

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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)</i> <i>(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	Stewart Producers, Inc.
Well Name	SUTTON 4
Doc ID	1384115

Tops

Name	Top	Datum
Anhydrite	1604	720
Base Anhydrite	1637	687
Heebner	3672	-1348
Lansing	3714	-1390
BKC	4045	-1721
Pawnee	4136	-1812
Ft. Scott	4214	-1890
Cherokee	4238	-1914
Miss.	4310	-1986

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Sutton #4
Location: Section 8 - T18S - R24W
License Number: API: 15-135-25980
Spud Date: 12 / 07 / 2017
Surface Coordinates: 1784' FSL and 1700' FWL
NE - SW - NE - SW
Region: Ness Co., KS
Drilling Completed: 12 / 13 / 2017
Bottom Hole Coordinates:
Ground Elevation (ft): 2319' K.B. Elevation (ft): 2324'
Logged Interval (ft): 3500' To: 4410' Total Depth (ft): 4410'
Formation: Mississippian
Type of Drilling Fluid: Chemical - Mud Co

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

OPERATOR

Company: Stewart Producers, Inc.
Address: PO Box 546
Mt Vernon, IL 62864

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 12427 W Ridgepoint Cir
Wichita, Kansas 67235

General Info

CONTRACTOR: WW Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Smith-?	15-15-15	233	233	3.75
2	7-7/8	Smith-F27	15-15-15	4410	4191	98.25

SURVEYS: 219'-0.75, 4335'-1.25, 4410'-0.75

GENERAL DRILLING & PUMP INFORMATION:

Drilling with 16 collars (6.25"x2.25"): 479.79'
Drilling with 38,000 lbs on bit and 75-85 RPM.
Pumping 60 S/M; 7.74 B/M; and 750-850 psi at the Standpipe.

Daily Status

12/07/17 - Spud at 4:30 PM; Set 8-5/8" Csg at 218'
 12/08/17 - 219' Drilling; DP @ 7:00 AM
 12/09/17 - 2,219' Drilling
 12/10/17 - 3,035' Drilling; Displace @ 3,616'
 12/11/17 - 3,733' Drilling
 12/12/17 - 4,191' Wiper trip; DST #1 @ 4,335'
 12/13/17 - 4,335' TIH; RTD @ 4,410'; Log well in PM

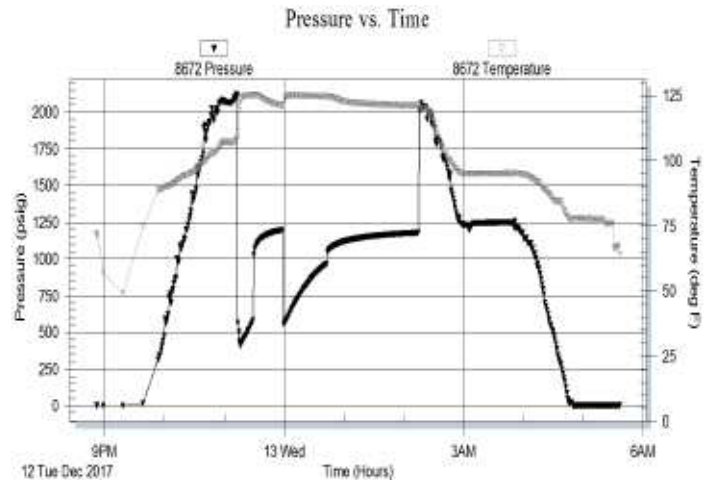
	Log Tops	Sample Tops
Anhydrite	1604 (+720)	
Base/Anhy	1647 (+677)	1643 (+681)
Heebner	3672 (-1348)	3674 (-1350)
Lansing	3714 (-1390)	3716 (-1392)
Stark Sh	3994 (-1670)	3996 (-1672)
BKC	4045 (-1721)	4050 (-1726)
Pawnee	4136 (-1812)	4136 (-1812)
Ft Scott	4214 (-1890)	4216 (-1892)
Cherokee	4238 (-1914)	4241 (-1917)
Mississippian	4310 (-1986)	4312 (-1988)
Total Depth	4409 (-2085)	4410 (-2086)

DST #1: 4,316' - 4,335' (Mississippian)
 15" - 30" - 45" - 90"

IF: Strong blow building to BOB in 1 minute
ISI: Blow built to 1 inch
FF: Strong blow building to BOB in 1 minute
FSI: Blow built to 1/4 inch, died in 30 minutes

RECOVERY: 248' GIP & 2630' Total Fluid:
 2630' GCO (10% G & 90% O)
 Oil was reversed to vac truck

SIP: 1198-1178; FP: 422-579, 552-961; HP: 2110-2021;
BHT: 121



ROCK TYPES

	Anhy		Gyp		Shgy		Sandylms
	Bent		Igne		Sltst		Shale
	Brec		Lmst		Ss		Sltstn
	Cht		Meta		Till		Shlyslts
	Clyst		Mrlst		Carb sh		Sltys h
	Coal		Salt		Dol		Lms
	Congl		Shale		Dtd		
	Dol		Shcol		Gry sh		

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

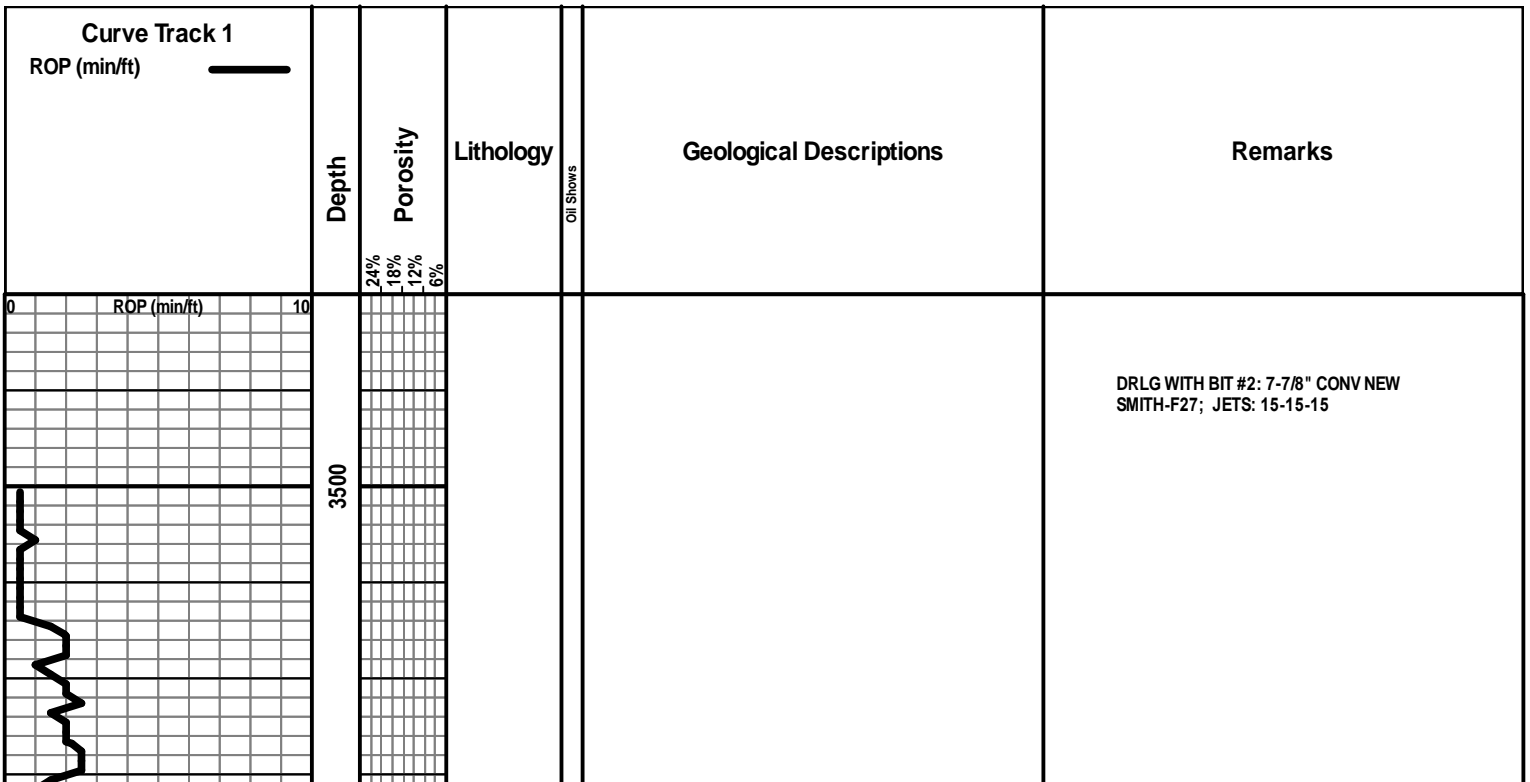
INTERVALS

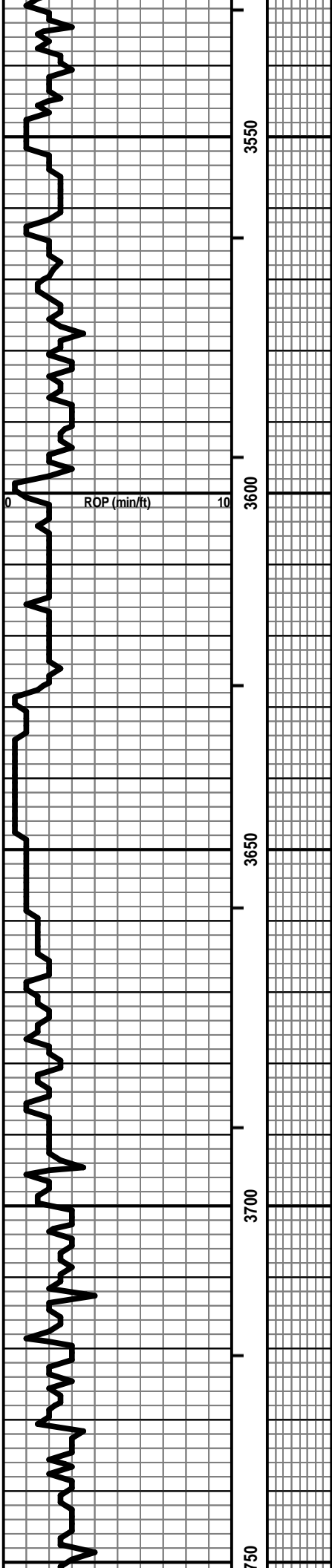
- Core
- Dst

- Dst_1_t
- Dst_1_b
- Dst

EVENTS

- Rft
- Sidewall
- Conn

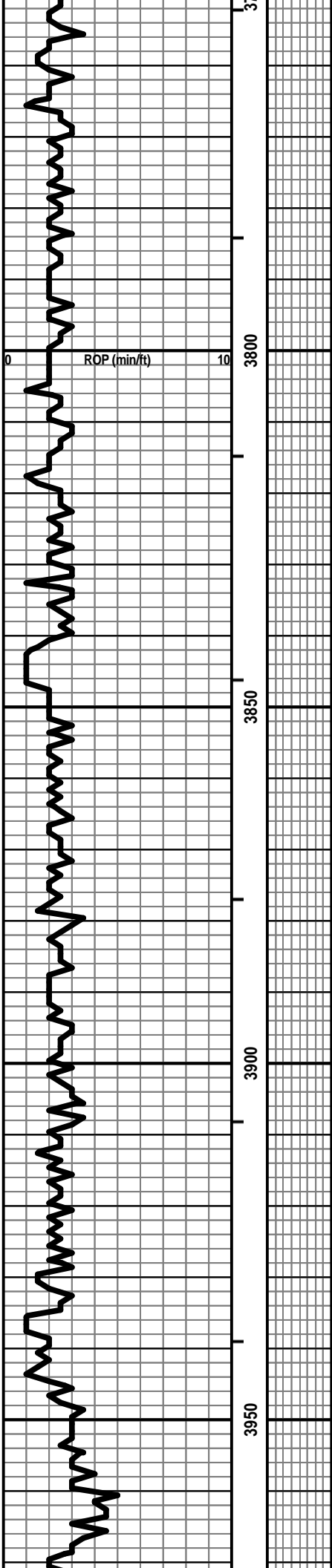




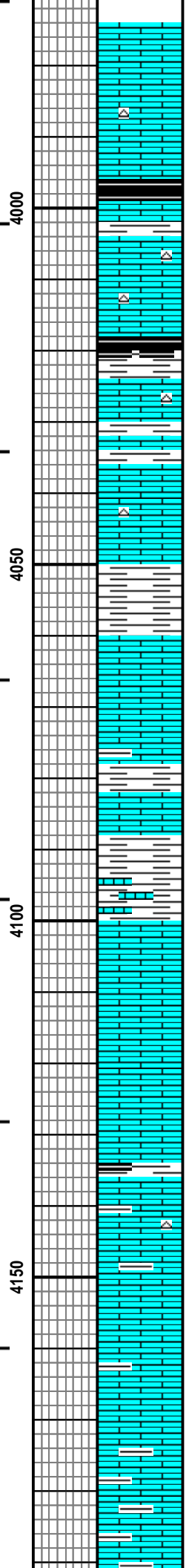
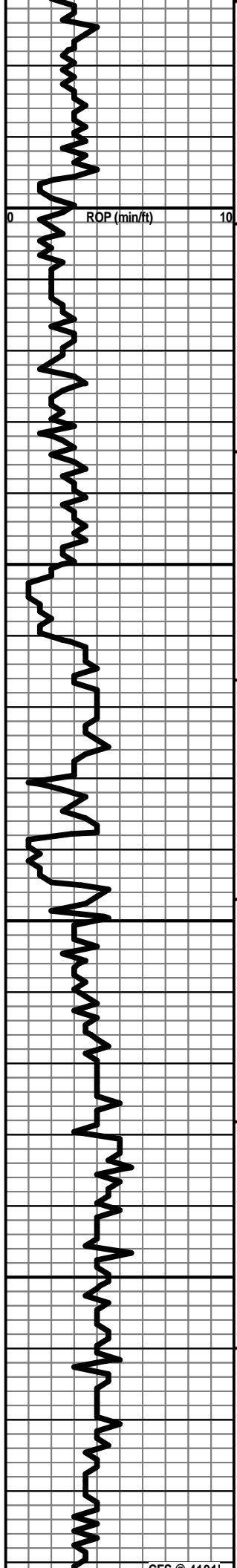
DISPLACE MUD SYSTEM @ 3,616'

HEEBNER 3674 (-1350)

LANSING 3716 (-1392)



Vis: 53, Wt: 8.8, YP: 13,
GelS: 8/31, pH: 10.5, WL: 8.0,
Chl: 5,000, Sol: 3.3, LCM: 2#



LS - GY / TAN / SCAT CRM, F / VF XLN, OOL IN PT, SL FOSS, SCAT SUBCHKY, PRED DNS, NS W/ TR CHT - WHT

SH - BLK, CARB

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

SH - GY / BLK, CARB IN PT W/ LS - TAN / BRN, VF / F XLN, SCAT OOL, PRED DNS, NS W/ CHT - LT / DK GY

LS - TAN / BRN, MOT IN PT, F / VF XLN, TR OOL + FOSS, SCAT SUBCHKY, PRED DNS, NS W/ CHT - LT / DK GY W/ SH - GY / SCAT GRN

PRED SH - GY / SCAT GRN

LS - CRM / TAN, F XLN, SCAT REXLN CALC, FOSS IN PT, SCAT OOL, PRED DNS, NS

LS - TAN / BRN, MOT IN PT, VF / F XLN, PRED DNS, NS

SH - VARICOL W/ LS - CRM / TAN, VF / CRYPTO XLN, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, SCAT CRYPTO XLN, TR FOSS, SCAT CHKY, PRED DNS, NS

LS - CRM / TAN / LT GY, VF / F XLN, SL FOSS, OOL IN PT, PRED DNS, NS

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

LS - TAN / BRN, VF / F XLN, SL ARGIL, PRED DNS, NS

LS - BRN / TAN, VF / F XLN, MOD ARGIL (MED / DK GY SH), SUBCHKY IN PT, PRED DNS, NS

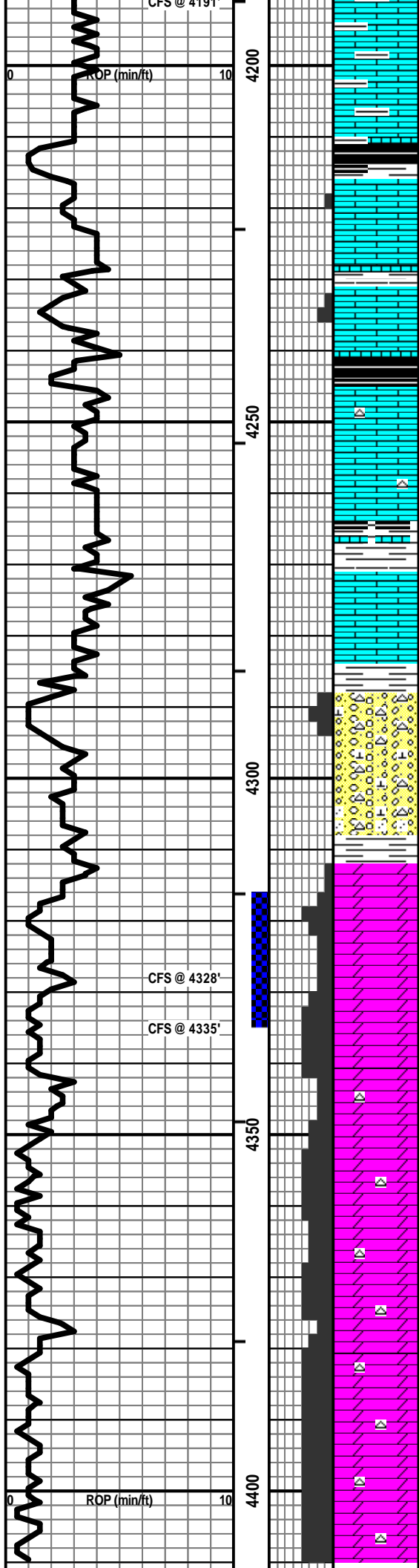
STARK SHALE 3996 (-1372)

Vis: 53, Wt: 8.8, LCM: 2#

BASE OF KC 4050 (-1726)

PAWNEE 4136 (-1812)

Vis: 52, Wt: 9.1, LCM: 2#



LS - BRN / TAN, VF / F XLN, V ARGIL (MED / DK GY SH),
SUBCHKY IN PT, PRED DNS, NS

FT SCOTT 4216 (-1892)

Vis: 51, Wt: 9.1, YP: 15,
GelS: 9/34, pH: 10.5, WL: 8.4,
Chl: 6,600, Sol: 5.4, LCM: 2#

CHEROKEE SH 4241 (-1917)

SH - GY / BLK, CARB IN PT W/LS - CRM / TAN, F / VF XLN,
SL OOL + FOSS, TR P VUG POR, PRED DNS, TR FO, SSGB, FT
ODOR, TR SPTY STN, F / G FLUOR + CUT

LS - CRM / TAN, F / VF XLN, FOSS + OOL IN PT, SCAT P / F
VUG + INTXLN POR, SL / F SFO, SSGB, F ODOR, SCAT SPTY /
SAT STN, G FLUOR + CUT

DST #1: 4,316' - 4,335' (Mississippian)
15" - 30" - 45" - 90"

IF: Strong blow, BOB in 1 min.
IS: Blow built to 1 inch
FF: Strong blow, BOB in 1 min.
FSI: Blow built to 1/4 inch; then died

RECOVERY: 248' GIP & 2630' Total Fluid:
2630' GCO (10% G & 90% O)
Oil was reversed to vac truck

SIP: 1198-1178 HP: 2110-2021
FP: 422-579, 552-961 BHT: 121

LS - TAN / BRN, MOT IN PT, VF / F XLN, FOSS IN PT, PRED
DNS, NS W/ CHT - LT GY / WHT

SH - GY / BLK W/LS - AS ABOVE

LS - CRM / GY / SCAT TAN, F / VF XLN, SCAT REXLN CALC,
FOSS IN PT, SL OOL, PRED DNS, NS

CONGL: CHT - PRED GY / WHT, SOME VARICOL, P / F
WEATH POR, F / G SFO, SPTY / SAT STN, P / G FLUOR, G CUT
W/LS - CRM / TAN, MOT, F XLN, CHTY IN PT, SCAT P INTXLN
POR, SSFO, SCAT SPTY STN, P / G FLUOR, G CUT W/SH -
PRED GY OVERALL FT ODOR

CONGL: CHT - VARICOL, PRED NO VIS POR, NS W/LS - AS
ABOVE, PRED DNS, NS W/ SCAT SS - LT GY, VF / F QTZ GRS,
NO VIS POR, NS W/SH - GY

MISSISSIPPIAN 4312 (-1988)

Vis: 55, Wt: 9.0, LCM: 2#

PIPE STRAP @ 4,335': SHORT 2.04'

DOLO - CRM / TAN / LT GY, MOT, F / M XLN, P / G VUG +
INTXLN POR, F / G SFO, F ODOR, SAT / SPTY STN, G FLUOR +
CUT

DOLO - LT GY, VF XLN, P / SCAT F VUG POR, P INTXLN POR,
SSFO, SPTY STN W/ SOME DOLO - V SIM TO ABOVE, F ODOR

DOLO - CRM / LT GY / SCAT TAN, MOT IN PT, F / M XLN, P / G
VUG + INTXLN POR, SCAT SUCCR, F / G SFO, F / G ODOR, SAT
/ SPTY STN, G FLUOR + CUT

DOLO - CRM / LT GY / SCAT TAN, MOT IN PT, F / M XLN, FOSS
IN PT, F / G VUG + INTXLN POR, F / G SFO, G ODOR, SAT /
SPTY STN

DOLO - CRM / LT GY, MOT IN PT, F / M XLN, FOSS IN PT, PRED
F VUG + INTXLN POR, SCAT P POR, F / G SFO, SCAT BARR
POR, G ODOR, PRED SPTY / SAT STN W/ SCAT CHT - WHT /
LT GY

DOLO - CRM / LT GY, MOT IN PT, F / M XLN, F / G VUG +
INTXLN POR, P / F SFO, MOD AMT BARR POR, F ODOR,
SPTY / NO STN W/ SCAT CHT - WHT / LT GY

DOLO - CRM / LT GY, MOT IN PT, F / M XLN, F / G VUG +
INTXLN POR, SSFO IN PT, ABNT BARR POR, FT / V FT ODOR,
SCAT SPTY STN, PRED NO STN W/ CHT - WHT / LT GY

DOLO - CRM / LT GY, MOT IN PT, F / M XLN, F / G VUG +
INTXLN POR, TR FO, PRED NS, NO ODOR, TR SPTY STN W/
CHT - WHT / LT GY

DOLO - CRM / LT GY, MOT IN PT, F / M XLN, F / G VUG +
INTXLN POR, NS, NO ODOR W/ CHT - WHT / LT GY

Vis: 52, Wt: 9.2, YP: 15,
GelS: 9/35, pH: 9.5, WL: 8.8,
Chl: 7,600, Sol: 6.0, LCM: 2#

TOTAL DEPTH 4410 (-2086)

				TOTAL DEBITO (1999)
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Customer Stewart Well Service	Lease No.	Date 12/1/2017
Lease Sutton	Well # 4	
Field Order # 16062	Station Pratt, KS	Casing 5 1/2
		Depth 4409
Type Job 2 42/5 1/2 Longstrings	Formation TD-4410	County Ness
		State KS
		Legal Description 8-18S-24W

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 4409	Depth	From	To	Pre Pad	Max		5 Min.
Volume 105	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 4374	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative: Robert Stewart Station Manager: Justin Westerman Treater: Dgcin Franklin

Service Units	92911	84981	19843	19903	73768				
Driver Names	Dgcin	Ed	Ed	Dillon	Dillon				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:30pm					On Location / Safety meeting
					200SK AP2 Cement, 10% Sgrt, 10% Gypsum, 0.8% Fluid loss, 0.25 pps
					Cellofloc, 5 pps gilsonite
					14.8 ppg, 1.54 veils, 6.52 GSI/sk
					50 SK 60/40 POZ + 4% Gel
					13.78 pps, 1.43 veils, 6.42 GSI/sk
2:45pm	300		24	5	Pump 24 bbls 2% KCL water
	300		12	5	Pump 12 bbls mud flush
	300		3	5	Pump 3 bbls water
	300		55	5	mix 200SK AP2
					Shut down
					Wash pump & lines & Release Plug
	200		0	5	Start displacement
	400		66	5	Lift Pressure
	800		94	3	Slow Rate
3:30pm	1500		101	3	Bump Plug
					Flow - Held
	50		7	3	Plug Rate hole - 30 sk 60/40
					Job Complete / Dgcin & crew
					Thank you!!!

JOB LOG

SWIFT Services, Inc.

DATE 12-7-17 PAGE NO. 1

CUSTOMER STEWART PRODUCERS WELL NO. #4 LEASE SUTTON JOB TYPE 8 5/8" SURFACE TICKET NO. 30804

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							ON LOCATION
								TD - 219' 8 5/8" # 23
								TP - 219' SET - 219'
								15' CEMENT LEFT IN CASING
	2220							CIRCULATE WELL w/ MUD PUMP
	2245	5	39		✓	150		MIX CEMENT - 160 SKS STANDARD 2% GEL, 3% CC
	2257	6 1/2	13		✓	200		DISPLACE CEMENT
	2300							SHUT IN WELL
								CIRCULATED 20 SKS CEMENT TO BIT
								WASH TRUCK
	2400							JOB COMPLETE
								THANK YOU WAYNE, BLAZIE, KIRBY

JOB LOG

SWIFT Services, Inc.

DATE 12-29-17	PAGE NO. 1
TICKET NO. # 31182	

CUSTOMER Stewart Producers	WELL NO. # 4	LEASE Sutton	JOB TYPE Port Collar
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							on location 2 3/8 x 5 1/2"
								P.C. 1657'
	1030	∅	∅		✓	1000		Pressure Test *Hold*
								Open P.C.
	1040	3 1/2	5		✓	400		Injection Rate
	1045	3 1/2	78		✓	300		mix 140 sks SMO 1/4" Flo @ 11.2 ppg circulate cement to surface
	1100	3 1/2	6		✓	400		Displace Cement
	1105	∅	∅		✓	1000		Close P.C. Test *Hold*
	1115							Run BJTs
	1130	3	25		✓	300		Reverse Clean
								wash up truck
								* 140 sks Total *
								* 20 sks To Pit *
	1200							Job Complete

RECEIVED

JAN - 8 2017

Thank You
Dave Preston Shaw



DRILL STEM TEST REPORT

Prepared For: **Stewart Producers Inc.**

PO Box 546
Mt. Vernon IL 62864

ATTN: Dave Goldak

Sutton #4

8-18s-24w Ness,KS

Start Date: 2017.12.12 @ 20:51:15

End Date: 2017.12.13 @ 05:36:30

Job Ticket #: 64404 DST #: 1

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

Printed: 2017.12.13 @ 14:22:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stewart Producers Inc.

8-18s-24w Ness, KS

PO Box 546
Mt. Vernon IL 62864

Sutton #4

Job Ticket: 64404

DST#: 1

ATTN: Dave Goldak

Test Start: 2017.12.12 @ 20:51:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:15:00

Time Test Ended: 05:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4316.00 ft (KB) To 4335.00 ft (KB) (TVD)

Reference Elevations: 2324.00 ft (KB)

Total Depth: 4316.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

Serial #: 8672

Inside

Press@RunDepth: 961.52 psig @ 4317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.12.12

End Date:

2017.12.13

Last Calib.:

2017.12.13

Start Time: 20:51:15

End Time:

05:36:30

Time On Btm:

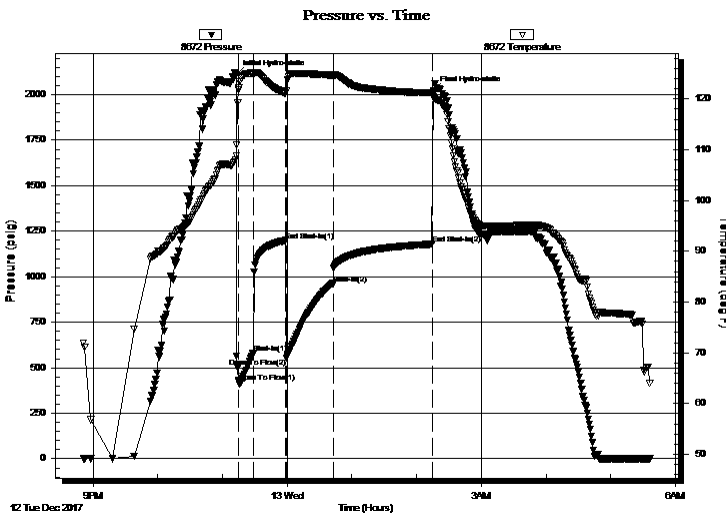
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Time Off Btm:

2017.12.13 @ 02:15:30

TEST COMMENT: IF: Built to 52" blow (iPro) BOB in 1 min Bucket
IS: Return blow built to 1"
FF: Built to 312" blow (iPro) BOB in 1 min bucket
FS: Return blow built to 1/4" and died in 30 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.69	108.82	Initial Hydro-static
3	422.78	121.71	Open To Flow (1)
16	579.52	124.99	Shut-In(1)
46	1198.40	120.94	End Shut-In(1)
47	552.82	121.52	Open To Flow (2)
90	961.52	124.66	Shut-In(2)
182	1178.23	121.14	End Shut-In(2)
183	2021.66	120.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 248 ft	0.00
2630.00	gco 10%g 90%o	35.80

Gas Rates

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



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2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

Serial #: 8374 Outside

Press@RunDepth: psig @ 4317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.12.12

End Date: 2017.12.13

Last Calib.: 2017.12.13

Start Time: 20:51:15

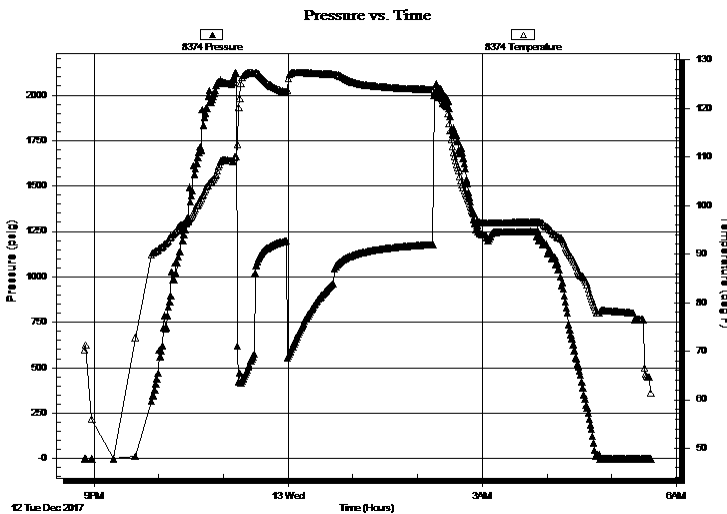
End Time: 05:36:30

Time On Btm:

Time Off Btm:

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PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 248 ft	0.00
2630.00	gco 10%g 90%o	35.80

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stewart Producers Inc.

8-18s-24w Ness,KS

PO Box 546
Mt. Vernon IL 62864

Sutton #4

Job Ticket: 64404

DST#: 1

ATTN: Dave Goldak

Test Start: 2017.12.12 @ 20:51:15

Tool Information

Drill Pipe:	Length: 4174.00 ft	Diameter: 3.80 inches	Volume: 58.55 bbl	Tool Weight: 1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.14 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4316.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	52.00 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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Change Over Sub	1.00			4284.00	
Shut In Tool	5.00			4289.00	
Hydraulic tool	5.00			4294.00	
Jars	5.00			4299.00	
EM Tool	5.00			4304.00	
Safety Joint	3.00			4307.00	
Packer	5.00			4312.00	33.00 Bottom Of Top Packer
Packer	4.00			4316.00	
Stubb	1.00			4317.00	
Recorder	0.00	8672	Inside	4317.00	
Recorder	0.00	8374	Outside	4317.00	
Perforations	13.00			4330.00	
Bullnose	5.00			4335.00	19.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stewart Producers Inc.

8-18s-24w Ness,KS

PO Box 546
Mt. Vernon IL 62864

Sutton #4

Job Ticket: 64404

DST#: 1

ATTN: Dave Goldak

Test Start: 2017.12.12 @ 20:51:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	GIP= 248 ft	0.000
2630.00	gco 10%g 90%o	35.799

Total Length: 2630.00 ft Total Volume: 35.799 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

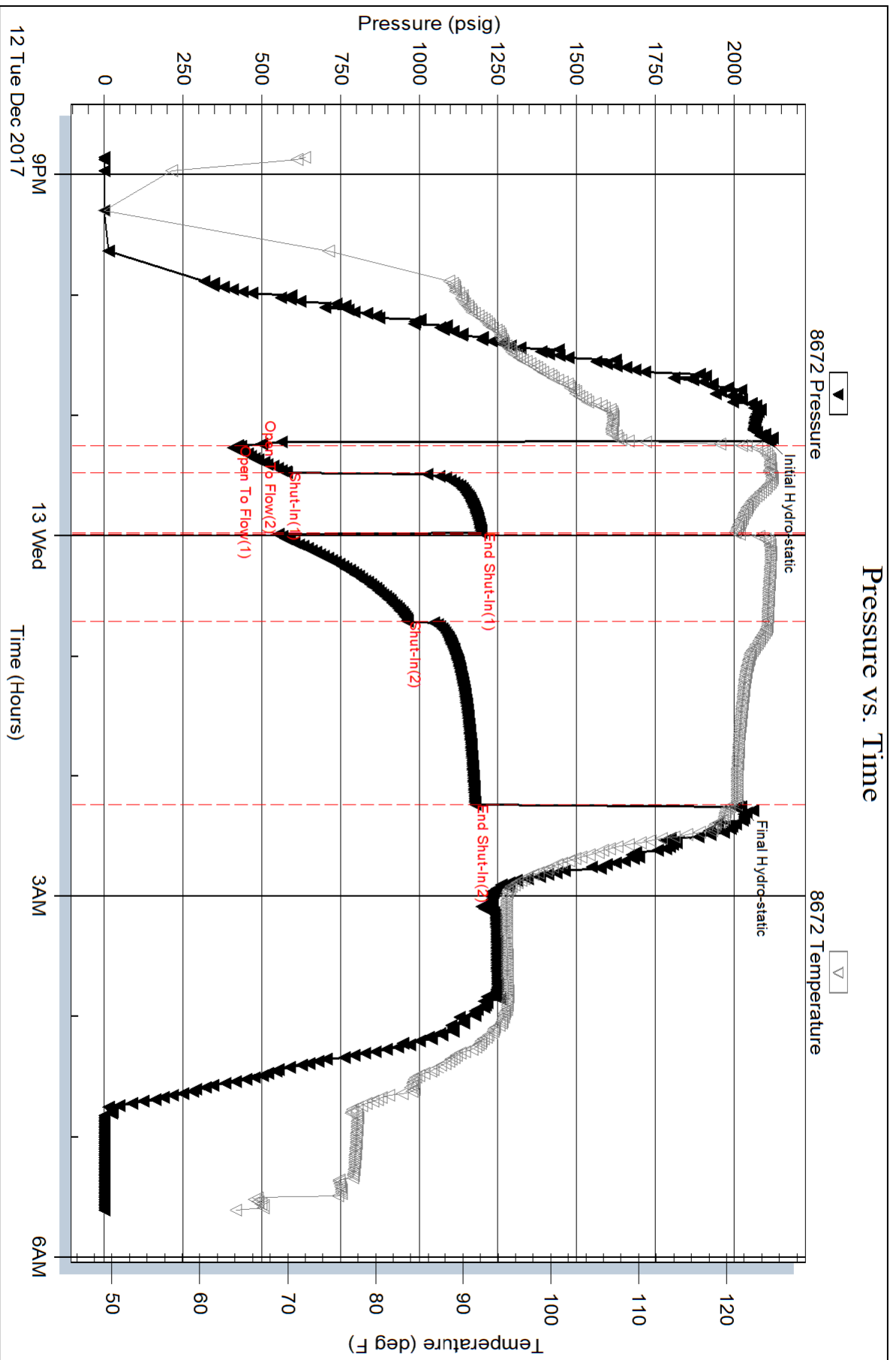
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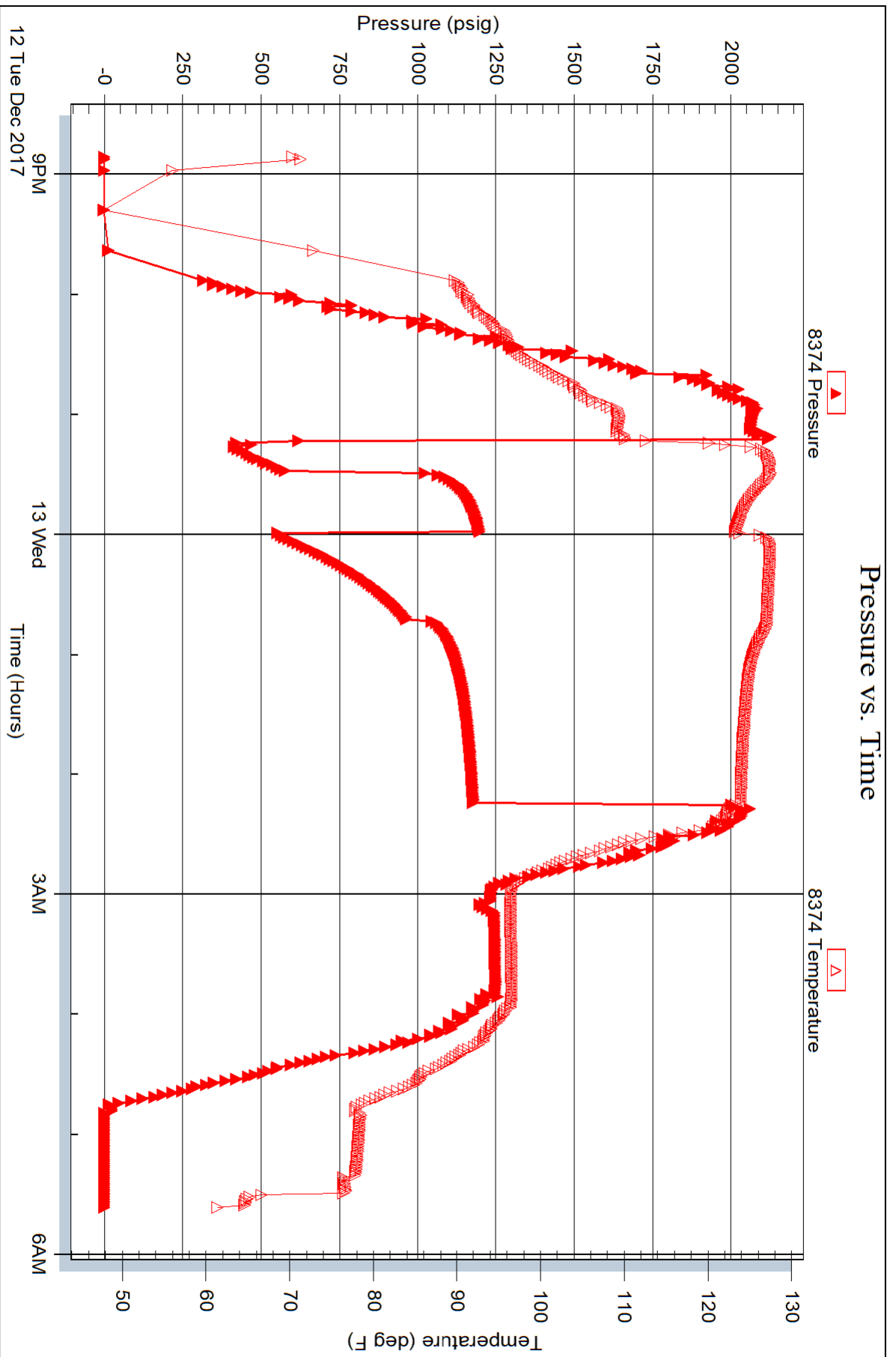
Laboratory Name:

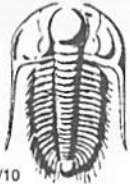
Laboratory Location:

Recovery Comments: API= 23 @ 30 corrected to 26 @ 60

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64404**

Well Name & No. Sutton #4 Test No. 1 Date 12-12-17
 Company Stewart Producers Inc Elevation 2324 KB 2320 GL
 Address 301 N. 27th St. P.O. Box 546 Mt. Vernon IL 62864
 Co. Rep / Geo. Dave Goldak Rig WW10
 Location: Sec. 8 Twp. 18S Rge. 24W Co. Ness State KS

Interval Tested 4316-4335 Zone Tested Miss
 Anchor Length 19 Drill Pipe Run 4174 Mud Wt. 9.1
 Top Packer Depth 4311 Drill Collars Run 120 Vis 51
 Bottom Packer Depth 4316 Wt. Pipe Run Ø WL 8.4
 Total Depth 4335 Chlorides 6000 ppm System LCM 2

Blow Description IF: Built to 52" (IPro) (BOB 1 Min) Bucket
IS: Return Blow Built to 1"
FF: Built to 312" IPro (BOB 1 Min) Bucket
FS: Return Blow Built to 1/4" & Died in 30 Min

Rec	Feet of	%gas	%oil	%water	%mud
<u>Ø</u>	<u>Feet of GIP = 248'</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>2630</u>	<u>Feet of 900</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
<u> </u>	<u>Feet of</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u>Feet of</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u>Feet of</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 2630 BHT 121 Gravity 26 API RW 90 @ °F Chlorides ppm

- (A) Initial Hydrostatic 2110
- (B) First Initial Flow 422
- (C) First Final Flow 579
- (D) Initial Shut-In 1198
- (E) Second Initial Flow 552
- (F) Second Final Flow 961
- (G) Final Shut-In 1178
- (H) Final Hydrostatic 2021

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub Dropped Bar
- Hourly Standby 50
- Mileage 120RT 90
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 20:20
 T-Started 20:51
 T-Open 22:13
 T-Pulled 02:13
 T-Out 05:36

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 90

Comments
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1615
 MP/DST Disc't

Approved By Dave Goldak Our Representative
 Sub Total 1615

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