

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	Stelbar Oil Corporation, Inc.
Well Name	Stephens-Higgins Unit 1-23
Doc ID	1284369

All Electric Logs Run

Array Induction Shallow Focused
Compact Photo Density Compensated Neutron
Compensated Sonic Log
Micro-Resistivity

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Stephens-Higgins Unit 1-23
Doc ID	1284369

Tops

Name	Top	Datum
Stone Corral (Anhydrite)	1450	+726
Heebner Shale	3586	-1410
Base Kansas City	3899	-1723
Pawnee Lst.	3998	-1822
Labette Shale	4059	-1883
Fort Scott Lst	4071	-1895
Cherokee Shale	4083	-1907
Cherokee Ss. A	NP	NP
Cherokee Ss. B	4103	-1927
Mississippian	4159	-1983



DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation Incorporated**

1625 N Waterfront Parkway
Suite 200
Wichita, KS 67206+6602

ATTN: Dave Goldak

23-1s-21w Ness,KS

Stephens-Higgins #1-23

Start Date: 2016.02.05 @ 18:00:00

End Date: 2016.02.06 @ 00:41:31

Job Ticket #: 61974 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.02.09 @ 09:21:02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stelbar Oil Corporation Incorporated

Stephens-Higgins #1-23

1625 N Waterfront Parkw ay
Suite 200
Wichita, KS 67206+6602
ATTN: Dave Goldak

23-1s-21w Ness,KS

Job Ticket: 61974

DST#: 1

Test Start: 2016.02.05 @ 18:00:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:23:31

Time Test Ended: 00:41:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

Interval: 4165.00 ft (KB) To 4182.00 ft (KB) (TVD)

Reference Elevations: 2176.00 ft (KB)

Total Depth: 4182.00 ft (KB) (TVD)

2171.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6838

Inside

Press@RunDepth: 37.57 psig @ 4178.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.05

End Date:

2016.02.06

Last Calib.:

2016.02.06

Start Time: 18:00:01

End Time:

00:41:31

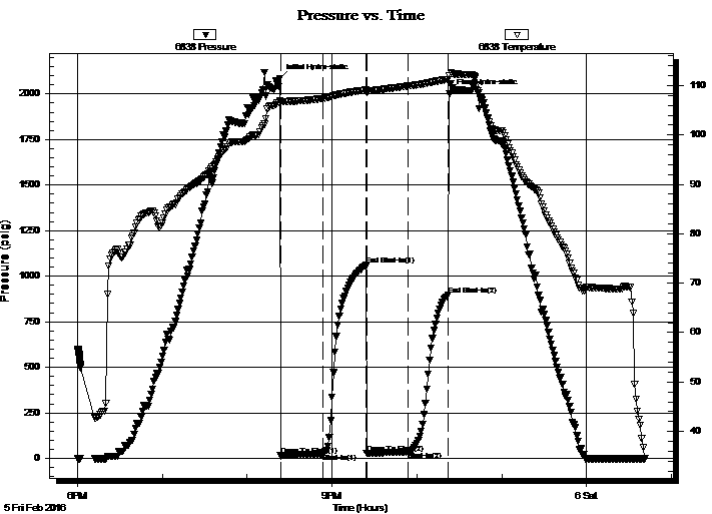
Time On Btm:

2016.02.05 @ 20:23:01

Time Off Btm:

2016.02.05 @ 22:23:01

TEST COMMENT: IFP Blow built to 1/2" then died to surface blow
ISI No blow back
FFP Surface blow died in 10 minutes
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.52	106.94	Initial Hydro-static
1	14.96	106.60	Open To Flow (1)
31	25.90	107.42	Shut-In(1)
61	1059.85	109.09	End Shut-In(1)
62	28.92	108.55	Open To Flow (2)
91	37.57	109.89	Shut-In(2)
119	896.92	111.24	End Shut-In(2)
120	2001.50	111.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oil spotted Water cut Mud	0.22
0.00	Water 10% Mud 90%	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stelbar Oil Corporation Incorporated

Stephens-Higgins #1-23

1625 N Waterfront Parkwy
Suite 200
Wichita, KS 67206+6602
ATTN: Dave Goldak

23-1s-21w Ness,KS

Job Ticket: 61974

DST#: 1

Test Start: 2016.02.05 @ 18:00:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:23:31

Time Test Ended: 00:41:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

Interval: 4165.00 ft (KB) To 4182.00 ft (KB) (TVD)

Reference Elevations: 2176.00 ft (KB)

Total Depth: 4182.00 ft (KB) (TVD)

2171.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8678 Outside

Press@RunDepth: 896.62 psig @ 4179.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.05

End Date:

2016.02.06

Last Calib.:

2016.02.06

Start Time: 17:50:01

End Time:

00:41:31

Time On Btm:

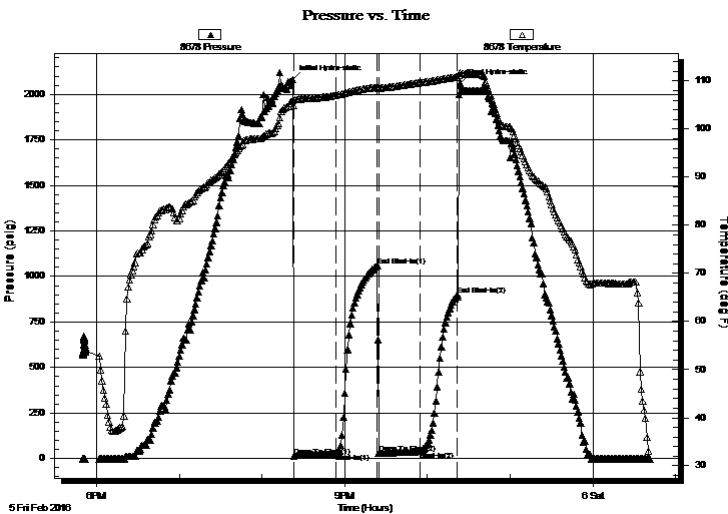
2016.02.05 @ 20:22:01

Time Off Btm:

2016.02.05 @ 22:23:46

TEST COMMENT: IFP Blow built to 1/2" then died to surface blow
ISI No blow back
FFP Surface blow died in 10 minutes
FSI No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2082.05	105.83	Initial Hydro-static
1	14.74	104.89	Open To Flow (1)
32	26.58	107.02	Shut-In(1)
62	1059.86	108.75	End Shut-In(1)
63	29.66	108.54	Open To Flow (2)
93	38.05	109.63	Shut-In(2)
120	896.62	110.84	End Shut-In(2)
122	2057.21	111.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oil spotted Water cut Mud	0.22
0.00	Water 10% Mud 90%	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corporation Incorporated

Stephens-Higgins #1-23

1625 N Waterfront Parkway
Suite 200
Wichita, KS 67206+6602
ATTN: Dave Goldak

23-1s-21w Ness,KS

Job Ticket: 61974

DST#: 1

Test Start: 2016.02.05 @ 18:00:00

Tool Information

Drill Pipe:	Length: 4026.00 ft	Diameter: 3.80 inches	Volume: 56.47 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: 122.56 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 57.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.56 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4165.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4143.00	
Hydraulic tool	5.00			4148.00	
Jars	5.00			4153.00	
Safety Joint	2.00			4155.00	
Packer - Shale	5.00			4160.00	
Packer	5.00			4165.00	27.00 Bottom Of Top Packer
Anchor	12.00			4177.00	
Recorder	1.00	6838	Inside	4178.00	
Recorder	1.00	8678	Outside	4179.00	
Bullnose	3.00			4182.00	17.00 Anchor Tool
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corporation Incorporated

Stephens-Higgins #1-23

1625 N Waterfront Parkway
Suite 200
Wichita, KS 67206+6602
ATTN: Dave Goldak

23-1s-21w Ness,KS

Job Ticket: 61974

DST#: 1

Test Start: 2016.02.05 @ 18:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

44 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Oil spotted Water cut Mud	0.221
0.00	Water 10% Mud 90%	0.000

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sample Chamber

1500 ml Water cut Mud

1000 ml Clean oil

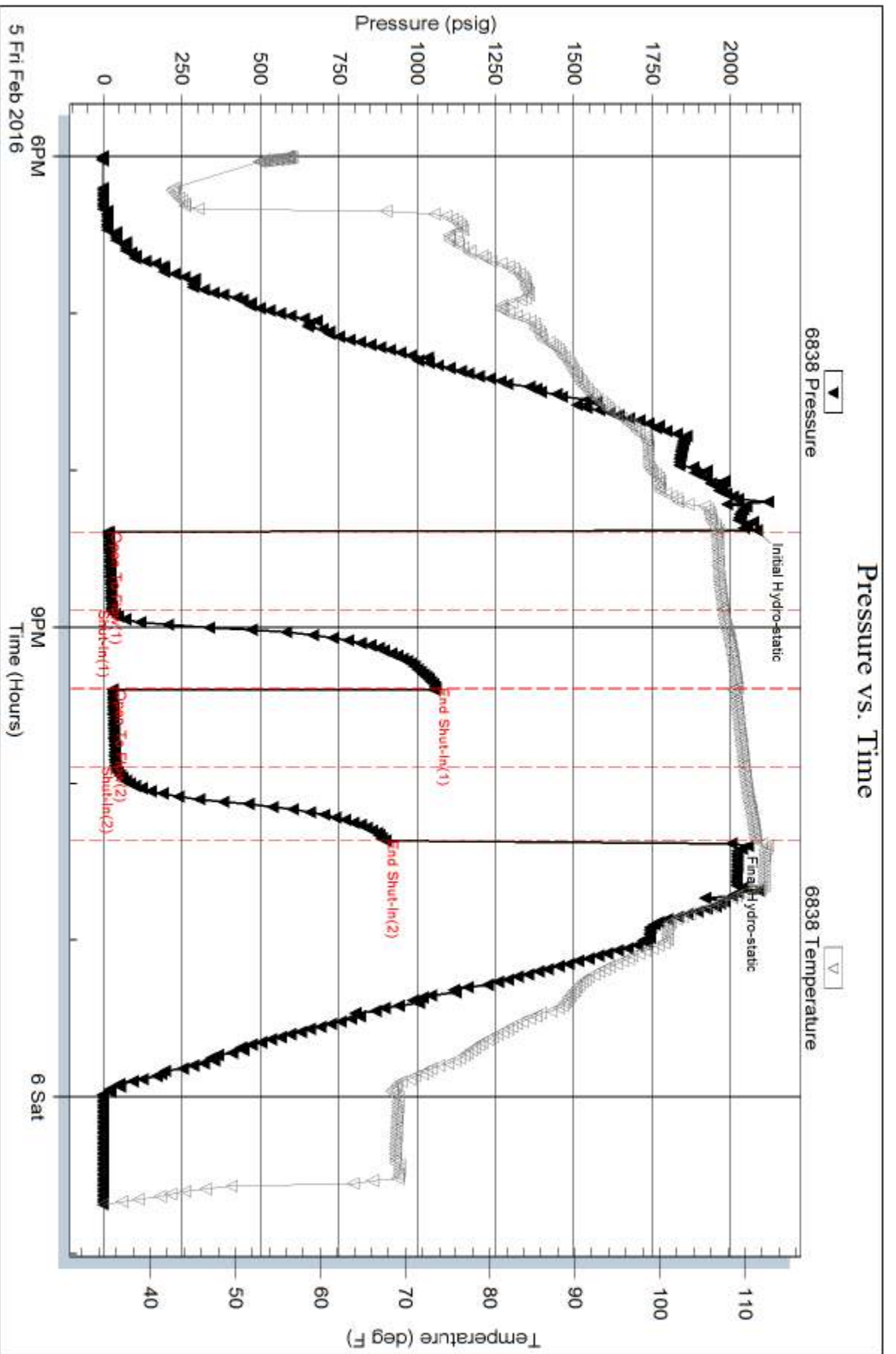
Serial #: 6838

Inside

Stelbar Oil Corporation Incorporated

23-1s-21w Ness, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61974

Printed: 2016.02.09 @ 09:21:04

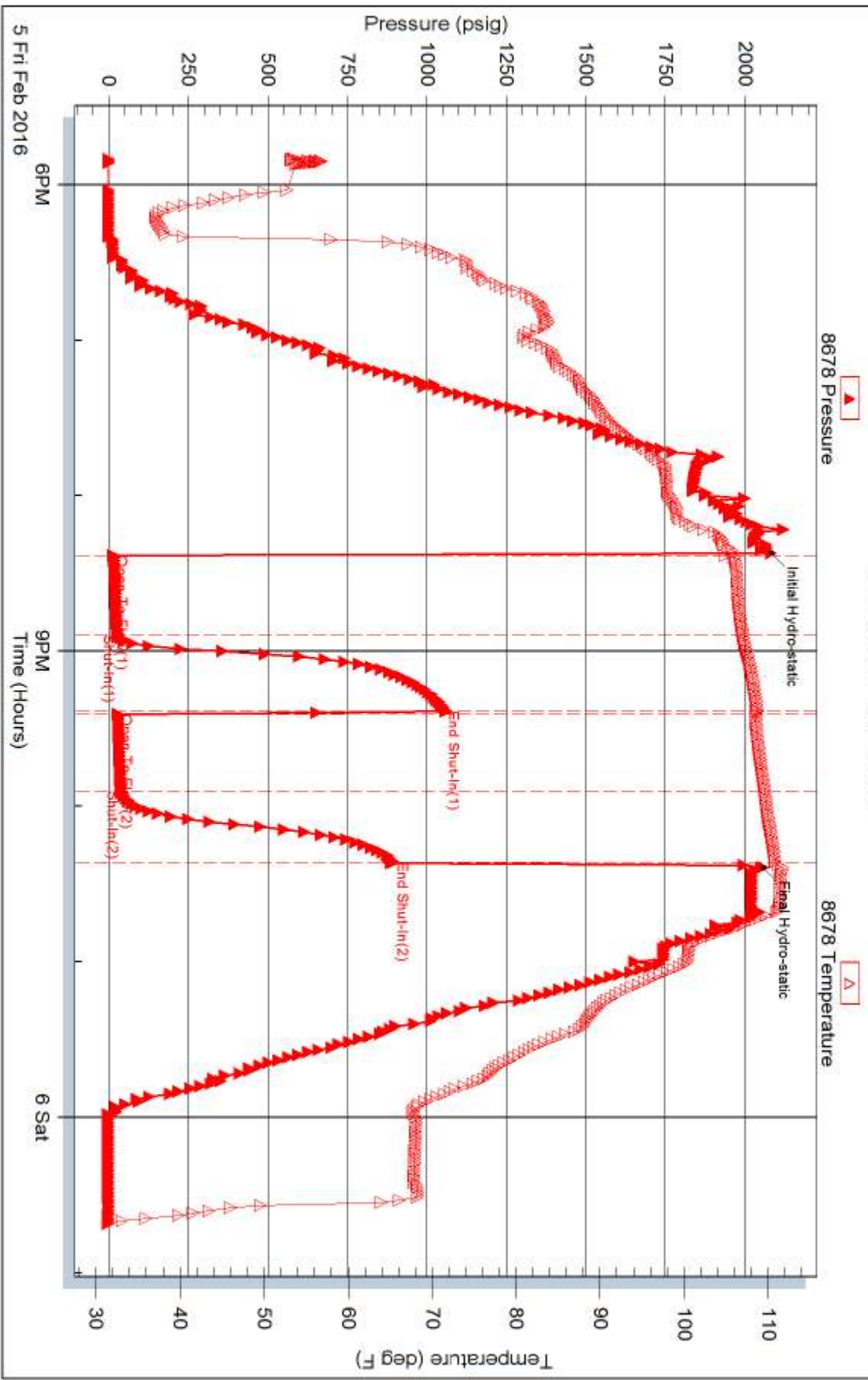
Serial #: 8678

Outside Stellar Oil Corporation Incorporated

23-1s-21w Ness, KS

DST Test Number: 1

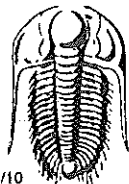
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 61974

Printed: 2016.02.09 @ 09:21:04



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61974

Well Name & No. Stephens-Higgins Unit 1-23 Test No. 1 Date 5 Feb 16
 Company Stellar Oil Corporation Incorporated Elevation 2176 KB 2171 GL
 Address 1625 N Waterfront Parkway Suite 200 Wichita, Kansas 67206-4602
 Co. Rep / Geo. Dave Galdak Rig Murphy Rig 16
 Location: Sec. 23 Twp. 17S Rge. 2W Co. Ness State KS

Interval Tested 4165-4182 Zone Tested Mississippi
 Anchor Length 17 Drill Pipe Run 4026 Mud Wt. 9.2
 Top Packer Depth 4160 Drill Collars Run 122.56 Vis 51
 Bottom Packer Depth 4145 Wt. Pipe Run — WL 8.0
 Total Depth 4182 Chlorides 8300 ppm System LCM 1#

Blow Description Initial Blow - Blow held in 1/2 inch then died to surface
Initial shut in no blow back
Final Blow - Surface blow that died in 10 minutes
Final shut in no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>45</u>	Feet of <u>Water cut with total mud</u>	%gas	%oil	<u>10</u> %water	<u>90</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 112 deg Gravity 44 API RW .5 @ 70 °F Chlorides 23000 ppm

(A) Initial Hydrostatic 2083 Test 1150 T-On Location 5:27 pm
 (B) First Initial Flow 14 Jars 250 T-Started 6:00 pm
 (C) First Final Flow 25 Safety Joint 75 T-Open 6:23 pm
 (D) Initial Shut-In 1059 Circ Sub _____ T-Pulled 10:23 pm
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 12:11 am
 (F) Second Final Flow 37 Mileage 84 84
 (G) Final Shut-In 896 Sampler 250
 (H) Final Hydrostatic 2001 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 30 Day Standby _____ Sub Total 0
 Initial Shut-In 30 Accessibility _____ Total 2059
 Final Flow 30 Sub Total 2059 MP/DST Disc't _____
 Final Shut-In 30

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GEOLOGIC REPORT

DAVID J. GOLDAK

WICHITA, KANSAS
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Stephen-Higgins Unit #1-23
Location: Section 23 - T17S - R21W
License Number: API: 15-135-25900
Spud Date: 01 / 30 / 2016
Surface Coordinates: 2537' FNL and 1465' FEL
SE - SE - SW - NE
Region: Ness Co., KS
Drilling Completed: 02 / 06 / 2016
Bottom Hole Coordinates:
Ground Elevation (ft): 2171' K.B. Elevation (ft): 2176'
Logged Interval (ft): 3550' To: 4260' Total Depth (ft): 4260'
Formation: Kinderhook
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Stelbar Oil Corporation
Address: 1625 N. Waterfront Pkwy., Suite 200
Wichita, Kansas 67206-6602

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 155 N. Market, Suite 710
Wichita, Kansas 67202

General Info

CONTRACTOR: Murfin Drilling, Rig #16

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Varel-ERT-RR	3-15s	319	319	2.25
2	7-7/8	HTC-GX20C	18-16-16	4260	3958	103.25

SURVEYS: 302'-0.25, 4182'-1.00

GENERAL DRILLING & PUMP INFORMATION:

Drilling with 35,000-36,000 lbs on bit and 75-80 RPM.
Drilling with 8-1/2 stands of collars (6.25"x2.25"): 505.67'
Pumping 62 S/M; 8.0 B/M; 700-800 psi at standpipe.

Daily Status

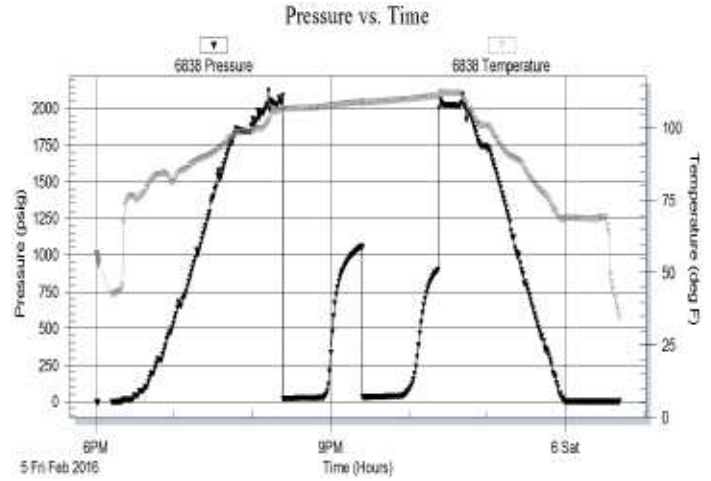
01/30/16 - Spud at 1:15 PM; Set 8-5/8" csg @ 301'
 01/31/16 - 440' WOC
 02/01/16 - 2,260' Drilling; Pump repair-down 11.25 hrs.
 02/02/16 - 2,660' Drilling; Displace @ 3,220'
 02/03/16 - 3,305' Drilling
 02/04/16 - 3,815' Drilling; Short trip @ 4,050'
 02/05/16 - 4,105' CFS; DST #1 @ 4,182'
 02/06/16 - 4,182' Drilling; RTD 4,260' at 12:05 PM

DST #1: 4,165' - 4,182' (Mississippian)
 30" - 30" - 30" - 30"

IF: Weak blow building to 1/2 inch
ISI: No blow back
FF: Surface blow, died in 10 minutes
FSI: No blow back

RECOVERY: 45' Total Fluid, consisting of:
 45' SWCOSM (10% W & 90% M)
Sampler: 1000 ml O, 1350 ml M, 150 ml W @ 35 psi
Oil Gravity: 44 API; Chlorides Rec: 23,000 ppm

SIP: 1060-897; FP: 15-26, 29-38; HP: 2084-2002;
BHT: 112



ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltyslts
	Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

FOSSIL

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

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

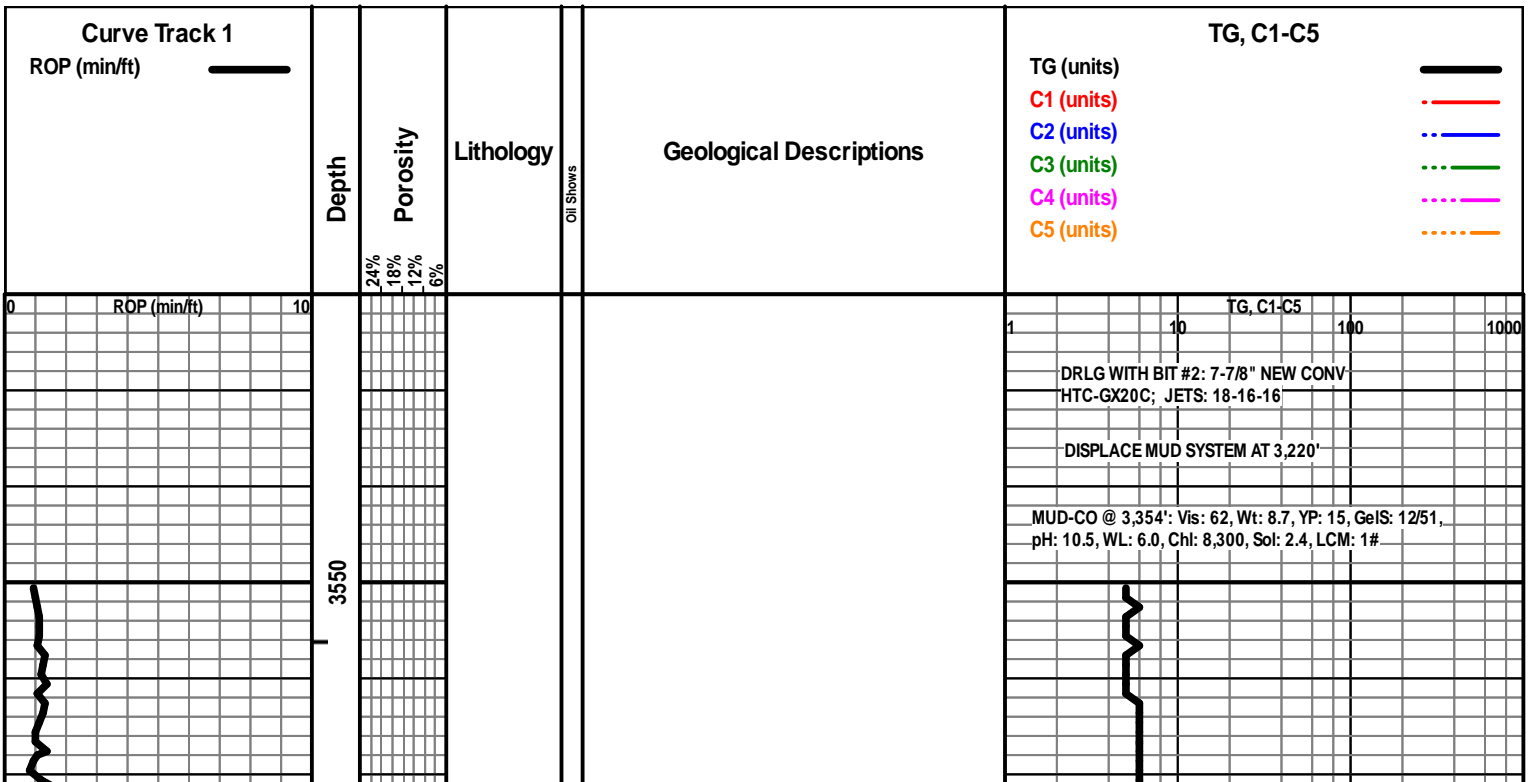
INTERVALS

- Core
- Dst

- Dst_1_t
- Dst_1_b
- Dst

EVENTS

- Rft
- Sidewall
- Conn



HEEBNER
3586 (-1410)

ROP (min/ft)

0 10

3600

3650

3700

3750

1

10

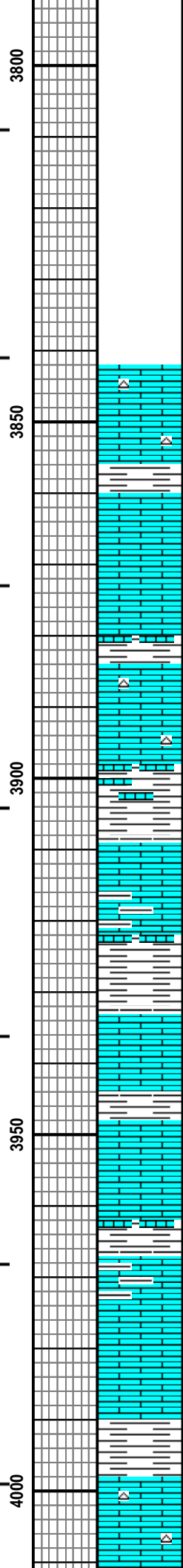
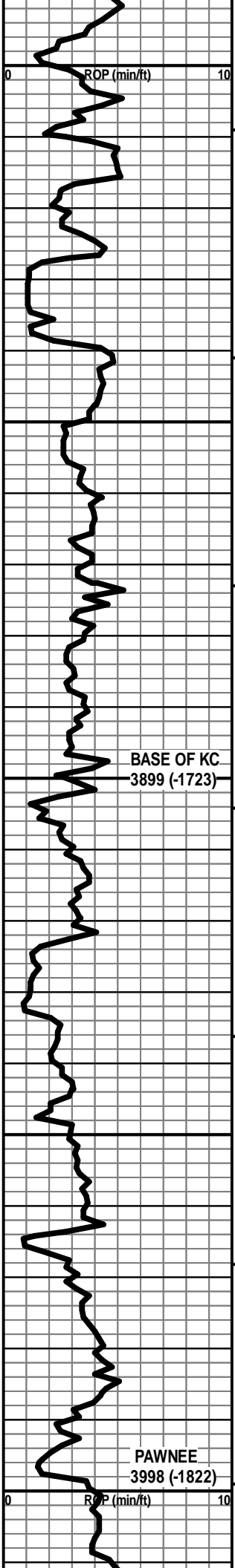
TG, C1-C5

100

1000

Vis: 54, Wt: 8.9
LCM: 1#

Vis: 55, Wt: 8.9
LCM: 1#



LS - CRM / TAN / SCAT BRN + GY, VF / F XLN, OOL + FOSS IN PT, SUBCHKY IN PT, SCAT G OOM POR (FROM ABOVE ?), PRED DNS, NS W/ SCAT CHT - GY / CRM

LS - CRM / TAN, VF / F XLN, OOL IN PT, PRED DNS, NS W/ SCAT SH - GY / GRN

LS - CRM / TAN / SCAT BRN, VF / F XLN, OOL IN PT, SCAT CHKY, PRED DNS, NS W/ SCAT CHT - LT GY

SH - RED / GY / BRN / GRN

LS - CRM / TAN / SCAT GY, VF / F XLN, FOSS + OOL IN PT, PRED DNS, NS W/ SH - GY / GRN

SH - GY / RED / GRN

LS - TAN / GY, VF XLN, FOSS IN PT, PRED DNS, NS

LS - CRM / TAN / GY, VF / F XLN, SLOOL + FOSS, SUBCHKY IN PT, PRED DNS, NS W/ SH - GRY / RED

ABNT SH - GY / RED W/ LS - SIM TO ABOVE, PRED DNS, NS

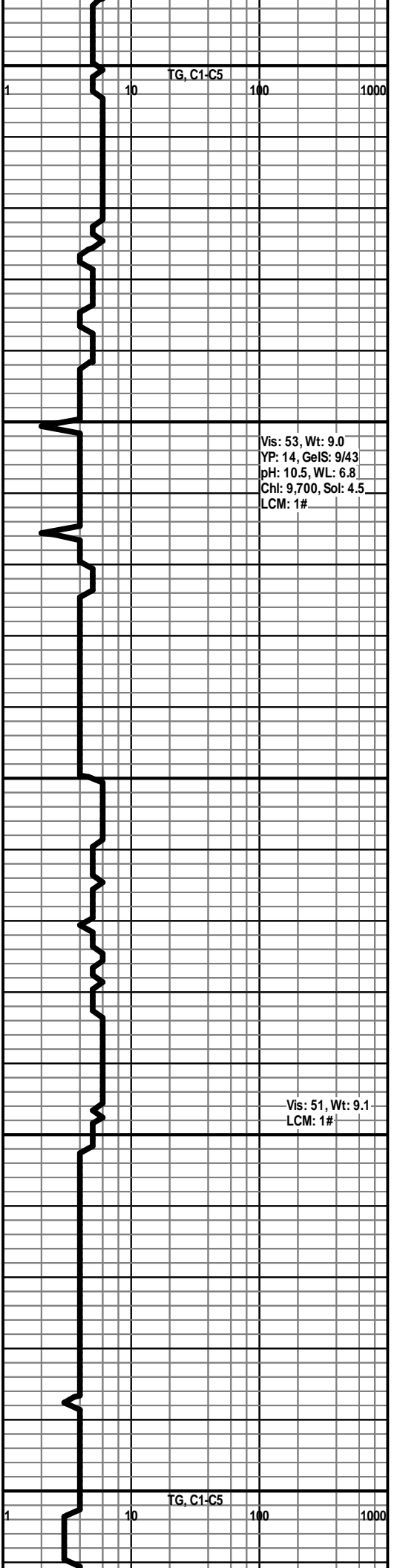
LS - TAN / GY, VF / CRYPTO XLN, TR FOSS, CHKY IN PT / PRED DNS, NS W/ F AMT SH - AS ABOVE

SH - GY / RED / GRN

LS - CRM / GY / WHT, VF / F XLN, CHKY IN PT, PRED DNS, NS W/ CHT - TAN / YEL / ORG / GY

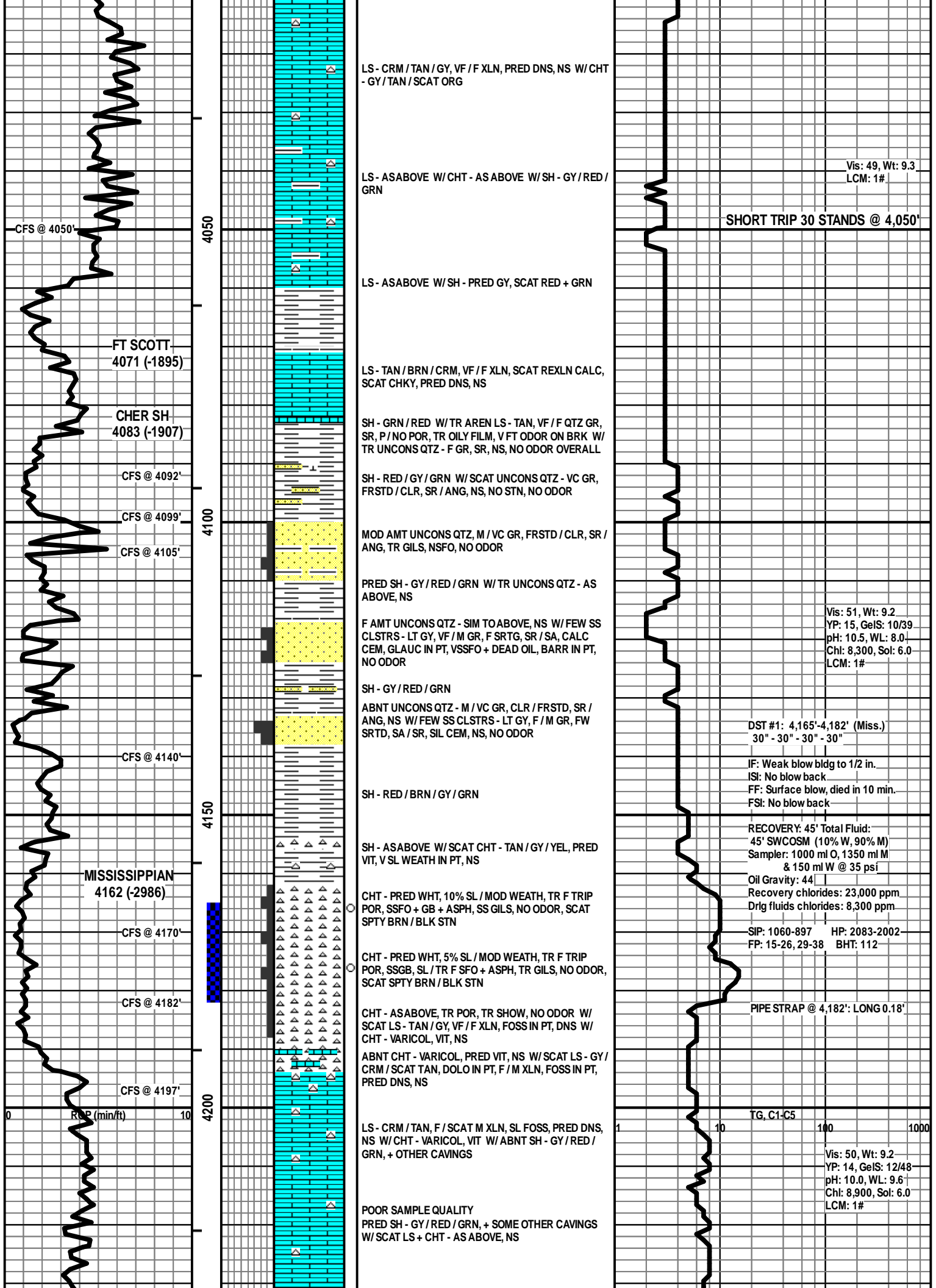
BASE OF KC
3899 (-1723)

PAWNEE
3998 (-1822)



Vis: 53, Wt: 9.0
YP: 14, GelS: 9/43
pH: 10.5, WL: 6.8
Chl: 9,700, Sol: 4.5
LCM: 1#

Vis: 51, Wt: 9.1
LCM: 1#



LS - CRM / TAN / GY, VF / F XLN, PRED DNS, NS W/ CHT - GY / TAN / SCAT ORG

LS - AS ABOVE W/ CHT - AS ABOVE W/ SH - GY / RED / GRN

Vis: 49, Wt: 9.3
LCM: 1#

SHORT TRIP 30 STANDS @ 4,050'

LS - AS ABOVE W/ SH - PRED GY, SCAT RED + GRN

LS - TAN / BRN / CRM, VF / F XLN, SCAT REXLN CALC, SCAT CHKY, PRED DNS, NS

SH - GRN / RED W/ TR AREN LS - TAN, VF / F QTZ GR, SR, P / NO POR, TR OILY FILM, V FT ODOR ON BRK W/ TR UNCONS QTZ - F GR, SR, NS, NO ODOR OVERALL

SH - RED / GY / GRN W/ SCAT UNCONS QTZ - VC GR, FRSTD / CLR, SR / ANG, NS, NO STN, NO ODOR

MOD AMT UNCONS QTZ, M / VC GR, FRSTD / CLR, SR / ANG, TR GILS, NSFO, NO ODOR

PRED SH - GY / RED / GRN W/ TR UNCONS QTZ - AS ABOVE, NS

F AMT UNCONS QTZ - SIM TO ABOVE, NS W/ FEW SS CLSTRS - LT GY, VF / M GR, F SRTG, SR / SA, CALC CEM, GLAUC IN PT, VSSFO + DEAD OIL, BARR IN PT, NO ODOR

Vis: 51, Wt: 9.2
YP: 15, GeIS: 10/39
pH: 10.5, WL: 8.0
Chl: 8,300, Sol: 6.0
LCM: 1#

SH - GY / RED / GRN

ABNT UNCONS QTZ - M / VC GR, CLR / FRSTD, SR / ANG, NS W/ FEW SS CLSTRS - LT GY, F / M GR, FW SRTD, SA / SR, SIL CEM, NS, NO ODOR

DST #1: 4,165'-4,182' (Miss.)
30" - 30" - 30" - 30"

IF: Weak blow bldg to 1/2 in.
ISI: No blow back
FF: Surface blow, died in 10 min.
FSI: No blow back

SH - RED / BRN / GY / GRN

SH - AS ABOVE W/ SCAT CHT - TAN / GY / YEL, PRED VIT, V SL WEATH IN PT, NS

RECOVERY: 45' Total Fluid:
45' SWCOSM (10% W, 90% M)
Sampler: 1000 ml O, 1350 ml M
& 150 ml W @ 35 psi
Oil Gravity: 44
Recovery chlorides: 23,000 ppm
Drig fluids chlorides: 8,300 ppm

CHT - PRED WHT, 10% SL / MOD WEATH, TR F TRIP POR, SSGF + GB + ASPH, SS GILS, NO ODOR, SCAT SPTY BRN / BLK STN

SIP: 1060-897 HP: 2083-2002
FP: 15-26, 29-38 BHT: 112

CHT - PRED WHT, 5% SL / MOD WEATH, TR F TRIP POR, SSGF, SL / TR F SFO + ASPH, TR GILS, NO ODOR, SCAT SPTY BRN / BLK STN

PIPE STRAP @ 4,182': LONG 0.18'

CHT - AS ABOVE, TR POR, TR SHOW, NO ODOR W/ SCAT LS - TAN / GY, VF / F XLN, FOSS IN PT, DNS W/ CHT - VARICOL, VIT, NS

ABNT CHT - VARICOL, PRED VIT, NS W/ SCAT LS - GY / CRM / SCAT TAN, DOLO IN PT, F / M XLN, FOSS IN PT, PRED DNS, NS

TG, C1-C5

LS - CRM / TAN, F / SCAT M XLN, SL FOSS, PRED DNS, NS W/ CHT - VARICOL, VIT W/ ABNT SH - GY / RED / GRN, + OTHER CAVINGS

Vis: 50, Wt: 9.2
YP: 14, GeIS: 12/48
pH: 10.0, WL: 9.6
Chl: 8,900, Sol: 6.0
LCM: 1#

POOR SAMPLE QUALITY
PRED SH - GY / RED / GRN, + SOME OTHER CAVINGS W/ SCAT LS + CHT - AS ABOVE, NS

KIND SH ?
4238 (-2062)

4250

POOR SAMPLE QUALITY
PRED SH - GY / RED / GRN, + SOME OTHER CAVINGS
W/ SCAT LS + CHT - AS ABOVE, NS

POOR SAMPLE QUALITY
PRED SH - GY / RED / GRN, + SOME OTHER CAVINGS
W/ SCAT LS + CHT - AS ABOVE, NS

TOTAL DEPTH 4260 (-2084)

Vis: 52, Wt: 9.3
LCM: 1#

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Stephens Oil Corp. Inc		Lease No.		Date 1/30/2016	
Lease Stephens - Higgins Unit		Well # 1-23			
Field Order # 12575	Station P1511, KS	Casing 8 5/8"	Depth 301'	County Ness	State KS
Type Job CNU / 8 5/8" Sulfur		Formation TD-302'		Legal Description 23-17-21	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8 5/8"								
Depth 301'	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 19	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 280	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load	

Customer Representative Andy			Station Manager Kevin Gordley			Treater Darin Franklin		
Service Units	92911	78982	86779	19955	21010			
Driver Names	Darin	Tim	Tim	McGrew	McGrew			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00pm					on location / 155 pps meeting
					2155K 60/40 P02, 3% occ, 1/2 # cell / 1sk
					14.8 pps, 1.21 void, 5.18 water
7:30pm	150		3		Pump 3 bbls water
	150		46		mix 2155K cement
	150		17 3/4		Dispense 17 3/4 bbls water
7:45pm					Shut in
					Cement displaced
					Job complete / Darin & crew
					Thank you!!!

Customer Spartan Oil Corp. Inc	Lease No.	Date 2-7-16
Lease Stephens - Higgins Unit	Well # 1-23	
Field Order # 15011	Station Pratt	Casing
Type Job CNW plug to Abandon	Depth 1480'	County Ness
	Formation	State KS
		Legal Description 23-17-21

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid- cmi 250 SKI	60/40 RATE	PRESS	ISIP
Depth 1480	Depth	From	To	Pre Pad 4% gel	Max 1/4 #	CF	5 Min.
Volume 60	Volume	From	To	Pad	Min		10 Min.
Max Press 400	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 1480	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative TYSON	Station Manager Kevin Gaudin	Treater Mike Mattui
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Service Units	37584	19843	19960	19862				
Driver Names	Mattui	M. McGraw	E J McGraw					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:20					ON location / SARRY MATUI
					1st plug @
1:20		300	15	5	PUMP 15 bbl WATER
1:31		200	12	5	MIX 50 SKI @ 13.78 PPg
1:35		150	5	5	PUMP 5 bbl WATER
1:37		100	7	5	PUMP 7 bbl WATER
					2nd plug @ 750'
2:23		200	10	5	PUMP 10 bbl WATER
2:35		200	20	5	MIX 80 SKI @ 13.78 PPg
2:40		100	1	5	PUMP 1 bbl WATER
					3rd plug @ 330'
3:04		100	5	4	PUMP 5 bbl WATER
3:06		100	12	4	MIX 50 SKI @ 13.78 PPg
3:10		100	1	4	PUMP 1 bbl WATER
					4th plug @ 600'
5:00			5		MIX 20 SKI @ 13.78 PPg
					CMi TO SURFACE
5:05			7, 5		Plug RAT + mouse hole
					JOB COMPLETE
					THANK YOU!
					Mike Mattui, Matt & E.J.