



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: \_\_\_\_\_



1057785

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Pickrell Drilling Company, Inc.
Well Name	Nietling 'B' 1
Doc ID	1057785

Tops

Name	Top	Datum
T/Anhydrite	1505	+879
B/Anhydrite	1547	+837
Heebner	3976	-1592
Lansing	4072	-1688
Stark	4319	-1935
Fort Scott	4602	-2218
Cherokee Shale	4626	-2242
Mississippi	4687	-2303
Mississippi dolo Por	4710	-2326
Osage	4778	-2394

# ALLIEC CEMENTING CO., LLC. 037187

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Great Bend KS

DATE <u>4-14-2011</u>	SEC <u>8</u>	TWP. <u>24S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30AM</u>	JOB FINISH <u>8:00AM</u>
LEASE <u>Nothing</u>	WELL # <u>B #1</u>	LOCATION <u>Hunston KS, 8S, 2W</u>			COUNTY <u>Hodgeman</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>3S, 1/4 W N/1/4</u>					

CONTRACTOR Pickrell #10

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 252 FT

CASING SIZE 8 5/8 DEPTH 252 FT

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 252 FT

TOOL DEPTH

PRES. MAX 250 PSI MINIMUM -

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT Fresh Water 15 BBLS

OWNER Pickrell

CEMENT

AMOUNT ORDERED 200 SX A + 396 CC + 296 Gel

COMMON	<u>200</u>	@	<u>16.25</u>	<u>3250.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>21.25</u>	<u>85.00</u>
CHLORIDE	<u>7</u>	@	<u>58.20</u>	<u>407.40</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>211</u>	@	<u>422.25</u>	<u>477.25</u>
MILEAGE	<u>211 X 72 x .11</u>			<u>1.671.12</u>
TOTAL				<u>5.888.27</u>

EQUIPMENT

PUMP TRUCK CEMENTER David W.

# 306 HELPER Bob R.

BULK TRUCK

# 341 DRIVER Kevin W.

BULK TRUCK

# DRIVER

REMARKS:

Pipe on bottom break off  
Mix 200sx A + 396 CC + 296 Gel  
Shut Down Release Plug  
Displace with 15 BBLS Fresh  
Water shot in cement did  
fine

SERVICE

DEPTH OF JOB	<u>252 FT</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>144</u>	@	<u>7.00</u> <u>1008.00</u>
MANIFOLD		@	
<u>Light Truck</u>	<u>144</u>	@	<u>4.00</u> <u>576.00</u>
		@	

CHARGE TO: Pickrell

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 2709.00

PLUG & FLOAT EQUIPMENT

8 5/8

<u>1-Basket</u>	@	<u>221.00</u>	<u>221.00</u>
<u>1-Wooden Plug</u>	@	<u>53.00</u>	<u>53.00</u>
	@		
	@		

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment



Services, Inc.

CHARGE TO: Retrell Drilling  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET 20678  
PAGE 1 OF 2

1. SERVICE LOCATIONS: Mid City, KS WELL/PROJECT NO: #1 LEASE: Nothing B COUNTY/PARISH: Hedgepeman STATE: KS CITY: Setmore DATE: 22 APR 11 OWNER:

2. TICKET TYPE:  SERVICE CONTRACTOR:  RIG NAME/NO:  SHIPPED VIA: CT DELIVERED TO: Location ORDER NO:

3. WELL TYPE: D-1 WELL CATEGORY: CO TROUS JOB PURPOSE: Development WELL PERMIT NO:

4. REFERRAL LOCATION:  INVOICE INSTRUCTIONS: Development WELL LOCATION: 8-245-22W

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	45	mi			5.00	225.00
579					TRK 114	1	ea	4	ea	1750.00	1750.00
402					Pump Charge	1/2	in	1	ea	60.00	240.00
403					Centrifugizer	1/2	in	1	ea	225.00	225.00
407					Convent Basket	1/2	in	1	ea	275.00	275.00
488					Insert Float shoe w/ AUTO F-11	1/2	in	1	ea	250.00	250.00
417					DV Tool & Plug set	1/2	in	1	ea	200.00	200.00
290					DV Latch down plug & gaffle	3	gal			35.00	105.00
281					D-AIR	520	gal			1.00	520.00
281					MUDFLASH	4	gal			25.00	100.00
281					KCL liquid						

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: [Signature] TIME SIGNED: 1:49  AM  PM

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

SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					1	6120.00
WE UNDERSTOOD AND MET YOUR NEEDS?					2	8037.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					TOTAL	14,943.29

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

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 22 APR 11 PAGE NO. 7

CUSTOMER Pickrell Drilling WELL NO. #1 LEASE niething "B" JOB TYPE cement long string TICKET NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								- 125 sk 60/40 2% - 75 sks STD w/ salt
								- 250 SMD w/ floccule
								R.T.D 4810 120 sks - 4800' skc jt 25'
								4 1/2" casing Cent 1, 2, 3, 83
								Bskct #84 DV tool 84 @ 1465'
	1530							on loc TRK 114
	1550							start 4 1/2 casing in well
								Drop ball - circulate
	1814	6 3/4	12				200	pump 500 gal mud flush
		6 3/4	20				200	pump 20 bbl KCL flush
	1820	4 1/4	32				300	mix 125 sks 60/40 2% @ 13.6 PPG
	1826	4 1/4	16				150	mix 75 sks STD cement w/ 10% salt @ 15.6 PPG
	1835							Drop 1st stage plug
								Wash out pump & lines
	1837	6 3/4					200	Displace plug
		6 3/4	72				850	
	1810		76				1500	LAND Plug
								Release pressure to truck - dried up
	1852							Drop bomb
	1906		2				1000	open DV tool
	1909							Plug RT 30 sks
	1912	6 3/4	139				250	mix SMD cement 220 sks @ 11.2 PPG
	1930							wash pump & line
	1935							Drop 2nd stage plug
		6 3/4					250	Displace plug
	1930	6 3/4	17				250	cement to surface
	1945		23				1200	Plug down - close DV tool
								{ 220 sks mixed - 25 top it }
								Release pressure to truck - dried up
								wash truck
								Rack up
	2015							job complete
								Trucks Blair Wayne John & Dave



## DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company Inc**

100 S Main Ste 505  
Wichita KS 67202 + 3738

ATTN: Larry J Richardson

**8-24-22 Hodgeman,KS**

**Nietling-B-#1**

Start Date: 2011.04.21 @ 03:49:49

End Date: 2011.04.21 @ 14:00:34

Job Ticket #: 042614                      DST #: 1

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pickrell Drilling Company Inc

100 S Main Ste 505  
Wichita KS 67202 + 3738

ATTN: Larry J Richardson

**Nietling-B#1**

**8-24-22 Hodgeman, KS**

Job Ticket: 042614 DST#: 1

Test Start: 2011.04.21 @ 03:49:49

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:21:34  
 Time Test Ended: 14:00:34

Test Type: Conventional Bottom Hole  
 Tester: Jeff Brown  
 Unit No: 44

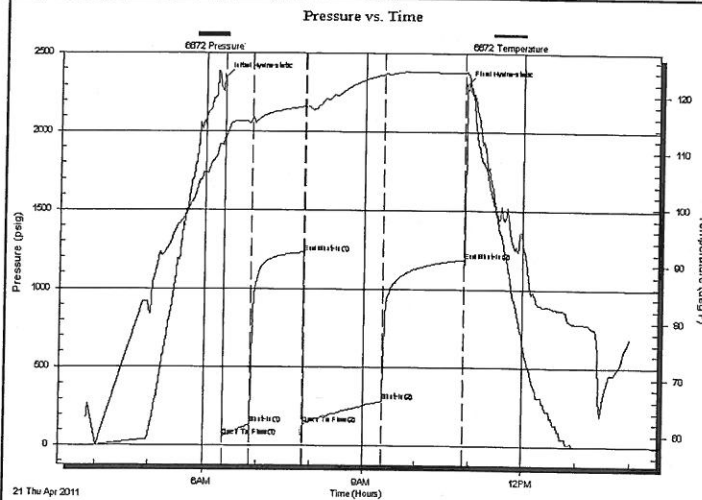
Interval: **4632.00 ft (KB) To 4726.00 ft (KB) (TVD)**  
 Total Depth: 4726.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2384.00 ft (KB)  
 2379.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6672** Inside  
 Press@RunDepth: 285.34 psig @ 4703.00 ft (KB)  
 Start Date: 2011.04.21 End Date: 2011.04.21  
 Start Time: 03:49:50 End Time: 14:00:34

Capacity: 8000.00 psig  
 Last Calib.: 2011.04.21  
 Time On Btm: 2011.04.21 @ 06:21:19  
 Time Off Btm: 2011.04.21 @ 10:55:19

**TEST COMMENT:** IFF-Good blow BOB in 13 min  
 IS-Weak surface blow back  
 FFP-Good blow BOB in 16 min  
 FSI-Weak surface blow back built to 1/4 in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2349.25	112.70	Initial Hydro-static
1	59.97	111.81	Open To Flow (1)
31	137.36	115.79	Shut-In(1)
91	1228.08	118.05	End Shut-In(1)
91	137.86	117.62	Open To Flow (2)
181	285.34	123.68	Shut-In(2)
273	1186.53	123.98	End Shut-In(2)
274	2300.73	124.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCGWM 10%O20%G5%W65%M	0.88
310.00	OCGM 10%O30%G60%M	4.35
124.00	MCGWO 25%M10%G3%W62%O	1.74
93.00	Gassy Oil 25%G75%O	1.30
0.00	372 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pickrell Drilling Company Inc

**Nietling-B-#1**

100 S Main Ste 505  
Wichita KS 67202 + 3738

**8-24-22 Hodgeman,KS**

Job Ticket: 042614

**DST#: 1**

ATTN: Larry J Richardson

Test Start: 2011.04.21 @ 03:49:49

## Tool Information

Drill Pipe:	Length: 4628.00 ft	Diameter: 3.80 inches	Volume: 64.92 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 64.92 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4632.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	117.00 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			4610.00	
Shut In Tool	5.00			4615.00	
Hydraulic tool	5.00			4620.00	
Safety Joint	3.00			4623.00	
Packer	4.00			4627.00	23.00 Bottom Of Top Packer
Packer	5.00			4632.00	
Stubb	1.00			4633.00	
Perforations	6.00			4639.00	
Change Over Sub	1.00			4640.00	
Drill Pipe	62.00			4702.00	
Change Over Sub	1.00			4703.00	
Recorder	0.00	6672	Inside	4703.00	
Recorder	0.00	8321	Outside	4703.00	
Perforations	20.00			4723.00	
Bullnose	3.00			4726.00	94.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>117.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company Inc

Nietling-B-#1

100 S Main Ste 505  
Wichita KS 67202 + 3738

8-24-22 Hodgeman,KS

Job Ticket: 042614

DST#: 1

ATTN: Larry J Richardson

Test Start: 2011.04.21 @ 03:49:49

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	OCGWM 10%O20%G5%W65%M	0.884
310.00	OCGM 10%O30%G60%M	4.348
124.00	MCGWO 25%M10%G3%W62%O	1.739
93.00	Gassy Oil 25%G75%O	1.305
0.00	372 GIP	0.000

Total Length: 590.00 ft

Total Volume: 8.276 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6672

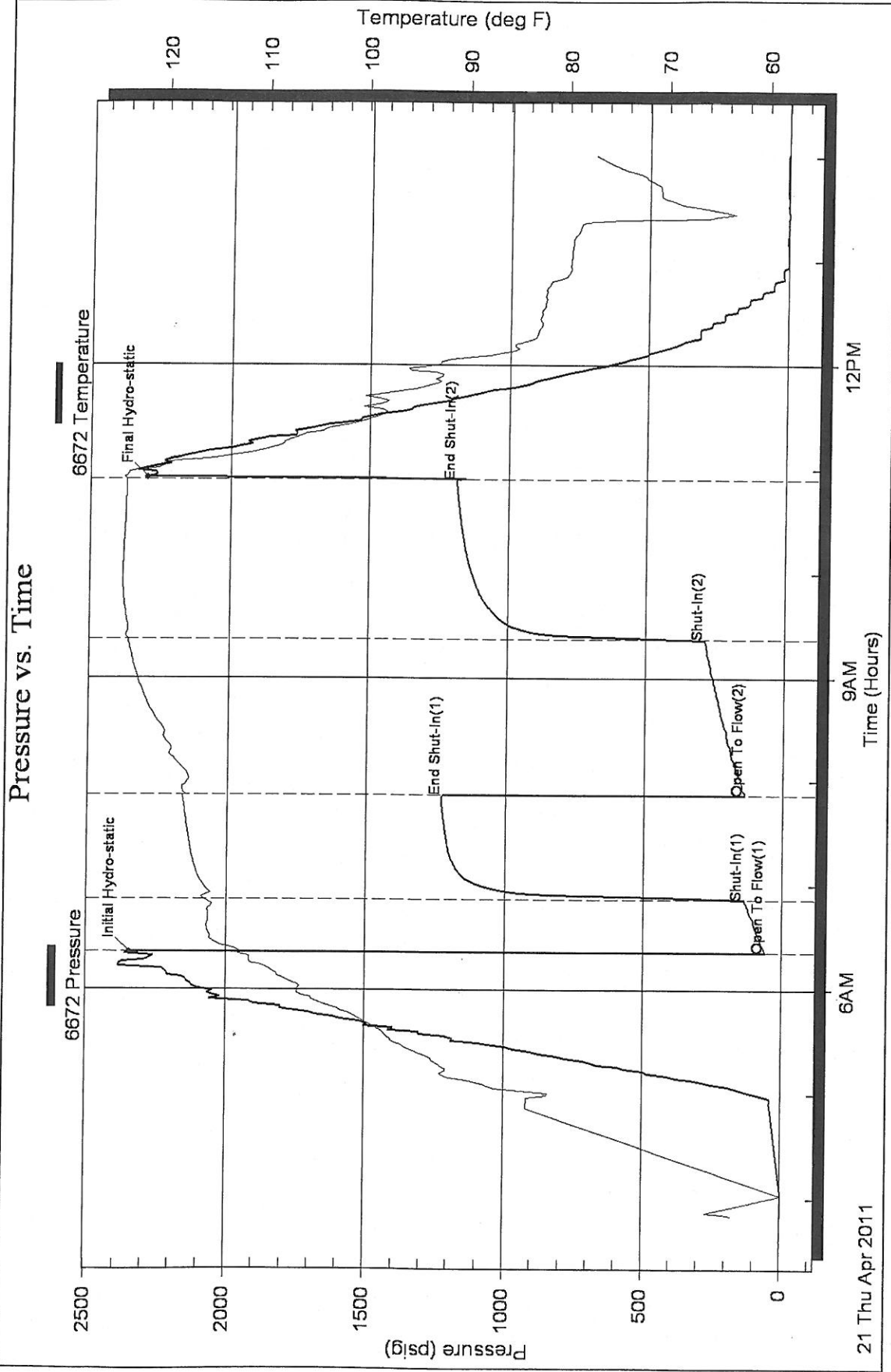
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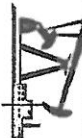
Rickrell Drilling Company Inc

8-24-22 Hodgeman, KS

DST Test Number: 1

### Pressure vs. Time





# JERRY A. SMITH

## CERTIFIED PETROLEUM GEOLOGIST

### GEOLOGIST'S REPORT

### DRILLING TIME and SAMPLE LOG

COMPANY: PICKRELL DRILLING CO., INC.

ELEVATIONS

LEASE: #1 NIETLING "B"

K.B. 2384

FIELD: WILDCAT

D.F.

LOCATION: 330' FSL & 2280' FWL

G.L. 2379

SEC. 8 TWSP. 24

RNG. 22 W

Measurements Are All From:  
KB

COUNTY: HODGEMAN STATE: KANSAS

CONTRACTOR: COMPANY TOOLS RIG #10

CASING

SPUD: 4/13/11

COMP. 4/22/11

SURFACE: 8 5/8" @ 247'

RTD. 4810

LTD. 4810

PRODUCTION: 4 1/2" @ 4800'

MUD UP: 3600

TYPE MUD: CHEMICAL

ELECTRICAL SURVEYS  
SUPERIOR: DIL, H-DG-CNL, SONIC,  
MICRO

API No. 15-083-21698

SAMPLES SAVED FROM: 3800'

TO: RTD

DRILLING TIME KEPT FROM: 3700'

TO: RTD

SAMPLES EXAMINED FROM: 3800'

TO: RTD

GEOLOGICAL SUPERVISION FROM: 3850'

TO: RTD

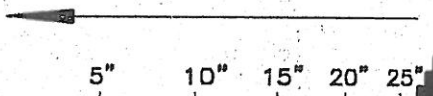
GEOLOGIST ON WELL: JERRY A. SMITH

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1505 (+879)	1505 (+879)
HEEBNER	3976 (-1592)	3977 (-1593)
LANSING	4072 (-1688)	4074 (-1690)
STARK	4319 (-1935)	4321 (-1937)
B/KANSAS CITY	4442 (-2058)	4442 (-2058)
FT. SCOTT	4602 (-2218)	4602 (-2218)
CHEROKEE	4626 (-2242)	4626 (-2242)
MISSISSIPPIAN	4687 (-2303)	4687 (-2303)
MISS. DOLO.	4710 (-2326)	4711 (-2327)

## LEGEND

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

DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration Increases



DEPTH

SAMPLE DESCRIPTIONS

REMARKS

NO GAS DETECTOR  
DST (1) TRILOBITE  
MUD: MUD-CO

S.H.T.'s:

LITHOLOGY

2012 1°  
1037' 1/4° 2512' 1°  
1137' 1/2° 4726' 1 1/4°  
1506' 3/4°

1400

50

1500

50

1600

3700

20

40

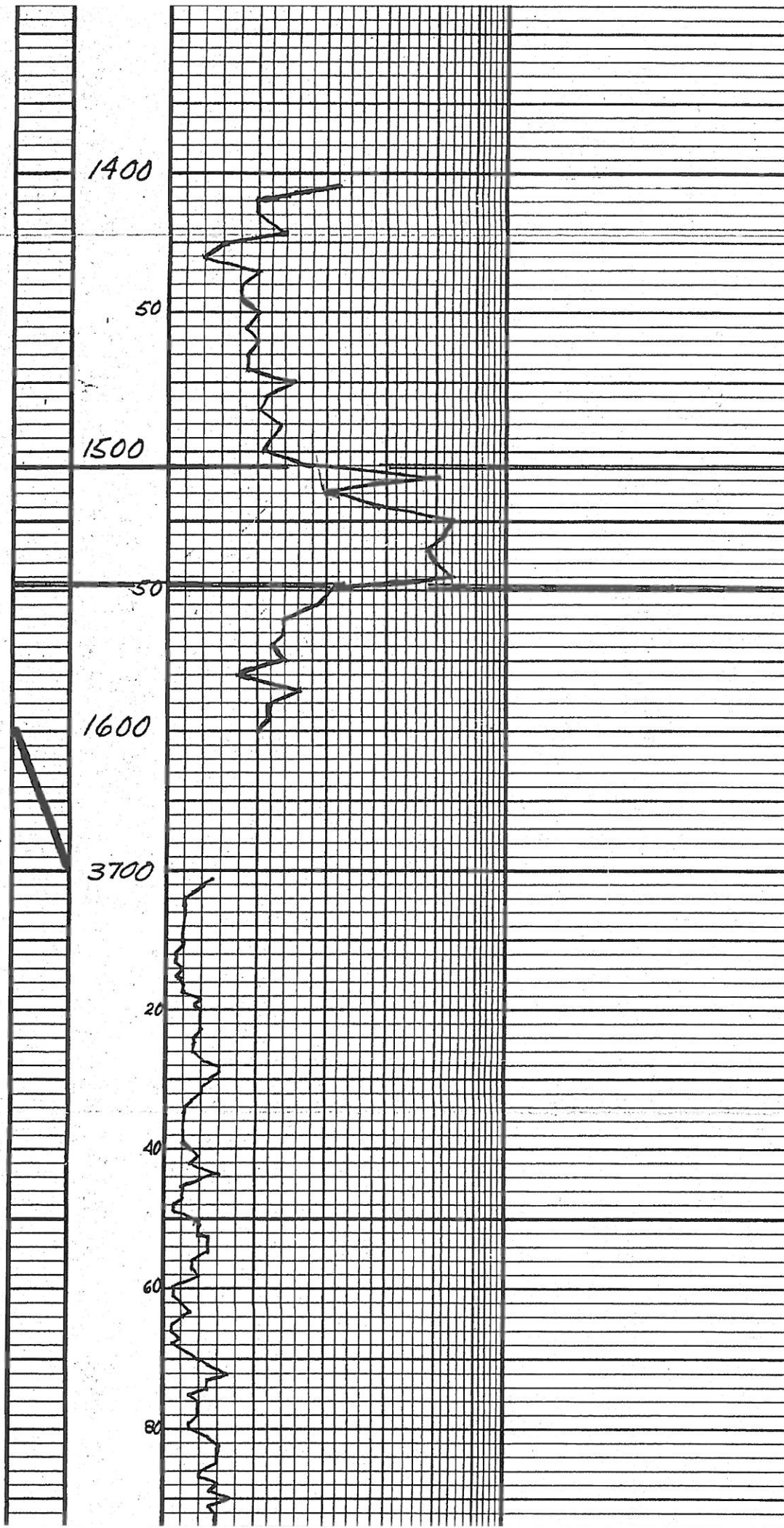
60

80

ANHYDRITE  
1505 (+879) SMPL & LOG

B/ANHYDRITE  
1547 (+837) SMPL & LOG

VERT. LOG SCALE: 5' = 100'



3800

20

40

60

80

3900

20

40

60

80

4000

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE,  
w/ GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, FX, DSE, w/  
GY & RD SH.

LM - CRM, L, GY, FX, DSE, w/  
SCAT, VGT, NS, w/ ABD  
GY, RD SH.

LM - CRM, L, GY, FX, SCAT, FR  
VGT, NS, V SHLY - AA.

SH - GY, GN, RD.

LM - CRM, L, GY, FX, DSE,  
w/ ABD GY, GN, RD SH.

LM - CRM, L, GY, FX, DSE,  
w/ ABD GY, GN, RD SH.

LM - PREDOM SH - GY, GN,  
RD, w/ TR LAM - AA.

LM - SH - AA w/ TR LM -  
AA.

LM - L, M, GY, FX, DSE,  
SH, CHRY IN FF, w/ ABD  
SH - AA.

SH - BLK, CARR.

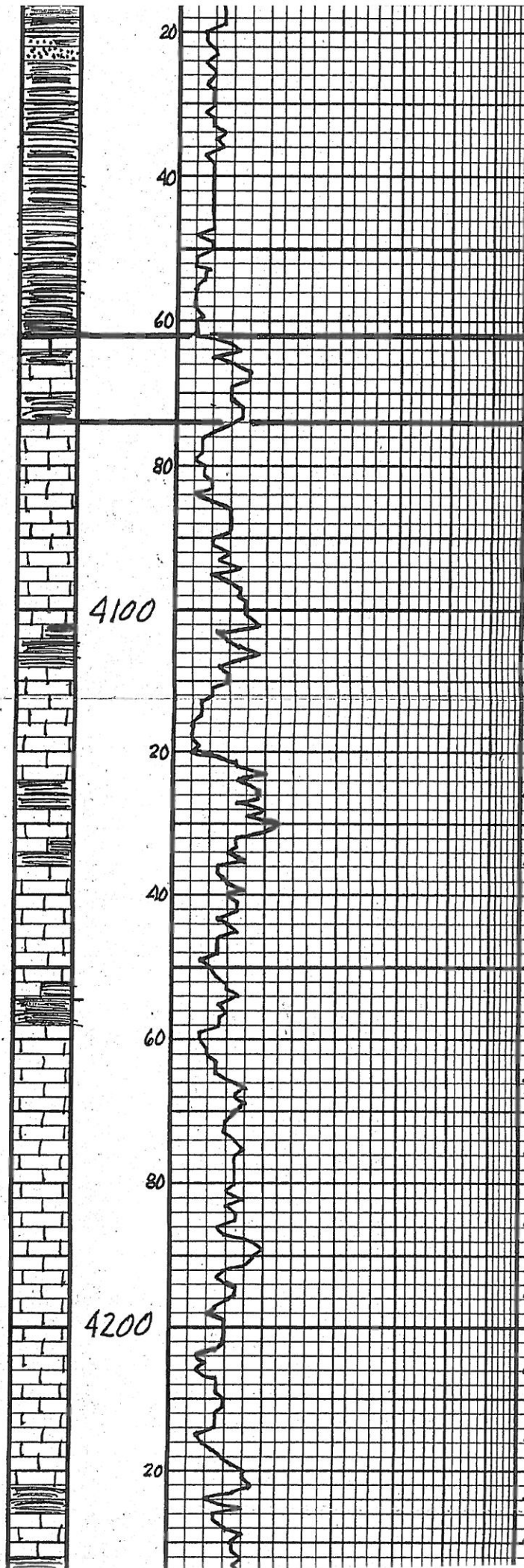
LM - M - DK GY, FX, DSE.

SH - DK GY, GY - GN.

LM - CRM, L, GY, FX, PREDOM  
DSE, SCAT, FR  
VGT, NS, SUB-CHRY  
IN FF.

GM - DU, GV, BV, A, M...

HEEBNER  
3977 (-1593) SMPL  
3976 (-1592) LOG



SH

SD - GY-GN, LF → F.F. M.L. W/B. /  
W. J.P. F.F. / W. P. F.F. → 10.0  
SH - AA.

SH - AA.

SH - AA.

LM - M → DK GY. FX. DSE.

SH - DK GY, GY - GN.

LM - LF GY. FX. Foss. / W. P. /  
SCAT. FR. V.GY. Foss  
M.L. φ. NS.

LM - LF → M GY. FX. Foss  
/ W. P. DSE.

LM - M → DK GY. FX. DSE.  
B.D.

LM - LM - AA w/ ABG DK GY  
SH.

LM - CRM, LF GY. FX.  
CHKY. No Vis. φ.

LM - CRM, LF GY. FX. DSE.

LM - AA w/ M → DK GY SH.

LM - CRM, LF GY. FX.  
DSE.

LM - CRM, LF → M GY.  
FX. / SPSKY Foss  
DSE. w/ W/B. / CHKY  
LM.

LM - AA.

LM - AA.

LM - LF GY. FX. DSE.  
w/ W/B. / CHKY LM.

LM - LF GY. FX. DSE.  
w/ SUB - CHKY LM.

LM - AA.

LM - AA.

SH - BLK, CARB.

LM - M → DK GY. FX. DSE.

SH - BLK, CARB.

BROWN LIME  
4062 (-1678) SMPL  
4060 (-1676) LOG

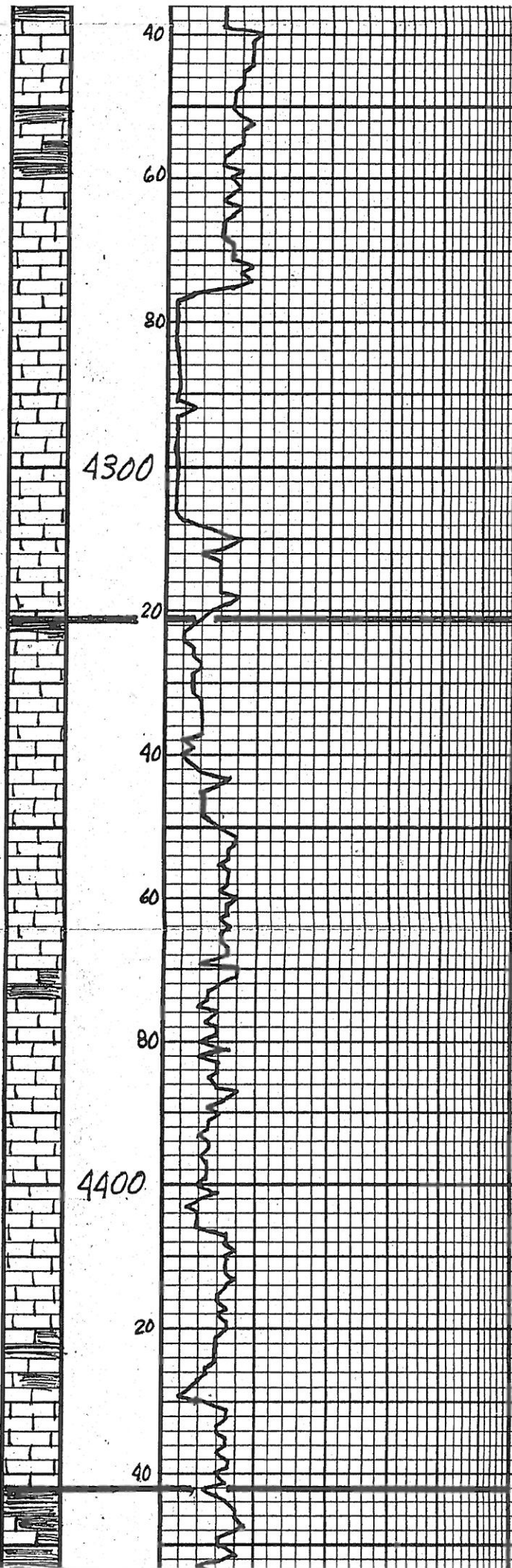
LANSING  
4074 (-1690) SMPL  
4072 (-1688) LOG

MUD @ 4142:  
9.15 WT, 47 VIS, 10.0 FILT,  
5700 CHLOR, 2# LCM

4100

4200





LM - M Gy. FX. DSE -> SAND  
VGY D. NS.

LM - WA, Lt Gy. FX DSE ->  
SUB - CHKY w/ ABD Gy  
UPD, SHE, DSE CONT.

LM - AA w/ ABD Gy, Gy  
RD SH.

LM - Gy. Gen. FX. DSE.  
CHERTY & CHKY.

LM - AA.

LM - Lt -> M Gy. FX. DSE  
w/ GO. COMD D. No  
DOR, NS. No FAVOR.  
TR SAND WA CHKY.

LM - AA. NS.

LM - AA. NS.

LM - Lt -> M Gy. FX. DSE  
-> SUB - CHKY.

LM - Gen. Lt Gy. FX. DSE  
-> SUB - CHKY.

LM - Lt -> M Gy. FX. DSE w/ GO  
COMD D. No DOR. NS. No  
FAVOR.

LM - Lt Gy. Gy - TN. FX.  
COMD TN. NS. w/ WA  
CHKY LM.

LM - AA. MORE DSE. TR  
COMD D. CHKY. NS.

LM - Lt Gy. FX. DSE.  
w/ WA, CHKY LM.  
No V.S. D.

SH - M -> DK Gy. Gen. MAR  
CON. TR BLK SH.

LM - Gen. Lt Gy. FX. DSE  
w/ WA, CHKY LM.

LM - Gen. Gy - TN. FX.  
DSE. CHKY IN FT.

LM - AA w/ ABD Gy, Gy  
RD SH.

LM - Gen. CHKY w/ LM  
Lt Gy. FX. DSE. SH -  
M -> DK Gy. Gy - Gen. RD.

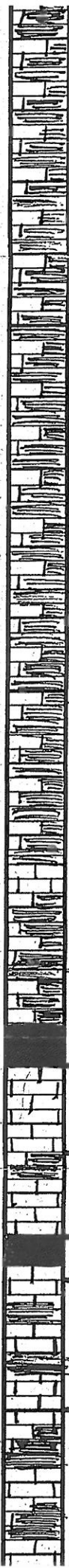
LM & SH - AA.

SH - DK Gy. Gy - Gen.

LM - Gen. Lt Gy. FX. DSE.  
w/ ABD Gy, Gen. RD SH.

STARK  
4321 (-1937) SMPL  
4319 (-1935) LOG

B/KANSAS CITY  
4442 (-2058) SMPL & LOG



4500

4600

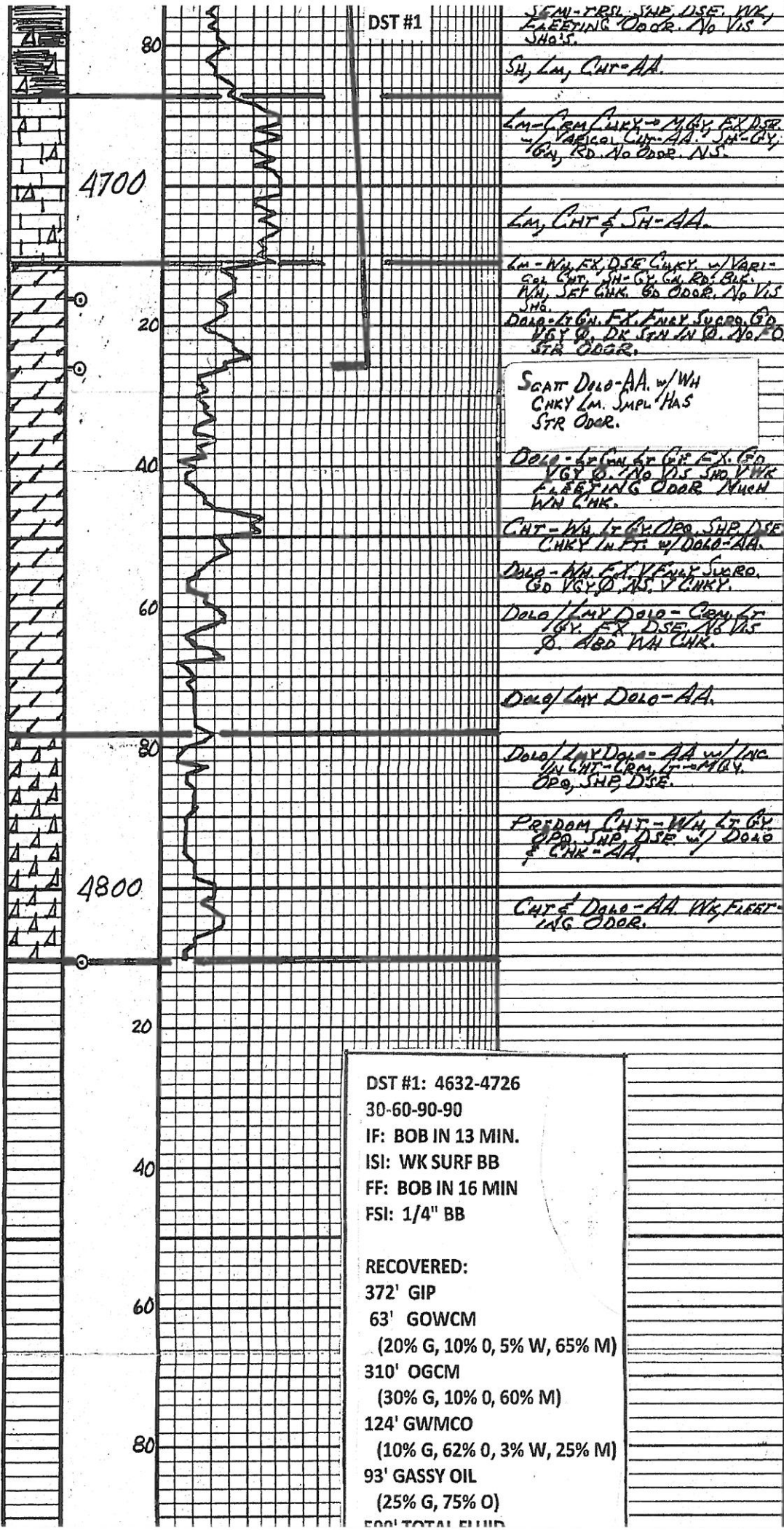
60  
80  
20  
40  
60  
80  
20  
40  
60

LM<sup>2</sup> SH-AA. MUCH SH.  
 LM<sup>2</sup> SH-AA. PREDOM SH.  
 LM<sup>2</sup> SH-AA. PREDOM SH.  
 LM<sup>2</sup> CRM. FX. DSE w/ Gy,  
 GR, RD SH.  
 LM<sup>2</sup> CRM. FX. DSE. w/ RD,  
 Gy, GR SH.  
 LM<sup>2</sup> CRM. FX. DSE. w/ RD,  
 Gy, GR SH.  
 LM<sup>2</sup> CRM. FX. DSE. w/ RD,  
 Gy, GR SH.  
 LM<sup>2</sup> CRM. FX. DSE. w/ RD,  
 Gy, GR SH.  
 LM<sup>2</sup> CRM. FX. DSE. w/ RD,  
 GR, GR SH.  
 LM<sup>2</sup> CRM. FX. DSE. w/  
 RD, Gy, GR SH.  
 LM<sup>2</sup> CRM. FX. CRK. w/ Gy, GR,  
 RD SH.  
 PREDOM RD, GR, Gy SH. w/  
 SCAL LM-AA!  
 SH-BLK, CARR.  
 LM-AA. No VIS Ø. NS.  
 LM<sup>2</sup> MGY FX. DSE.  
 APP DE Gy, Gy-GR SH.  
 LM<sup>2</sup> MGY FX. DSE. w/ SP  
 VGY Ø. GR GR SH. No FO.  
 Wk ODR.  
 SH-BLK, CARR.  
 LM-MGY FX. DSE. SpSLY  
 Foss. No VIS Ø. No ODR.  
 NS.  
 LM-MGY FX. DSE. RARE  
 VGY Ø. NS. VVK, FIET-  
 ING ODR.  
 LM-MGY Gy-JH. FX. DSE.  
 SH-DE Gy, Gy-GR,  
 BLK.  
 LM<sup>2</sup> SH-AA.  
 SH-GY, GR, BLK RD. w/ LM-

FT. SCOTT  
4602 (-2218) SMPL & LOG

CHEROKEE  
4626 (-2242) SMPL & LOG

MUD @ 4632:  
9.4 WT, 40 VIS, 12.4 FILT,  
4000 CHLOR, 1# LCM



DST #1

SEM - TRSL. SHP. DSE. WK. /  
 FLEETING ODR. No VIS  
 SHA'S.

SH, LM, Cur-AA.

MISSISSIPPIAN  
 4687 (-2303) SMPL & LOG

4700

LM - CEM. LUKY - M. BY. FX DSE  
 - VARI. CO. Cur-AA. SH-GY,  
 100, 150. No ODR. N.S.

LM, CHT & SH-AA.

MISS. DOLOMITE  
 4711 (-2327) SMPL  
 4710 (-2326) LOG

20

LM - WH. FX. DSE. LUKY. w/ VARI-  
 CO. CHT. SH-GY. Cur. Red. But.  
 N.M. SET G.M. Go ODR. No VIS  
 SHA.

Dolo - Lt. GY. FX. Enay. Supco. Go  
 VGY. D. DK. TEN. IN. O. No. FO.  
 STR ODR.

PIPE STRAP @ 4726':  
 4734.79 STRAP  
 4732.84 BOARD  
 1.95 LONG

40

SCATT Dolo-AA. w/ WH  
 CHKY LM. SMPL HAS  
 STR ODR.

MUD @ 4726:  
 9.4 + WT, 47 VIS, 10.0 FILT,  
 3000 CHLOR, 1/2 # LCM

60

Dolo - Lt. Cur. Lt. Cur. FX. Go  
 VGY. D. No VIS. SHA. V. WK  
 FLEETING ODR. Much  
 WH CHK.

CHT - WH. Lt. Cur. ODR. SHP. DSE  
 CHKY IN FT. w/ Dolo-AA.

Dolo - WH. FX. V. Enay. Supco.  
 Go VGY. D. AS. V. CHKY.

Dolo / LUKY Dolo - CEM. FX  
 VGY. FX. DSE. No VIS  
 O. AGD. WH CHK.

Dolo / LUKY Dolo-AA.

OSAGE  
 4778 (-2394) SMPL & LOG

4800

Dolo / LUKY Dolo - AA w/ INC  
 IN CHT - CRM. LT - MGY.  
 ODR. SHP. DSE.

FREEDOM CHT - WH. Lt. Cur.  
 ODR. SHP. DSE. w/ Dolo  
 & CHK - AA.

CHT & Dolo - AA. WK. FLEET-  
 ING ODR.

TOTAL DEPTH  
 4810 (-2426) ROTARY & LOG

20

40

60

80

DST #1: 4632-4726  
 30-60-90-90  
 IF: BOB IN 13 MIN.  
 ISI: WK SURF BB  
 FF: BOB IN 16 MIN  
 FSI: 1/4" BB

RECOVERED:  
 372' GIP  
 63' GOWCM  
 (20% G, 10% O, 5% W, 65% M)  
 310' OGCM  
 (30% G, 10% O, 60% M)  
 124' GWMCO  
 (10% G, 62% O, 3% W, 25% M)  
 93' GASSY OIL  
 (25% G, 75% O)  
 500' TOTAL FLUID



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 17, 2011

Larry J. Richardson  
Pickrell Drilling Company, Inc.  
100 S MAIN STE 505  
WICHITA, KS 67202-3738

Re: ACO1  
API 15-083-21698-00-00  
Nietling 'B' 1  
SW/4 Sec.08-24S-22W  
Hodgeman 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,  
Larry J. Richardson