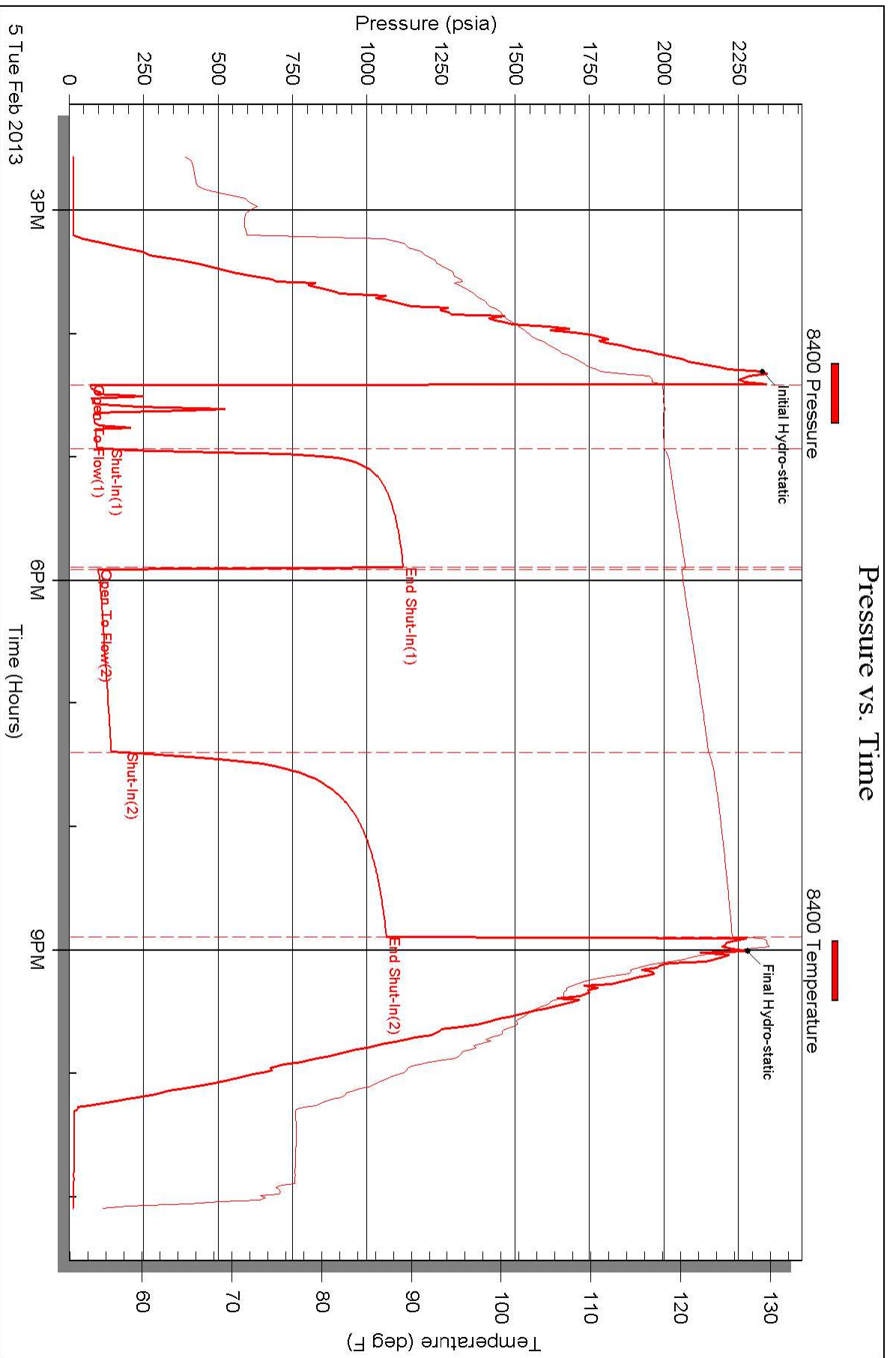
Length ft	Description	Volume bbl
120.00	Rig mud with show of oil	1.683
0.00	95% mud 5% oil	0.000
50.00	Rig mud and oil	0.701
0.00	55% mud 45% oil	0.000

Total Length: 170.00 ft Total Volume: 2.384 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company**

100 s Main St 505 Wichita KS 67202+3738

ATTN: Jerry Smith

Dingnes AC Unit #4

2-18-26 Ness

Start Date: 2013.02.06 @ 10:20:00

End Date: 2013.02.06 @ 19:45:00

Job Ticket #: 16965 DST #: 3

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

Printed: 2013.02.06 @ 20:20:30



DRILL STEM TEST REPORT

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

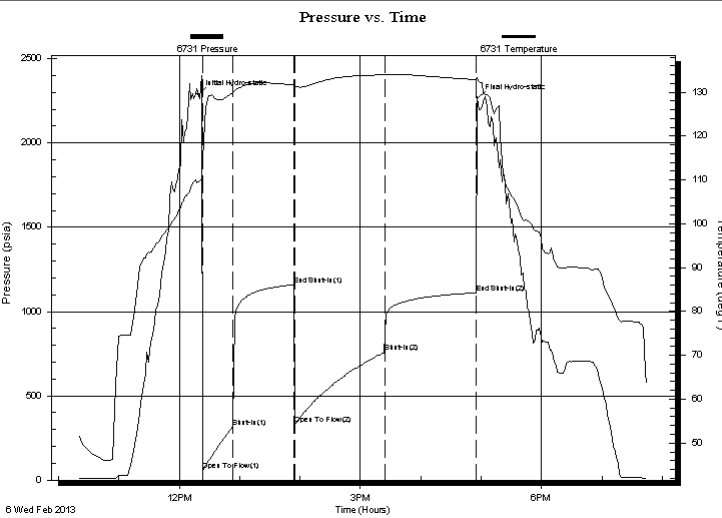
2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16965 **DST#: 3**
 Test Start: 2013.02.06 @ 10:20:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:23:30 Tester: Shane Konzem
 Time Test Ended: 19:45:00 Unit No: 3320 Great Bend/ 160
 Interval: **4545.00 ft (KB) To 4562.00 ft (KB) (TVD)** Reference Elevations: 2589.00 ft (KB)
 Total Depth: 4562.00 ft (KB) (TVD) 2580.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6731 Inside
 Press @ Run Depth: 757.53 psia @ 4558.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.06 End Date: 2013.02.06 Last Calib.: 2013.02.06
 Start Time: 10:20:00 End Time: 19:45:00 Time On Btm: 2013.02.06 @ 12:19:00
 Time Off Btm: 2013.02.06 @ 16:56:30

TEST COMMENT: 1st Open/ 30 Minutes. Blow buil to bottom of 5 gallon bucket of water in 5 minutes.
 1st Shut In/ 60 Minutes. No Blow back.
 2nd Open/ 90 Minutes. Blow built to bottom of 5 gallon bucket of water in 10 minutes.
 2nd Shut In/ 90 Minutes. No Blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2288.01	109.58	Initial Hydro-static
5	57.88	114.62	Open To Flow (1)
35	316.95	129.80	Shut-In(1)
95	1158.80	131.61	End Shut-In(1)
96	330.95	131.38	Open To Flow (2)
185	757.53	133.93	Shut-In(2)
276	1111.59	132.87	End Shut-In(2)
278	2263.61	133.22	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1550.00	Mud cut w ater	21.74
0.00	5% mud 95% w ater	0.00
60.00	mud cut w ater	0.84
0.00	20% mud 80% w ater	0.00
20.00	mud cut w ater	0.28
0.00	40% mud 60% w ater	0.00

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



DRILL STEM TEST REPORT

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

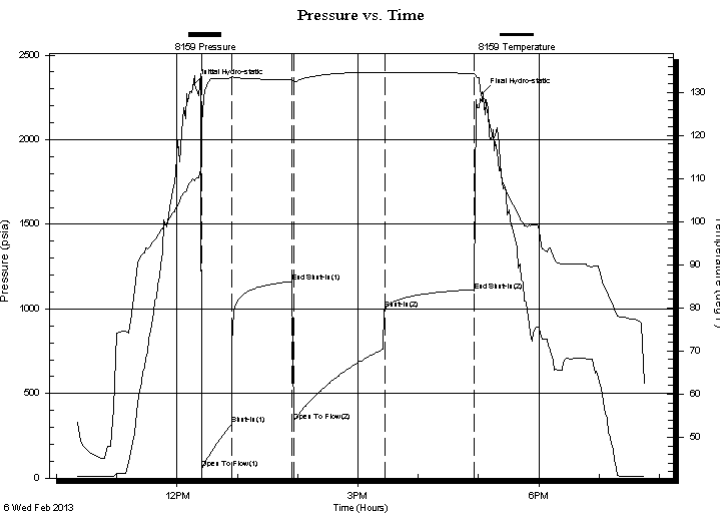
2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16965 **DST#: 3**
 Test Start: 2013.02.06 @ 10:20:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:23:30
 Time Test Ended: 19:45:00
 Interval: **4545.00 ft (KB) To 4562.00 ft (KB) (TVD)**
 Total Depth: 4562.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3320 Great Bend/ 160
 Reference Elevations: 2589.00 ft (KB)
 2580.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8159 Outside
 Press @ Run Depth: 1107.80 psia @ 4559.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.02.06 End Date: 2013.02.06 Last Calib.: 2013.02.06
 Start Time: 10:20:00 End Time: 19:45:20 Time On Btm: 2013.02.06 @ 12:17:30
 Time Off Btm: 2013.02.06 @ 17:04:30

TEST COMMENT: 1st Open/ 30 Minutes. Blow buil to bottom of 5 gallon bucket of water in 5 minutes.
 1st Shut In/ 60 Minutes. No Blow back.
 2nd Open/ 90 Minutes. Blow built to bottom of 5 gallon bucket of water in 10 minutes.
 2nd Shut In/ 90 Minutes. No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2331.07	109.66	Initial Hydro-static
7	56.12	117.46	Open To Flow (1)
37	319.71	133.31	Shut-In(1)
97	1162.05	132.92	End Shut-In(1)
99	337.73	132.58	Open To Flow (2)
190	1001.71	134.56	Shut-In(2)
279	1107.80	134.37	End Shut-In(2)
287	2275.62	128.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1550.00	Mud cut w ater	21.74
0.00	5% mud 95% w ater	0.00
60.00	mud cut w ater	0.84
0.00	20% mud 80% w ater	0.00
20.00	mud cut w ater	0.28
0.00	40% mud 60% w ater	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company

2-18-26 Ness

100 s Main St 505 Wichita KS 67202+3738

Dingnes AC Unit #4

Job Ticket: 16965

DST#: 3

ATTN: Jerry Smith

Test Start: 2013.02.06 @ 10:20:00

Tool Information

Drill Pipe:	Length: 4526.00 ft	Diameter: 3.80 inches	Volume: 63.49 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 63.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4545.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Dropped bar broke circulating sub

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4522.00	
Hydraulic Tool	5.00			4527.00	
Jars	6.00			4533.00	
Safety Joint	2.00			4535.00	
Packer	5.00			4540.00	28.00 Bottom Of Top Packer
Packer	5.00			4545.00	
Anchor	12.00			4557.00	
Recorder	1.00	6731	Inside	4558.00	
Recorder	1.00	8159	Outside	4559.00	
Bullnose	3.00			4562.00	17.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company
 100 s Main St 505 Wichita KS 67202+3738
 ATTN: Jerry Smith

2-18-26 Ness
Dingnes AC Unit #4
 Job Ticket: 16965 **DST#: 3**
 Test Start: 2013.02.06 @ 10:20:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

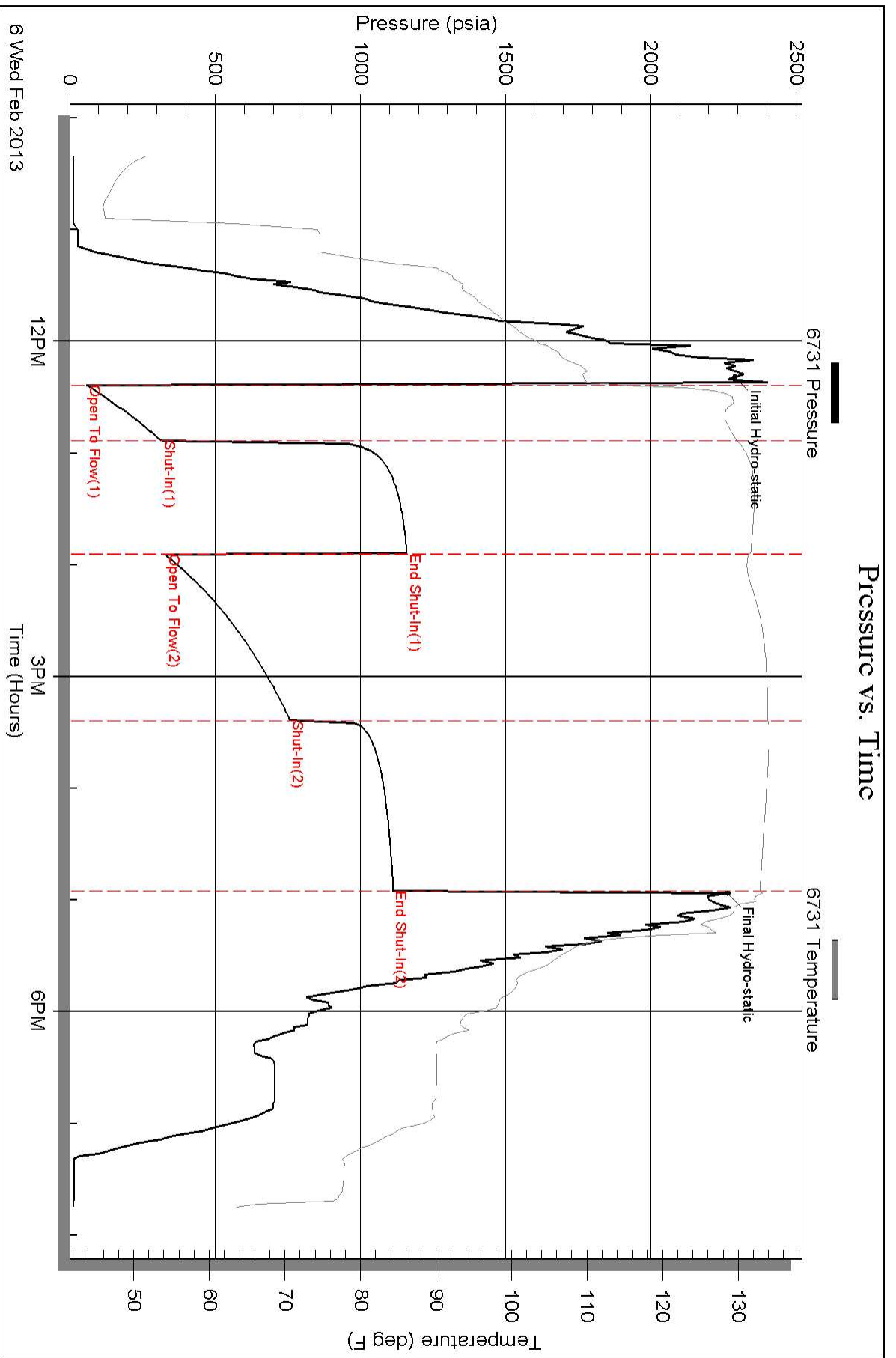
Recovery Information

Recovery Table

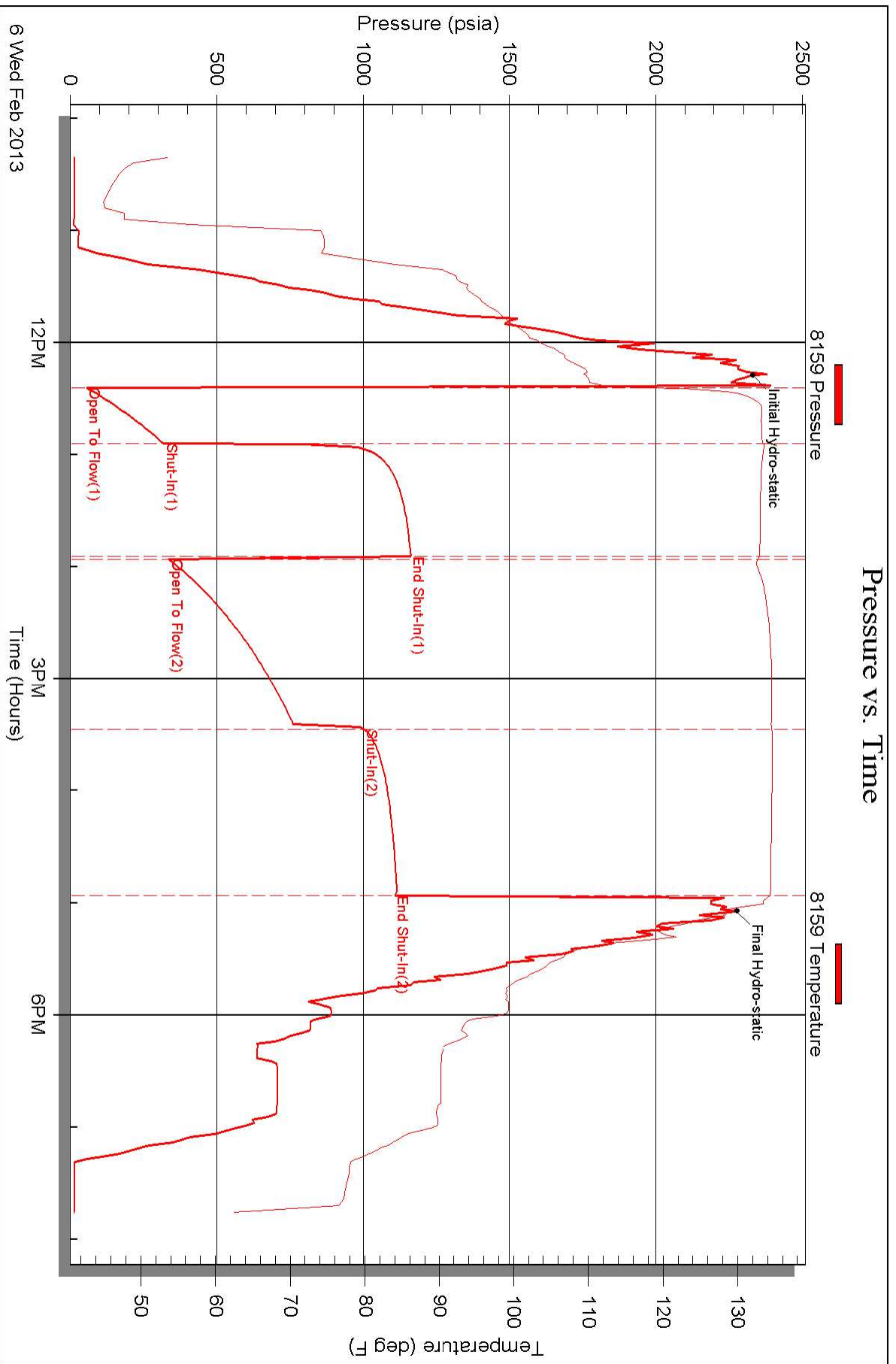
Length ft	Description	Volume bbl
1550.00	Mud cut w ater	21.742
0.00	5% mud 95% w ater	0.000
60.00	mud cut w ater	0.842
0.00	20% mud 80% w ater	0.000
20.00	mud cut w ater	0.281
0.00	40% mud 60% w ater	0.000
0.00	chlorides 20,000 ppm	0.000
0.00	resistivity .55 ohms @ 50 degrees	0.000

Total Length: 1630.00 ft Total Volume: 22.865 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: chlorides 20,000/resistivity .55@ 50 degrees/ Drop the bar and broke the pin.

Pressure vs. Time



Pressure vs. Time



ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTH LAKE, TEXAS 76092

SERVICE POINT:
Grant Bend, KS

DATE <u>2-8-13</u>	SEC. <u>2</u>	TWP. <u>18S</u>	RANGE <u>26W</u>	CALLED OUT <u>7:00 PM</u>	ON LOCATION <u>9:45 AM</u>	JOB START <u>2:30 AM</u>	JOB FINISH <u>3:30 AM</u>
LEASE AC. <u>4.1</u>	WELL # <u>4</u>	LOCATION <u>Lat 16 West to Card. 3 miles North, 2 miles West on lease Rd to Rig</u>			COUNTY <u>Wess</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR Pickrell 10
TYPE OF JOB PTA
HOLE SIZE 7 7/8" T.D. 4610 ft
CASING SIZE 8 7/8" 23# DEPTH 270 ft
TUBING SIZE _____ DEPTH _____
DRILL PIPE 4 1/2" 16.60# DEPTH 1590 ft
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT WBM + FW

OWNER Pickrell Drilling Company, Inc.

CEMENT AMOUNT ORDERED 280sx 60/40 + 4% Gel + 2.5% F/10 Seal

EQUIPMENT

PUMP TRUCK # <u>398</u>	CEMENTER <u>Charles E. Ricks</u>	<u>1</u>
	HELPER <u>Josh Isaac</u>	<u>2</u>
BULK TRUCK # <u>609/112</u>	DRIVER <u>Alan Encorey</u>	<u>3</u>
BULK TRUCK # _____	DRIVER _____	

COMMON <u>168</u>	@ <u>17.90</u>	<u>3007.20</u>
POZMIX <u>112</u>	@ <u>9.35</u>	<u>1047.20</u>
GEL <u>10</u>	@ <u>23.40</u>	<u>234.00</u>
CHLORIDE _____	@ _____	
ASC _____	@ _____	
<u>fl seal 70</u>	@ <u>2.97</u>	<u>207.90</u>
HANDLING <u>301.32</u>	@ <u>2.48</u>	<u>747.27</u>
MILEAGE <u>12.57 x 17</u>	@ <u>2.10</u>	<u>555.59</u>
TOTAL		<u>5799.16</u>

REMARKS:
Set Plug 1 @ 1590ft: 6FW, 12.5cent, 2FW, 16WBM (50sx)
Set Plug 2 @ 1140ft: 6FW, 12cent, 9FW (80sx)
Set Plug 3 @ 570ft: 6FW, 12.5cent, 3FW (50sx)
Set Plug 4 @ 300ft: 6FW, 12.5cent, 1FW (50sx)
Set Plug 5 @ 60ft: 5cent (20sx)
Plug Ret Hole with 7.5cent (30sx)

SERVICE

DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	<u>2249.84</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>HVM 17</u>	@ <u>7.70</u> <u>130.90</u>
MANIFOLD <u>LVM 17</u>	@ <u>4.40</u> <u>74.80</u>
TOTAL	<u>2455.54</u>

CHARGE TO: Pickrell Drilling Company, Inc.
STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, 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 Mike Ricks
SIGNATURE [Signature]

SALES TAX (If Any) 520.04
TOTAL CHARGES 8254.70
DISCOUNT 2083.68 IF PAID IN 30 DAYS
~~6191.02~~

ALLIED OIL & GAS SERVICES, LLC 059254

Federal Tax I.D.# 20-5975304

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Mount Bend, TX
1-28-13

DATE <u>1-29-13</u>	SEC. <u>2</u>	TWP. <u>18</u>	RANGE <u>26</u>	CALLED OUT <u>8:00 PM</u>	ON LOCATION <u>10:30 AM</u>	JOB START <u>3:00 AM</u>	JOB FINISH <u>3:30 AM</u>	
LEASE <u>W&AT</u>			WELL # <u>41</u>	LOCATION <u>Venue City, West to "B" Road</u>		COUNTY <u>Wau</u>	STATE <u>TX</u>	
OLD OR <u>(NEW)</u> (Circle one)			3 hrs to cattle guard, 1/2 hr to here to see				1-01	(61)

CONTRACTOR Pickard #10 OWNER Scime

TYPE OF JOB <u>Surface</u>	CEMENT	AMOUNT ORDERED <u>170 cu. cement</u>
HOLE SIZE <u>2 1/4"</u>	T.D. <u>270</u>	3 sac, 2 1/2 cu ft
CASING SIZE <u>2 1/4"</u>	DEPTH <u>265'</u>	
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	
CEMENT LEFT IN CSG. <u>15'</u>		
PERFS.		
DISPLACEMENT <u>15.9 bbls</u>		

EQUIPMENT		COMMON			
PUMP TRUCK	CEMENTER <u>Tom Medina 1</u>	<u>170</u>	@ <u>17.90</u>	<u>3,043.00</u>	
# <u>3166</u>	HELPER <u>Charles King 3</u>		@		
BULK TRUCK			@		
# <u>107-112</u>	DRIVER <u>Don Campbell 2</u>		@		
BULK TRUCK			@		
#	DRIVER		@		
		HANDLING <u>183.47</u>	@ <u>2.48</u>	<u>455.00</u>	
		MILEAGE <u>8.37 X 17X</u>	<u>2.60</u>	<u>370.32</u>	
		TOTAL		<u>4,322.62</u>	

REMARKS: Run 265' of 2 1/4" cas. Bond line. mixed 170 cu. cement 3 sac steel. deep bed with fresh H₂O

SERVICE				
DEPTH OF JOB <u>265'</u>				
PUMP TRUCK CHARGE	<u>1512.35</u>			
EXTRA FOOTAGE	@			
MILEAGE <u>4um 17</u>	@ <u>7.70</u>	<u>130.90</u>		
MANIFOLD <u>2um 17</u>	@ <u>4.40</u>	<u>74.80</u>		
	@			
		TOTAL	<u>1,717.95</u>	

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

To: Allied Oil & Gas Services, 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 Eric Zedler
SIGNATURE [Signature]

PLUG & FLOAT EQUIPMENT				
	@			
	@			
	@			
	@			
	@			
TOTAL				
SALES TAX (If Any) <u>220.32</u>				
TOTAL CHARGES <u>6,039.24</u>				
DISCOUNT <u>1,509.24</u>				
		IF PAID IN 30 DAYS		
		<u>4,529.82</u>		



JERRY A. SMITH

CERTIFIED PETROLEUM GEOLOGIST

GEOLOGIST'S REPORT DRILLING TIME and SAMPLE LOG

COMPANY: PICKRELL DRILLING COMPANY, INC.		ELEVATIONS
LEASE: #4 DINGES AC UNIT		K.B. 2589
FIELD: T & L		D.F. 2587
LOCATION: 1205' FSL & 490' FEL		G.L. 2582
SEC. 2	TWSP. 18	RNG. 26 W
COUNTY: NESS		STATE: KANSAS
CONTRACTOR: COMPANY TOOLS, RIG #10		Measurements Are All From: KB
SPUD: 1/28/13		COMP. 2/07/13
RTD. 4610		LTD. 4618
MUD UP: 3615		TYPE MUD: CHEMICAL
SAMPLES SAVED FROM: 3700		API No. 15-135-25517
DRILLING TIME KEPT FROM: 1800/3600		TO: RTD
SAMPLES EXAMINED FROM: 3700		TO: 2000/RTD
GEOLOGICAL SUPERVISION FROM: 3760		TO: RTD
GEOLOGIST ON WELL: JERRY A. SMITH		
FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1916 (+673)	1911 (+678)
HEEBNER	3885 (-1296)	3879 (-1290)
LANSING	3926 (-1337)	3925 (-1336)
STARK	4174 (-1585)	4169 (-1580)
PAWNEE	4368 (-1779)	4365 (-1776)
FT. SCOTT	4433 (-1844)	4426 (-1837)
CHEROKEE	4460 (-1871)	4454 (-1865)
MISSISSIPPIAN	4539 (-1950)	4528 (-1939)
MISS. POROSITY	4542 (-1953)	4536 (-1947)

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool.Lime	Chert	Dolomite

LITHOLOGY	<p>DRILLING TIME IN MINUTES PER FOOT</p> <p>Rate of Penetration Increases</p> <p>5" 10" 15" 20" 25"</p>	SAMPLE DESCRIPTIONS	REMARKS

785' 1/2° 2783' 1/2°
1285' 1/4° 4452' 3/4°
1785' 1/2°

VERT. LOG SCALE: 2" = 100'

1800

50

1900

ANHYDRITE
1911 (+678) SMPL
1916 (+673) LOG

B/ANHYDRITE
1940 (+649) SMPL
1943 (+646) LOG

50

2000

VERT. LOG SCALE: 5" = 100'

3600

20

40

60

80

MUD @ 3620':
8.7 WT, 51 VIS, 7.2 FILT,
2000 CHLOR, 2# LCM

3700

LM - CRM. LR - M GY. FX. FR -> GR VGY. NS.

LM - AA.

LM - AA.

SH - DK GY, GY - GR.

SH - AA.

LM - LR -> M GY. FX. FR -> GR VGY. NS. No Vis

LM - AA. FR VGY & FOSS. No Vis

LM - AA.

LM - M GY. FX. FOSS. No Vis. SHLY.

LM - AA. LR -> M GY. FX. FR -> GR VGY. NS.

3800

LM - LR -> M GY. FX. SUB - CRKY. IN FT. SCATT. VGY. NS.

LM - AA. LR -> M GY. FX. FR -> GR VGY & FOSS. MLD. NS.

LM - AA. LR -> M GY. FX. FR -> GR VGY & FOSS. MLD. NS.

LM - CRM. LR -> M GY. FX. FR -> GR VGY & FOSS. MLD. NS.

LM - CRM. LR -> M GY. FX. FR -> GR VGY & FOSS. MLD. NS. SHLY.

LM - CRM. LR -> M GY. FX. FR -> GR VGY & FOSS. MLD. NS. DSE -> SCATT. FR VGY.

LM - AA.

SH - BLK, CARB.

LM - M GY. FX. DSE.

SH - DK GY, GY - GR.

3900

LM - CRM. LR -> M GY. FX. FR -> GR VGY & FOSS. MLD. NS. DSE -> CRKY.

LM - AA.

HEEBNER
3879 (-1290) SMPL
3885 (-1296) LOG

LANSING
 3925 (-1336) SMPL
 3926 (-1337) LOG

SH - DR GY, GY-GRN.
 LM - CRM, Lr GY, FX.
 DSE

LM - AA. B. CMING SHLY.

SH - DR GY, GY-GRN.

SH - DR GY.

LM - Lr - M GY, FX.
 DSE - SUB - CHKY.
 SHLY.

SH - DR GY.

LM - CRM, Lr GY, FX.
 DSE - SUB - CHKY.

SH - DR GY.

LM - Lr - M GY, FX, FOSS
 IN P. Lr GY, FOSS
 M.P. O. N. SCAT.
 W. CHKY, SCAT. P.
 O.P., SHP, DSE CAT.

SH - DR GY.

LM - CRM, Lr - M GY
 FX, FOSS IN P. SPSSY
 O.P., SCAT. P.
 O.M.P. O. N. S. CHKY.

LM - CRM, Lr GY, FX.
 SPSSY FOSS, DSE.

SH - DR GY, GY-GRN.

LM - CRM, Lr GY, Lr
 IN, FX, FOSS, DSE.

SH - DR GY.

LM - CRM, FX, FOSS
 DSE, Lr GY
 O.P., SHP, DSE CAT.

SH - DR GY.

LM - CRM, Lr IN, FX,
 FOSS, DSE w/ SCAT.
 Lr GY, Lr IN, O.P.,
 SHP, DSE CAT.

LM - AA.

DST #1: 4395-4452
 30-30-30-30

IF: WK SURF BLOW,
 DIED
 ISI: No RETURN
 FF: DEAD. FLUSHED
 TOOL. WK SURF. BLOW
 FSI: No RETURN

RECOVERY:
 4' MUD

SIP'S: 70-65#
 FP'S: 56-67/56-58#
 HP'S: 2263-2212#
 BHT: 114° F

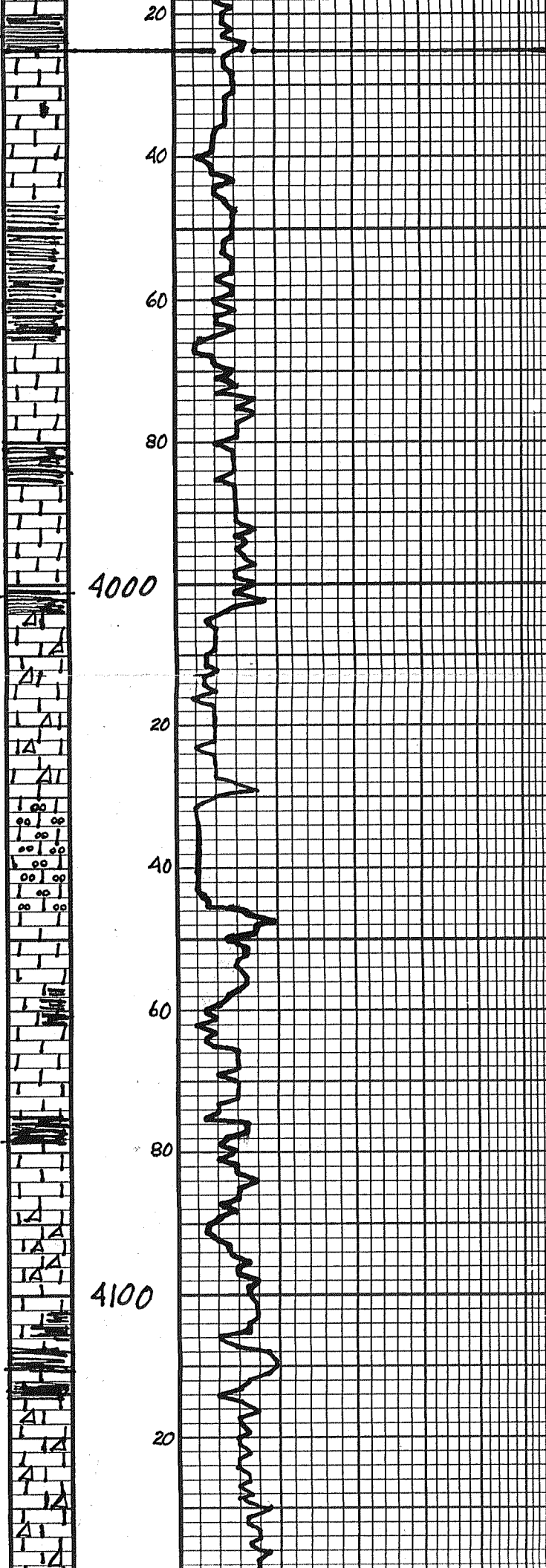
DST #2: 4473-4545
 30-60-90-90

IF: 6 1/2" BLOW
 ISI: No RETURN
 FF: 6 1/2" BLOW
 FSI: No RETURN

RECOVERY:
 120' SOCM
 (5% O, 95% M)
 50' HOCM
 (45% O, 55% M)

4000

4100





40
60
80
20
40
60
80
20
40

4200

4300

LM - CRM. FX. Foss. DSE.
SH - DK Gy, Gy - GN.
LM - M Gy. FX. DSE. w/ Sp. GARD. & Lat - Ool. R. N.
LM - M Gy. FX. Foss. DSE → CHKY.
SH - BLK, CARB.
LM - M Gy. FX. Foss. DSE. w/ ABD. W/ CHK.
SH - M → DK Gy, Gy - GN. TR. RD. SH.
LM - LF → M Gy. FX. DSE. w/ W/ SET. SOL. CHK.
SH - DK Gy → BLK.
SH - DK Gy, Gy - GN.
LM - CRM. LF → M Gy. FX. DSE → CHKY.
LM - AA. w/ ABD. DK Gy SH.
SH - DK Gy, Gy - GN, BLK.
SH - M → DK Gy, Gy - GN. LM - CRM. LF → M Gy. FX. DSE → CHKY.
SH & LM - AA.
LM - CRM. LF → M Gy. FX. DSE → SUB-CHKY. No. V. S. TR. L. T. OPG. SH. P. DSE CHKY.
LM & SCATT. CHT - AA.
LM - AA. w/ INC. LK. M → DK Gy, Gy - GN. SH.
LM, CHT, SH - AA.
LM - LF → M Gy. FX. DSE.
SH - M → DK Gy.
LM - CRM. FX. DSE → SUB-CHKY.
LM - AA. w/ ABD. DK Gy SH.
LM - AA. CHKY.
LM - CRM. LF. Gy. FX. SUB-CHKY → DSE.
LM - AA.
LM - AA.
LM - AA.

SIP'S: 1121-1063#
FP'S: 67-89/93-139#
HP'S: 2334-2274#
BHT: 125° F

STARK
4169 (-1580) SMPL
4174 (-1585) LOG

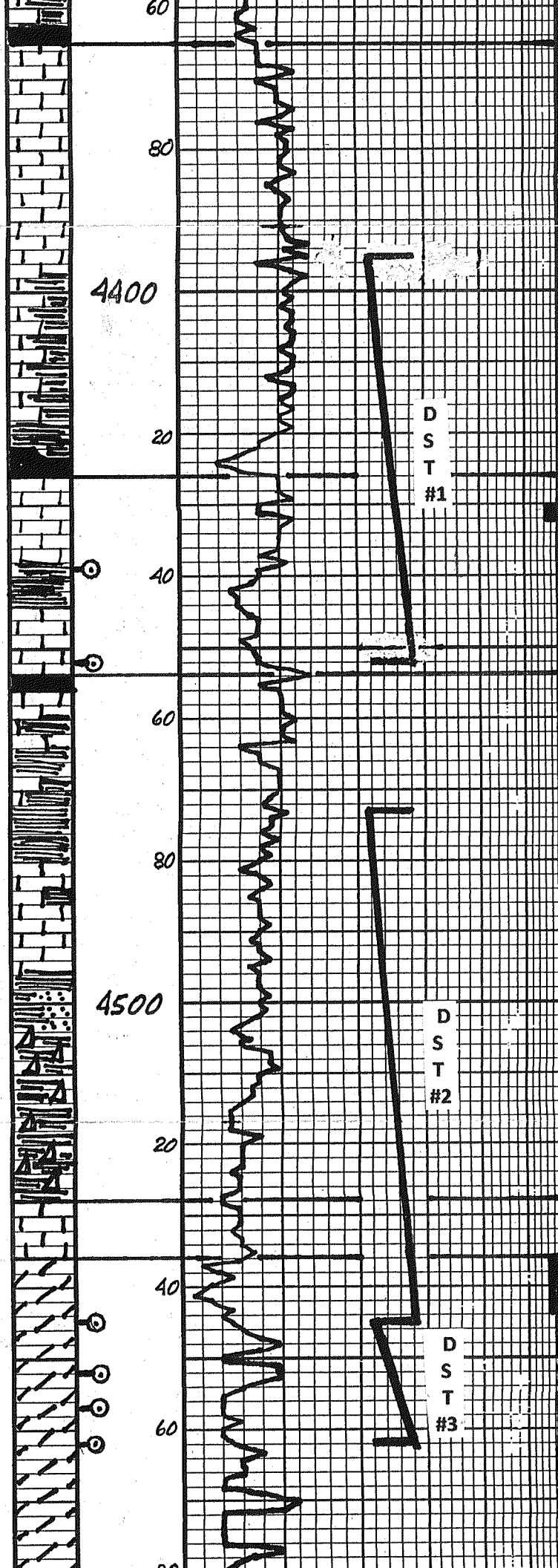
MUD @ 4172':
9.2 WT, 54 VIS, 8.8 FILT,
3600 CHLOR, 2# LCM

DST #3: 4545-4562
30-60-90-90
IF: BOB IN 5 MIN.
ISI: No RETURN
FF: BOB IN 10 MIN.
FSI: No RETURN

RECOVERY:
1550' MCW
(5% M, 95% W)
REVERSED OUT
60' MCW
(20% M, 80% W)
20' MCW
(40% M, 60% W)

CHLORIDES = 20,000 PPM

SIP'S: 1158-1111#
FP'S: 57-316/330-757 #
HP'S: 2288-2263#
BHT: 133° F



SH-M → DK Gy w/ TR.
BLK, CARB.

LM-CRM, L → M Gy.
FX SUB-CHKY →
DSE.

LM-L → M Gy. FX.
SUB-CHKY → DSE.

LM-AA.

LM-AA w/ ABD. SH-M
→ DK Gy. DK Sp. Gy.
GRN. TR BLK, CARB
SH.

LM & SH-AA.

SH-DK Gy. DK Gy-GRN,
BLK CARB.

LM-DK Gy → Gy-BRN. FX.
QUALITY. 1 FR. INT-GRN
D. GO. DOOR. DK STN
IN D. NO F.O.
LM-M Gy. Gy-TN. FX. SPSEY
FOSS. DSE. FT. DOOR.

SH-DK Gy. Gy-GRN.

LM-M Gy. FX. QUALITY.
NO VIS. D. NO. F.O.
FEET DOOR. w/ CRZY
CHKY LM.

PREDOM SH-BLK. Gy. GRN
w/ SM-MIN. CHKY →
FT. Gy. FX. DSE.

VARIOL SH w/ LM-L →
M → DK Gy. FX. DSE.

SH & LM-AA. CHKY.

LM & SH-AA.

LM & SH-AA. ABD
RD SH.

LM & SH-AA. TR. Sp-
Gy-GRN. V → FG.
W. RD. W. SRT. MIO,
LITE.

LM & SH-AA w/ VARIOL
DOOR → S. TR. LINT.

SOME CNT. PART WEA w/
BLK STN. NO F.O. NO
DOOR.

LM & SH. CNT-AD. WK. FEET
DOOR. NO F.O.

LM & SH. CNT-AA. SCATT.
BLK STN. NO F.O. NO
DOOR.

DOLA-M Gy. Gy-TN. FX. GP
VGY D. STR. DOOR. GP
STN IN ALL D. GO. SHO. FGO.

DOLA-L → M Gy. FX. FLY
JUGG. MOSTLY DSE. CARB
VGY D. NO. NO DOOR.

DOLA-M Gy. Gy-TN. FX. GP
VGY D. STR. DOOR. GP
SHO. F.O. SCATT. W/ CNK.

DOLA-AA. SH. GRN. IN D.
STR. DOOR. GO. SHO. F.O.

DOLA-AA w/ GP. D. DOOR. SHO.
w/ DOLA-CENT. FX. DSE
→ CHKY.

DOLA-CRM, L → M Gy. TN. FX. DSE
TR. VGY D. WK. DOOR. NO
VIS. SHO.

PAWNEE
4365 (-1776) SMPL
4368 (-1779) LOG

FT. SCOTT
4426 (-1837) SMPL
4433 (-1844) LOG

CHEROKEE
4454 (-1865) SMPL
4460 (-1871) LOG

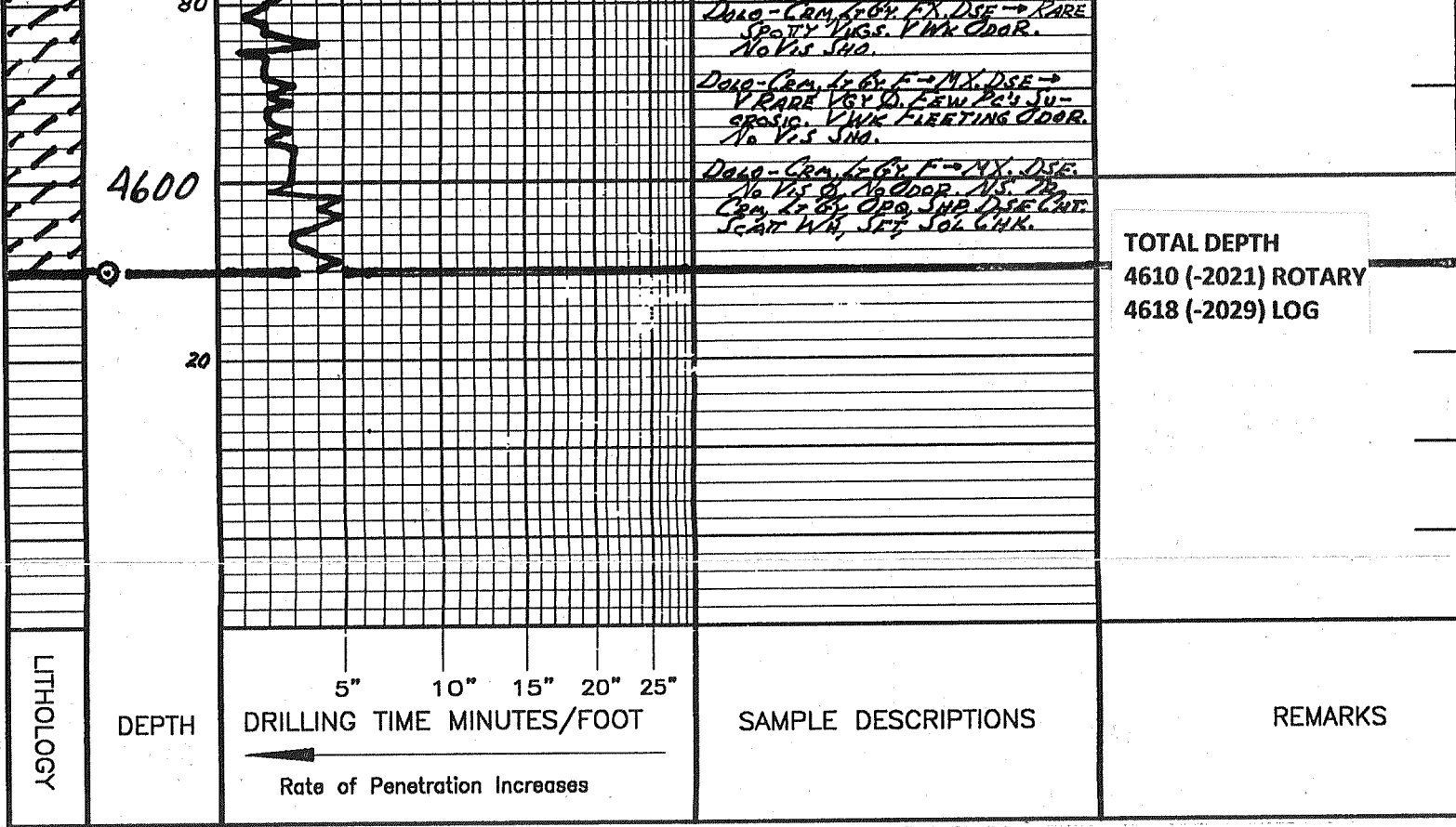
MUD @ 4452':
9.5 WT, 46 VIS, 10.8 FILT,
4000 CHLOR, 1/2# LCM

PIPE STRAP @ 4452':
4473.64 STRAP
4470.38 BOARD
3.26 LONG

MISSISSIPPIAN
4528 (-1939) SMPL
4539 (-1950) LOG

MISS. POROSITY
4536 (-1947) SMPL
4542 (-1953) LOG

MUD @ 4562':
9.4 WT, 50 VIS, 9.6 FILT,
4000 CHLOR, 1# LCM



COMPANY: PICKRELL DRILLING COMPANY, INC.		ELEVATION: 2589 KB	
LEASE: #4 DINGES AC UNIT			
LOCATION: 1205' FSL & 490' FEL	SEC 2	TWP 18	RGE 26W
COUNTY: NESS	STATE: KANSAS		