

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 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)</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	DINGES TRUST 2
Doc ID	1429497

Tops

Name	Top	Datum
Anh.	1618	731
Base Anh.	1658	691
Heebner	3697	-1348
Lansing	3741	-1392
BKC	4072	-1723
Ft. Scott	4240	-1891
Cherokee	4264	-1915
Miss.	4334	-1985



RECEIVED

OCT 11 2018

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1009931	1718	10/08/2018
INVOICE NUMBER			
92819585			

Pratt (620) 672-1201
 B STEWART WELL SERVICES INC
 I PO BOX 546
 L MOUNT VERNON
 T IL US 62864
 O ATTN: STEWART

J LEASE NAME Dinges-Trust 2
 O LOCATION
 B COUNTY Ness
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41137902	19842		Net - 30 days	11/07/2018
For Service Dates: 10/02/2018 to 10/02/2018				
0041137902				
171815839L Cement-New Well Casing/Pi 10/02/2018 Cement Surface				
Premium Plus Cement	175.00	EA	10.60	1,855.00 T
Calcium Chloride	330.00	LB	0.68	224.40 T
Celloflake	44.00	LB	2.41	106.04 T
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.93	293.00
Heavy Equipment Mileage	200.00	MI	4.88	976.00
Proppant & Bulk Del. Chgs., per ton mil	825.00	EA	1.63	1,344.75
Blending & Mixing Service Charge	175.00	SK	0.91	159.25
Cement Data Acquisition Monitor	1.00	EA	357.50	357.50
Depth Charge; 0-500'	1.00	EA	650.00	650.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	113.75	113.75

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,079.69
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	142.05
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,221.74
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

Customer:	Stewart Well Service Inc	Cement Pump No.:	38750-19842 1hr	Operator TRK No.:	78938 Ruben
Address:	P.O. Box 546	Ticket #:	1718 15839 L	Bulk TRK No.:	14355-37724 Noel
City, State, Zip:	Mt. Vernon Ill 62864	Job Type:	Z42 - Cement Surface Casing		
Service District:	1718 Liberal Ks	Well Type:	OIL		
Well Name and No.:	Dinges-Trust #2	Well Location:	13,18,25	County:	Ness State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
Premium Plus Cement	175	2%CALCIUM CHLORIDE ,1/4#POLYFLAKE	14355-37724 Noel	Front	Back
				Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.34	6.33	234.5	Man Hours:	45
Tail:					# of Men on Job:	3

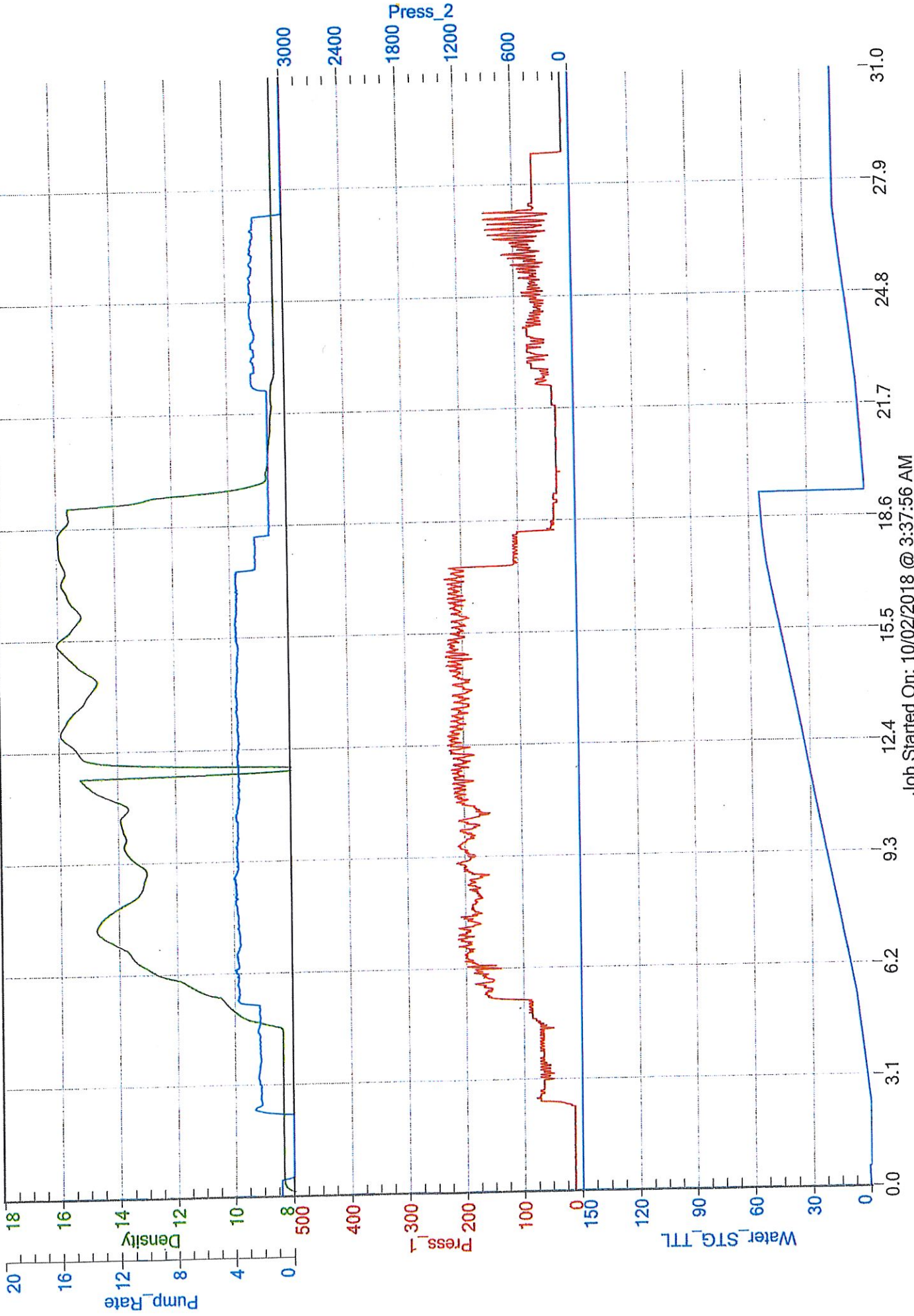
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
20:00							ON LOCATION
20:30							RIG UP
3:00 AM							SAFETY MEETING
3:43 AM	0.3	0.4				500	PRESSURE TEST
3:45 AM	4	41.7				170	PUMP 175SX @14.8#
3:56	3	12.3				190	DISPLACEMENT
4:05						80/	SHUT DOWN/CLOSE 1" VALVE-70- PSI
							LEAVE 30' FT CEMENT IN CASING

Size Hole	12 1/4	Depth	223'		TYPE	
Size & Wt. Csg.	8 5/8 23#	Depth	221'	New / Used	Packer	Depth
lbg.		Depth			Retainer	Depth
Top Plugs	191'	Type			Perfs	CIBP

Customer Signature:	Basic Representative:	RUBEN MARTINEZ
	Basic Signature:	
	Date of Service:	10/2/2018

DINGES TRUST #2

WELL_NAME



Job Started On: 10/02/2018 @ 3:37:56 AM

Customer STEWART WELL SERVICE	Lease No.	Date 10-10-2018
Lease DINGES TRUST	Well # 2	
Field Order # 16946	Station PRATT, Ks.	Casing 5 1/2"
Type Job 5 1/2" TWO STAGE L.S.	Depth 4390'	County NESS
	Formation	State Ks
		Legal Description 13-185-25W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2 x 15.5	Tubing Size	Shots/Ft	CMT -	BOTTOM STAGE		RATE	PRESS	ISIP
Depth 4375'	Depth	From	To	200SK AAD CMT		Max		5 Min.
Volume	Volume	From	To	@ 1.54 CUFT		Min		10 Min.
Max Press 2500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 4373'	Packer Depth	From	To	Flush 10.3 BBL		Gas Volume		Total Load

Customer Representative DALTON POPP	Station Manager J.W.	Treater K. LESLEY
Service Units 86531	T1686	B6779
Driver Names LESLEY	McBRAN	POPPES
19959	21010	84981
19918		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:30 AM					ON LOCATION - SAFETY MEETING
10:00 AM					RUN 101 JTS 5 1/2" x 15.5" CSG.
					TURBOLIZER - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
					BASKET - 1, 6, 4, 6, 5
					DV TOOL - 11651'
1:30 PM					CSG. ON BOTTOM/CIRC. WITH RIG
2:30 PM					* BOTTOM STAGE *
2:35 PM	300		24	6	2% KCL H ₂ O AHEAD
2:39 PM	300		12	6	MUD FLUSH
2:41 PM	300		5	6	H ₂ O SPACER
2:42 PM	200		55	6	MIX 800 SKS AAD CMT @ 14.8 PPG
2:51 PM					SHOT DOWN - CLEAR PUMP & LINE / DROP LD
2:56 PM			0	6	START DISPLACEMENT
3:06 PM			60	5	LIFT PRESSURE
3:12 PM			90	4	SLOW RATE
3:15 PM			103	3	PLUG DOWN - HELD
					CIRC THRU JOB
3:40 PM					DROP DV OPENING TOOL
3:50 PM					OPEN DV - CIRC. W/ RIG

Customer STEWART WELL SERVICE	Lease No.	Date 10-10-2018
Lease DINGES TRUST	Well # 2	
Field Order # 16946	Station PRATT, KS.	Casing 5/2" Depth
Type Job 242 5 1/2" TWO STAGE	Formation	County NESS State KS
Legal Description		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size 3"	Shots/Ft	CMT-	225SK A-CON		RATE	PRESS	ISIP
Depth 1651'	Depth	From	To	Pre Pad @ 2.95 CUFT	Max			5 Min.
Volume 39.2 BBL	Volume	From	To	Pad	Min			10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg			15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 1651'	Packer Depth	From	To	Flush 39.2 BBL	Gas Volume			Total Load

Customer Representative **DALTON POPP** Station Manager **J. WESTERMAN** Treater **K. LESLEY**

Service Units	86531	77686	86779	19959	21010	84981	19918		
Driver Names	LESLEY	MCGRAW	—	FORRES	—	—	—		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:55PM					* TOP STAGE *
3:56PM	300		10	6	H2O AHEAD
3:58PM	200		118	6	MIX 225 SKS A-CON @ 11.4 PPG
4:10PM					CLEAR PUMP & LINES / DROP DV / CLOSE PLUG
4:14PM	0		0	6	START DISPLACEMENT
4:17PM	300		20	6	LIFT PSI
4:22PM	400		30	5	SLOW RATE
4:30PM	1700		39.2	4	PLUG DOWN - CLOSE DV TOOL
					CIRC. THRU JOB
					CIRC. 15 BBL CMT. TO PIT
5:00PM			7.5		PLUG R.H. & M.H. (50SKS ACON)

JOB COMPLETE,
THANKS -
KEVEN LESLEY



WESLEY D. HANSEN Consulting Petroleum Geologist

212 N. Market, Suite 257, Wichita, KS 67202
Cellular: 316-772-6188

**KGS
AAPG
Kansas License #418**

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Stewart Producers, Inc. #2 Dinges Trust

API: 15-135-26024

Location: 1783' FSL, 1899' FEL of Section 13-18S-25W

License Number:

Region: Ness County, KS

Spud Date: 10-1-2018

Drilling Completed: 10-10-2018

Surface Coordinates: 1783' FSL, 1899' FEL of Section 13-18S-25W

Bottom Hole Vertical hole

Coordinates:

Ground Elevation (ft): 2341'

K.B. Elevation (ft): 2349'

Logged Interval (ft): 3500'

To: RTD

Total Depth (ft): 4390'

Formation: Mississippian at RTD

Type of Drilling Fluid: Chemical - Displaced at 3385'

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

OPERATOR

Company: Stewart Producers, Inc.

Address: P.O. Box 546

Mt. Vernon, IL 62864

GEOLOGIST

Name: Wesley D. Hansen

Company: Wesley D. Hansen - Consulting Petroleum Geologist

Address: 212 N. Market, Suite 257

Wichita, KS 67202

Cellular: 316-772-6188

COMMENTS

Contractor: Duke Drilling Co., Inc. Rig #8
 Pusher: Tim Arell/Matt Smith

Surface Casing: 8 5/8" set at 221' w/175 sx
 Production Casing: 5 1/2" set at 4383' w/200sx on bottom; 225sx on top

Mud by: Mudco - Gary Schmidtberger/Jason Whiting were the engineers

DST's by: Diamond Testing - Gene Gilpin was the tester

Logs by: ELI - (DIL, CN-CD-PE, ML); Jeff Luebbers was the engineer

Deviation Surveys: 3/4 deg. @ 223; 1/4 deg. @ 765'; 1/4 deg. @ 1867'; 1 deg. @ 2366'; 1 deg. @ 2870'; 1 deg. @ 3371'; 3/4 deg. @ 3874'; 1 1/2 deg. @ 4390'

Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on bit
1	12 1/4"	JZ	GAIPC	223'	223'	3 1/4
2	7 7/8"	JZ	HA-23X	4390'	4167'	99

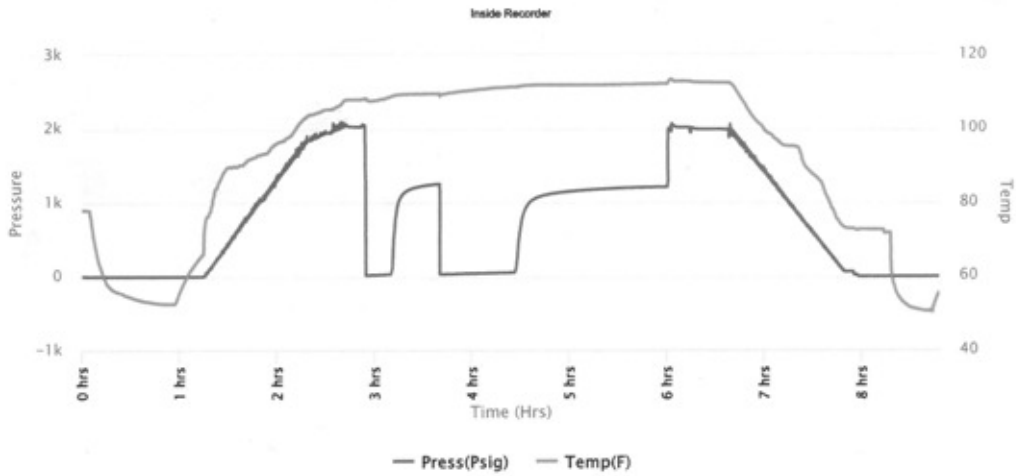
FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS		LOG TOPS		COMPARISON WELLS	
	Depth	Datum	Depth	Datum	(1)	(2)
					(1) Stewart Producers, Inc.	(2) Rupe Oil Dinges #1 13-18-25W
					Dinges Trust #1 13-18S-25W	
					Dinges Trust #2	
					2349' KB	
Anhydrite	1617'	+732	1618'	+731	-9	-5
Base of Anhydrite	1657'	+692	1658'	+691	-13	-5
Heebner Shale	3695'	-1346	3697'	-1348	-7	+2
Lansing	3739'	-1390	3741'	-1392	-10	flat
Stark Shale	4014'	-1665	4018'	-1664	-8	+4
BKC	4075'	-1726	4072'	-1723	-5	+3
Pawnee	4164'	-1815	4163'	-1814	-7	+5
Fort Scott	4234'	-1885	4240'	-1891	-11	+1
Cherokee	4260'	-1911	4264'	-1915	-10	+2
Mississippian	4332'	-1983	4334'	-1985	-4	-3 (+5 on dolomite)
RTD	4390'	-2041				
LTD			4380'	-2031		

DRILL STEM TESTS

DST No. 1 Mississippian Dolomite
Interval: 4272'-4340'
Times: 15-30-45-90
Recovery: 31' HO CM (45o, 55m); 63'
SLOCM (15o, 85m)
FP: 14-30/30-52 SIP: 1251-1210
HP: 2029-2025 BHT: 113 deg. F

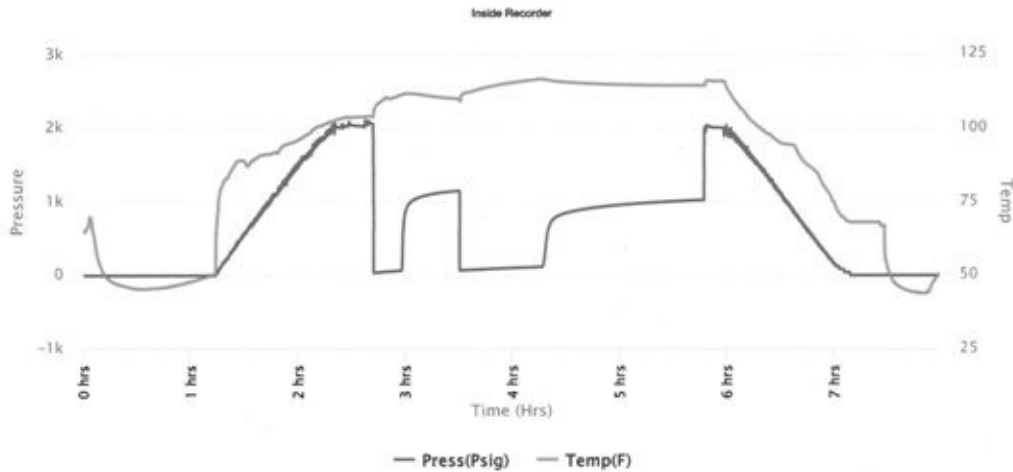
IFP: 1/4 inch blow bldg. to 3.2 inches
ISIP: no return blow
FFP: weak surface blow bldg. to 7.1
inches
FSIP: no return blow



DRILL STEM TESTS

DST No. 2 Mississippian Dolomite
 Interval: 4333'-4346'
 Times: 15-30-45-90
 Recovery: 63' GIP; 63' oil; 63' SLG&HOcm (5g, 40o, 55m); 63' SLG&HOcm (5g, 45o, 50m); 63' SLWCSLGC&HMCO (6w, 19g, 45o, 30m); total fluid 315'; not enough water for chloride check
 FP: 35-63/68-114 SIP: 1147-1021
 HP: 2032-2026 BHT: 117 deg. F

IFP: 2 inch blow bldg. to B.O.B. in 15 minutes
 ISIP: built to weak surface return blow
 FFP: weak surface blow bldg. to B.O.B. in 27 minutes
 FSIP: built to 1.2 inch return blow



ROCK TYPES

- Anhy
- Cht
- Coal
- Congl
- Gyp
- Lmst
- Salt

- Shale
- Shcol
- Sltst
- Ss
- Carb sh
- Dol
- Dtd

- Gry sh
- Sandylms
- redshale
- green shale
- Shale
- Sltstn
- Shlysts

- Sltys
- Sdy dolo
- Silty dolo
- Shy dolo
- Shaly ls
- light dolomite

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite

- Plant
- Strom
- Fuss
- Oomold

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- 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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Grysst
- Lms
- Sandylms
- Sh
- Sltstn

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Dst

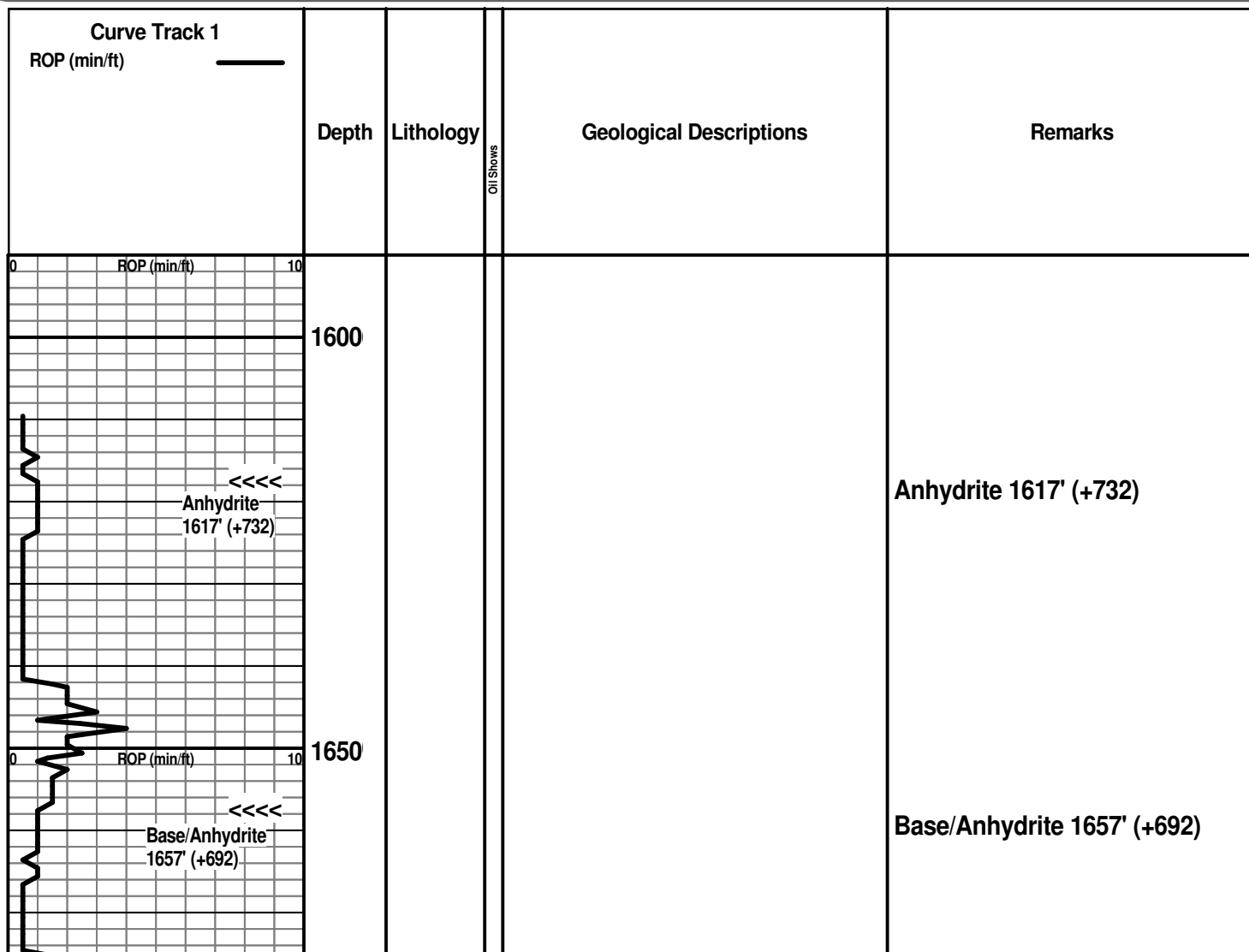
EVENTS

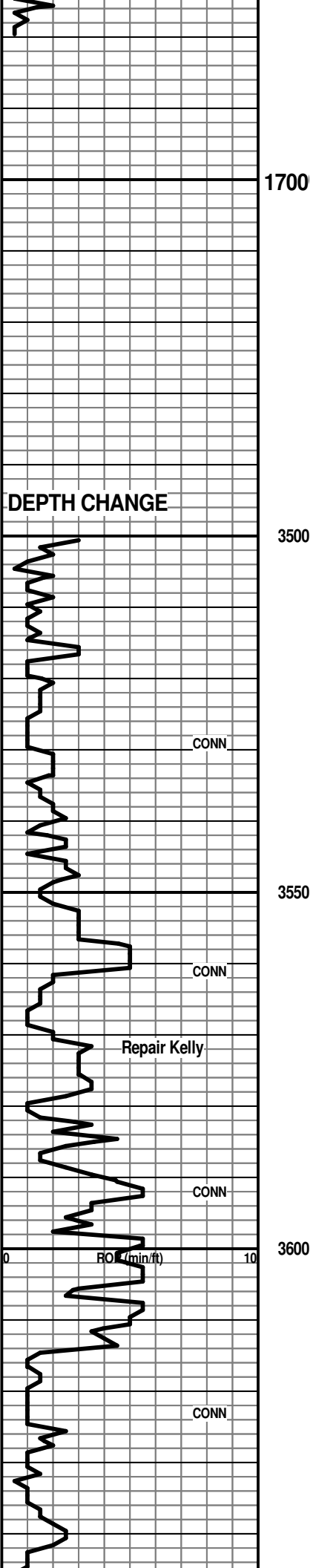
- Rft
- Dst top/base

OIL SHOWS

- Even
- Spotted
- Quest.

- Trace
- Dead
- Gas show

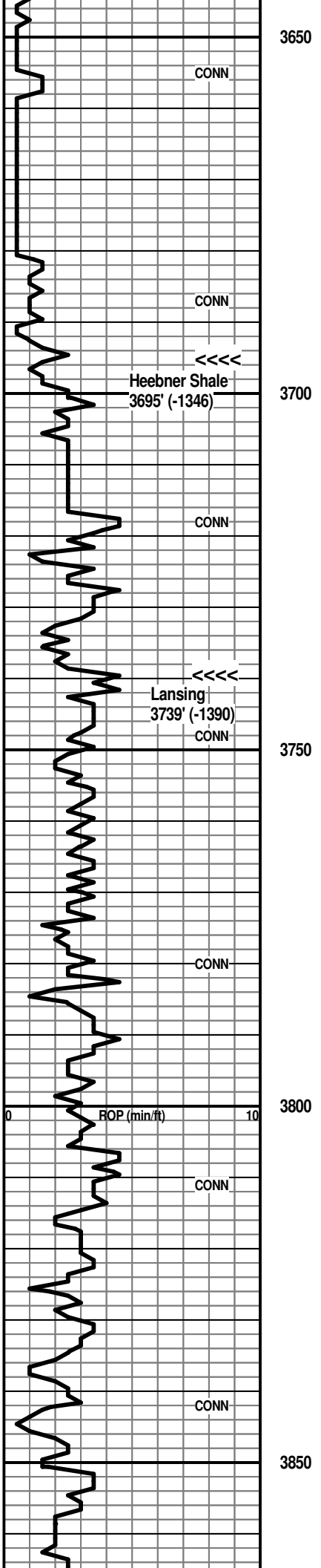




Morning Depth & Activity

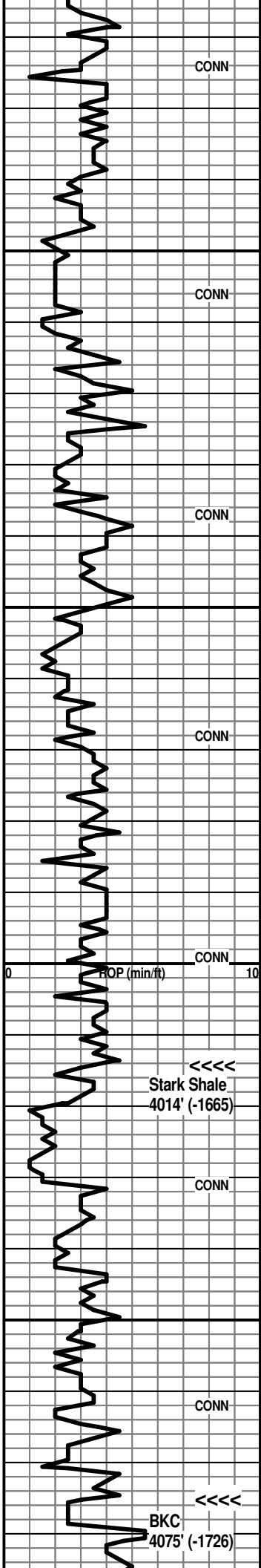
- 10-1-2018 MIRT, Spud
- 10-2 WOC @ 223'
- 10-3 Drlg. @ 1423'
- 10-4 Drlg. @ 2645'
- 10-5 Drlg. @ 3308'
- 10-6 Drlg. @ 3842'
- 10-7 Drlg. @ 4215'
- 10-8 TOH for DST #1 @ 4340'
- 10-9 DST #2 @ 4346'
- 10-10 RTD @ 4390'; Logging complete, running 5 1/2" casing

Geologist on location at 3550'
6:15 PM on 10-5-2018



Heebner Shale 3695' (-1346)

Lansing 3739' (-1390)



3900

3950

4000

4050

Stark Shale
4014' (-1665)

BKC
4075' (-1726)



Ls: mix various brn cryptoxln and tan, lt gray vfxln dense;
Sh: some dark gray to black

Ls: decr. various brn cryptoxln AA; pred. offwhite, tan,
some lt gray mic-vfxln dense; scatt. tan, brn opq chert

Ls: various tan, lt to med brn cryptoxln; lesser tan, lt brn fn
gran., sl foss.. NVP; minor dark gray shale

Ls: mix tan, lt brn, lt gray cryptoxln and offwhite, tan
mic-vfxln dense, NVP; occ offwhite subchalky; scatt. gray,
tan chert; minor gray shale

Sh: influx in 40' spl of black carbon.; Ls: influx dark gray,
dark gray-brn mottled, sl gran. to cryptoxln, NVP

Sh: common black carbon., dark gray

Ls: offwhite, tan, lt gray mic-vfxln dense, subchalky IP;
scatt. chert

Ls: mix various tan, lt gray, brn cryptoxln; other mottled
gray/brn gran. and tan mic-vfxln dense; Chert: incr.
offwhite, lt gray opq; Sh: black carb., dark gray, silty lt gray

Sh: black carb.; Ls: influx dark brn cryptoxln

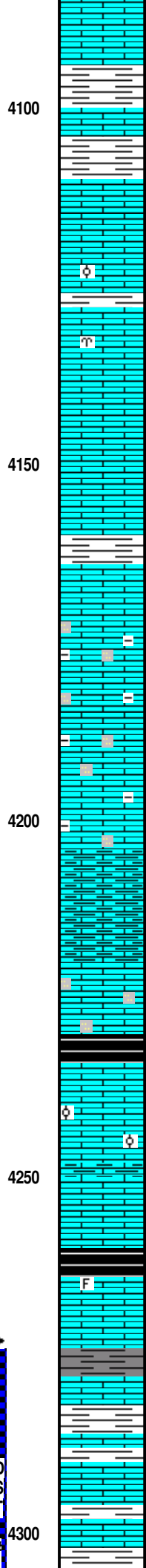
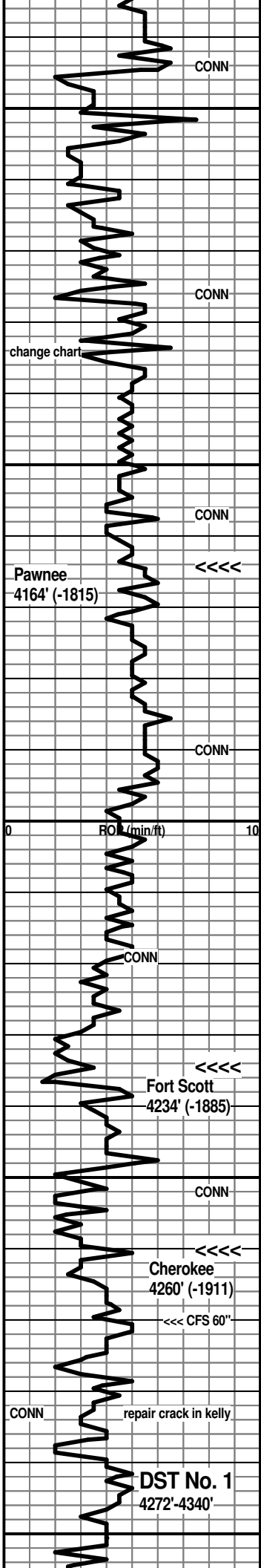
Ls: tan, offwhite mic-vfxln dense, subchalky IP; lesser tan,
lt brn sl gran. to cryptoxln, foss. IP, NVP; Sh: occ very soft
and mushy lt gray

Ls: tan, lt brn, lt gray pred. cryptoxln; Sh: gray, gray-green,
red-brn

Mud-Co Mud Check at 3930'
11:30 AM on 10-6-2018
wt vis wl pH chl
9.0 46 6.4 11.5 3300
PV YP GelS lcm solids
14 19 9/15 2# 4.8%

Stark Shale 4014' (-1665)

BKC 4075' (-1726)



Ls: tan, lt gray, lt brn cryptoxln to gran. NVP; some gray shaly; lesser tan, offwhite mic-vfxln dense; Sh: red-brn, soft IP, gray

Sh: lt to med gray, black carb., red-brn, occ mottled red/gray

Ls: med brn, very smooth cryptoxln; Sh: vc gray, red-brn, some black carb.

Ls: various lt to med brn, gray cryptoxln

Ls: good influx tan, lt brn cryptoxln and tan, offwhite mic-vfxln dense, occ subchalky to chalky; one chip lt brn gran/ool with inter-particle and moldic por. with dead black, gilsonianic stain

Ls: pred. tan, lt to med brn smooth cryptoxln; trace lt brn fenestral bryozoan Ls; minor lt gray shale

Ls: lt to med brn, gray cryptoxln; lesser tan, offwhite mic-vfxln dense and gray dense, shaly; Sh: incr. % lt to med gray

Ls: flood lt med gray mic-vfxln dense, shaly and med brn, gray cryptoxln

Sh: dark gray, some black

Ls: mix lt to med brn cryptoxln and lt to med gray mic-vfxln dense, shaly and silty IP

Ls: mix AA

Ls: lt to med gray mic-vfxln dense, shaly and silty IP; lesser gray cryptoxln, NVP, N.S.

Ls: pred. lt to med gray dense AA; lesser med brn cryptoxln; some dark gray shale

Ls: influx med to dark gray shaly dense, hard

Ls: various lt to dark gray dense, shaly; minor brn cryptoxln; some dark gray shale

Ls: pred. med to dark gray dense, shaly, hard AA; lt to med gray, silty

Sh: black carb., fissile; dark gray

Ls: various gray dense, shaly/silty AA; lesser med to dark gray cryptoxln; occ offwhite mic-vfxln dense, N.S.

Ls: med brn gran/ool with NVP; tan, lt brn cryptoxln, NVP, N.S.

70' spl - Ls: sl influx tan, lt brn vfxln dense, hard with scatt. small vug. por. and poor vis interxln por., with good odor, sl-fair shows very lt oil on break, immed. gas bubbles on fresh broken surface, ppt to even bright white, fluor., milky cut, patchy lt stain

Sh: black carb.

Ls: mix lt to med brn cryptoxln to gran IP and tan, offwhite mic-vfxln dense, subchalky IP; occ lt brn vfxln, sl foss.; trace tan/offwhite fn gran with micxln matrix with ppt black gilson. stain, nfo

Ls: lt to med brn cryptoxln; some gray/brn gran, NVP; common offwhite, tan mic-vfxln dense, subchalky IP

Ls: various brn, tan cryptoxln to sl gran., NVP, and tan, offwhite dense, subchalky; Sh: med to dark gray, some gray-green and occ pale green, mushy, clayey

Ls: influx tan, lt brn smooth cryptoxln; Sh: gray, black, occ red-brn and lt gray soft, mushy

Ls: pred. various tan, lt to med brn cryptoxln to sl gran., NVP, 2-3 chips with patchy stain, nfo, no odor (cavings); Sh: med to dark gray, some gray-green and occ pale green, mushy, clayey

Pawnee 4164' (-1815)

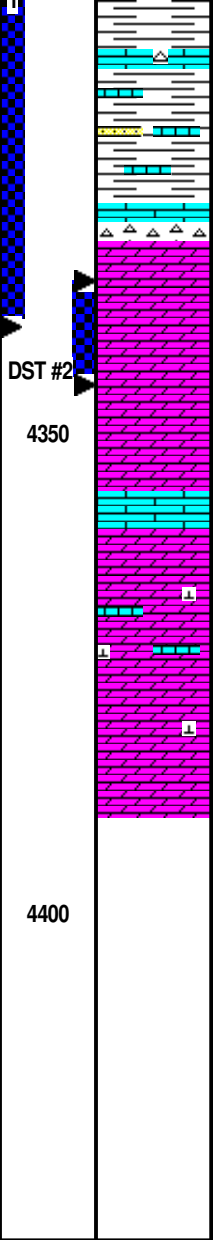
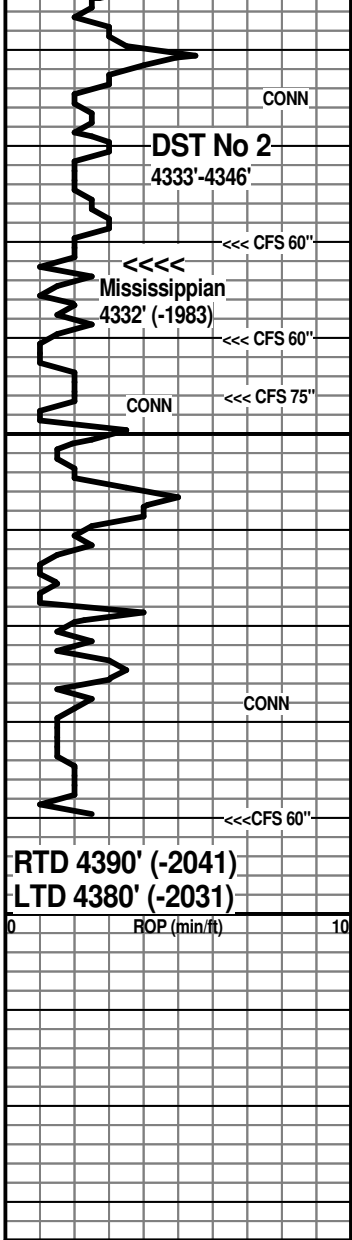
Fort Scott 4234' (-1885)

Mud-Co Mud Check at 4270'
 11:00 AM on 10-7-2018
 wt vis wl pH chl
 9.1 47 6.8 10.5 3300
 PV YP GelS lcm solids
 15 27 9/17 1# 5.6%

Cherokee 4260' (-1911)

DST No. 1 Mississippian Dolomite
 Interval: 4272'-4340'
 Times: 15-30-45-90
 IFP: 1/4 inch blow bldg. to 3.2 inches
 ISIP: no return blow
 FFP: weak surface blow bldg. to 7.1 inches
 FSIP: no return blow
 Recovery: 31' HOCM (45o, 55m); 63' SLOCM (15o, 85m)
 FP: 14-30/30-52 SIP: 1251-1210
 HP: 2029-2025 BHT: 113 deg. F

Mud-Co Mud Check at 4340'
 9:30 AM on 10-8-2018



Sn: minor gray, gray-green, red-brn
Ls: lt to med brn, gray, tan cryptoxln to gran., NVP, N.S.;
Sh: lt to med gray; occ orange chert
CFS 4330' 30" spl - Ls: various dense AA, some white
chalky; influx Sh: vc gray, gray-green, occ yellow, lt green;
Sst: scatt. tan vfg to fn sandy Ls with ppt black stain, sl
odor, nfo
CFS 4330' 60" spl - Sh: incr % mix AA with occ dark yellow,
ochre, dark red-brn; Ls: dense and chalky AA with occ
black spotty stain, nfo, no odor; scatt. Chert: orange,
yellow, tan
CFS 4340' 30" spl - flood Dolo: tan, lt brn fn to med xln with
interxln and vug. por., sucrosic IP, with good odor, gd sfo,
pred. sat. stain, even dull yellow fluor.; occ offwhite vfxln
with some spotty lt stain, gen. poor to NVP
CFS 4346' spls - Dolo: AA with more vugular por.; shows
AA; scatt. offwhite vfxln, dense, some patchy to spotty
stain, nfo
80' spl - Dolo: mix AA with influx Ls: offwhite/tan gran. with
micxln matrix, N.S..
90' spl - Dolo: tan, lt brn with good por. and decr. shows
AA; common offwhite, lt gray more dense with some good
por., N.S.; scatt. qtz and calcite xtals
CFS 4390' 30" spl - Dolo: pred. offwhite, lt gray dense with
some vug. por., poor to no interxln por., some well dev.
calcite xtals; some tan gran. Ls AA
CFS 4390' 60" spl - Dolo: very pred. offwhite, tan vfxln with
some vug. por. and offwhite, tan vfxln dense, NVP; scatt.
calcite xtals AA
After review of samples, DST results and
evaluation of the open hole logs, the decision
was made to run 5 1/2" casing for production
testing.
Respectfully submitted,
Wesley D. Hansen
Petroleum Geologist
Kansas License No. 418

wt vis wl pH chl
9.1 46 8.8 10.5 5300
PV YP GelS lcm solids
17 18 8/28 1# 4.7%
40' spl - ? new rocks; influx Chert: tan, yellow, orange
fresh; scatt. tan, offwhite cryptoxln Ls with spotty black
dead stain; 2 chips offwhite dolomitic Ls with sl odor,
vsl sfo on break, even brn stain
CFS 4340' 60" spl- Dolo: very pred. good vuggy and
interxln porosity with shows AA; scatt. offwhite dense
Dolo and limy dolomite with poor por., spotty stain
pipe strap at 4340' was 2.74' short to tally
board
60' spl - shaly trash; 70' spl - still trashy; Dolo: tan, lt brn
with shows and por. AA; incr. offwhite dense with spotty
stain
DST No. 2 Mississippiian Dolomite
Interval: 4333'-4346'
Times: 15-30-45-90
IFP: 2 inch blow bldg. to B.O.B. in 15 minutes
ISIP: built to weak surface return blow
FFP: weak surface blow bldg. to B.O.B. in 27 minutes
FSIP: built to 1.2 inch return blow
Recovery: 63' GIP; 63' oil; 63' SLG&HOCM (5g, 40o,
55m); 63' SLG&HOCM (5g, 45o, 50m); 63'
SLWCSLGC&HMCO (6w, 19g, 45o, 30m); total fluid 315';
not enough water for chloride check
FP: 35-63/68-114 SIP: 1147-1021
HP: 2032-2026 BHT: 117 deg. F
RTD reached at approx. 3:30 PM on 10-9-2018
- CFS/CTCH 1 1/2 hours - drop survey - TOFL



Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18 S RNG: 25 W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 8
Elevation: 2340 Est
Field Name: NA
Pool: Pool Ext
Job Number: 251

Operation:
Uploading recovery & pressures

DATE
October
08
2018

DST #1 **Formation: Miss. Dolomite** **Test Interval: 4272 - 4340'** **Total Depth: 4340'**
Time On: 08:50 10/08 Time Off: 17:21 10/08
Time On Bottom: 11:39 10/08 Time Off Bottom: 14:39 10/08

Electronic Volume Estimate:
117'

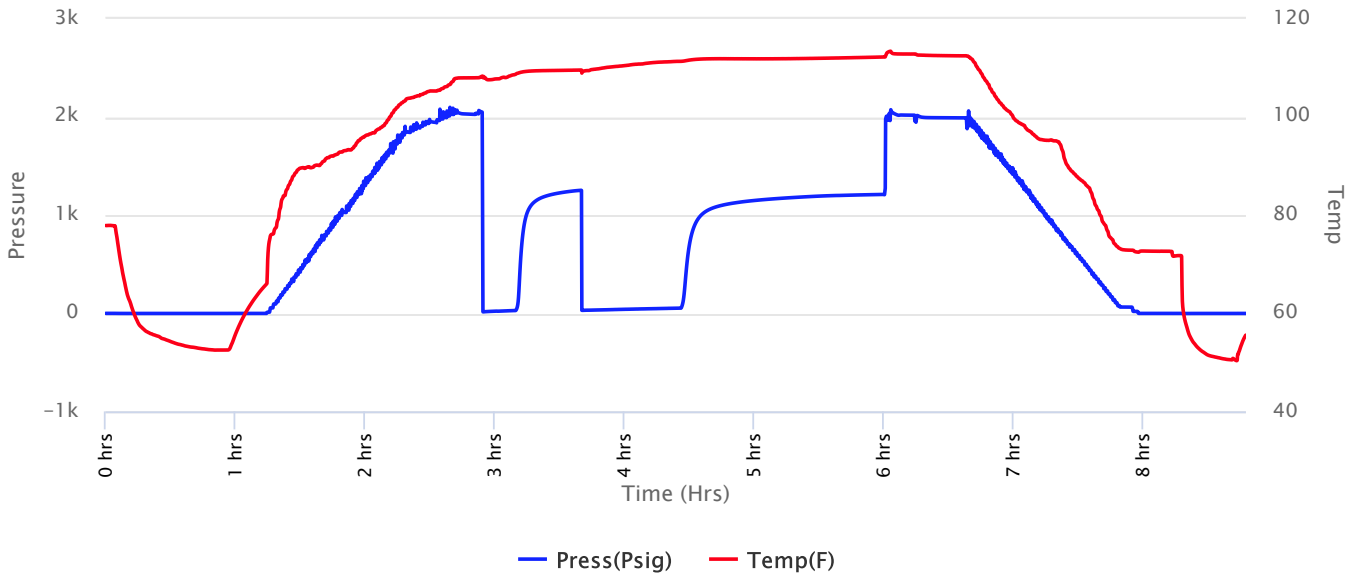
1st Open
Minutes: 15
Current Reading:
3.2" at 15 min
Max Reading: 3.2"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 45
Current Reading:
7.1" at 45 min
Max Reading: 7.1"

2nd Close
Minutes: 90
Current Reading:
0" at 90 min
Max Reading: 0"

Inside Recorder





Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18 S RNG: 25 W
 County: NESS
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 8
 Elevation: 2340 Est
 Field Name: NA
 Pool: Pool Ext
 Job Number: 251

Operation:
 Uploading recovery & pressures

DATE
 October
08
 2018

DST #1 **Formation: Miss. Dolomite** **Test Interval: 4272 - 4340'** **Total Depth: 4340'**
 Time On: 08:50 10/08 Time Off: 17:21 10/08
 Time On Bottom: 11:39 10/08 Time Off Bottom: 14:39 10/08

Recovered

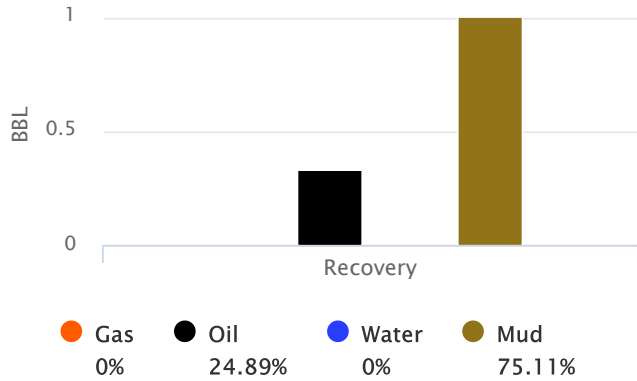
Foot	BBSL	Description of Fluid	Gas %	Oil %	Water %	Mud %
31	0.44113	HOCM	0	45	0	55
63	0.89649	SLOCM	0	15	0	85

Total Recovered: 94 ft
 Total Barrels Recovered: 1.33762

Reversed Out
 NO

Initial Hydrostatic Pressure	2029	PSI
Initial Flow	14 to 30	PSI
Initial Closed in Pressure	1251	PSI
Final Flow Pressure	30 to 52	PSI
Final Closed in Pressure	1210	PSI
Final Hydrostatic Pressure	2025	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	3.3	%

Recovery at a glance





Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18 S RNG: 25 W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 8
Elevation: 2340 Est
Field Name: NA
Pool: Pool Ext
Job Number: 251

Operation:

Uploading recovery & pressures

DATE

October
08
2018

DST #1	Formation: Miss. Dolomite	Test Interval: 4272 - 4340'	Total Depth: 4340'
	Time On: 08:50 10/08	Time Off: 17:21 10/08	
	Time On Bottom: 11:39 10/08	Time Off Bottom: 14:39 10/08	

BUCKET MEASUREMENT:

1st Open: 1/4" built to 3.2"

1st Close: Nobb

2nd Open: Wsb built to 7.1"

2nd Close: Nobb

REMARKS:

1 foot slide

Tool Sample: 0% Gas 40% Oil 0% Water 60% Mud



Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18 S RNG: 25 W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 8
Elevation: 2340 Est
Field Name: NA
Pool: Pool Ext
Job Number: 251

Operation:
Uploading recovery & pressures

DATE
October
08
2018

DST #1 **Formation: Miss. Dolomite** **Test Interval: 4272 - 4340'** **Total Depth: 4340'**
Time On: 08:50 10/08 Time Off: 17:21 10/08
Time On Bottom: 11:39 10/08 Time Off Bottom: 14:39 10/08

Down Hole Makeup

Heads Up: 34.3 FT	Packer 1: 4267 FT
Drill Pipe: 4273.73 FT <i>ID-3 1/2</i>	Packer 2: 4272 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4256.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4309 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 68	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.5 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 32 FT <i>4 1/2-FH</i>	



Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18 S RNG: 25 W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 8
Elevation: 2340 Est
Field Name: NA
Pool: Pool Ext
Job Number: 251

Operation:

Uploading recovery & pressures

DATE

October

08

2018

DST #1	Formation: Miss. Dolomite	Test Interval: 4272 - 4340'	Total Depth: 4340'
	Time On: 08:50 10/08	Time Off: 17:21 10/08	
	Time On Bottom: 11:39 10/08	Time Off Bottom: 14:39 10/08	

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 46 **Filtrate:** 8.8 **Chlorides:** 3300 ppm



Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18S RNG: 25W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 8
Elevation: 2340 EGL
Field Name: Dex SW Ext (1/8 E)
Pool: Pool Ext
Job Number: 251

Operation:
Uploading recovery & pressures

DATE
October
09
2018

DST #2 **Formation: Miss. Dolomite** **Test Interval: 4333 - 4346'** **Total Depth: 4346'**
Time On: 02:16 10/09 Time Off: 10:01 10/09
Time On Bottom: 04:54 10/09 Time Off Bottom: 07:54 10/09

Electronic Volume Estimate:
357'

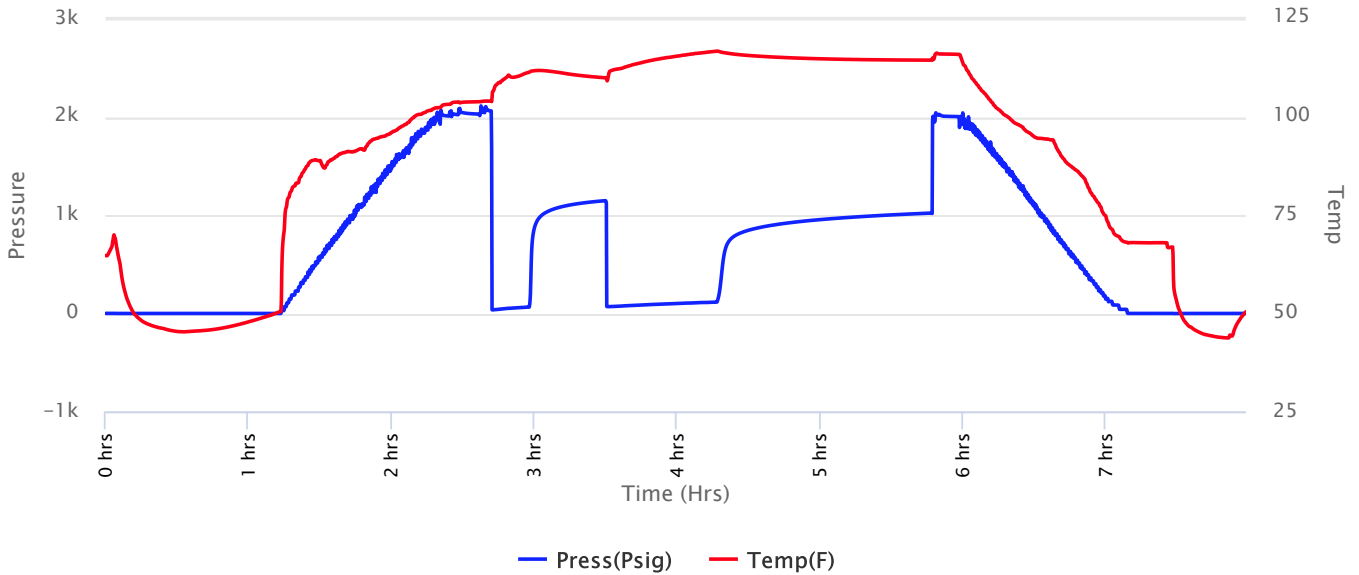
1st Open
Minutes: 15
Current Reading:
12.2" at 15 min
Max Reading: 12.2"

1st Close
Minutes: 30
Current Reading:
.1" at 30 min
Max Reading: .1"

2nd Open
Minutes: 45
Current Reading:
18.2" at 45 min
Max Reading: 18.2"

2nd Close
Minutes: 90
Current Reading:
.9" at 90 min
Max Reading: 1.2"

Inside Recorder





Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18S RNG: 25W
 County: NESS
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 8
 Elevation: 2340 EGL
 Field Name: Dex SW Ext (1/8 E)
 Pool: Pool Ext
 Job Number: 251

Operation:
 Uploading recovery & pressures

DATE
 October
09
 2018

DST #2 **Formation: Miss. Dolomite** **Test Interval: 4333 - 4346'** **Total Depth: 4346'**
 Time On: 02:16 10/09 Time Off: 10:01 10/09
 Time On Bottom: 04:54 10/09 Time Off Bottom: 07:54 10/09

Recovered

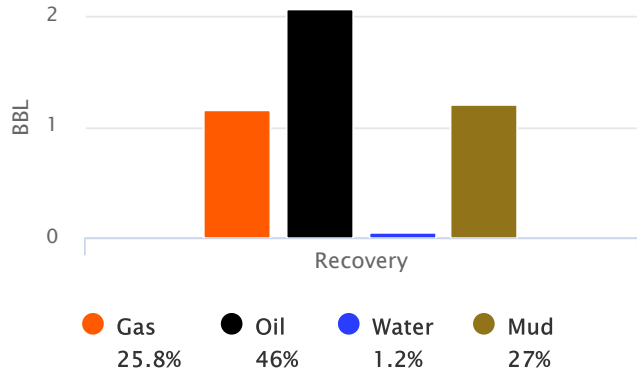
Foot	BBS	Description of Fluid	Gas %	Oil %	Water %	Mud %
63	0.89649	G	100	0	0	0
63	0.89649	O	0	100	0	0
63	0.89649	SLGCHOCM	5	40	0	55
63	0.89649	SLGCHOCM	5	45	0	50
63	0.89649	SLWCSLGCHMCO	19	45	6	30

Total Recovered: 315 ft
 Total Barrels Recovered: 4.48245

**Reversed Out
 NO**

Initial Hydrostatic Pressure	2032	PSI
Initial Flow	35 to 63	PSI
Initial Closed in Pressure	1147	PSI
Final Flow Pressure	68 to 114	PSI
Final Closed in Pressure	1021	PSI
Final Hydrostatic Pressure	2026	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	11.0	%

Recovery at a glance





**Company: Stewart Producers,
Inc**

Lease: Dinges Trust #2

SEC: 13 TWN: 18S RNG: 25W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 8
Elevation: 2340 EGL
Field Name: Dex SW Ext (1/8 E)
Pool: Pool Ext
Job Number: 251

Operation:

Uploading recovery &
pressures

DATE

October

09

2018

DST #2	Formation: Miss. Dolomite	Test Interval: 4333 - 4346'	Total Depth: 4346'
	Time On: 02:16 10/09	Time Off: 10:01 10/09	
	Time On Bottom: 04:54 10/09	Time Off Bottom: 07:54 10/09	

BUCKET MEASUREMENT:

1st Open: 2"Bob in 15 min

1st Close: Built to wsb

2nd Open: Wsb Bob in 27 min

2nd Close: Built to 1.2"

REMARKS:

2' slide to btm

did not get enough water to test.

Tool Sample: 0% Gas 100% Oil 0% Water 0% Mud

Gravity: 36.9 @ 60 °F



Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18S RNG: 25W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 8
Elevation: 2340 EGL
Field Name: Dex SW Ext (1/8 E)
Pool: Pool Ext
Job Number: 251

Operation:
Uploading recovery & pressures

DATE
October
09
2018

DST #2 **Formation: Miss. Dolomite** **Test Interval: 4333 - 4346'** **Total Depth: 4346'**
Time On: 02:16 10/09 Time Off: 10:01 10/09
Time On Bottom: 04:54 10/09 Time Off Bottom: 07:54 10/09

Down Hole Makeup

Heads Up: 4.80000000000004 FT	Packer 1: 4328 FT
Drill Pipe: 4305.23 FT <i>ID-3 1/2</i>	Packer 2: 4333 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4317.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4334 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
	Surface Choke: 1"
	Bottom Choke: 5/8"

Total Anchor: 13

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/2

Change Over: FT

Perforations: (below): 12 FT
4 1/2-FH



Company: Stewart Producers, Inc

Lease: Dinges Trust #2

SEC: 13 TWN: 18S RNG: 25W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 8
Elevation: 2340 EGL
Field Name: Dex SW Ext (1/8 E)
Pool: Pool Ext
Job Number: 251

Operation:
Uploading recovery & pressures

DATE
October
09
2018

DST #2 **Formation: Miss. Dolomite** **Test Interval: 4333 - 4346'** **Total Depth: 4346'**
Time On: 02:16 10/09 Time Off: 10:01 10/09
Time On Bottom: 04:54 10/09 Time Off Bottom: 07:54 10/09

Mud Properties

Mud Type: **Weight:** **Viscosity:** **Filtrate:** **Chlorides: ppm**