

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs 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 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	CHRISLER 2
Doc ID	1512045

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3336	3350			Acidized w/ 500 gal 15% DemoFe acid
4	3212	3218			Acidized w/ 1000 gal 15% DemoFe acid
4	3127	3131			Acidized w/ 1000 gal 15% DemoFe acid
4	3058	3062			Acidized w/ 1000 gal 15% DemoFe acid
4	3002	3005			Acidized w/ 500 gal 15% NeFe acid
4	2945	2952			Acidized w/ 1000 gal 28% NeFe acid
4	2768	2778			Acidized w/ 1000 gal 28% NeFe acid
4	3078	3081			

GLOBAL OIL FIELD SERVICES, LLC

13940

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>2-6-20</u>	SEC. <u>22</u>	TWP. <u>11S</u>	RANGE <u>16W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>4:00 PM</u>
LEASE <u>Christel</u>	WELL # <u>2</u>	LOCATION <u>North of Walker^{KS} to Need End 1W</u>			COUNTY <u>F11S</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)			<u>North to Rig</u>				

CONTRACTOR Beredra Rig #10
 TYPE OF JOB Long String Surface
 HOLE SIZE 12 1/4 T.D. 987'
 CASING SIZE 8 3/4 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE 500ft left hand survey SHOE JOINT 42.24
 CEMENT LEFT IN CSG.
 PERFS
 DISPLACEMENT

OWNER Pere xco LLC
 CEMENT AMOUNT ORDERED 350sx 65/35 3%cc 2%gel
4" Air Flow 275 3x 6cm 3%cc 2%gel
625sx total

EQUIPMENT
 PUMP TRUCK CEMENTER Cody
 # 417 HELPER Tyson
 BULK TRUCK
 # 416 DRIVER Tom
 BULK TRUCK
 # 374 DRIVER Eddie

COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
 HANDLING @
 MILEAGE @
 TOTAL

REMARKS:
Run 28hrs of 8 3/4 casing + Lt Hooked
to Rig + Brake circulation + Heated to 170 deg
+ pumped 350sx of 65/35 3%cc 2%gel 4" Air Flow
+ 275 3x 6cm 3%cc + 2%gel washed up +
released Plug + Displaced 600bbls of H2O + shut
IN.
Cement 118' Circulate to Surface.

CHARGE TO: Beredra
 STREET
 CITY STATE ZIP

SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 MANIFOLD @
 TOTAL

Global Oil Field 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.

PLUG & FLOAT EQUIPMENT
8 3/4 Rubber Plug / 8 3/4 Bottle Plate
 @
 @
 @
 @
 @
 TOTAL

PRINTED NAME
 SIGNATURE Brendan Baker

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

FEB 13 2020

QUALITY OILWELL CEMENTING INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67150

CHRISLER
WF No. 1892

Date	2-13-20	Sec.	22	Twp.	11	Range	16	County	Ellis	State	KS	On Location		Finish	7:00 PM
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Lease **Chrisler** Well No. **2** Location **Fairport W to the T, 2N to Wiles R**

Contractor **Beredco #10** Owner **BW Von E Kent**
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job **Longstring** Charge To **Beredco LLC**

Hole Size **7 7/8"** T.D. **3500'**
Csg. **5 1/2" New 14#** Depth **3477'**

Tbg. Size Depth City State
Tool Depth
Cement Left in Csg. **85'** Shoe Joint **85'**

Meas Line Displace **83 Bcs** Cement Amount Ordered **125 5x 6 3/4 Lile 1/4# Flowseal**
225 Com 2% Gel 10% Salt 5% G^o Bonite

EQUIPMENT

Pumptrk	17	No.	Cementer	Helper	Tim	Rock	Common
Bulktrk	15	No.	Driver	Driver	Tony		Poz. Mix
Bulktrk	9	No.	Driver	Driver	Lance		Gel.
							Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30 5x	Salt
Mouse Hole 30 5x	Flowseal
Centralizers 1, 3, 5, 6, 7, 9-14, 16, 17, 18, 55	Kol-Seal
Baskets pipe on bottom, break circulation	Mud CLR 48
D/V or Port Collar plug Rathole w/ 30 5x	CFL-117 or CD110 CAF 38
mix 95 5x Lile Cement, followed	Sand
by 225 5x Com 2% Gel 10% Salt 5%	Handling
G^o Bonite, shut down wash pump	Mileage

FLOAT EQUIPMENT

+lines Displaced plug w/ 53 Bl	Guide Shoe Limit Clamp
Released + held.	Centralizer 15
	Baskets
Lift pressure 1000 #	AFU Inserts
Land plug to 1600 #	Float Shoe 1
	Latch Down 1

Pumptrk Charge
Mileage

Signature **[Handwritten Signature]** Tax
Discount
Total Charge



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC

22 - 11 - 16W

2020 Bramblewood
Wichita Ks 67206

Chrisler #2

Job Ticket: 66350

DST#: 1

ATTN: Jerry Smith

Test Start: 2020.02.11 @ 18:39:00

GENERAL INFORMATION:

Formation: **LKC - I & J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:52:00

Time Test Ended: 01:59:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #77

Interval: 3170.00 ft (KB) To 3216.00 ft (KB) (TVD)

Reference Elevations: 1825.00 ft (KB)

Total Depth: 3216.00 ft (KB) (TVD)

1819.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

Serial #: 8671 Outside

Press@RunDepth: 99.06 psig @ 3171.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.02.11 End Date: 2020.02.12

Last Calib.: 2020.02.12

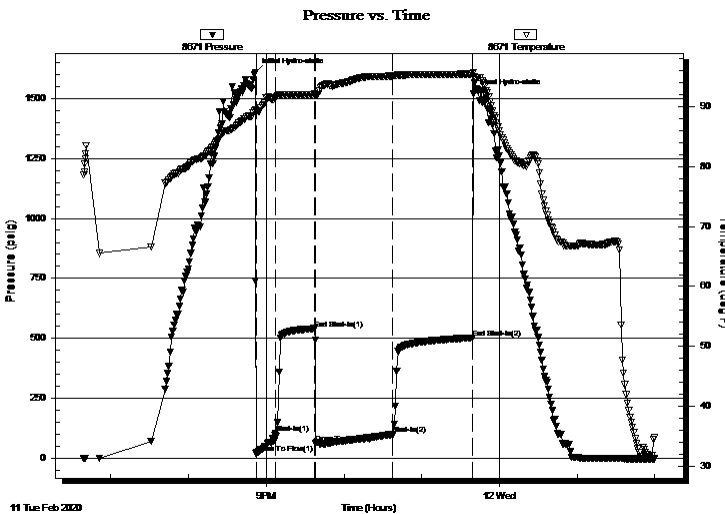
Start Time: 18:39:05 End Time: 01:59:44

Time On Btm: 2020.02.11 @ 20:51:30

Time Off Btm: 2020.02.11 @ 23:39:45

TEST COMMENT: 15 - IF - Blow built up to 6"
30 - ISI - No Return
60 - FF - Blow built to B.o.B. in 25 mins and built up to 20"
60 - FSI - Faint return started in 5 mins and built up to 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.68	89.43	Initial Hydro-static
1	19.19	89.01	Open To Flow (1)
16	103.77	91.42	Shut-In(1)
46	540.24	92.05	End Shut-In(1)
47	63.60	91.89	Open To Flow (2)
106	99.06	95.11	Shut-In(2)
168	502.34	95.42	End Shut-In(2)
169	1518.65	95.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCMW - 20%o - 30%m - 50%w	0.96
77.00	hMCWO - 40%o - 20%m - 40%w	0.79

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

22 - 11 - 16W

2020 Bramblewood
Wichita Ks 67206

Chrisler #2

Job Ticket: 66350

DST#: 1

ATTN: Jerry Smith

Test Start: 2020.02.11 @ 18:39:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	OCMW - 20%o - 30%m - 50%w	0.958
77.00	hMCWO - 40%o - 20%m - 40%w	0.790

Total Length: 201.00 ft Total Volume: 1.748 bbl

Num Fluid Samples: 0

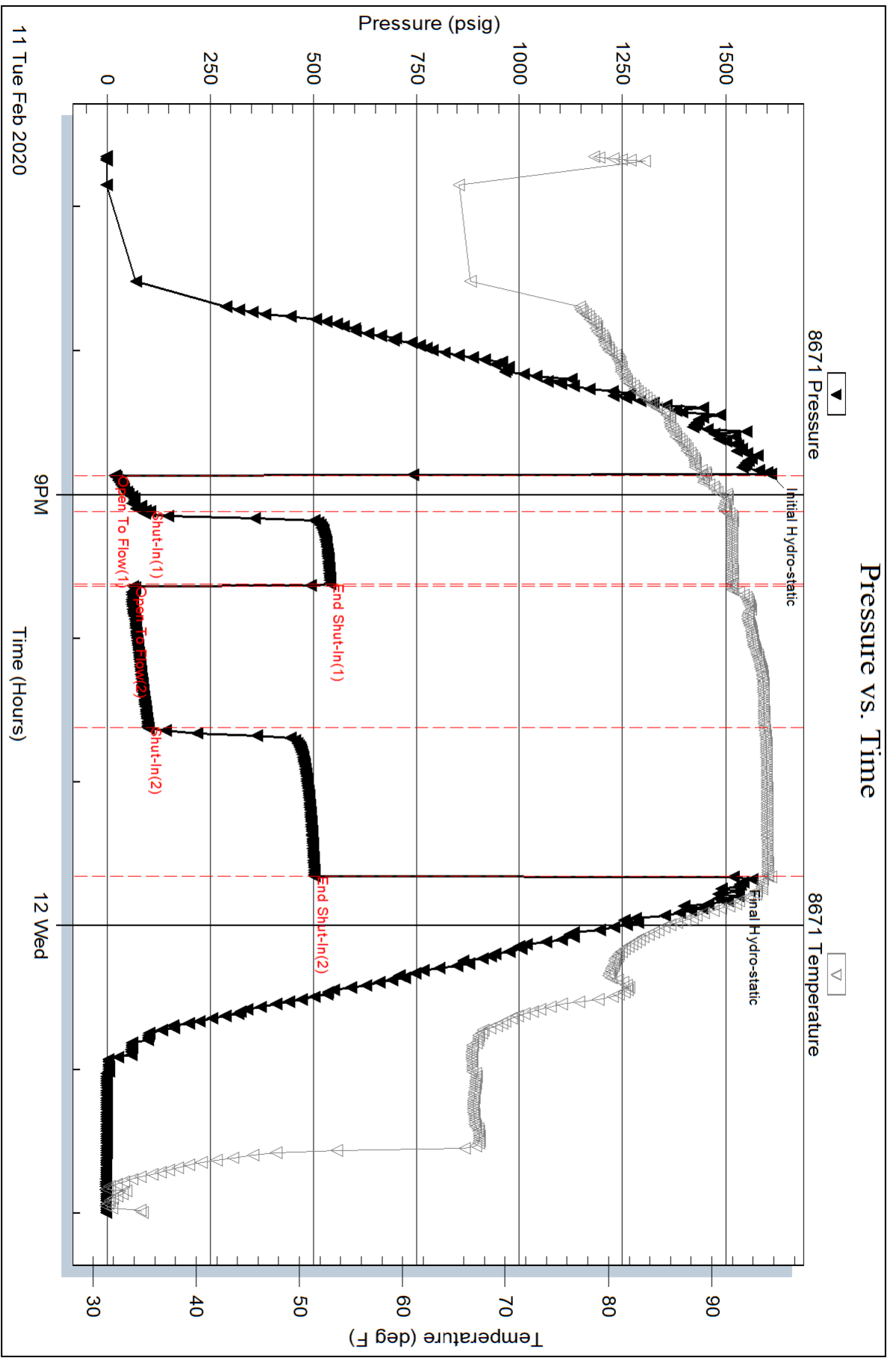
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



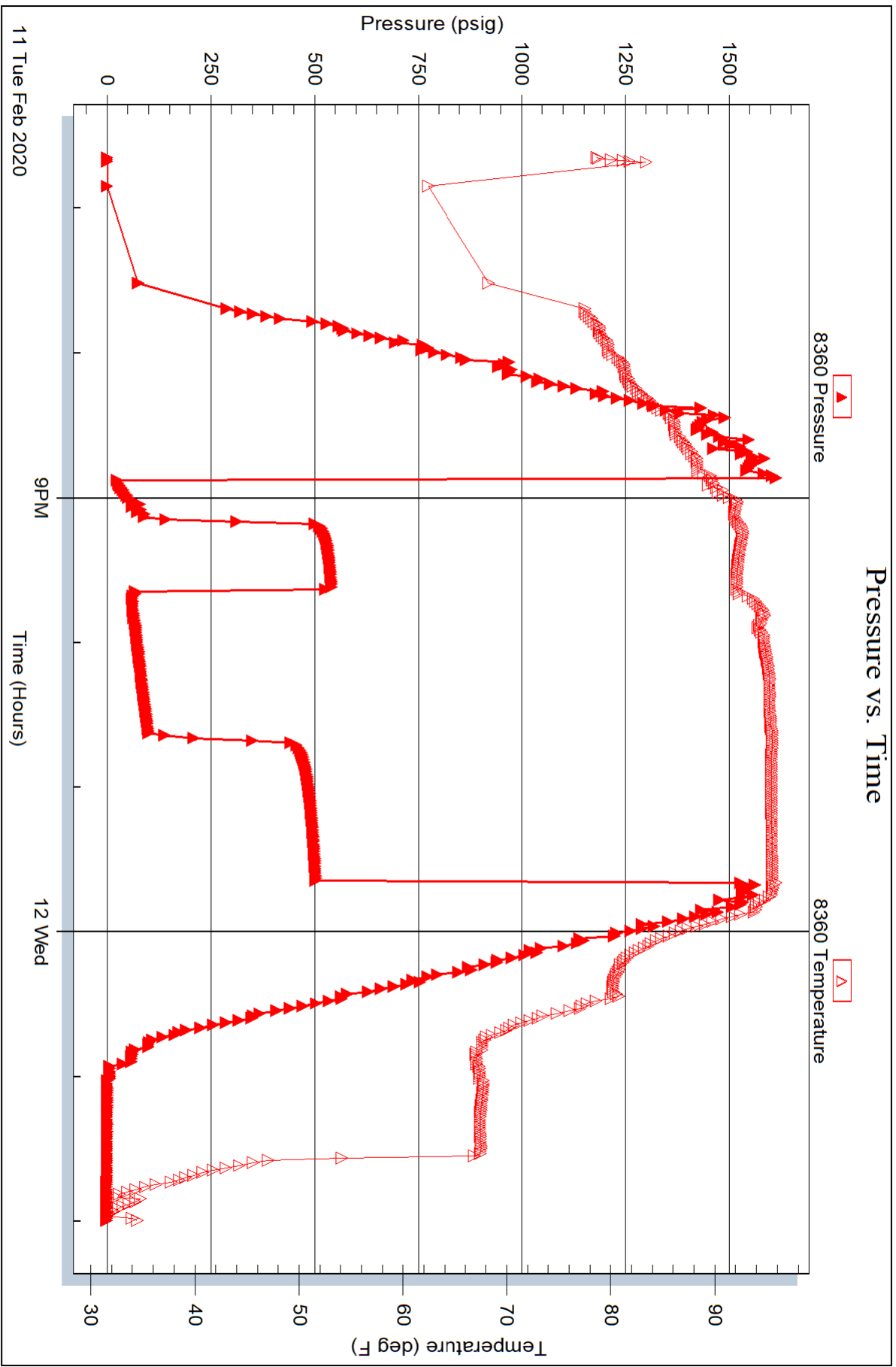
Serial #: 8360

Inside

Berexco, LLC

Chrysler #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66350

Printed: 2020.02.12 @ 08:19:02



JERRY A. SMITH

CERTIFIED PETROLEUM GEOLOGIST

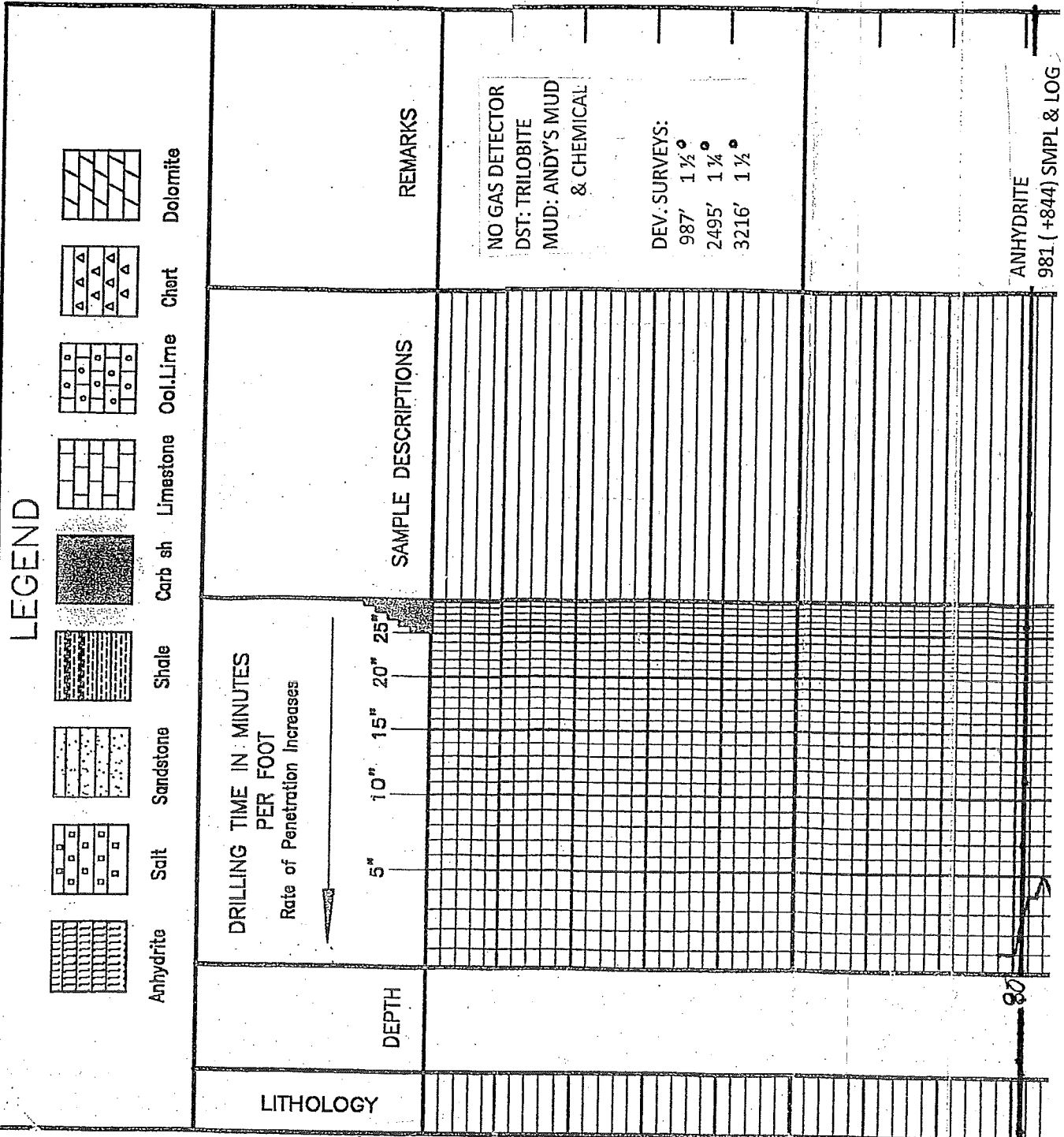
GEOLOGIST'S REPORT DRILLING TIME and SAMPLE LOG

COMPANY: BEREXCO LLC			ELEVATIONS
LEASE: CHRISLER #2			K.B. 1825 <i>1826</i>
FIELD: CHRISLER			D.F.
LOCATION: 1240' FSL & 930' FWL			G.L. 1819
SEC. 22	TWSP. 11	RNG. 16W	Measurements Are All From: KB
COUNTY: ELLIS		STATE: KANSAS	

CONTRACTOR: CO. TOOLS RIG #10		CASING
SPUD: 02/05/2020	COMP. 02/13/2020	SURFACE: 8 5/8" @ 982'
RTD. 3500	LTD. 3500	PRODUCTION: 5 1/2" @ 3483'
MUD UP: 2496	TYPE MUD: CHEMICAL	ELECTRICAL SURVEYS
API No. 15-051-26982		STEP: GRT, NDT, CNT, MST. PIT

SAMPLES SAVED FROM: 2600	TO: RTD
DRILLING TIME KEPT FROM: 2500	TO: RTD
SAMPLES EXAMINED FROM: 2600	TO: RTD
GEOLOGICAL SUPERVISION FROM: 2450	TO: RTD
GEOLOGIST ON WELL: JERRY A. SMITH	

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	981 (+844)	981 (+844)
TOPEKA 35' ZN.	2768 (-943)	2765 (-940)
PLATTSMOUTH	2956 (-1131)	2956 (-1131)
HEEBNER	2981 (-1156)	2980 (-1155)
TORONTO	3002 (-1177)	3000 (-1175)
LANSING	3030 (-1205)	3030 (-1205)
B/KANSAS CITY	3270 (-1445)	3268 (-1443)
ARBUCKLE	3382 (-1557)	3381 (-1555)



ANHYDRITE
981 (+844) SMPL & LOG

B/ANHYDRITE
1015 (+810) SMPL
1016 (+809) LOG

BIT TRIP @ 2495'
STRAP = 2503.35
BOARD = 2502.45
.90 LONG

VERT. LOG SCALE: 5" = 100'

START SAMPLES @ 2600'

SH-47 → M Gy.
LA-47 → M Gy. FX. DSE.

SH-47 → M → DR Gy.

SH-47 → M → DR Gy. Gy.
Gy. N.

LA-47 → M Gy. FX. DSE.

SH-47 → M Gy. FX. DSE.
DSE. Gy.

SH-47 → M Gy. Gy. Gy. N.
LA-47 → M Gy. FX. DSE.

LA-47 → M Gy. Gy. Gy. FX.
DSE.

LA-47 → M Gy. FX. DSE.

LA-47 → M → AA.

LA-47 → M → AA.

80

1000

20

2500

20

40

60

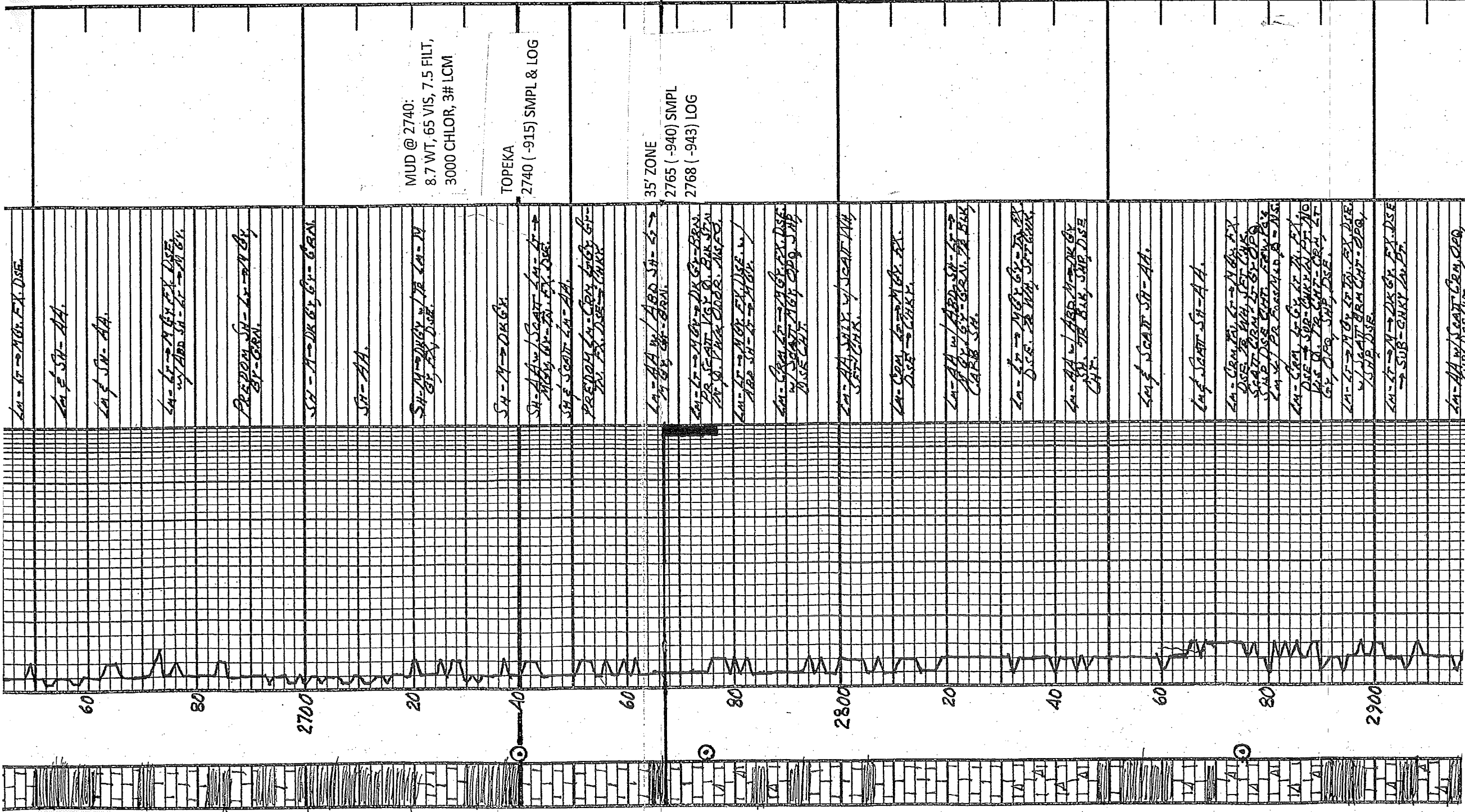
80

2600

20

40

60



LA-17 → MGR. EX. DISE.

LA-18 SH-AA.

LA-19 SH-AA.

LA-20 → MGR. EX. DISE.
w/ APP. SH-17 → MGR. EX.

PREPOM SH-LA → MGR. EX.
BY-CRN.

SH-1 → MGR. EX. CRN.

SH-AA.

SH-17 → MGR. EX. CRN.
BY EX. DISE.

SH-17 → MGR. EX.

SH-AA w/ SCAT. SH-17 →
MGR. EX. DISE.

PREPOM SH-CRN. SH-17 →
MGR. EX. DISE. MGR. EX.

LA-17 → MGR. EX. CRN.
BY EX. DISE.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-CRN. SH-17 → MGR. EX.
BY EX. DISE.

LA-AA w/ APP. SH-17 →
MGR. EX. DISE.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-AA w/ APP. MGR. EX.
BY EX. DISE.

LA-17 → MGR. EX. CRN.
BY EX. DISE.

LA-17 → MGR. EX. CRN.
BY EX. DISE.

LA-CRN. SH-17 → MGR. EX.
BY EX. DISE. MGR. EX.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-17 → MGR. EX. CRN.
BY EX. DISE. MGR. EX.

LA-AA w/ SCAT. CRN. CRN.
BY EX. DISE.

MUD @ 2740:
8.7 WT, 65 VIS, 7.5 FILT,
3000 CHLOR, 3# LCM

TOPEKA
2740 (-915) SMPL & LOG

35' ZONE
2765 (-940) SMPL
2768 (-943) LOG

2700

20

40

60

80

2800

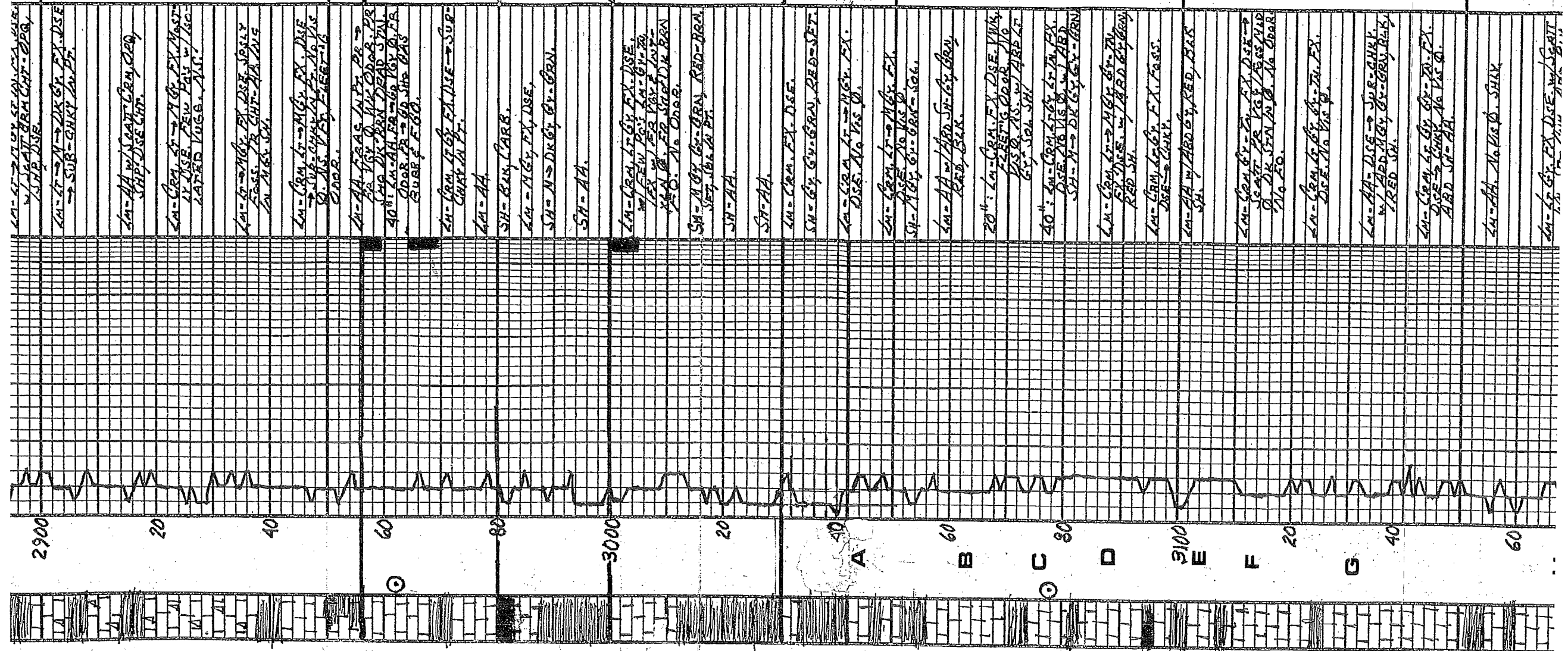
20

40

60

80

2900



LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-AA.

SH-BRM. LABB.

LA-M. GR. EX. DSE.

SH-M. GR. EX. DSE.

SH-AA.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

SH-M. GR. EX. DSE.

SH-AA.

SH-AA.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

SH-M. GR. EX. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

SH-M. GR. EX. DSE.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

SH-M. GR. EX. DSE.

20": LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

40": LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-CR. LT. GR. EX. DSE. VIB. W/ CAT. BRM CH. - OPP. SMP. DSE.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

LA-AA. W/ CAT. BRM CH. - OPP. SMP. DSE. VIB.

PLATTSMOUTH
2956 (-1131) SMPL & LOG

HEEBNER
2980 (-1155) SMPL
2981 (-1156) LOG

TORONTO
3000 (-1175) SMPL
3002 (-1177) LOG

LANSING
3030 (-1205) SMPL & LOG

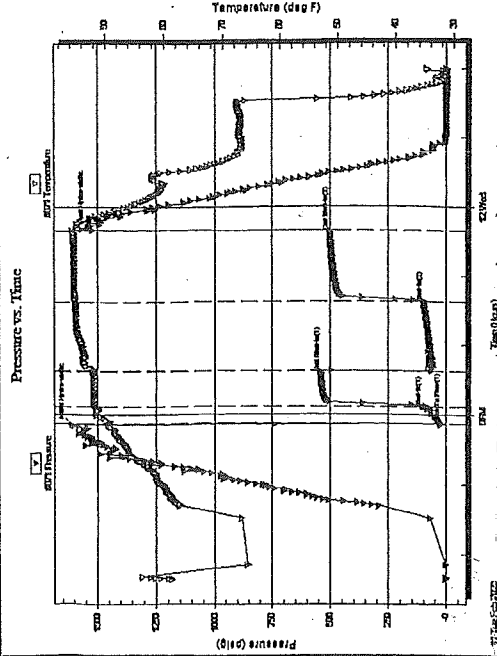
GENERAL INFORMATION:

Formation: LKC - I & J ft (KB)
 Deviated: No Whipstock:
 Time Tool Opened: 20:52:00
 Time Test Ended: 01:59:45
 Interval: 3170.00 ft (KB) To 3216.00 ft (KB) (TVD)
 Total Depth: 3216.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #77
 Reference Elevations: 1825.00 ft (KB)
 1819.00 ft (GF)
 6.00 ft
 KB to GRVCF:

Serial #: 8671 Outside
 Press@RunDepth: 99.06 psig @ 3171.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.02.11 End Date: 2020.02.12 Last Calib.: 2020.02.12
 Start Time: 18:39:00 End Time: 01:59:45 Time On Bit: 2020.02.11 @ 20:51:30
 Time Off Bit: 2020.02.11 @ 23:39:45

TEST COMMENT: 15 - IF - Blow built up to 6"
 30 - ISI - No Return
 60 - FF - Blow built to B.o.B. in 25 mins and built up to 20"
 60 - FSI - Faint return started in 5 mins and built up to 1"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.68	89.43	Initial Hydro-static
1	19.19	89.01	Open To Flow (1)
16	103.77	91.42	Shut-In(1)
46	540.24	92.05	End Shut-In(1)
47	63.60	91.89	Open To Flow (2)
106	99.06	95.11	Shut-In(2)
168	502.34	95.42	End Shut-In(2)
169	1518.65	95.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCMW - 20%o - 30%m - 50%w	0.96
77.00	OCMW - 40%o - 20%m - 40%w	0.79
62.00	GIP	
201.00	TF	

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 66350

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