

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	Bear Petroleum, LLC
Well Name	STEJSKAL 1
Doc ID	1416626

All Electric Logs Run

Geologic Report
Compensated Density/Neutron PE Log
Micro Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Bear Petroleum, LLC
Well Name	STEJSKAL 1
Doc ID	1416626

Tops

Name	Top	Datum
Herington	2190	-78
Winfield	2246	-134
Towanda	2313	-201
Topeka	3436	-1324
Heebner	3628	-1516
Lansing	3682	-1570
Base KC	4050	-1940
Mississippi	4266	-2154
Viola	4374	-2262
Arbuckle	4496	-2384



FIELD ORDER N° C 46115

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 3-6 20 18

IS AUTHORIZED BY: Bear Petroleum LLC
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well _____
As Follows: Lease Stejskal Stejskal Well No. 1 Customer Order No. _____

Sec. Twp. Range 16-215-20W County PAWNEE State Ks.

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator

By

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	45	Mileage, Pickup	2.00	90.00
2	45	Mileage, Pump Truck	4.00	180.00
2	1	Pump Chg. 8 7/8" SURFACE	1100.00	1100.00
2	1	8 7/8" Raffle Plate	105.00	105.00
2	1	8 7/8" WOODEN PLUG	65.00	65.00
2	300 _{ex}	65 - 35 Poz. 2% Gel	10.75	3225.00
2	250 _{ex}	60 - 40 Poz 2% Gel	10.75	2687.50
2	11 _{ex}	ADDITIONAL GEL	22.00	242.00
2	29 _{ex}	CALCIUM CHLORIDE	30.00	870.00
2	590 _{ex}	Bulk Charge	1.25	737.50
2	45	Bulk Truck Miles $25.51 = 114 \times 7.95 = 905.85$		1262.75
		Process License Fee on Gallons		
TOTAL BILLING				10,564.75

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative DUANB PROZOK

Station GT. BENA, Ks.

DICK SCHREMMER
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

TREATMENT REPORT

Acid Stage No.

Date: 3-6-18 District: Gr Pe rd F. O. No. 46115
 Company: Beck Petroleum LLC
 Well Name & No.: St-11-101
 Location: 16-215-30W Field:
 County: PAWNEE State: KS.

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown:	Bbl. /Gal.			
	Bbl. /Gal.			
	Bbl. /Gal.			
	Bbl. /Gal.			
Flush	Bbl. /Gal.			
Treated from	ft. to	ft.	No. ft.	
	ft. to	ft.	No. ft.	
	ft. to	ft.	No. ft.	

Casing: Size 8 7/8 Type & Wt. 4.1247' Set at ft.
 Formation: Perf. to
 Formation: Perf. to
 Formation: Perf. to
 Liner: Size Type & Wt. Top at ft. Bottom at ft.
 Cemented: Yes/No. Perforated from ft. to ft.
 Tubing: Size & Wt. Swung at ft.
 Perforated from ft. to ft.
 Open Hole Size ft. P.B. to ft.

Actual Volume of Oil/Water to Load Hole: Bbl. /Gal.

Pump Trucks No. Used: Std 300 Sp. Twin
 Auxillary Equipment 360 - 308T
 Packer: Set at ft.
 Auxillary Tools DUANDE GREG MIKE
 Plugging or Sealing Materials: Type Gal. lb.

Company Representative _____

Treater DUANDE

TIME a.m /p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
3:00				ON LOC.
:				
:			10	BREAK CIR.
:			0	MIX CMT
:				
:	300		141	CMT MIXED
:		0	0	START DISP.
:	600		77	PLUG DIDN'T LAND PUMPED 83 THIS PLUG
:				DIDN'T LAND LET 5 BBL BACK CLOSE WELL (1)
8:00				Job Complete.



FIELD ORDER N^o C 46118

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 3-18 2018

IS AUTHORIZED BY: Bear Petroleum LLC
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease 1 Stejskal Well No. 1 Customer Order No. _____

Sec. Twp. Range 16-21s-20w County PAWNEE State Ks.

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	45	Mileage Pickup	2.00	90.00
2	45	Mileage Pump TRUCK	4.00	180.00
2	2	Pump Chg. Longstring	1600.00	3200.00
2	450 ^{5x}	60-40 Poz 2% Gel	10.75	4837.50
2	2400 lbs	SALT	.25	600.00
2	1000 lbs	Gilsonite	.75	750.00
2	750 lbs	C-47	8.15	1275.00
2	300 lbs	C-41P	2.75	1125.00
2	100 lbs	C-37	4.00	400.00
2	50 lbs	C-12	6.00	300.00
2	600 GAL	MUD FLUSH	.75	450.00
2	7	CENTRALIZERS TURBO	85.00	595.00
2	3	BASKETS	155.00	465.00
2	1	D.V. Tool w/ Plugs	2450.00	2450.00
2	1	5 1/2" Float Shoe w/Auto Fill	355.00	355.00
2	538	Bulk Charge	1.25	672.50
2	45	Bulk Truck Miles $21.20 \times 45 = 999 \times 1.10 =$		1098.90
		Process License Fee on _____ Gallons		
		TOTAL BILLING		18,843.90

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Duane Brozek

Station Gt. Bend, Ks.

Duane Brozek

DICK S.

Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

TREATMENT REPORT

Acid Stage No.

Date 3-18-18 District Gr. Bend F. O. No. 46117
 Company BEAR PETROLEUM LLC
 Well Name & No. Step 1 Stejskal
 Location 16-215-20W Field _____
 County PAWnee State KS.

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand
 Bkdown Bbl./Gal.
 Bbl./Gal.
 Bbl./Gal.
 Bbl./Gal.
 Flush Bbl./Gal.
 Treated from ft. to ft. No. ft.
 from ft. to ft. No. ft.
 from ft. to ft. No. ft.

Casing: Size 5 1/2 Type & Wt. 15.50 Set at 4543' ft.
 Formation: Perf. to
 Formation: Perf. to
 Formation: Perf. to
 Liner: Size Type & Wt. Top at ft. Bottom at ft.
 Cemented: Yes/No. Perforated from ft. to ft.
 Tubing: Size & Wt. Swung at ft.
 Perforated from ft. to ft.
 Open Hole Size T. I. ft. P. B. to ft.

Actual Volume of Oil/Water to Load Hole: Bbl./Gal.
 Pump Trucks. No. Used: Std. 345 Sp. Twin
 Auxiliary Equipment 360-310T
 Packer: Set at ft.
 Auxiliary Tools Duane Tim Greg Alan
 Plugging or Sealing Materials: Type Gal. lb.

Company Representative DICK S. Treater Duane

TIME a.m / p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
4:00				ON LOC
:				Hole 4546' Centralizers 1-3-5-7-9-44-47
:				Pipe 4543' BASKETS 4-11-45
:				Baffle 4510.30
:				SHOE JOINT 37.91
:				D.V. 2624.86 Joint 46
:				Tag Bottom with Pipe Pickup 3' & CIR FOR 30 MINUTES
13:10		1010		Dump 600 gal's MUD Flush
:				Mix 300sx 60-40 Poz 2% Gel, 75% C-47, 75% C-41P
:				12% SALT 5% SX GILSOVITE
:				WASH OUT PUMP LINES
:		1500		DISA W/ 107.37 BBLS 600# Plug Landed 1500#
:		0		Release Psi Flat Held DROP opening tools for
:		1400		D.V. Tool wait 10 min Psi up 1400# Tool opened
:				CIR FOR 30 MIN. Plug Rat hole w/ 30sx &
:				mouse hole w/ 20sx
:				Mix 300sx 60-40 Poz 2% Gel, 5% C-37, 25% C-12,
:				75% C-41P 12% SALT
:		1500		DISA 69.47 BBLS @ 500# Plug DOWN Psi up 1500#
:		0		Release Psi
2:30				TOO COMPLETE

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: STEJSKAL #1
Location: PAWNEE COUNTY, KANSAS USA
Licence Number:
Spud Date: 3/5/2018
Surface Coordinates: NE NE SECTION 16 T21S-R20W
Region:
Drilling Completed: 3/18/2018

Bottom Hole
Coordinates:
Ground Elevation (ft): 2006
Logged Interval (ft): 2200 To: 4549
Formation:
Type of Drilling Fluid: MI DRILLING FLUIDS
K.B. Elevation (ft): 2012
Total Depth (ft): 4549

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

OPERATOR

Company: Bear Petroleum LLC
Address: P.O. Box 438
Haysville, Kansas 67060

MUDLOGGER

Name: Rod Andersen
Company: Kansas Petroleum Resources, LLC
Address: 100 S. Main Suite 225
Wichita, KANSAS 67292

ROCK TYPES

	Anhy		Oolitic ls -1		Salt		Grn sh strk		Calc shale
	Brec		Stgensndy-1		Sndy sh--reg		Lmy sh-2		Granitewash
	Cht		New ls-1		Sndy sh		Grn mott gy		Ls shly-b
	Coal		Carby shale		Sltst-1		Shale-1		Poor sortd ss
	Congl		Lmy carby		Sity-shale		Red sh-1		Snd-ls-sh
	Dolo new		Carb sh		Lmy ss-1		Stgensndy-arkos		
	Newdolo ls		Gyp		Arkosic snd		Sndy ool ls		
	Ls & ooids		Sltst		Ss		Sndy-ls-1		

ACCESSORIES

LITHOLOGY

- Anhy
- Brec
- Cht
- Coal
- Congl
- Dolo new
- Newdolo ls 2
- Ls & ooids
- Oolitic ls -1
- Stgensndy-arkos
- New ls-1
- Carby shale
- Lmy carby sh-3
- Carb sh
- Gyp
- Sltst
- Salt
- Sndy sh--red
- Sndy sh
- Sltst-1
- Sltly-shale
- Lmy ss-1
- Arkosic snd
- Ss
- Grn sh strk
- Lmy sh-2

- Grn mott gy sh
- Shale-1
- Red sh-1
- Stgensndy-arkos
- Sndy ool ls
- Sndy-ls-1
- Calc shale
- Granitewash
- Ls shly-b
- Poor sortd ss
- Snd-ls-sh

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro

- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- New dolostringer
- Dol
- Fldspr-1
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin

- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Qtz
- New symbol
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Styolitic
- Slickenside

STRINGER

- Anhy
- Red sh stringer
- Arg
- Bent
- Coal
- Dol
- Gyp
- Oolls-1
- Ls

- Mrst
- Sltstrg
- Ssstrg
- Grn sh strk

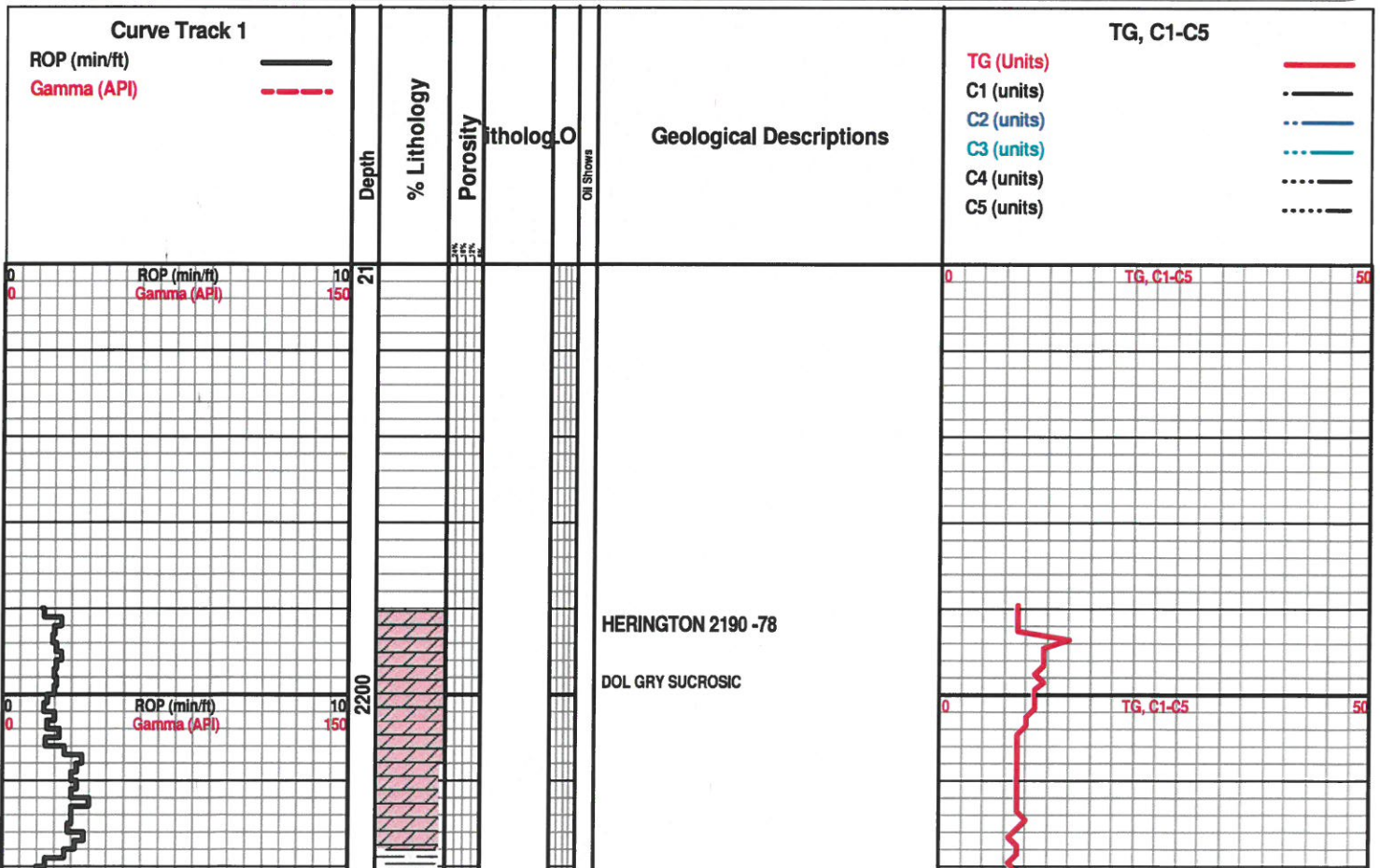
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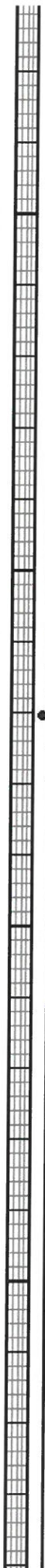
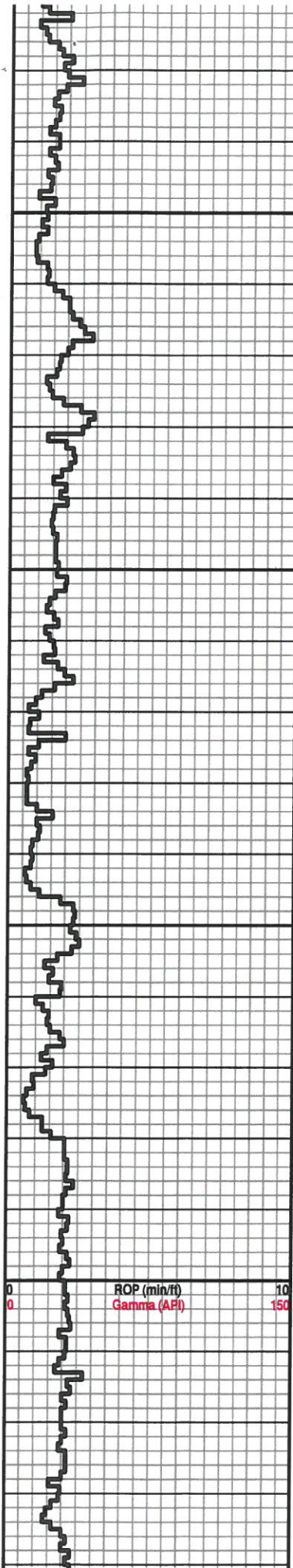
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- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackst

OIL SHOW

- Even
- Spotted
- Ques
- Dead

Comments





SH GRY

WINFIELD 2246 -134

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SH GRY

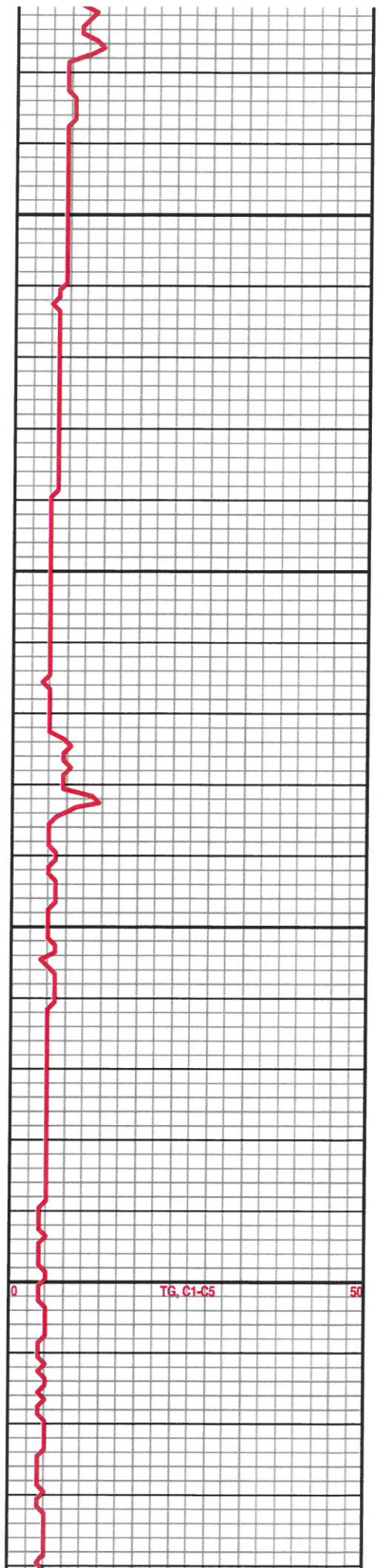
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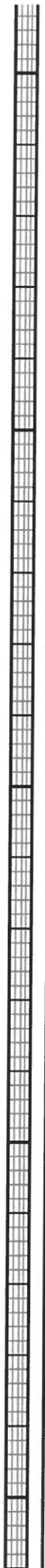
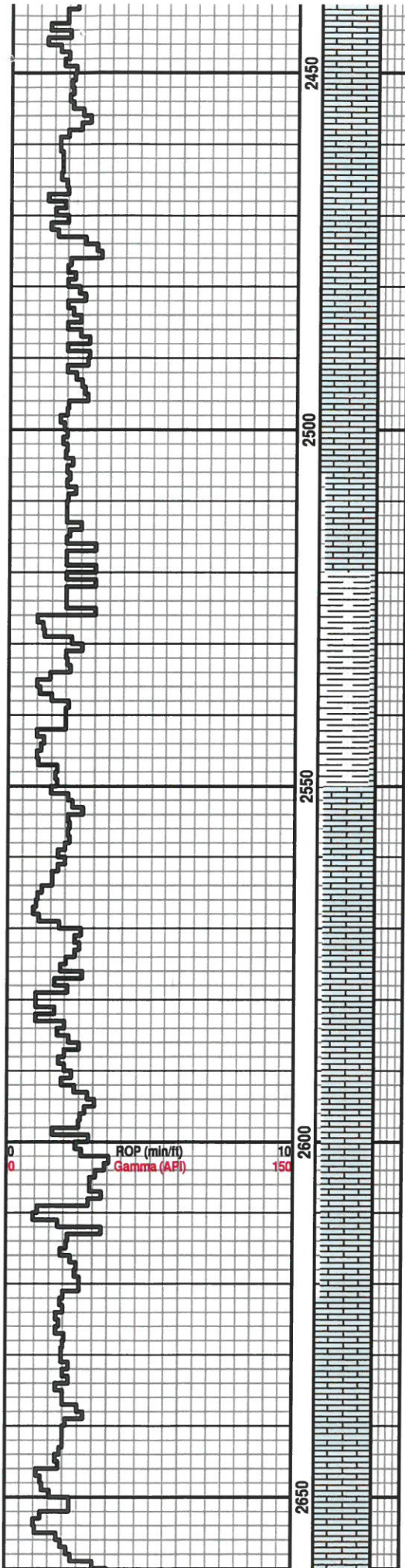
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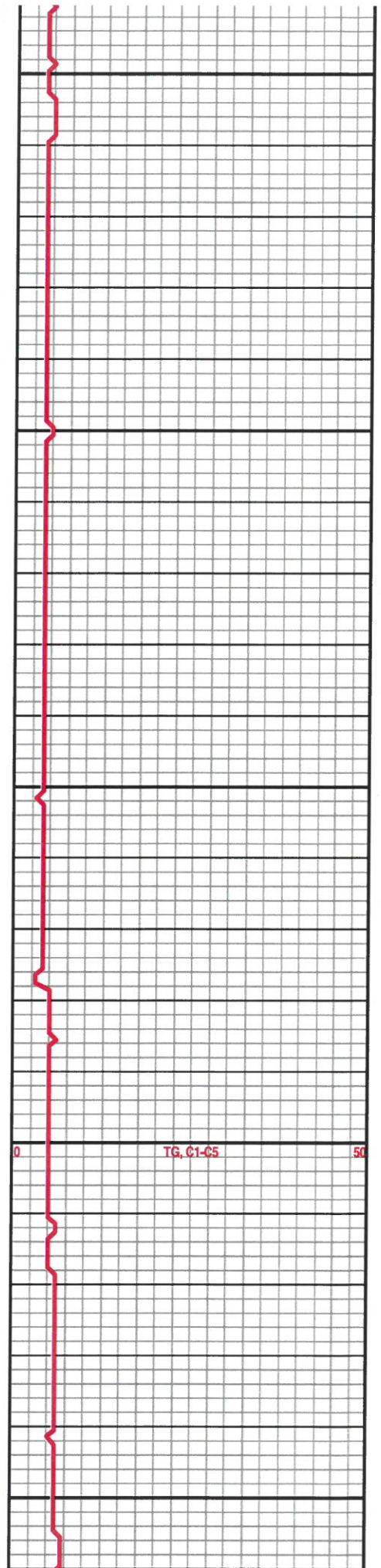
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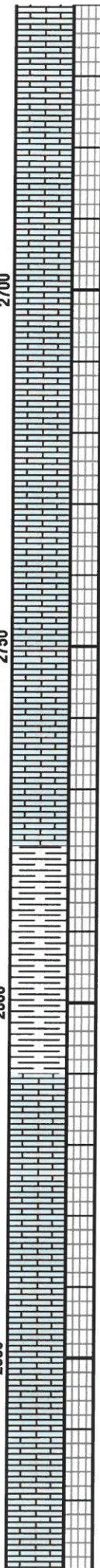
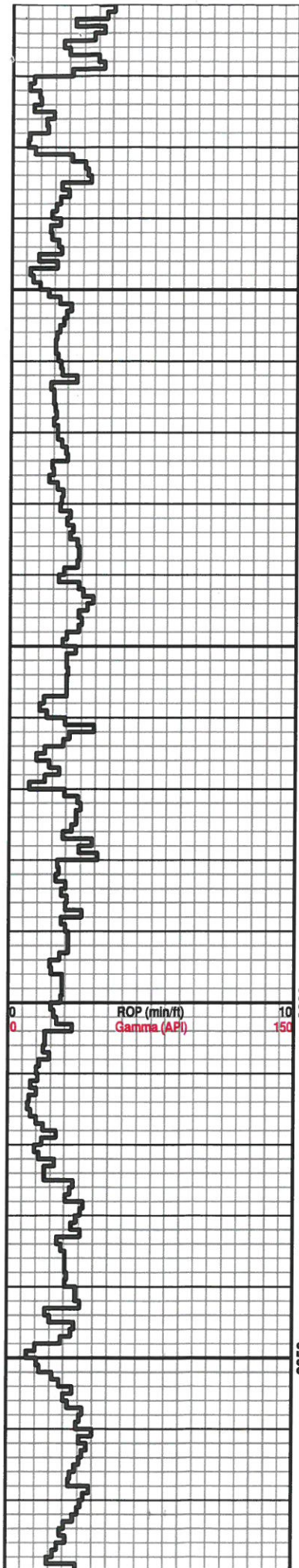




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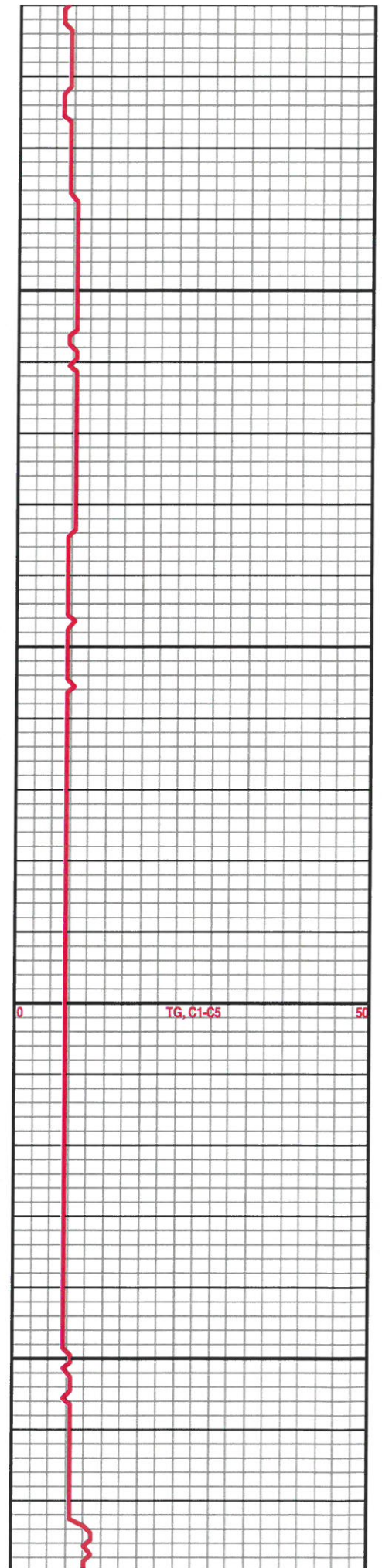
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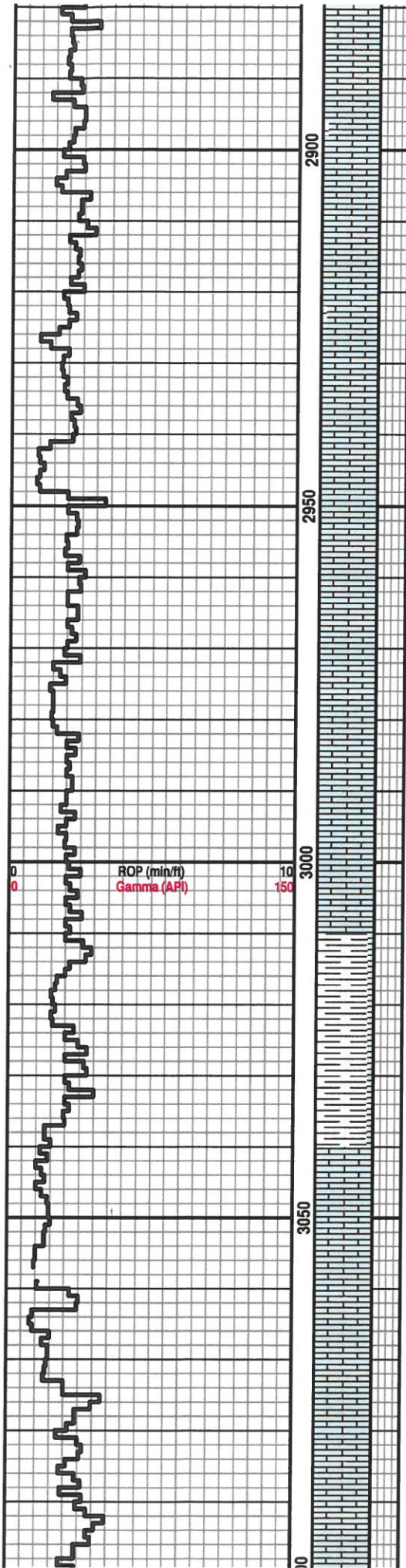
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POROSITY





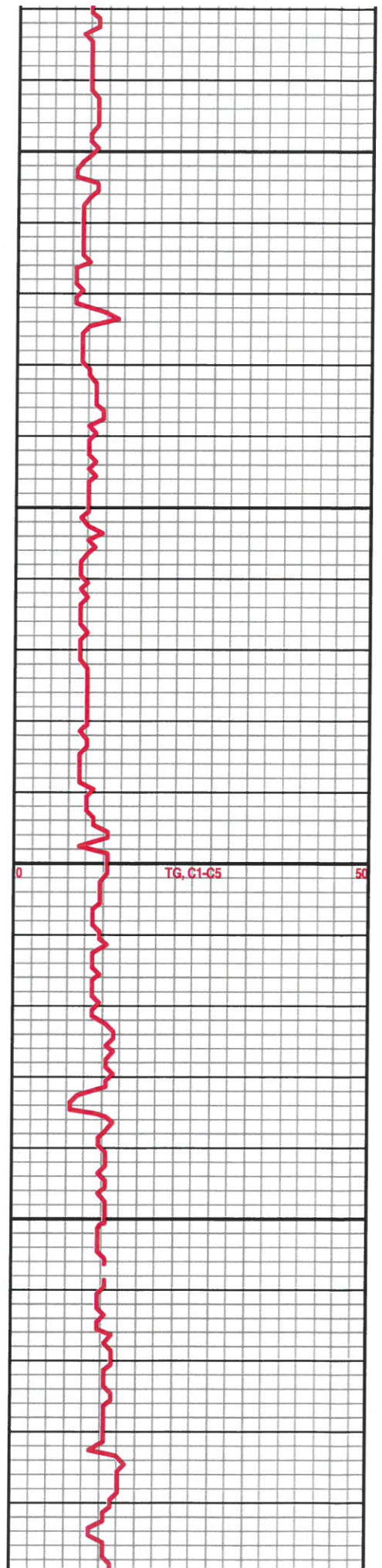
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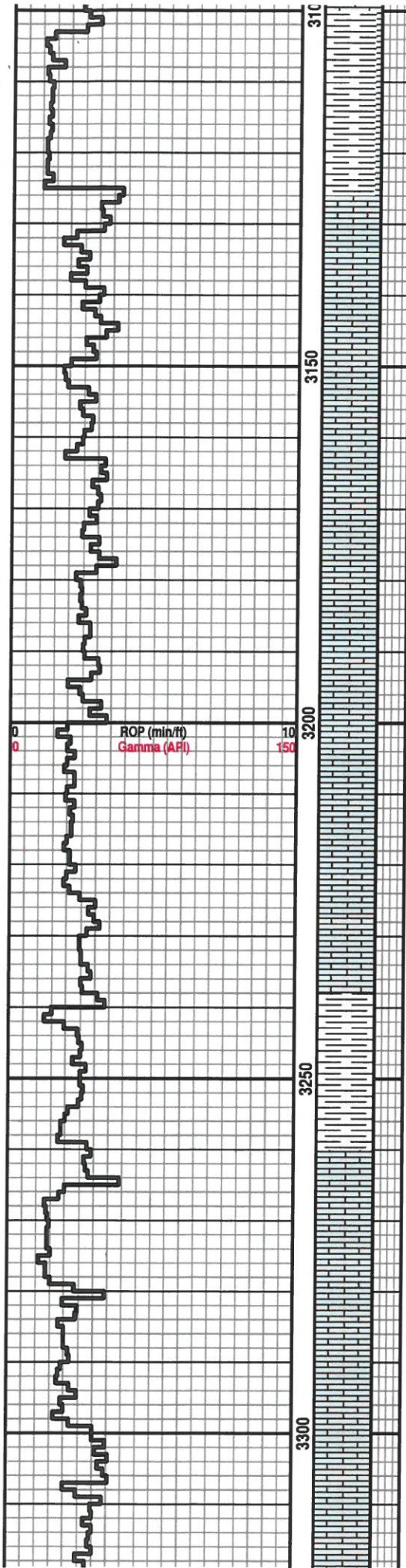
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LS CRM TO TAN FXLN

SH GRY

LS CRM TO TAN FXLN TO CXLN FOSS





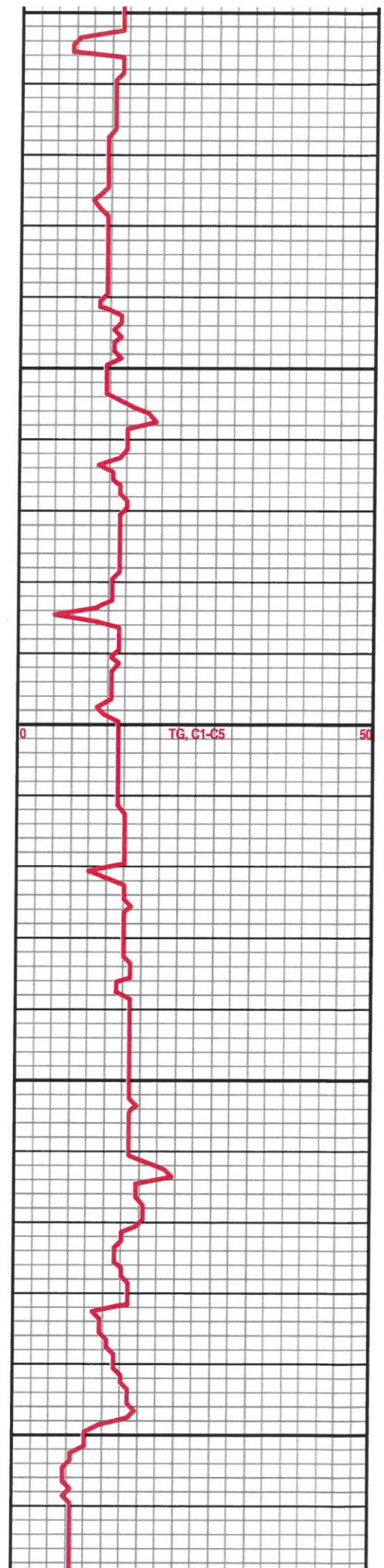
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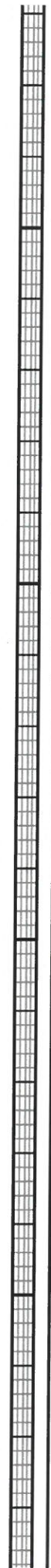
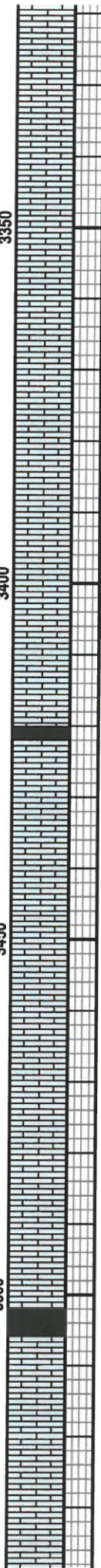
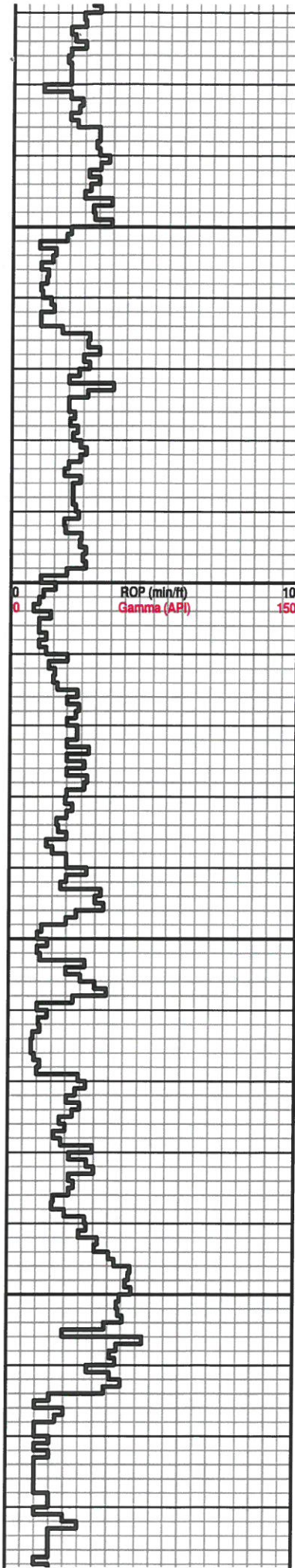
LS CRM TO TAN FXLN

LS CRM FXLN

SH GRY TO BLK PYRITIC IN PART

LS CRM TO BRN CXLN PINPOINT TO VUGGY POROSITY





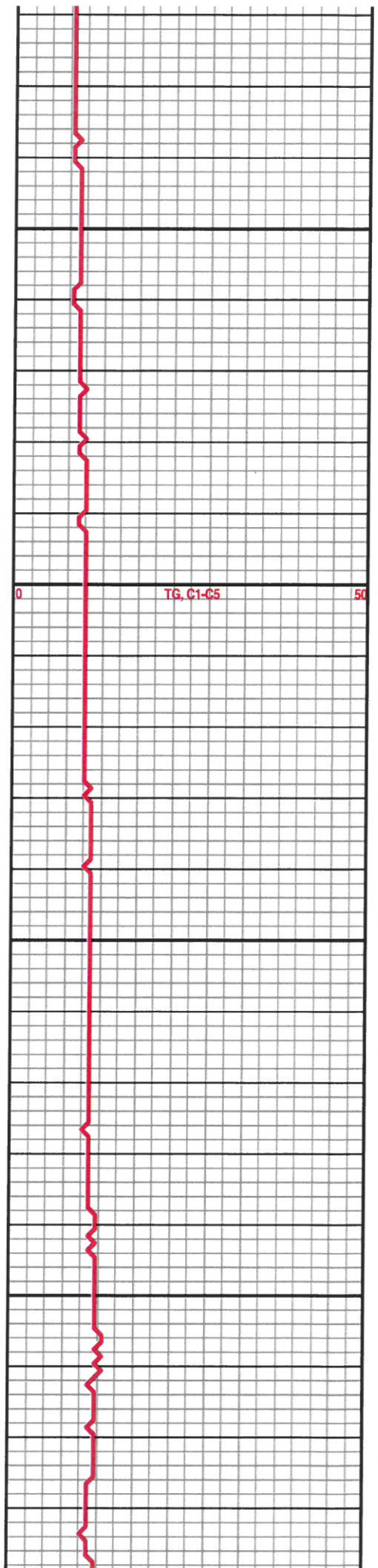
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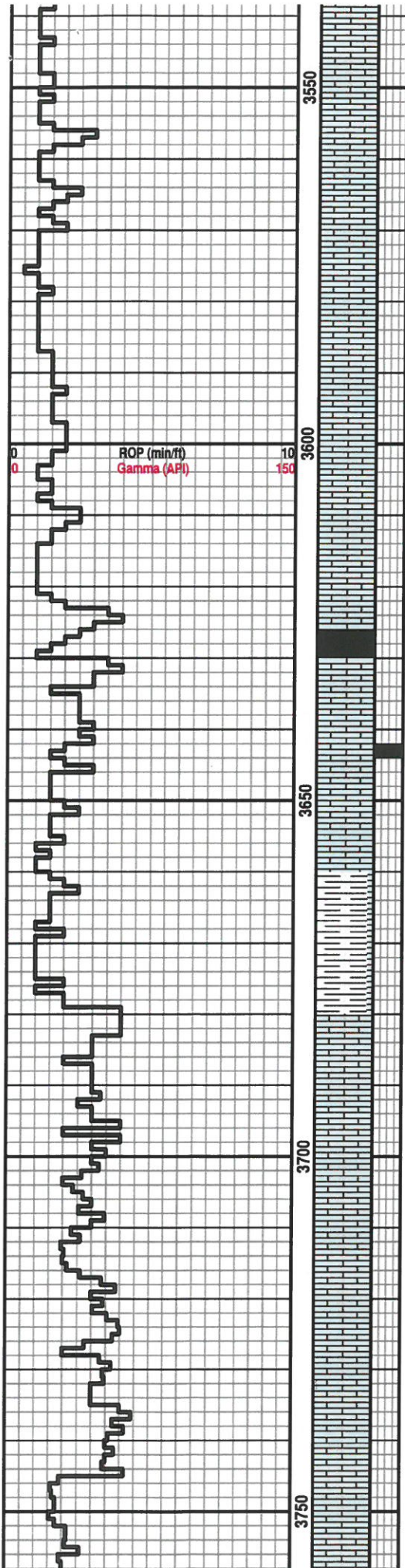
TOPEKA 3436 -1324

LS CRM FXLN TO CXLN PINPOINT POROSITY

SH BLK CARB

LS CRM FXON TO CXLN





LS TAN CXLN

LS TAN CXLN FOSS

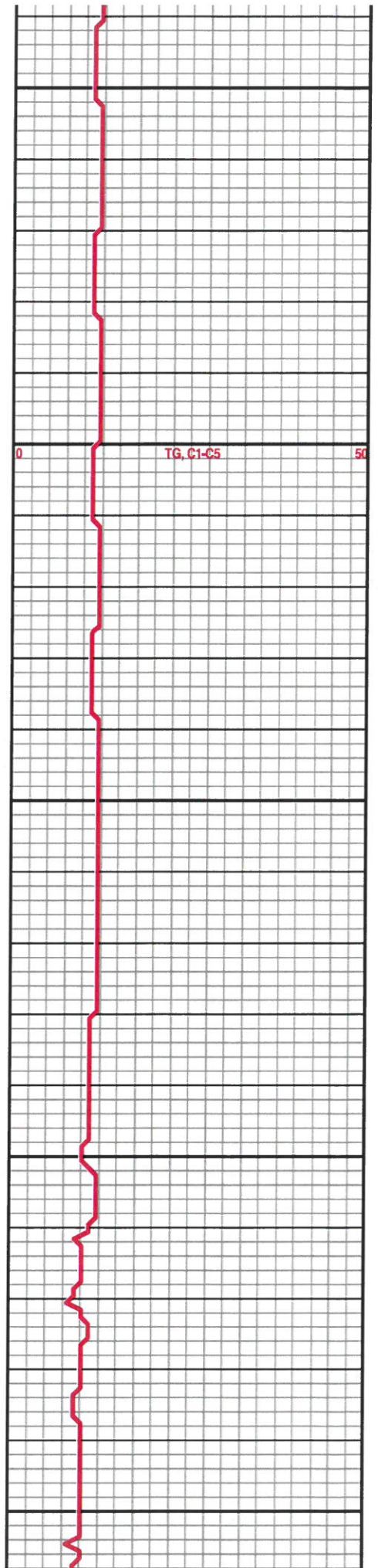
HEEBNER 3628 -1516
SH BLK CARB

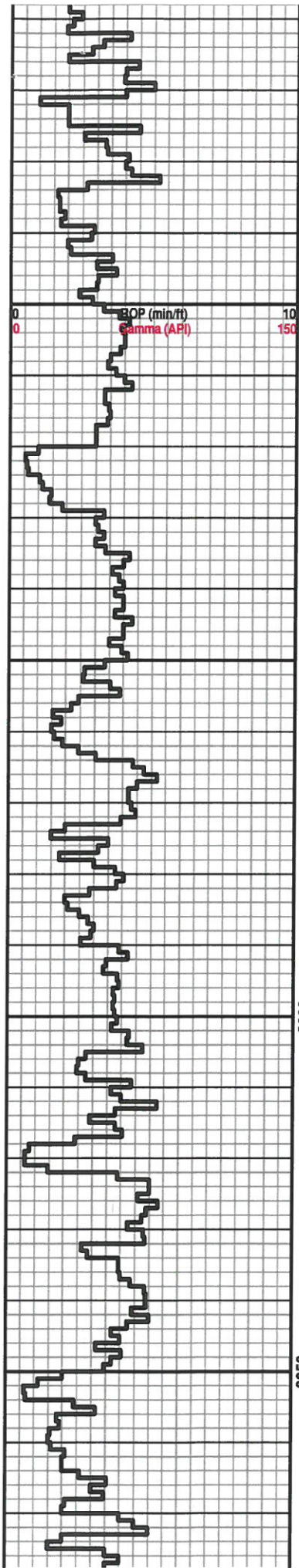
TORONTO 3648 -1536
CFS 3665
SH GRAY

LANSING 3682 -1570
LS CRM - TAN FXLN

LS CXLN PINPOINT POR NS

LS CRM FXLN FOSS





LS CRM CXLN PINPOINT TO VUGGY POROSITY

LS CRM OOLITIC

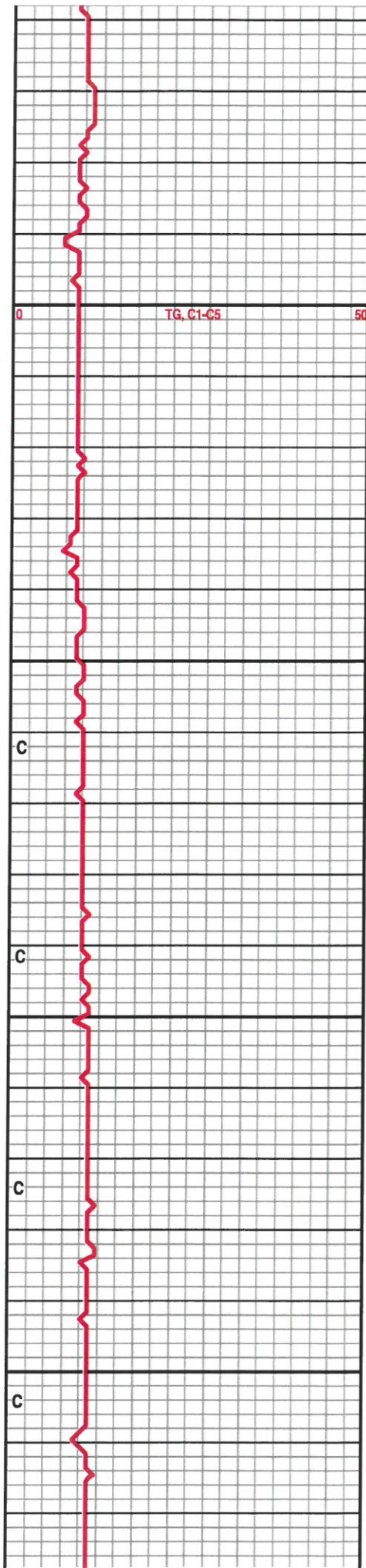
SH BLK CARB

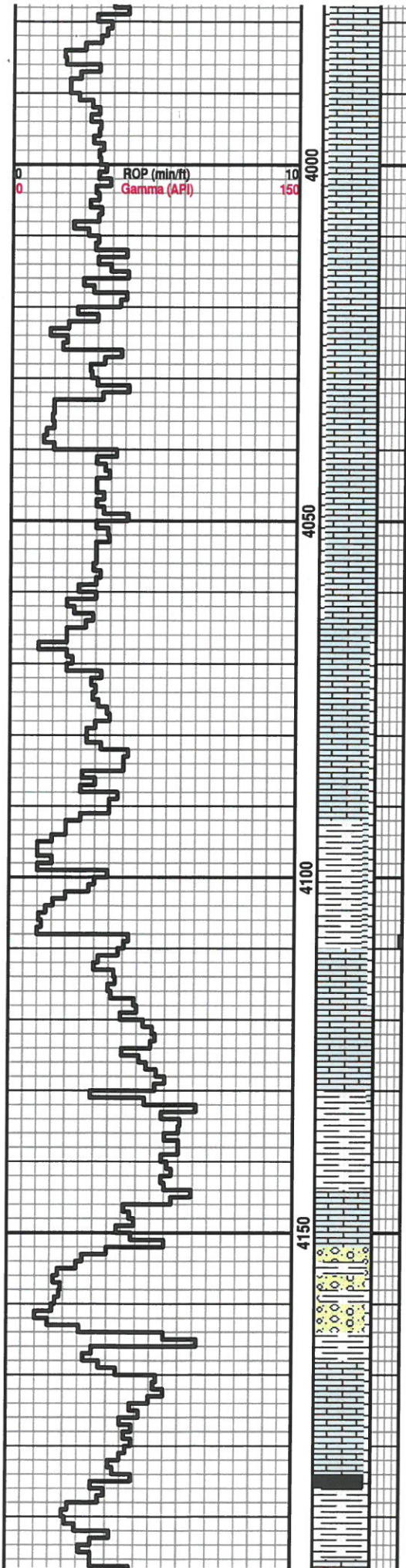
LS CRM FXLN TO CXLN

SH GRY

LS CRM OOLITIC

LS CRM CXLN





LS CRM CXLN FOSS

BASE OF KANSAS CITY 4050-1940

MARMATON 4061 -1994

SH GRY

LS WHT FXLN FOSS

SH GRY

SHLY CONGLOMERATE SH GY SS VFGN LM CRM CXLN TRACE STAIN

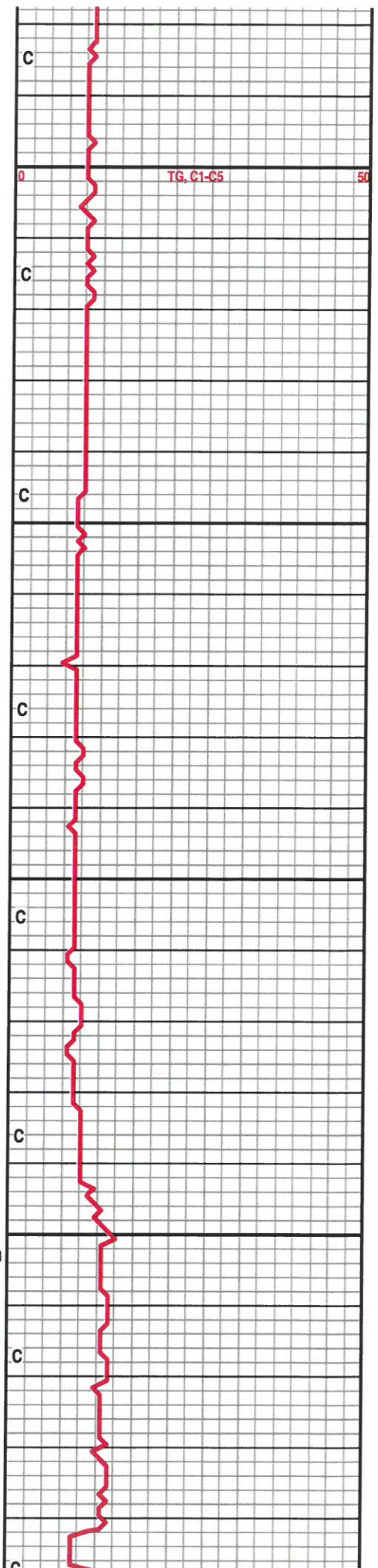
CFS 4158

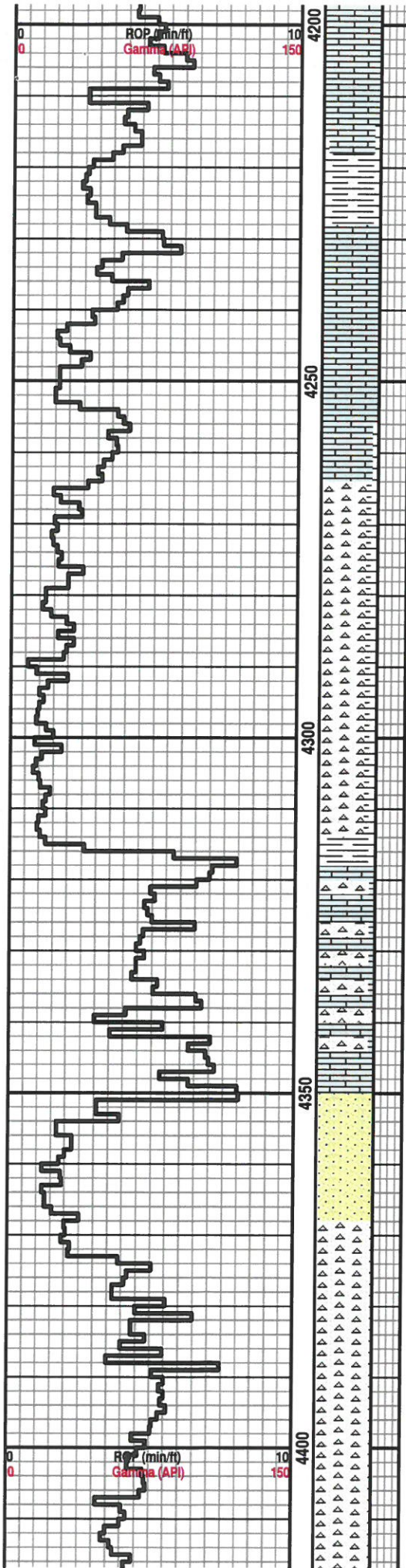
LS CRM FXLN TO CXLN NS

CHEROKEE 4178 -2066

SH BLK CARB

SH GY





IS CRM FXLN
LS CRM CHERT WHT FRESH TO TRIP

LS FXLN

CFS 4248

MISSISSIPPIAN 4266 -2154

CHT WT TO VARICOLORED FRESH TO TRIP
GOOD STAIN FREE OIL YELLOW FLOR

CHT WHT FRESH TO TRIP SCATTERED STAIN

CHT WHT FRESH TO TRIP

CFS 4316

CHRTY LS WH TO CRM TITE

KINDERHOOK 4350 -2238

SS VFRN TO MEDGRAIN CLUSTERS GOOD VIS
POROSITY SCATTERED STAIN SOME FREE OIL

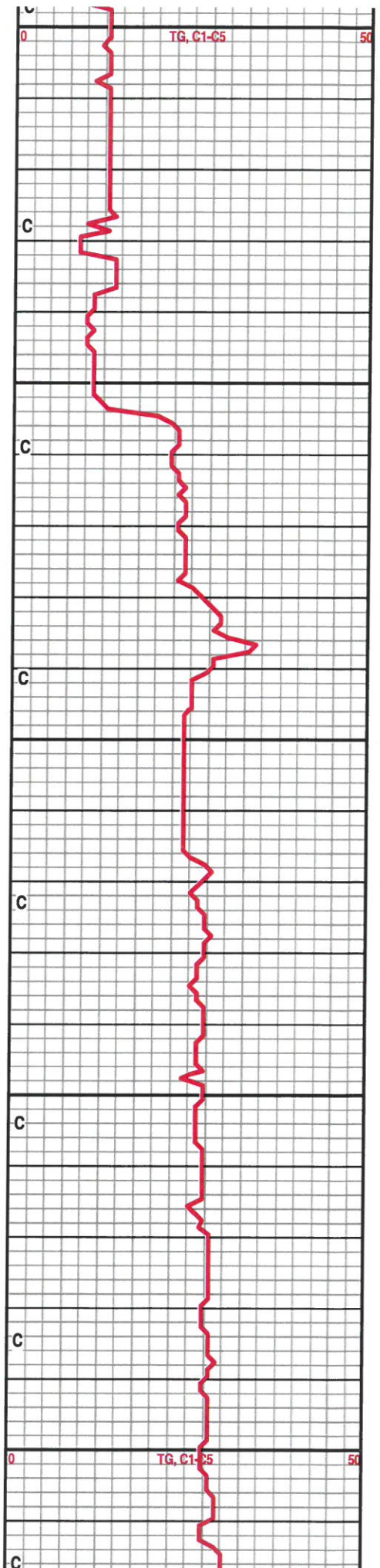
CFS 4367

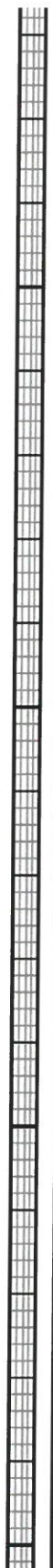
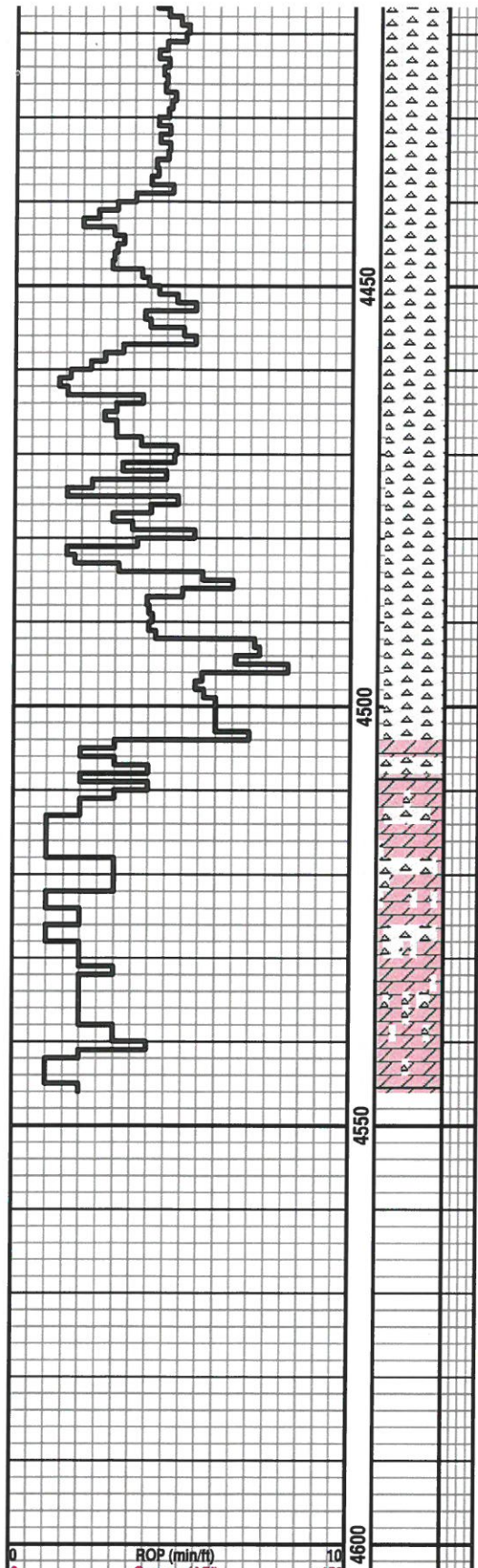
CHT WHT LS CRM TO WHT SCATTERED STAIN

VIOLA 4374 -2262

CHT WHT FRESH

CHT WHT FRESH





CHT WHT FRESH

LS CRM FXLN CHT CLR TO WHT

LS CRM FXLN CHERTY

ARBUCKLE 4496 -2384

LS WHT FXLN

CHERTY DOL WHT TO BRN PINPOINT
TO VUGGY POROSITY

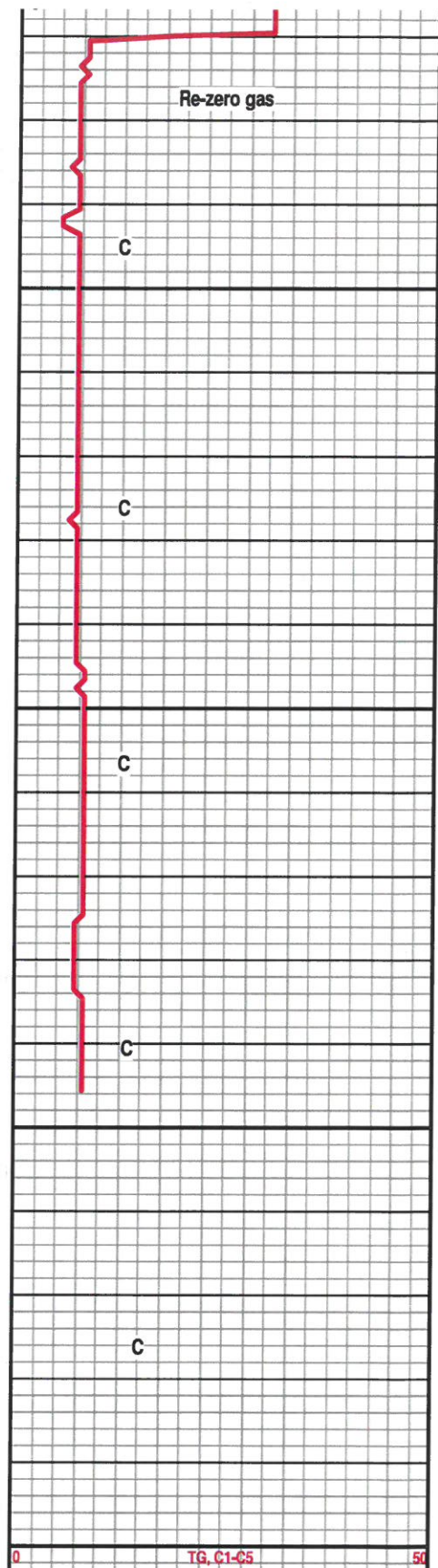
AS ABOVE

AS ABOVE

AS ABOVE

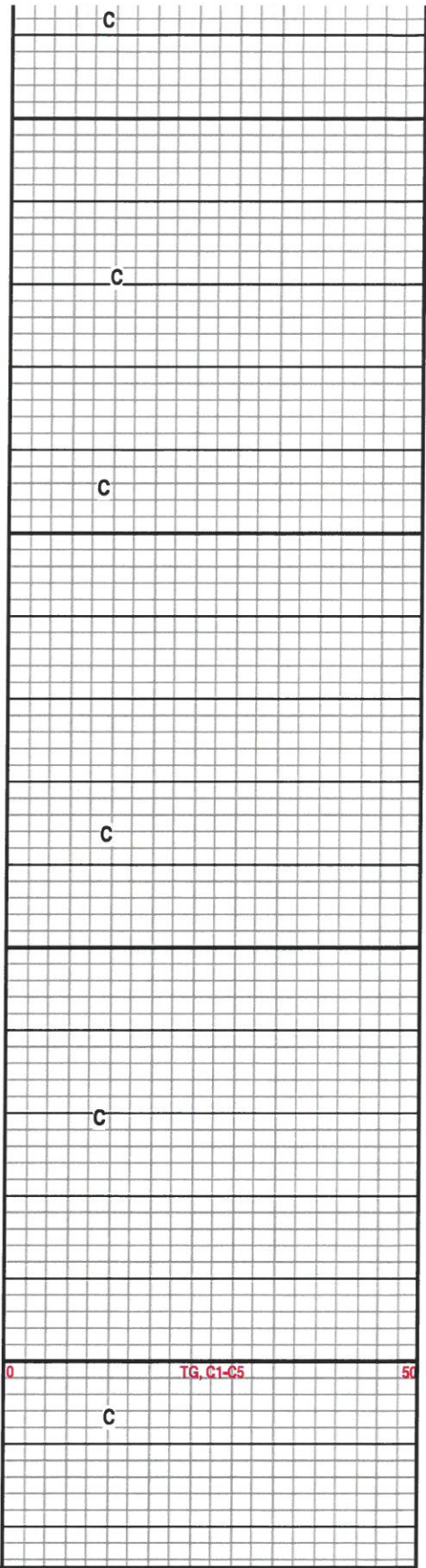
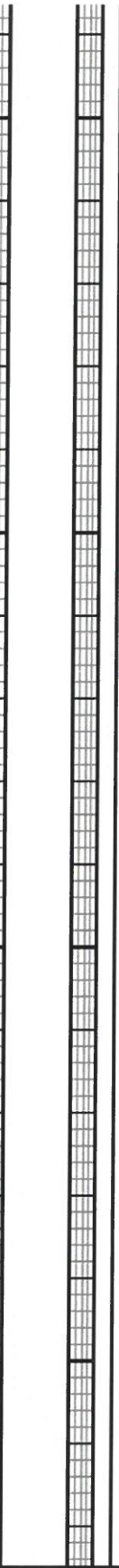
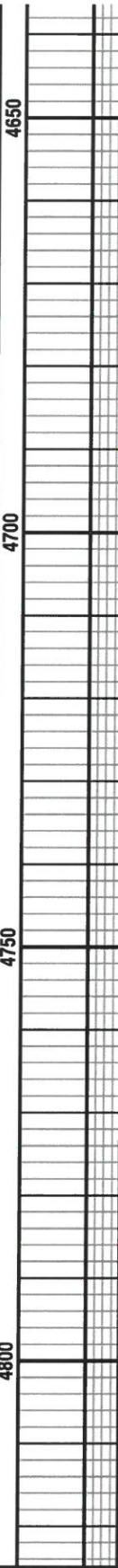
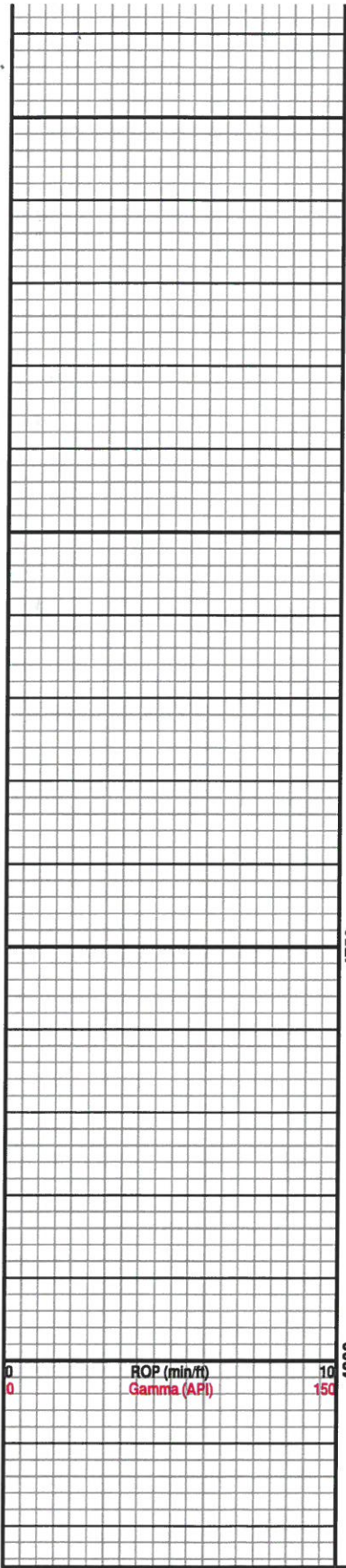
AS ABOVE

TD 4546



0 10 150

0 50





DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum LLC**
PO Box 438
Haysville, KS 67060+0438

ATTN: Rod Anderson

Stejskal #1

16-21S-20W Pawnee,KS

Start Date: 2018.03.16 @ 06:13:00

End Date: 2018.03.16 @ 10:25:17

Job Ticket #: 63065 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.03.19 @ 11:00:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

16-21S-20W Pawnee, KS
Stejskal #1
 Job Ticket: 63065 **DST#: 1**
 Test Start: 2018.03.16 @ 06:13:00

GENERAL INFORMATION:

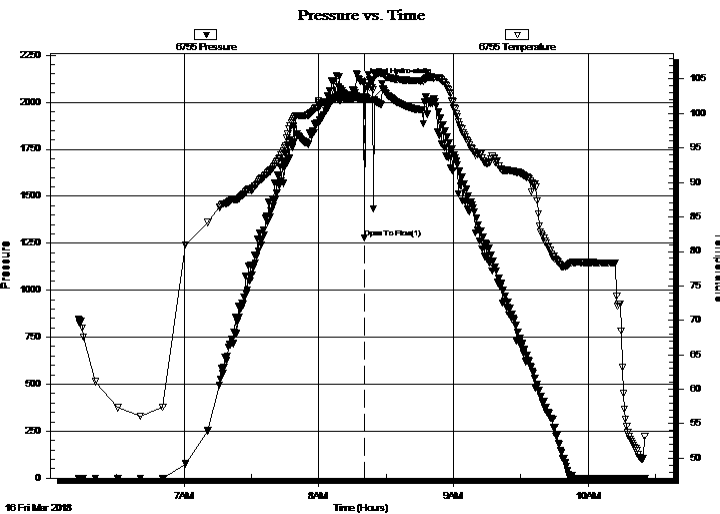
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:20:17
 Time Test Ended: 10:25:17
 Interval: **4223.00 ft (KB) To 4276.00 ft (KB) (TVD)**
 Total Depth: 4276.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2112.00 ft (KB)
 2106.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6755

Inside

Press@RunDepth: psig @ 4271.80 ft (KB) Capacity: psig
 Start Date: 2018.03.16 End Date: 2018.03.16 Last Calib.: 2018.03.16
 Start Time: 06:13:01 End Time: 10:25:17 Time On Btm: 2018.03.16 @ 08:19:47
 Time Off Btm: 2018.03.16 @ 08:28:32

TEST COMMENT: Packer Failure on initial set/ Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.29	102.38	Initial Hydro-static
1	1278.76	102.10	Open To Flow (1)
9	2074.20	105.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mud 100%	2.10

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

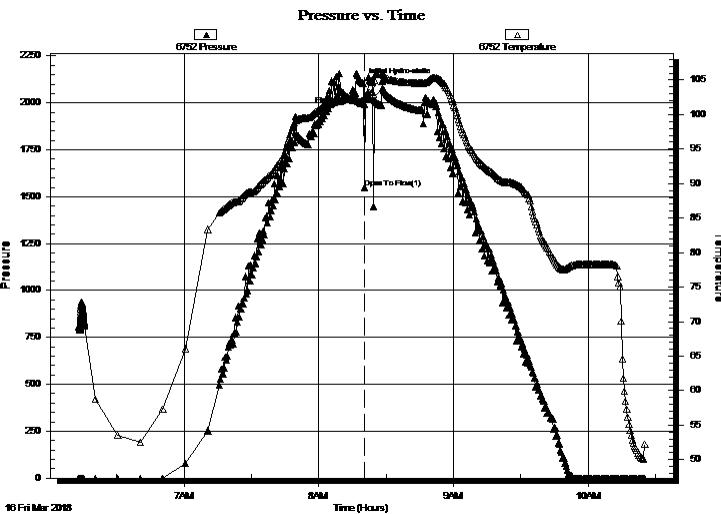
16-21S-20W Pawnee, KS
Stejskal #1
 Job Ticket: 63065 **DST#: 1**
 Test Start: 2018.03.16 @ 06:13:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:20:17 Tester: Ken Swinney
 Time Test Ended: 10:25:17 Unit No: 72
 Interval: **4223.00 ft (KB) To 4276.00 ft (KB) (TVD)** Reference Elevations: 2112.00 ft (KB)
 Total Depth: 4276.00 ft (KB) (TVD) 2106.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 6.00 ft

Serial #: 6752 Outside
 Press@RunDepth: psig @ 4272.80 ft (KB) Capacity: psig
 Start Date: 2018.03.16 End Date: 2018.03.16 Last Calib.: 2018.03.16
 Start Time: 06:13:01 End Time: 10:25:17 Time On Btm: 2018.03.16 @ 08:19:32
 Time Off Btm: 2018.03.16 @ 08:28:32

TEST COMMENT: Packer Failure on initial set/ Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.47	101.56	Initial Hydro-static
1	1549.17	101.49	Open To Flow (1)
9	2074.90	105.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mud 100%	2.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum LLC
PO Box 438
Haysville, KS 67060+0438
ATTN: Rod Anderson

16-21S-20W Pawnee,KS
Stejskal #1
Job Ticket: 63065 **DST#: 1**
Test Start: 2018.03.16 @ 06:13:00

Tool Information

Drill Pipe:	Length: 4208.00 ft	Diameter: 3.80 inches	Volume: 59.03 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: 80000.00 lb
			<u>Total Volume: 59.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4223.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.80 ft			
Tool Length:	80.80 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut-In Tool	5.00			4200.00	
Hydraulic tool	5.00			4205.00	
Jars	6.00			4211.00	
Safety Joint	2.00			4213.00	
Top Packer	5.00			4218.00	
Packer	5.00			4223.00	28.00 Bottom Of Top Packer
Anchor	14.00			4237.00	
Change Over Sub	1.00			4238.00	
Drill Pipe	31.80			4269.80	
Change Over Sub	1.00			4270.80	
Recorder	1.00	6755	Inside	4271.80	
Recorder	1.00	6752	Outside	4272.80	
Bullnose	3.00			4275.80	52.80 Anchor Tool

Total Tool Length: 80.80



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum LLC
PO Box 438
Haysville, KS 67060+0438
ATTN: Rod Anderson

16-21S-20W Pawnee,KS
Stejskal #1
Job Ticket: 63065 **DST#: 1**
Test Start: 2018.03.16 @ 06:13:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Mud 100%	2.104

Total Length: 150.00 ft Total Volume: 2.104 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

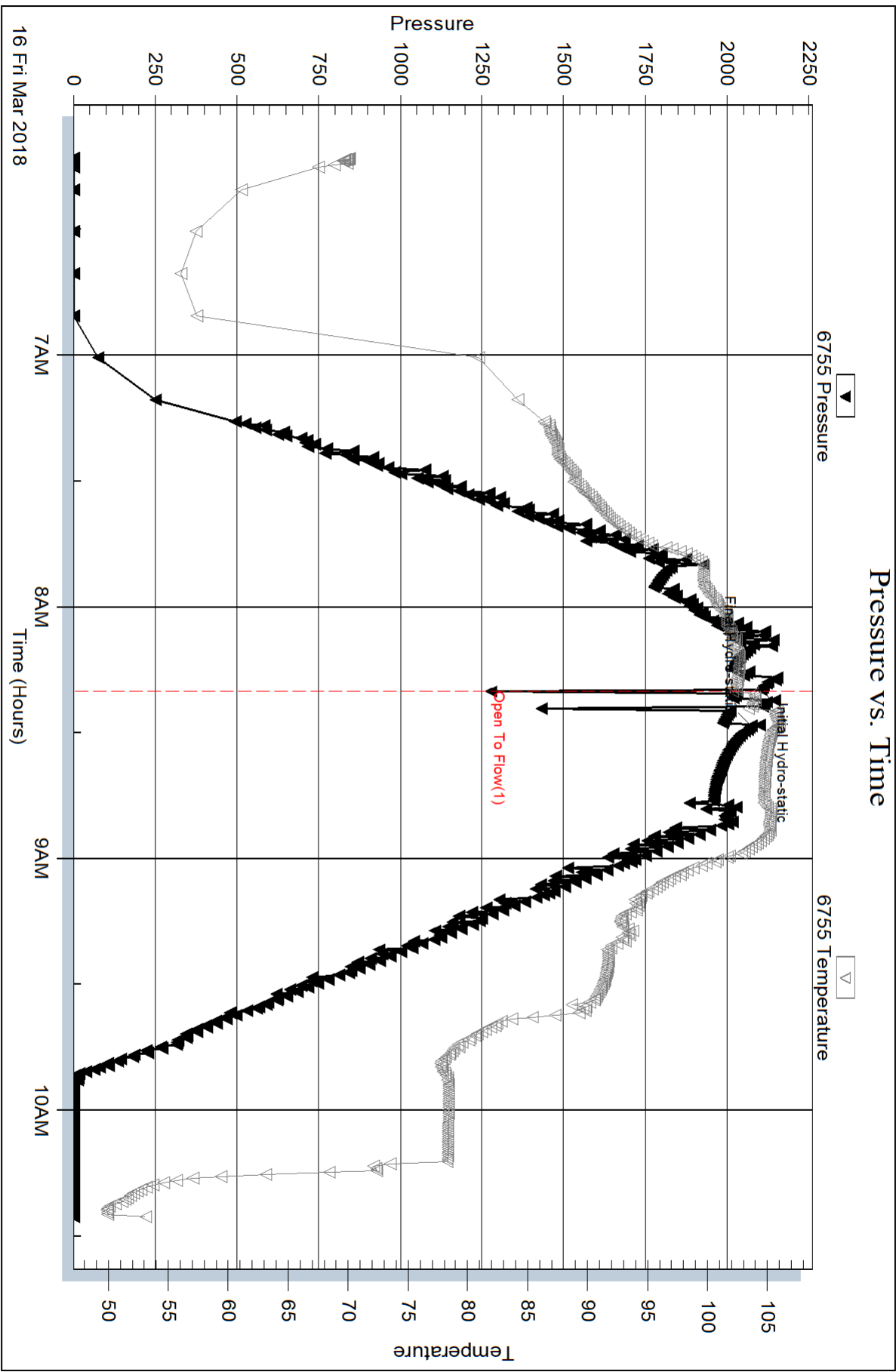
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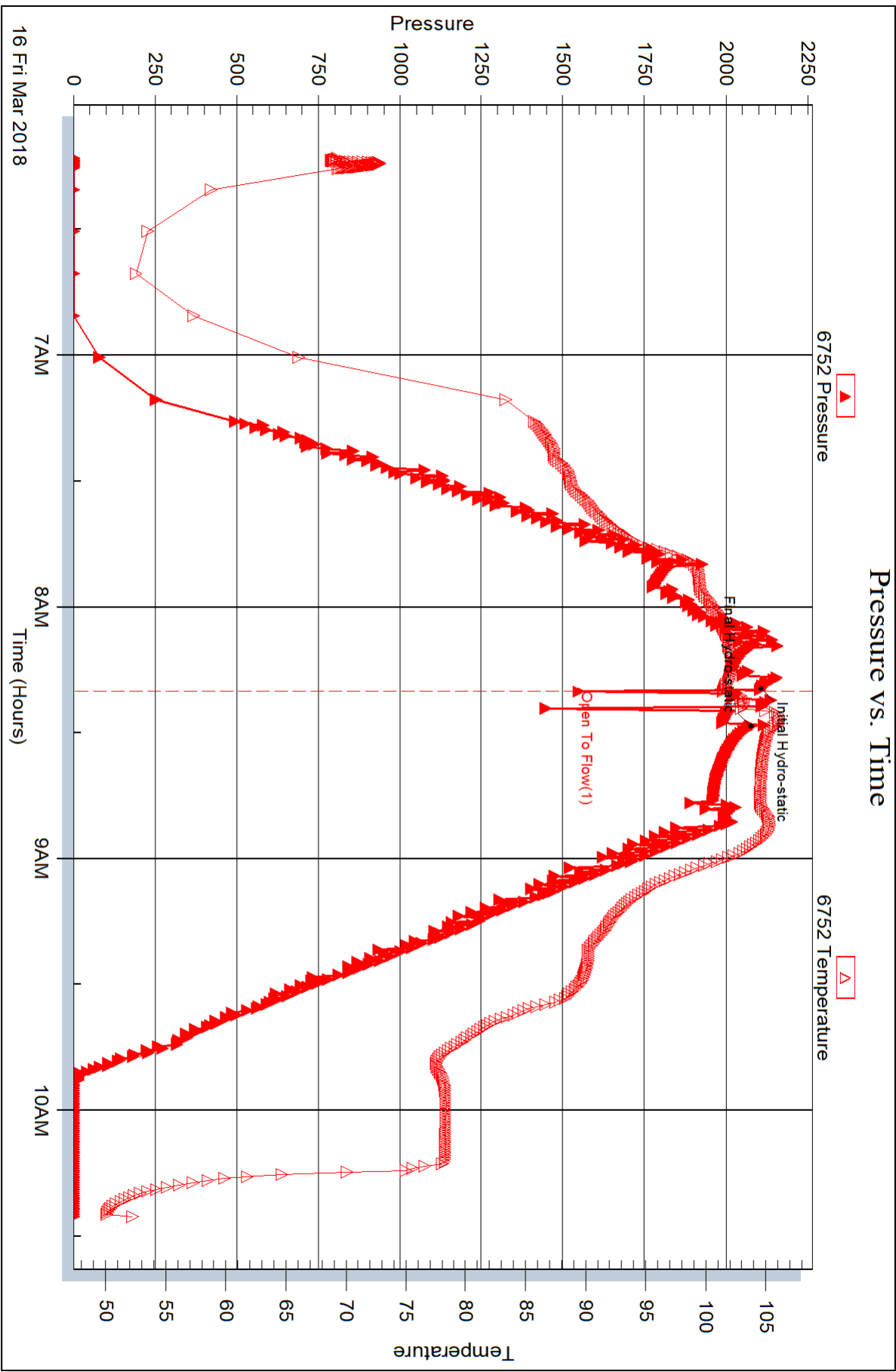
Inside

Bear Petroleum LLC

Sejstkal #1

DST Test Number: 1







DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum LLC**
PO Box 438
Haysville, KS 67060+0438

ATTN: Rod Anderson

Stejskal #1

16-21S-20W Pawnee,KS

Start Date: 2018.03.16 @ 10:49:00

End Date: 2018.03.16 @ 16:41:02

Job Ticket #: 63066 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.03.19 @ 11:00:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

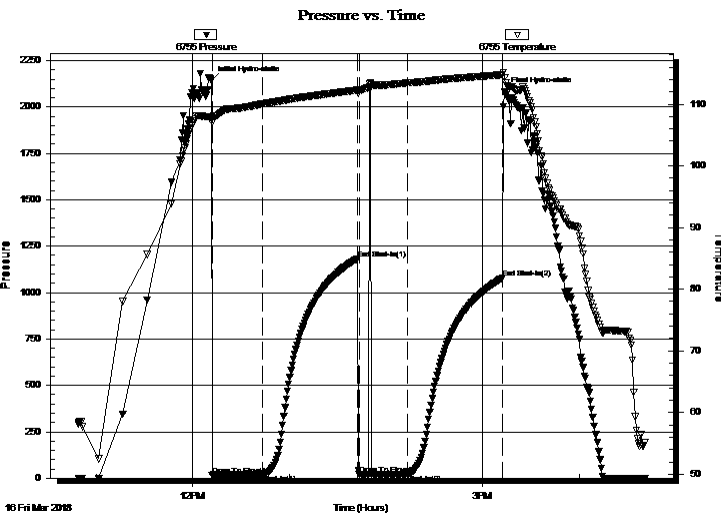
16-21S-20W Pawnee,KS
Stejskal #1
 Job Ticket: 63066 **DST#: 2**
 Test Start: 2018.03.16 @ 10:49:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:12:02
 Time Test Ended: 16:41:02
 Interval: **4253.00 ft (KB) To 4276.00 ft (KB) (TVD)**
 Total Depth: 4276.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2112.00 ft (KB)
 2106.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6755 Inside
 Press@RunDepth: 21.92 psig @ 4272.00 ft (KB) Capacity: psig
 Start Date: 2018.03.16 End Date: 2018.03.16 Last Calib.: 2018.03.16
 Start Time: 10:49:01 End Time: 16:41:02 Time On Btm: 2018.03.16 @ 12:11:47
 Time Off Btm: 2018.03.16 @ 15:13:47

TEST COMMENT: IFP 30 Minutes Blow built to 1/2"
 ISI 60 Minutes No blow back
 FFP 30 Minutes Dead no blow / Flush tool no help
 FSI 60 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.65	107.88	Initial Hydro-static
1	16.87	106.96	Open To Flow (1)
32	18.71	110.02	Shut-In(1)
91	1183.10	112.27	End Shut-In(1)
92	19.11	112.14	Open To Flow (2)
122	21.92	113.43	Shut-In(2)
181	1079.26	114.78	End Shut-In(2)
182	2082.49	114.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

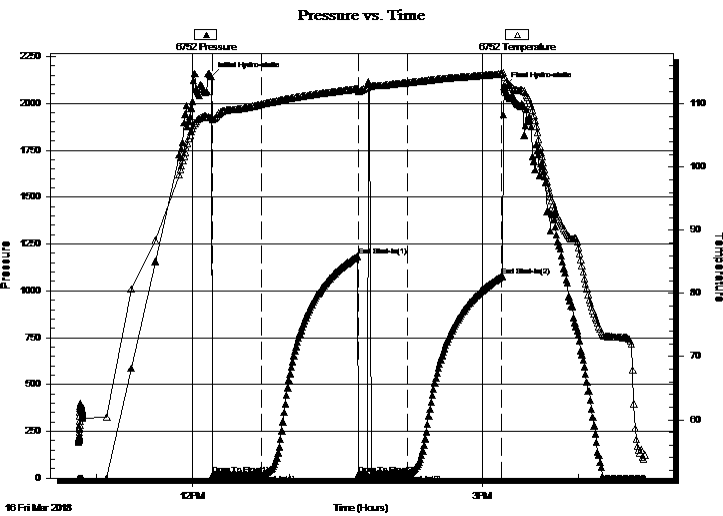
16-21S-20W Pawnee,KS
Stejskal #1
 Job Ticket: 63066 **DST#: 2**
 Test Start: 2018.03.16 @ 10:49:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:12:02
 Time Test Ended: 16:41:02
 Interval: **4253.00 ft (KB) To 4276.00 ft (KB) (TVD)**
 Total Depth: 4276.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2112.00 ft (KB)
 2106.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6752 Outside
 Press@RunDepth: 1078.65 psig @ 4273.00 ft (KB) Capacity: psig
 Start Date: 2018.03.16 End Date: 2018.03.16 Last Calib.: 2018.03.16
 Start Time: 10:49:01 End Time: 16:41:02 Time On Btm: 2018.03.16 @ 12:11:47
 Time Off Btm: 2018.03.16 @ 15:13:32

TEST COMMENT: IFP 30 Minutes Blow built to 1/2"
 ISI 60 Minutes No blow back
 FFP 30 Minutes Dead no blow / Flush tool no help
 FSI 60 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2141.52	107.86	Initial Hydro-static
1	18.41	107.55	Open To Flow (1)
32	19.77	109.98	Shut-In(1)
91	1184.97	112.35	End Shut-In(1)
92	20.06	112.00	Open To Flow (2)
122	22.87	113.36	Shut-In(2)
181	1078.65	114.74	End Shut-In(2)
182	2090.18	114.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

16-21S-20W Pawnee,KS
Stejskal #1
 Job Ticket: 63066 **DST#: 2**
 Test Start: 2018.03.16 @ 10:49:00

Tool Information

Drill Pipe:	Length: 4243.00 ft	Diameter: 3.80 inches	Volume: 59.52 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: 90000.00 lb
			<u>Total Volume: 59.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4253.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			4231.00	
Hydraulic tool	5.00			4236.00	
Jars	5.00			4241.00	
Safety Joint	2.00			4243.00	
Packer - Shale	5.00			4248.00	
Packer	5.00			4253.00	27.00 Bottom Of Top Packer
Anchor	18.00			4271.00	
Recorder	1.00	6755	Inside	4272.00	
Recorder	1.00	6752	Outside	4273.00	
Bullnose	3.00			4276.00	23.00 Anchor Tool
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

16-21S-20W Pawnee,KS
Stejskal #1
 Job Ticket: 63066 **DST#: 2**
 Test Start: 2018.03.16 @ 10:49:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

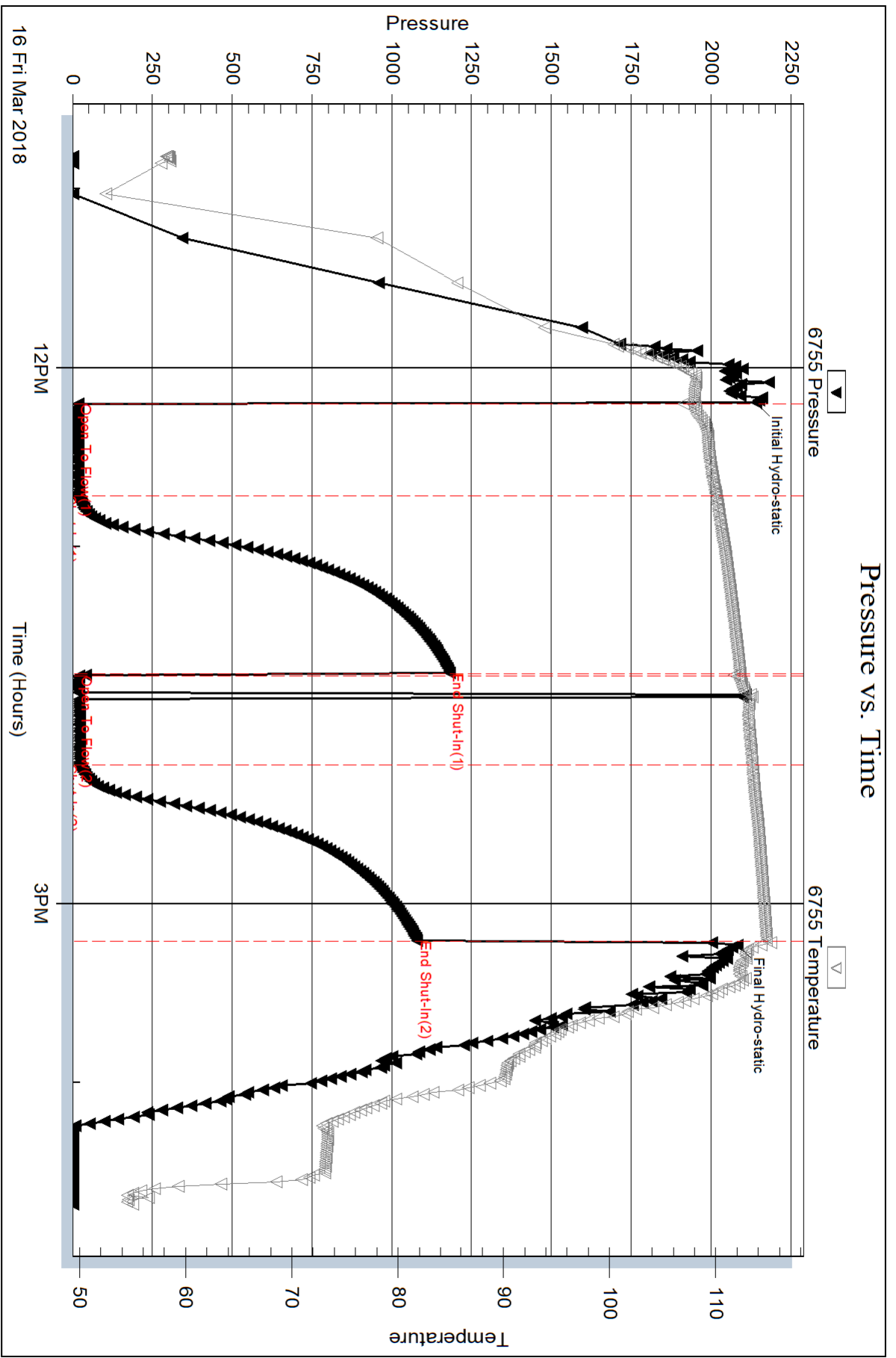
Serial #: 6755

Inside

Bear Petroleum LLC

Seiskal #1

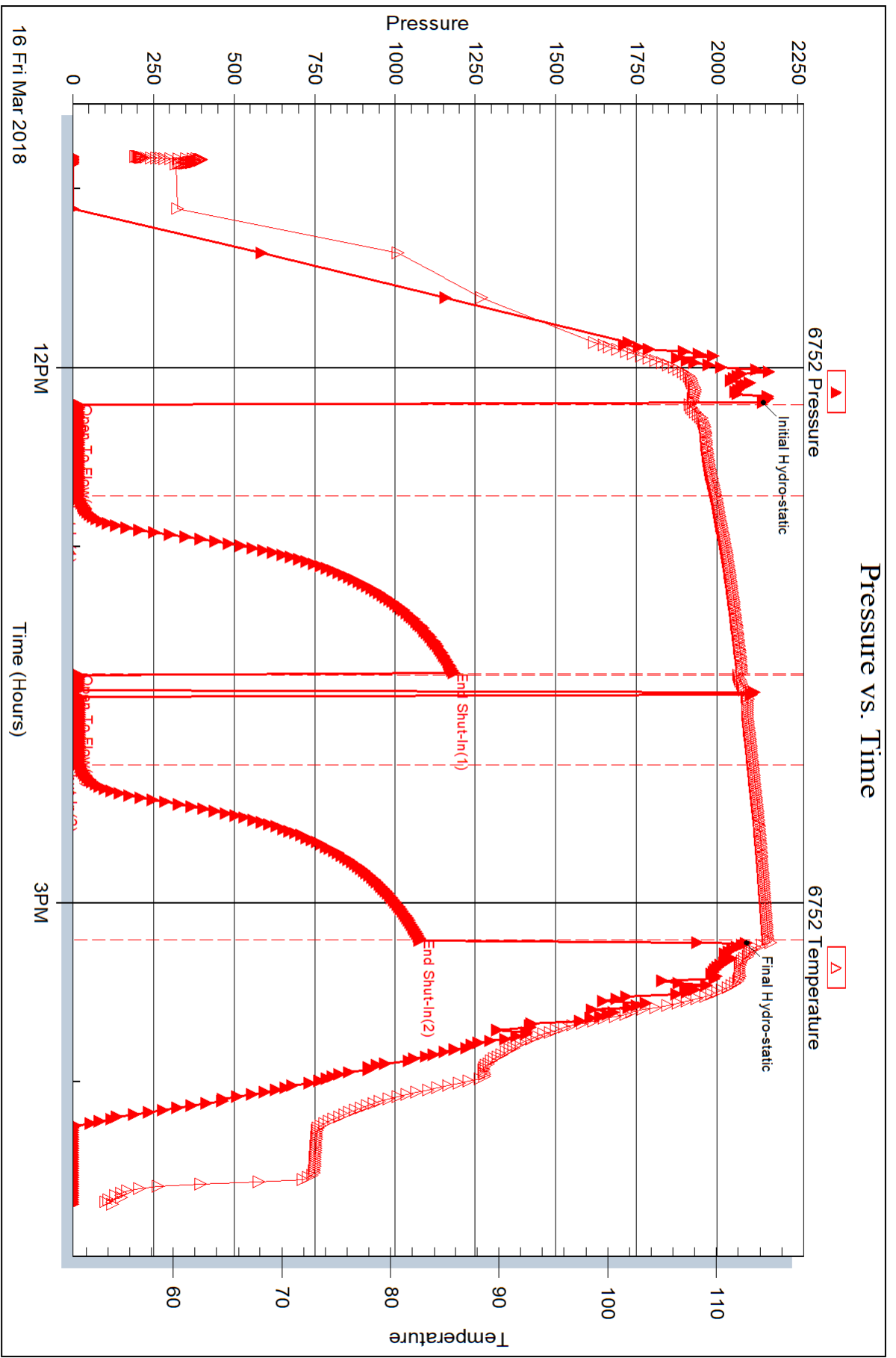
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63066

Printed: 2018.03.19 @ 11:00:10





DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum LLC**

PO Box 438
Haysville, KS 67060+0438

ATTN: Rod Anderson

Stejskal #1

16-21S-20W Pawnee,KS

Start Date: 2018.03.17 @ 04:11:00

End Date: 2018.03.17 @ 10:51:02

Job Ticket #: 63067 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.03.19 @ 10:59:17

Bear Petroleum LLC
16-21S-20W Pawnee,KS
Stejskal #1
DST # 3
Viola
2018.03.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

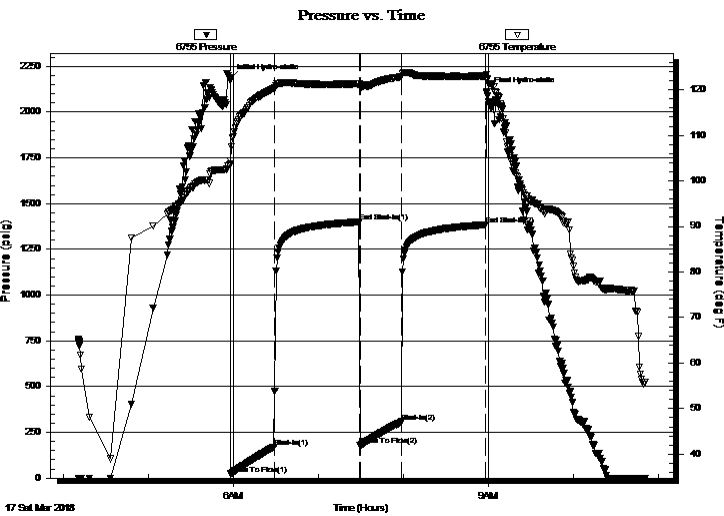
16-21S-20W Pawnee, KS
Stejskal #1
 Job Ticket: 63067 **DST#: 3**
 Test Start: 2018.03.17 @ 04:11:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:58:32 Tester: Ken Swinney
 Time Test Ended: 10:51:02 Unit No: 72
 Interval: **4343.00 ft (KB) To 4367.00 ft (KB) (TVD)** Reference Elevations: 2112.00 ft (KB)
 Total Depth: 4367.00 ft (KB) (TVD) 2106.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 6755 Inside
 Press@RunDepth: 307.42 psig @ 4363.00 ft (KB) Capacity: psig
 Start Date: 2018.03.17 End Date: 2018.03.17 Last Calib.: 2018.03.17
 Start Time: 04:11:01 End Time: 10:51:02 Time On Btm: 2018.03.17 @ 05:58:17
 Time Off Btm: 2018.03.17 @ 08:59:17

TEST COMMENT: IFP 30 Minutes Blow built to 6"
 ISI 60 Minutes No blow back
 FFP 30 Minutes Blow built to BOB in 14 minutes
 FSI 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.02	103.67	Initial Hydro-static
1	23.37	104.29	Open To Flow (1)
31	170.82	120.20	Shut-In(1)
91	1399.23	121.24	End Shut-In(1)
92	177.38	120.78	Open To Flow (2)
121	307.42	122.89	Shut-In(2)
180	1384.49	123.00	End Shut-In(2)
181	2112.22	122.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MW Mud 30% Water 70%	4.42
310.00	SMW Mud 5% Water 95%	4.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bear Petroleum LLC
 PO Box 438
 Haysville, KS 67060+0438
 ATTN: Rod Anderson

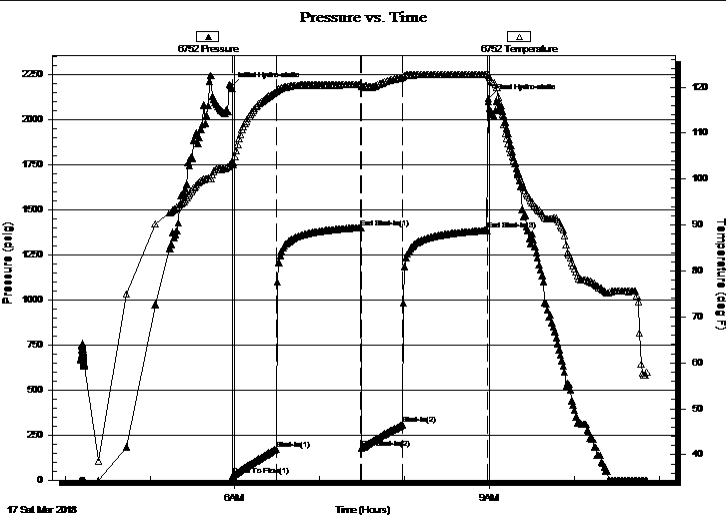
16-21S-20W Pawnee, KS
Stejskal #1
 Job Ticket: 63067 **DST#: 3**
 Test Start: 2018.03.17 @ 04:11:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:58:32 Tester: Ken Swinney
 Time Test Ended: 10:51:02 Unit No: 72
 Interval: **4343.00 ft (KB) To 4367.00 ft (KB) (TVD)** Reference Elevations: 2112.00 ft (KB)
 Total Depth: 4367.00 ft (KB) (TVD) 2106.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 6752 Outside
 Press@RunDepth: 1385.12 psig @ 4364.00 ft (KB) Capacity: psig
 Start Date: 2018.03.17 End Date: 2018.03.17 Last Calib.: 2018.03.17
 Start Time: 04:11:01 End Time: 10:51:02 Time On Btm: 2018.03.17 @ 05:57:32
 Time Off Btm: 2018.03.17 @ 08:59:17

TEST COMMENT: IFP 30 Minutes Blow built to 6"
 ISI 60 Minutes No blow back
 FFP 30 Minutes Blow built to BOB in 14 minutes
 FSI 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.26	103.37	Initial Hydro-static
1	24.00	103.06	Open To Flow (1)
32	171.82	118.96	Shut-In(1)
92	1400.01	120.50	End Shut-In(1)
92	178.45	120.20	End Shut-In(2)
121	307.23	122.12	Shut-In(2)
181	1385.12	122.65	End Shut-In(3)
182	2115.60	122.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MW Mud 30% Water 70%	4.42
310.00	SMW Mud 5% Water 95%	4.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum LLC
PO Box 438
Haysville, KS 67060+0438
ATTN: Rod Anderson

16-21S-20W Pawnee,KS
Stejskal #1
Job Ticket: 63067 **DST#: 3**
Test Start: 2018.03.17 @ 04:11:00

Tool Information

Drill Pipe:	Length: 4338.00 ft	Diameter: 3.80 inches	Volume: 60.85 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: 80000.00 lb
			<u>Total Volume: 60.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4343.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			4321.00	
Hydraulic tool	5.00			4326.00	
Jars	5.00			4331.00	
Safety Joint	2.00			4333.00	
Top Packer	5.00			4338.00	
Packer	5.00			4343.00	27.00 Bottom Of Top Packer
Anchor	19.00			4362.00	
Recorder	1.00	6755	Inside	4363.00	
Recorder	1.00	6752	Outside	4364.00	
Bullnose	3.00			4367.00	24.00 Anchor Tool
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum LLC
PO Box 438
Haysville, KS 67060+0438
ATTN: Rod Anderson

16-21S-20W Pawnee,KS
Stejskal #1
Job Ticket: 63067 **DST#: 3**
Test Start: 2018.03.17 @ 04:11:00

Mud and Cushion Information

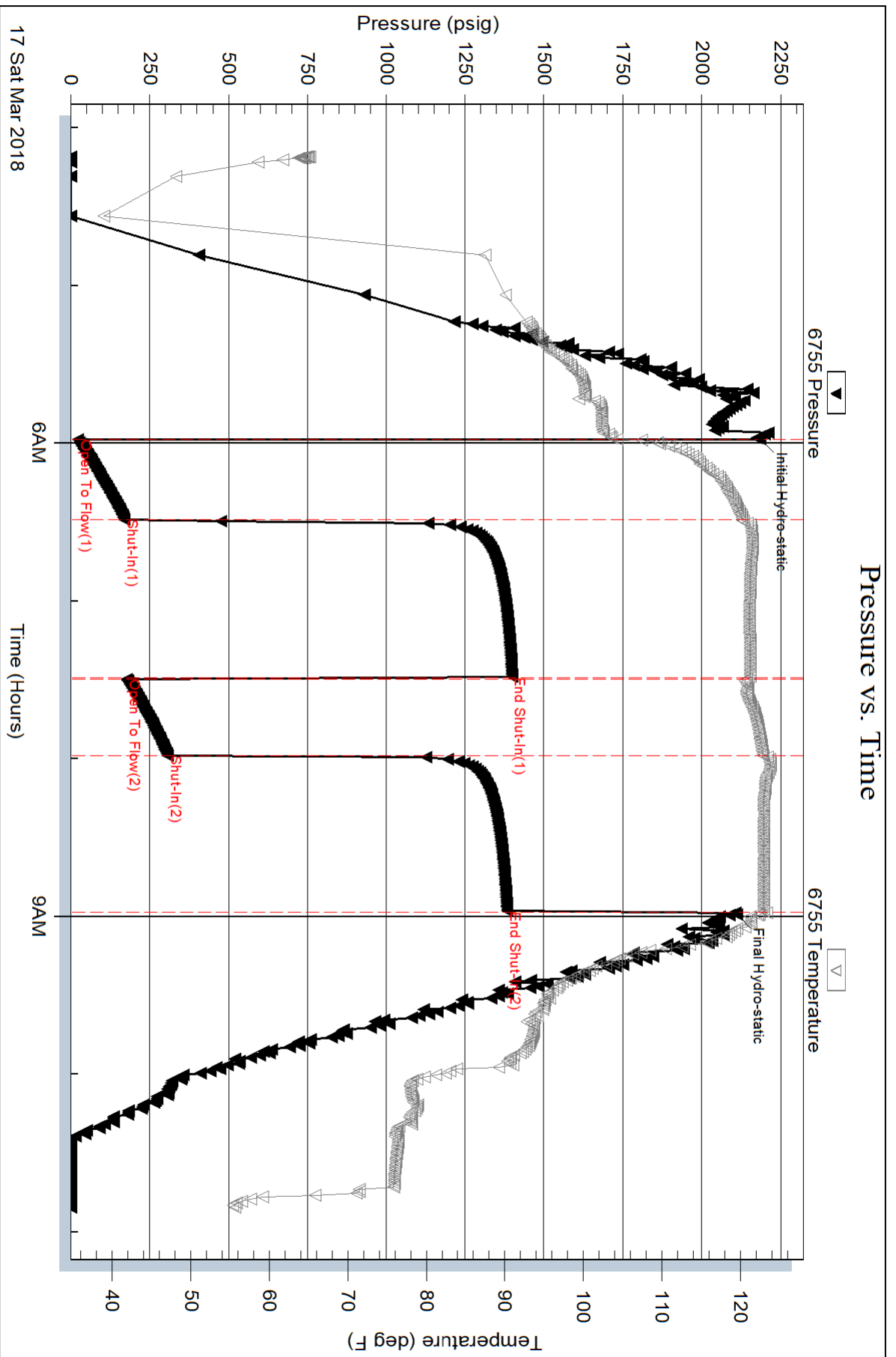
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	17000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

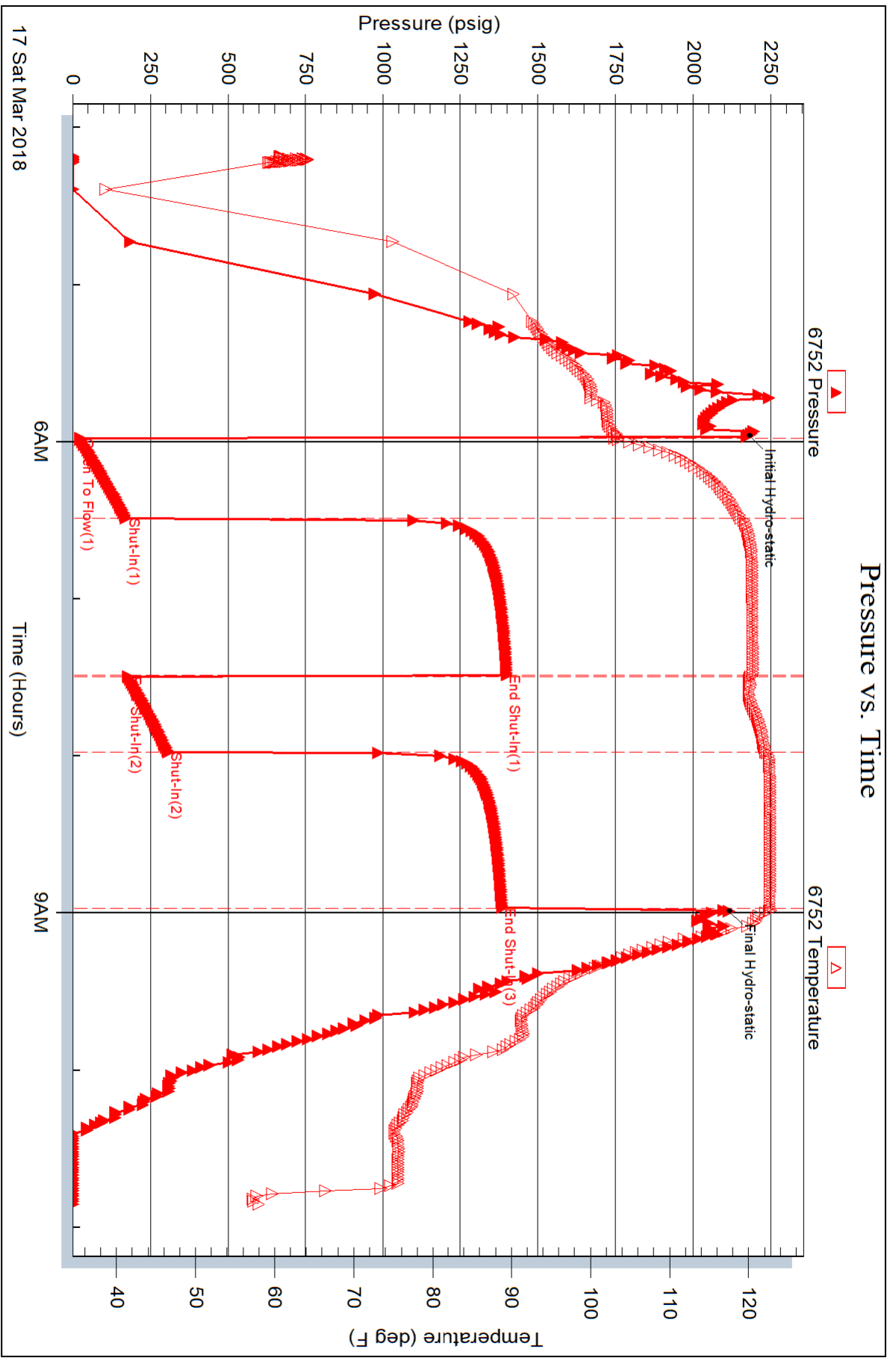
Recovery Information

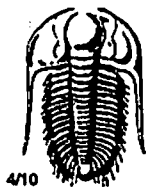
Recovery Table

Length ft	Description	Volume bbl
315.00	MW Mud 30% Water 70%	4.419
310.00	SMW Mud 5% Water 95%	4.348

Total Length: 625.00 ft Total Volume: 8.767 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Recovery Resistivity .471 ohms @ 56 deg.







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63065

Well Name & No. Stejskal #1 Test No. 1 Date 16 MAR 18
 Company Bear Petroleum LLC Elevation 2112 KB 2106 GL
 Address PO Box 438 Haysville Kansas 67060-0438
 Co. Rep / Geo. Red Andersen Rig Royal 1
 Location: Sec. 16 Twp. 21S Rge. 20W Co. Pawnee State KS

Interval Tested 4223-4276 Zone Tested Mississippi
 Anchor Length ~~5216~~ 53 Drill Pipe Run 4208 Mud Wt. 9.0
 Top Packer Depth 4218 Drill Collars Run — Vis 5-1
 Bottom Packer Depth 4223 Wt. Pipe Run — WL 8.4
 Total Depth 4276 Chlorides 4000 ppm System LCM 2#
 Blow Description Packer Failure

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>Mud 100%</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2103 Test 1150 T-On Location 5:32 am
 (B) First Initial Flow 1278 Jars 250 T-Started 6:13 am
 (C) First Final Flow _____ Safety Joint 75 T-Open 8:20 am
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 8:48 am
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 10:27 am
 (F) Second Final Flow _____ Mileage 92 92 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2074 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

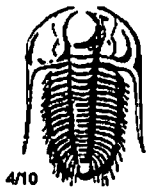
Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____

Sub Total 1567

Sub Total _____ MP/DST Disc't _____

Approved By _____

Our Representative



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63066

Well Name & No. Stejskal #1 Test No. 2 Date 16 MAR 18
 Company Bear Petroleum LLC Elevation 2112 KB 2106 GL
 Address PO Box 438 Haysville Kansas 67060+0438
 Co. Rep / Geo. Rod Anderson Rig Royal Rig 1
 Location: Sec. 16 Twp. 21S Rge. 20W Co. Pownee State KS

Interval Tested 4253-4276 Zone Tested Mississippi
 Anchor Length 25 Drill Pipe Run 4243 Mud Wt. 9.0
 Top Packer Depth 4248 Drill Collars Run — Vis 51
 Bottom Packer Depth 4253 Wt. Pipe Run — WL 8.4
 Total Depth 4276 Chlorides 4000 ppm System LCM 2#

Blow Description I.F. Blow built to 1/2 inch
I.S.I No blow back
F.F. Dead no blow / Flush tool no help
F.S.I No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2140
- (B) First Initial Flow 1.6
- (C) First Final Flow 18
- (D) Initial Shut-In 11.83
- (E) Second Initial Flow 19
- (F) Second Final Flow 21
- (G) Final Shut-In 10.79
- (H) Final Hydrostatic 20.82

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub _____
- Hourly Standby _____
- Mileage 92 92
- Sampler _____
- Straddle _____
- Shale Packer 250
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1817

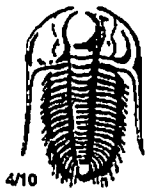
T-On Location Recon
 T-Started 10:49 am
 T-Open 12:12 pm
 T-Pulled 3:12 pm
 T-Out 4:41 pm

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1817
 MP/DST Disc't _____

Approved By Rod Anderson

Our Representative

[Signature]



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63067

Well Name & No. Stejskal #1 Test No. 3 Date 17 MAR 18
 Company Beor Petroleum LLC Elevation 2112 KB 2106 GL
 Address PO Box 458 Haysville, Kansas 67060 10438
 Co. Rep / Geo. Rod Andersen Rig Royal Rig 1
 Location: Sec. 16 Twp. 21S Rge. 20W Co. Pawnee State KS

Interval Tested 4343-4367 Zone Tested Viola
 Anchor Length 24 Drill Pipe Run 4338 Mud Wt. 9.1
 Top Packer Depth 4338 Drill Collars Run - Vis 55
 Bottom Packer Depth 4343 Wt. Pipe Run - WL 8.4
 Total Depth 4367 Chlorides 5000 ppm System LCM 2#

Blow Description I.F. Blow built to 6 inches
F.S.I. No blow back
F.F. Blow built to BOB in 14 minutes
F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>Muddy Water</u>			<u>70</u>	<u>30</u>
<u>310</u>	<u>Muddy Water</u>			<u>75</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 625 BHT 123 Gravity _____ API RW .471 @ 56 °F Chlorides 17000 ppm

(A) Initial Hydrostatic <u>2185</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>3:30 am</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:08 am</u>
(C) First Final Flow <u>170</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:59 am</u>
(D) Initial Shut-In <u>1399</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:59 am</u>
(E) Second Initial Flow <u>177</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:53 am</u>
(F) Second Final Flow <u>307</u>	<input checked="" type="checkbox"/> Mileage <u>184 92</u>	Comments _____
(G) Final Shut-In <u>1384</u>	<input type="checkbox"/> Sampler _____	<u>Loaded tools 3/18 6:00</u>
(H) Final Hydrostatic <u>2112</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Approved By Rod Andersen

Shale Packer 250
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1909

Our Representative

[Signature]

Sub Total 0
 Total 1909
 MP/DST Disc't _____