

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](mailto: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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CHARGE TO: Stewart Producers  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 34541

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Ness City WELL PROJECT NO. #1-19 LEASE Mishler COUNTY/PARISH Ness STATE KS CITY Ness City DATE 9/16/2020 OWNER  
 2. Oil CONTRACTOR Pickrell Ddg RIG NAME/NO. LOCATION SHIPPED VIA CT ORDER NO.  
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Surface Pipe WELL PERMIT NO.  
 4. REFERRAL LOCATION Development WELL LOCATION Ness City, 5-W, 16-N

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1							7.00	70.00
576.5		1		MILEAGE	10	mi			1.100	1,100.00
				<u>Pump Charge - Surface</u>	1	job				
325		1		<u>Standard Cement</u>	165	sks			15.00	2,475.00
279		1		<u>BENTONITE GEL</u>	3	sks			40.00	120.00
278		1		<u>Calcium Chloride</u>	8	sks			40.00	320.00
290		1		<u>D-AIR</u>	2	gal			42.00	84.00
581		1		<u>Cement Service Charge</u>	165	sks			2.00	330.00
582		1		<u>Minimum Drayage</u>	1	job			350.00	350.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
**X**

DATE SIGNED 9/16/2020 TIME SIGNED 4:25  A.M.  P.M.  
 SWIFT OPERATOR Quinn Fuchs APPROVAL

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO  
 WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO  
 ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO  
 CUSTOMER DID NOT WISH TO RESPOND

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

PAGE TOTAL 1  
 TOTAL 5743.94

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE	PAGE NO.
9/16/2022	1
TICKET NO. 34541	

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Stewart Producers		1-19		Mishler		Surface Pipe		34541	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1415								ON LOCATION @ 8 5/8" 2B16/16
									RTD: 265'
	1450								Break Circulation
	1455	3 1/2	5		✓	150			Pump 5 bbl H <sub>2</sub> O Space
	1500	4	40		✓	100			Mix 165 sks of Standard 2% gel, 3% CL Cement @ 14.7ppg
	1510	4	0		✓	50			Begin Displacement
	1515	-	16		✓	200			KO Pump @ No Cement Circulated Down Trench *Jet Cellar + H <sub>2</sub> O Cement*
	1530								Wash up Trk #115
	1600								Job Complete
									165 sks of Standard Cement Used
									Approx 5 sks @ Circulated IN Cellar
									THANKS!
									Gideon, Mark, John



TICKET 34698

CHARGE TO: *Stewart & Andrews*  
 ADDRESS  
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. *Ness City*  
 2.  
 3.  
 4.  
 REFERRAL LOCATION

WELL/PROJECT NO. *#1-19*  
 CONTRACTOR *Mishler*  
 COUNTY/PARISH *Ness*  
 RIG NAME/NO.  
 TICKET TYPE  
 SERVICE SALES  
  
 WELL TYPE *oil*  
 WELL CATEGORY *Development*  
 JOB PURPOSE *PTA*  
 INVOICE INSTRUCTIONS

DATE *9-21-22*  
 ORDER NO.  
 WELL LOCATION *Ness city 58-4*  
*1-N, wt-in-to*

STATE *KS*  
 CITY  
 DELIVERED TO *location*  
 WELL PERMIT NO.

OWNER  
 DATE  
 ORDER NO.  
 WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
<i>575</i>		<i>1</i>			<i>10</i>	<i>mi</i>			<i>7.00</i>	<i>70.00</i>
<i>576</i>		<i>1</i>		<i>Pump Charge</i>	<i>1</i>	<i>Job</i>			<i>1100.00</i>	<i>1100.00</i>
<i>328-4</i>		<i>1</i>		<i>60/40 poz mix 40 gal</i>	<i>230</i>	<i>SKS</i>			<i>12.50</i>	<i>2875.00</i>
<i>276</i>		<i>1</i>		<i>Flare</i>	<i>57</i>	<i>lbs</i>			<i>3.00</i>	<i>171.00</i>
<i>290</i>		<i>1</i>		<i>D-Air</i>	<i>2</i>	<i>gal</i>			<i>42.00</i>	<i>84.00</i>
<i>581</i>		<i>1</i>		<i>CMT Service Charge</i>	<i>230</i>	<i>SK</i>			<i>2.00</i>	<i>460.00</i>
<i>582</i>		<i>1</i>		<i>Min. Drayage</i>	<i>19308</i>	<i>lbs</i>	<i>96</i>	<i>700</i>	<i>350.00</i>	<i>350.00</i>

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

**X**

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO  CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL \$ *5110.00*

*Gross* *203* *45*

TOTAL *5313* *45*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *Priscilla* APPROVAL

Thank You!

# SWIFT Services, Inc.

DATE 9-21-22	PAGE NO. 1
TICKET NO. 34698	

## JOB LOG

CUSTOMER Stewart		WELL NO. #1-19		LEASE Mishler		JOB TYPE PTA		TICKET NO. 34698	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	8:00								ON location plug thru drill pipe
	8:30	3.5	13	✓		100			1st plug at 1650' mix 50 SKS displace CMT
		3.5	16	✓		100			
	9:10	3.5	21	✓		150			2nd plug at 840' mix 80 SKS displace CMT
		3.5	4	✓		150			
	9:45	3.5	13	✓		150			3rd plug at 300' mix 50 SKS displace CMT
		3.5	1	✓		150			
	10:10		5 1/2	✓					4th plug at 60' mix 20 SKS
	10:15		8						plug RH w/ 30 SKS
	10:20								wash pump truck
	10:45								Job Complete Thanks! Prostan, Kirby, John
									230 SKS 60/40 pro. 4% gel 1/4" Flocote used

Geologic Report  
**Aaron L. Young**

Drilling Time and Sample Log

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

Well Name: Mishler # 1-19  
API: 15-135-26185  
Location: Section 30 - T18S - R24W  
License Number: 34996  
Spud Date: 09 / 16 / 2022  
Surface Coordinates: 2303' FSL and 1462' FEL  
Approx. SE - NE - NW - SE  
Region: Ness Co., KS  
Drilling Completed: 09 / 20 / 2022  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2301' K.B. Elevation (ft): 2308'  
Logged Interval (ft): 3650' To: 4400' Total Depth (ft): 4400'  
Formation: Mississippian  
Type of Drilling Fluid: Chemical - Mud-Co

Printed by MudLog 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: Aaron L. Young, M.S.  
Company: Young Consulting, LLC  
Address: 100 S. Main, Suite 505  
Wichita, Kansas 67202

**General Info**

CONTRACTOR: Pickrell Drilling, Rig #10

**BIT RECORD:**

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Smith	15-15-15	265	265	3.25
2	7-7/8	Smith MI616	14-14-14	4400	4135	46.75

SURVEYS: 265'--.25, 754'-.75, 1259'-.75, 1828'-BULLSEYE, 2333'-.75, 2901'-.5, 4335'-.75

**GENERAL DRILLING AND PUMP INFORMATION:**

Drilling with 12,000 lbs. on bit and approx 80-90 RPM.  
Running 8 stands of collars; 491.56'  
Pumping 60 SPM; approx 800-1050 psi at standpipe.



## Daily Status

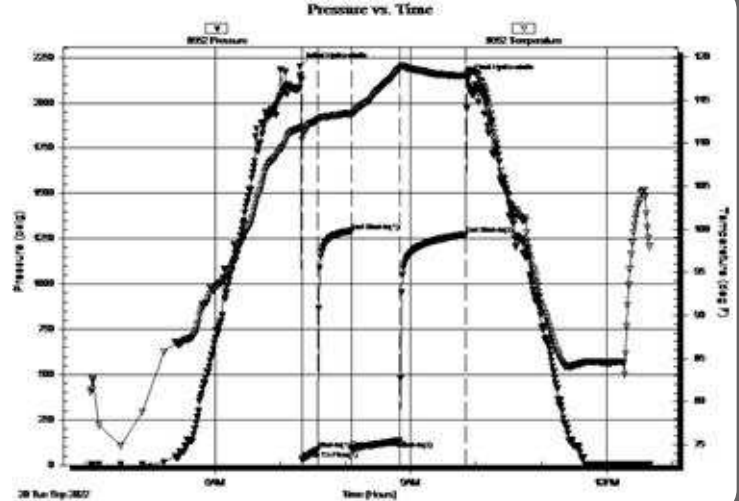
09/16/22 - Spud at 8:45am. Ran 6 jts of 8 5/8" 23# casing set at 263'(tally 253'). Cem w/ 165 sx Standard 3% cc & 2% gel. Cem did Circulate. PD @ 3:15pm 09/16/22  
 09/17/21 - Drilling @ 847'  
 09/18/21 - Drilling @ 2806'  
 09/19/21 - Drilling @ 3912'  
 09/20/21 - TIH for DST #1 @ 4335'  
 09/21/21 - P&A, Plugged with 230 sx total, 60/40 poz, 1/4# floreal

DST #1 MISS 4262'-4335'  
 15" - 30" - 45" - 60"

IF: Built to 4.25"  
 ISI: No return  
 FF: Built to 9.75"  
 FSI: No return

Rec'd: 122' MCW w/ oil spots (85% W, 15% M), 123' OSM (100% M)

SIP: 1293-1273#  
 FP: 29-85#, 90-136#  
 HP: 2200-2135#



## 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
	Sltlysh
	Lms

### ACCESSORIES

#### 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

#### 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

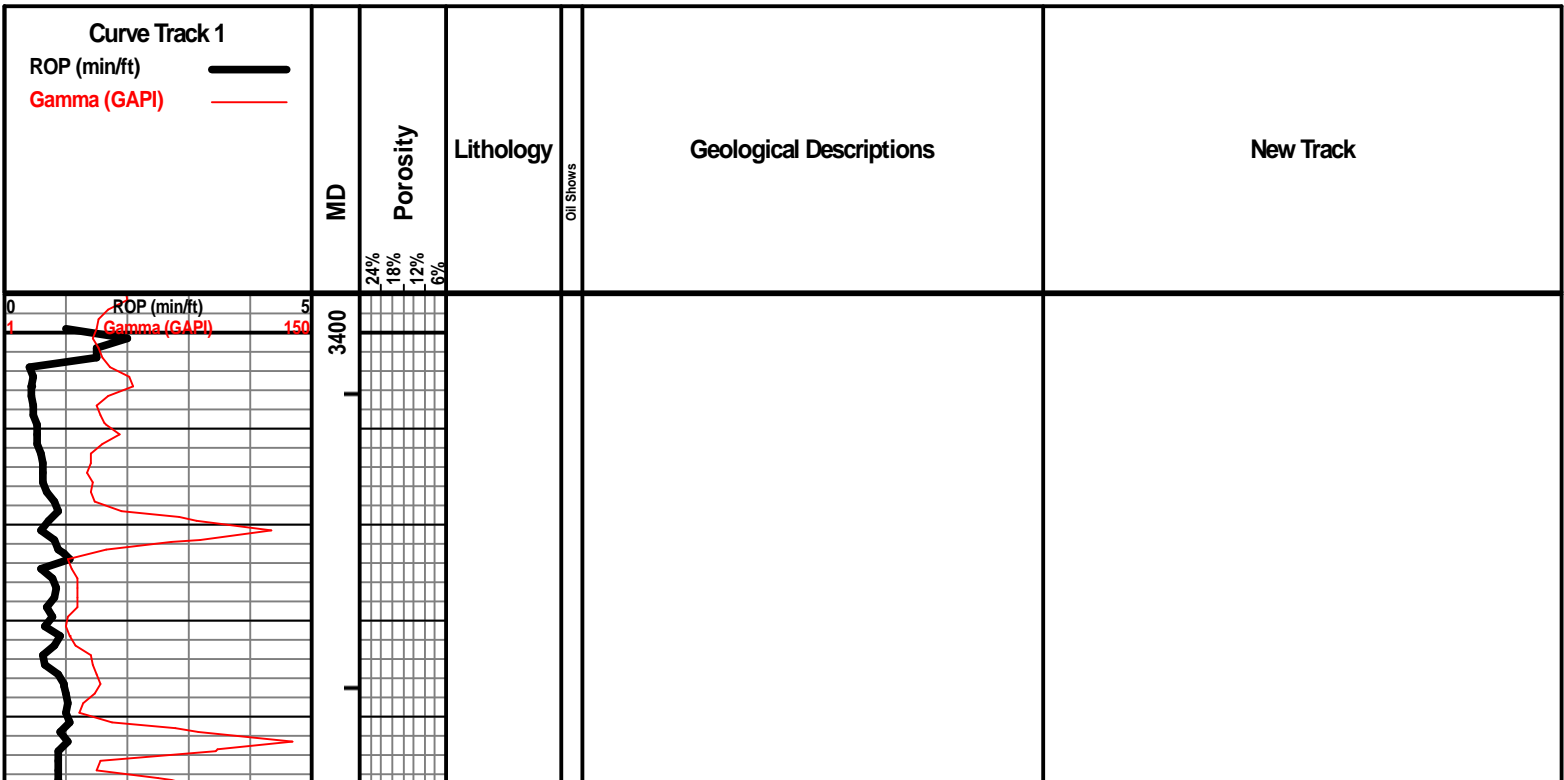
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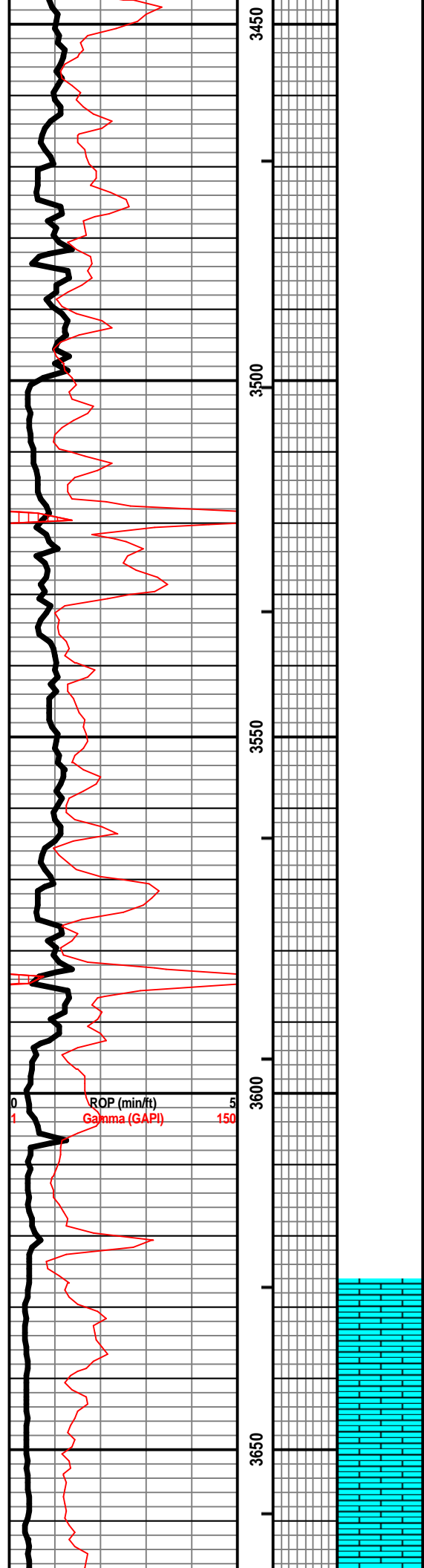
- Core
- Dst

- Dst

#### EVENTS

- Rft
- Sidewall
- Conn





3450

3500

3550

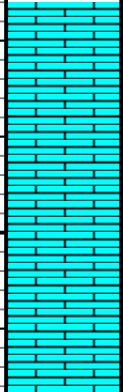
3600

3650

ROP (min/ft)  
Gamma (GAPI)

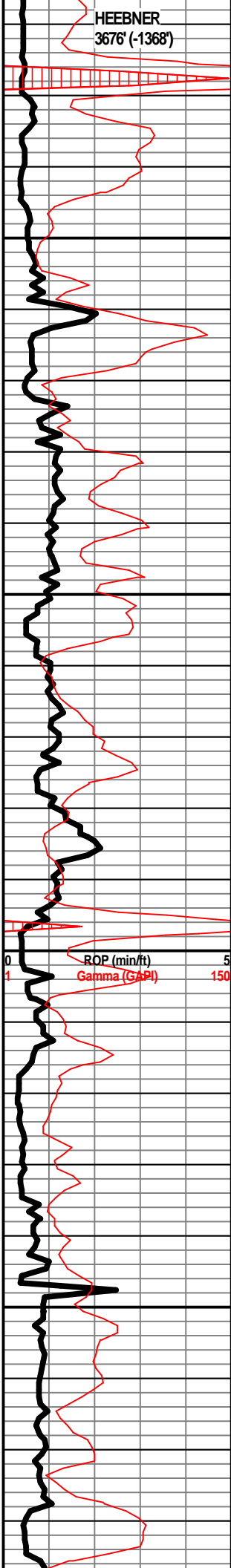
5  
150

0  
1



LS- WHT / CRM, VCHKY

HEEBNER  
3676' (-1368')



3700

3750

3800

3850

SH - BLK, CARB, F SHO OF GAS BUB, W/LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT, W/SH - GY / GRN

LS - CRM / TAN, F XLN, MOD DNS, W/SH - LT GRN / LT GY

LS - TAN, F / M XLN, DNS / MOD DNS, FOSS IN PT, W/SH - DK GY / LT GY

LS - TAN / CRM, F / M XLN, VF XLN IN PT, PRED MOD DNS / DNS, SUBCHKY IN PT, W/SH - MAR / GRN / GY

LS - CRM / TAN, F XLN, ABUND FOSS, OOLITIC IN FEW PIECES, P INTERXLN POR IN FEW PIECES, NS,

SH - BLK, CARB, SLI SHO OF GAS BUB

LS - CRM, VF XLN, MOD DNS / SUBCHKY IN PT, W/LS - TAN, F / M XLN, MOD DNS / DNS, FOSS IN PT, W/SH - LT GRN

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, SUBCHKY IN PT, ABUND FOSS IN PT, W/SCAT CHT - CRM, OPAQ, FRSH

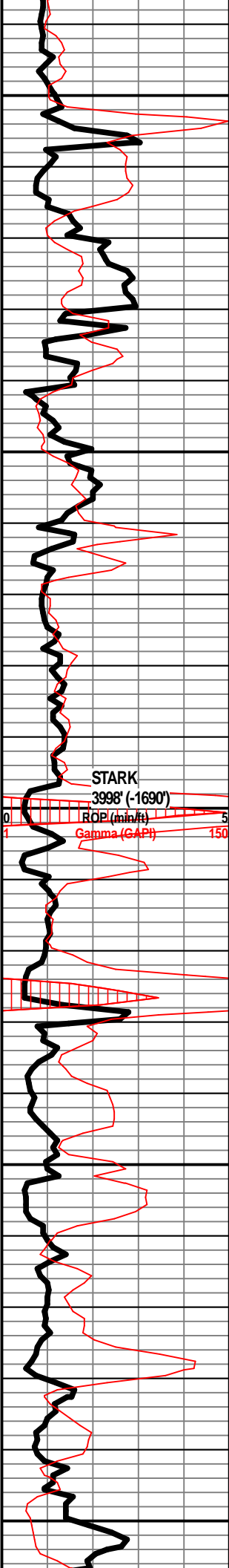
LS - CRM, TAN IN PT, VF XLN, PRED MOD DNS, SLI SUBCHKY IN PT, W/SCAT CHT - CLR, TRANSLUCNT, FRSH, FOSS

LS - CRM, VF / F XLN, MOD DNS / DNS, SUBCHKY IN PT, W/SH - DK GRN / GY

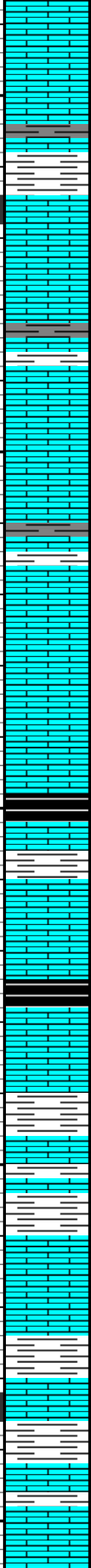
LS - CRM / TAN, F / VF XLN, PRED MOD DNS / DNS, SUBCHKY / CHKY IN PT, W/SH - MAR / DK GRN / GY

ROP (min/ft)  
Gamma (GAPI)

0 5  
1 150



3900  
3950  
4000  
4050  
4100



LS - CRM/TAN, F XLN, MOD DNS/DNS, FOSS IN PT, W/SH - GRN /GY/MAR

LS - TAN /CRM/LT GY, F XLN, DNS/MOD DNS, FOSS, P OOLMOLDIC POR IN PT, NS, W/SH - DK GY /GY/ GRN

LS - TAN, F /M XLN, MOD DNS/DNS, FOSS, W/LS - CRM, VF XLN, SUBCHKY /CHKY IN PT, W/SH - GRN /GY

LS - CRM, VF XLN, SUBCHKY /CHKY, W/SH - GY /GRN

LS - CRM, SUBCHKY

SH - BLK, CARB, V SLI SHO OF GAS BUB

LS - TAN, F /M XLN, MOD DNS/DNS, FOSS, W/SH - GRN /GY

SH - BLK, CARB, W/LS - CRM/TAN, VF XLN, SUBCHKY /MOD DNS

LS - CRM/TAN, F XLN, MOD DNS/DNS, FOSS IN PT, P OOLMOLDIC POR IN FEW PIECES, NS, NO ODOR, W/SH - LT GY

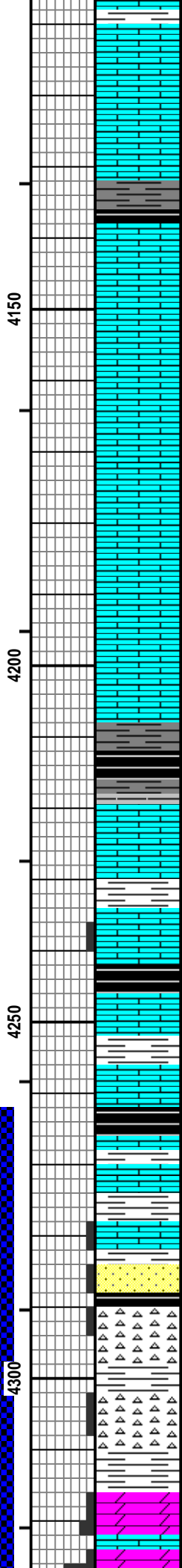
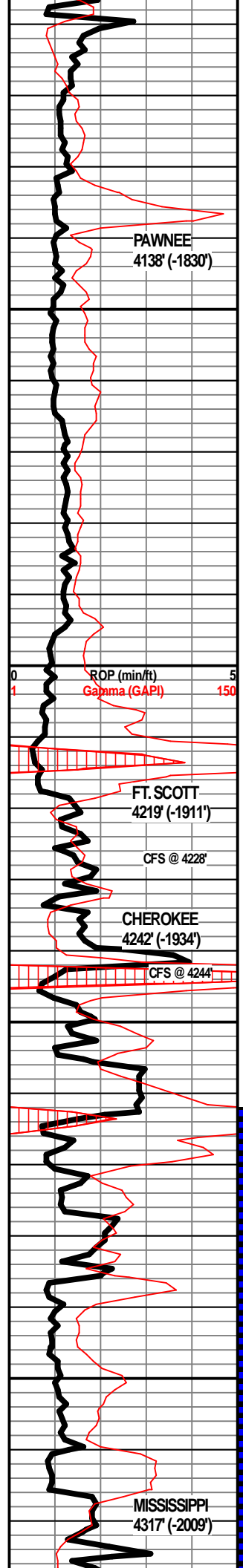
LS - CRM/TAN /GY IN PT, F /VF XLN, M XLN IN PT, PRED MOD DNS /SUBCHKY, DNS IN PT, W/SH - LT GRN /LT GY, FEW SCAT PIECES OF PYRITE

LS - CRM/TAN, F XLN, MOD DNS, FOSS, P/F INTERXLN & VUG POR IN FEW PIECES, SSFO, V LT BRN OIL DROPLETS, NO ODOR, BRI YEL-GRN FLUOR IN SHOW ROCKS

LS - CRM, F XLN, MOD DNS, FOSS IN PT, W/SH - GRN /GY

WT 9.0  
VIS 65  
LCM 1#

WT 8.9  
VIS 65  
LCM 1#



LS - CRM / TAN / GY, F XLN, MOD DNS / DNS, W / SH - GY

LS - LT GY / GY, F XLN, MOD DNS / DNS, V HOMOGENEOUS

SH - BLK, CARB, W / LS - GY, F XLN, MOD DNS / DNS, W / LS - CRM / TAN, VF / F XLN, M XLN IN PT, PRED MOD DNS, DNS IN PT, FOSS IN PT

LS - TAN / GY, F XLN, MOD DNS / DNS

LS - DK GY, F XLN, MOD DNS / DNS, V HOMOGENEOUS

LS - DK GY, F XLN, MOD DNS / DNS, V HOMOGENEOUS

SH - BLK, CARB

LS - TAN / CRM, F / M XLN, MOD DNS / DNS, FOSS, NO VIS POR, NS

LS - TAN, F XLN / M XLN, DNS, FOSS IN PT, NO VIS POR NS, W / SH - GY

LS - CRM, VF XLN, MOD DNS / SUBCHKY, P INTERXLN POR IN PT, VSSFO, V LT OIL DROPLETS, F CUP ODOR, MOD YEL-GRN FLUOR IN SHOW ROCKS, SHOW ROCKS PRED SUBCHKY

SH - BLK, CARB, W / LS - TAN, F XLN, MOD DNS / DNS, ABUND FOSS, W / SH - GRN / GY

LS - TAN / CRM, F XLN, DNS, FOSS IN PT, W / SH - GRN / GY

SH - BLK, CARB, W / LS - CRM / TAN, VF XLN, MOD DNS / SUBCHKY

SH - LT GRN / LT GR, W / LS - CRM / TAN, F XLN, MOD DNS / SUBCHKY

LS - CRM / TAN, F / VF XLN, MOD DNS / DNS, SUBCHKY IN PT, VP INTERXLN POR IN FEW PIECES, VSSFO, LT BRN OIL DROPLETS, NO ODOR, NO FLUOR

SS - CLR / WHT / GY, F GR, SUB-RND, W SRD, MOD / W CEM, VP INTERGR POR IN PT, ABUND STN, DEAD FLAKY OIL, W FEW PIECES OF CHT - GY, OPAW, VP WEATH POR, SSFO, SLOWLY BLEEDING OIL, DRK BRN OIL DROPLETS, DULL YEL-GRN FLUOR IN SHOW ROCKS, SLI CUP ODOR W / SH - GRN / GY / MAR / PURP

CHT - WHT / TAN / YEL / GY, OPAQ & TRANSLUCNT, PRED FRSH, FP WEATH POR IN PT, GSFO, ABUND OIL DROPLETS, SLOWLY BLEEDING OIL, V P PERM, F CUP ODOR, DULL / MOD YEL-GRN FLUOR, W / SH - GRN / RD-ORNG, GY

SH - TURQ / GRN, PURP IN PT

DOLO - TAN / GY, F XLN, PRED DNS, FOSS IN PT, SUCROSIC IN PT, F / G INTERXLN POR IN PT, FSFO, LT BRN OIL, G CUP ODOR, BRI YEL-GRN FLUOR

DOLO - TAN / CRM, F XLN, SUCROSIC, FOSS, F / G INTERXLN POR IN PT, GSFO, G CUP ODOR, BRI YEL-GRN FLUOR IN SHOW

WT 9.1  
VIS 65  
LCM 1#

WT 9.1  
VIS 65  
LCM 1#

DST #1 MISS  
4262'-4335'  
15" - 30" - 45" - 60"

IF: Built to 4.25"  
IS: No return  
FF: Built to 9.75"  
FS: No return

Rec'd: 122' MCW w/ oil spots (85% W, 15% M), 123' OSM (100% M)

SIP: 1293-1273#  
FP: 29-85#, 90-136#  
HP: 2200-2135#





## DRILL STEM TEST REPORT

Prepared For: **Stewart Producers Inc**

PO Box 546  
MT. Vernon, Il 62864

ATTN: Aaron Young

### **Mishler #1-19**

#### **19-18S-24W Ness,KS**

Start Date: 2022.09.20 @ 04:06:00

End Date: 2022.09.20 @ 12:40:15

Job Ticket #: 69829                      DST #: 1

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

Printed: 2022.09.21 @ 15:55:19

Stewart Producers Inc  
19-18S-24W Ness,KS  
Mishler #1-19  
DST # 1  
Miss  
2022.09.20





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Stewart Producers Inc

**19-18S-24W Ness,KS**

PO Box 546  
MT. Vernon, IL 62864

**Mishler #1-19**

Job Ticket: 69829

**DST#: 1**

ATTN: Aaron Young

Test Start: 2022.09.20 @ 04:06:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:20:00

Time Test Ended: 12:40:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

**Interval: 4262.00 ft (KB) To 4335.00 ft (KB) (TVD)**

Reference Elevations: 2307.00 ft (KB)

Total Depth: 4335.00 ft (KB) (TVD)

2300.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 135.82 psig @ 4263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.20 End Date: 2022.09.20

Last Calib.: 2022.09.20

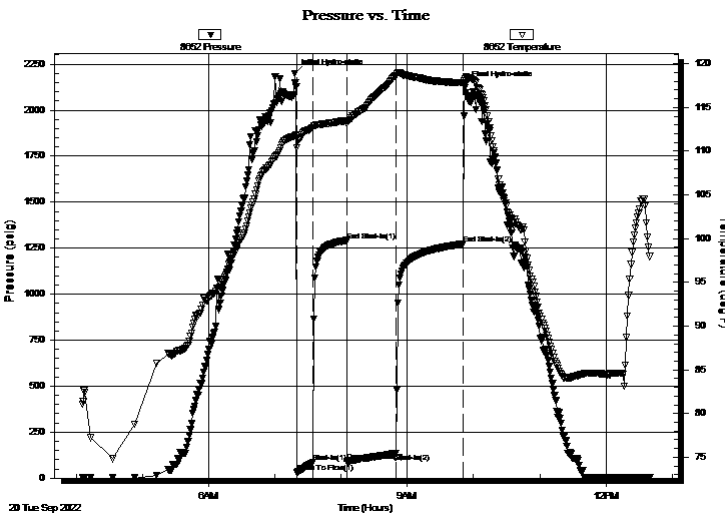
Start Time: 04:06:05 End Time: 12:40:15

Time On Btm: 2022.09.20 @ 07:18:15

Time Off Btm: 2022.09.20 @ 09:52:15

**TEST COMMENT:** IF- Built to 4 1/4"  
SI1-30- No return  
FF-45- Built to 9 3/4"  
SI2-60- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.20	111.75	Initial Hydro-static
2	29.49	110.39	Open To Flow (1)
17	85.10	112.71	Shut-In(1)
47	1292.50	113.49	End Shut-In(1)
48	89.59	113.15	Open To Flow (2)
92	135.82	118.66	Shut-In(2)
153	1272.52	117.81	End Shut-In(2)
154	2135.30	118.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
123.00	OSM 100% mud w/oil spots	0.61
122.00	MCW 15% mud 85% w ater	1.71

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Stewart Producers Inc  
PO Box 546  
MT. Vernon, IL 62864  
ATTN: Aaron Young

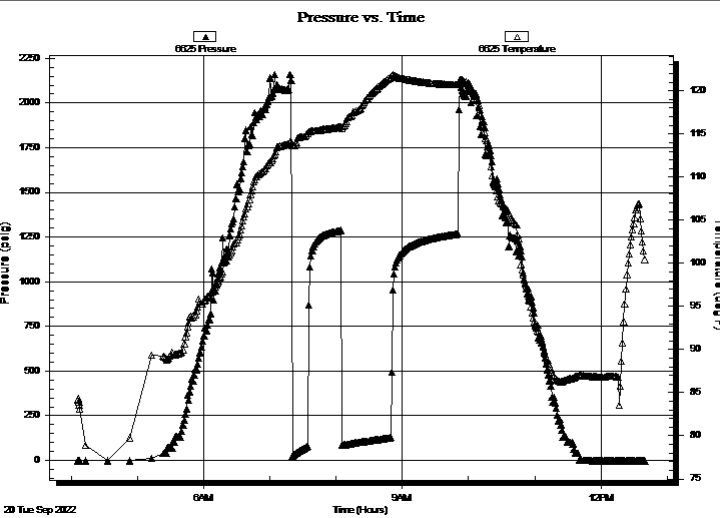
**19-18S-24W Ness,KS**  
**Mishler #1-19**  
Job Ticket: 69829      **DST#: 1**  
Test Start: 2022.09.20 @ 04:06:00

## GENERAL INFORMATION:

Formation: <b>Miss</b>			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 07:20:00		Tester: Dustin Day	
Time Test Ended: 12:40:15		Unit No: 70	
<b>Interval: 4262.00 ft (KB) To 4335.00 ft (KB) (TVD)</b>		Reference Elevations: 2307.00 ft (KB)	
Total Depth: 4335.00 ft (KB) (TVD)		2300.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 7.00 ft	

<b>Serial #: 6625</b>	<b>Inside</b>				
Press@RunDepth:                      psig @	4263.00 ft (KB)	Capacity:	8000.00 psig		
Start Date:                              2022.09.20	End Date:                              2022.09.20	Last Calib.:	2022.09.20		
Start Time:                              04:06:05	End Time:                              12:40:15	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF- Built to 4 1/4"  
SI1-30- No return  
FF-45- Built to 9 3/4"  
SI2-60- No return



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

Recovery		
Length (ft)	Description	Volume (bbl)
123.00	OSM 100% mud w/oil spots	0.61
122.00	MCW 15% mud 85% w ater	1.71

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Stewart Producers Inc

**19-18S-24W Ness,KS**

PO Box 546  
MT. Vernon, IL 62864

**Mishler #1-19**

Job Ticket: 69829

**DST#: 1**

ATTN: Aaron Young

Test Start: 2022.09.20 @ 04:06:00

## Tool Information

Drill Pipe:	Length: 4138.00 ft	Diameter: 3.80 inches	Volume: 58.05 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 58.65 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4262.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4232.00	
shut In Tool	5.00			4237.00	
hydraulic tool	5.00			4242.00	
Jars	5.00			4247.00	
EM Tool	3.00			4250.00	
Safety Joint	3.00			4253.00	
Packer	5.00			4258.00	31.00 Bottom Of Top Packer
Packer	4.00			4262.00	
Stubb	1.00			4263.00	
Recorder	0.00	6625	Inside	4263.00	
Recorder	0.00	8652	Outside	4263.00	
perforations	3.00			4266.00	
change Over Sub	1.00			4267.00	
drill Pipe	63.00			4330.00	
change Over Sub	1.00			4331.00	
Bullnose	4.00			4335.00	73.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>104.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Stewart Producers Inc

**19-18S-24W Ness,KS**

PO Box 546  
MT. Vernon, IL 62864

**Mishler #1-19**

Job Ticket: 69829

**DST#: 1**

ATTN: Aaron Young

Test Start: 2022.09.20 @ 04:06:00

### 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:

53000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
123.00	OSM 100% mud w /oil spots	0.614
122.00	MCW 15% mud 85% w ater	1.711

Total Length: 245.00 ft

Total Volume: 2.325 bbl

Num Fluid Samples: 0

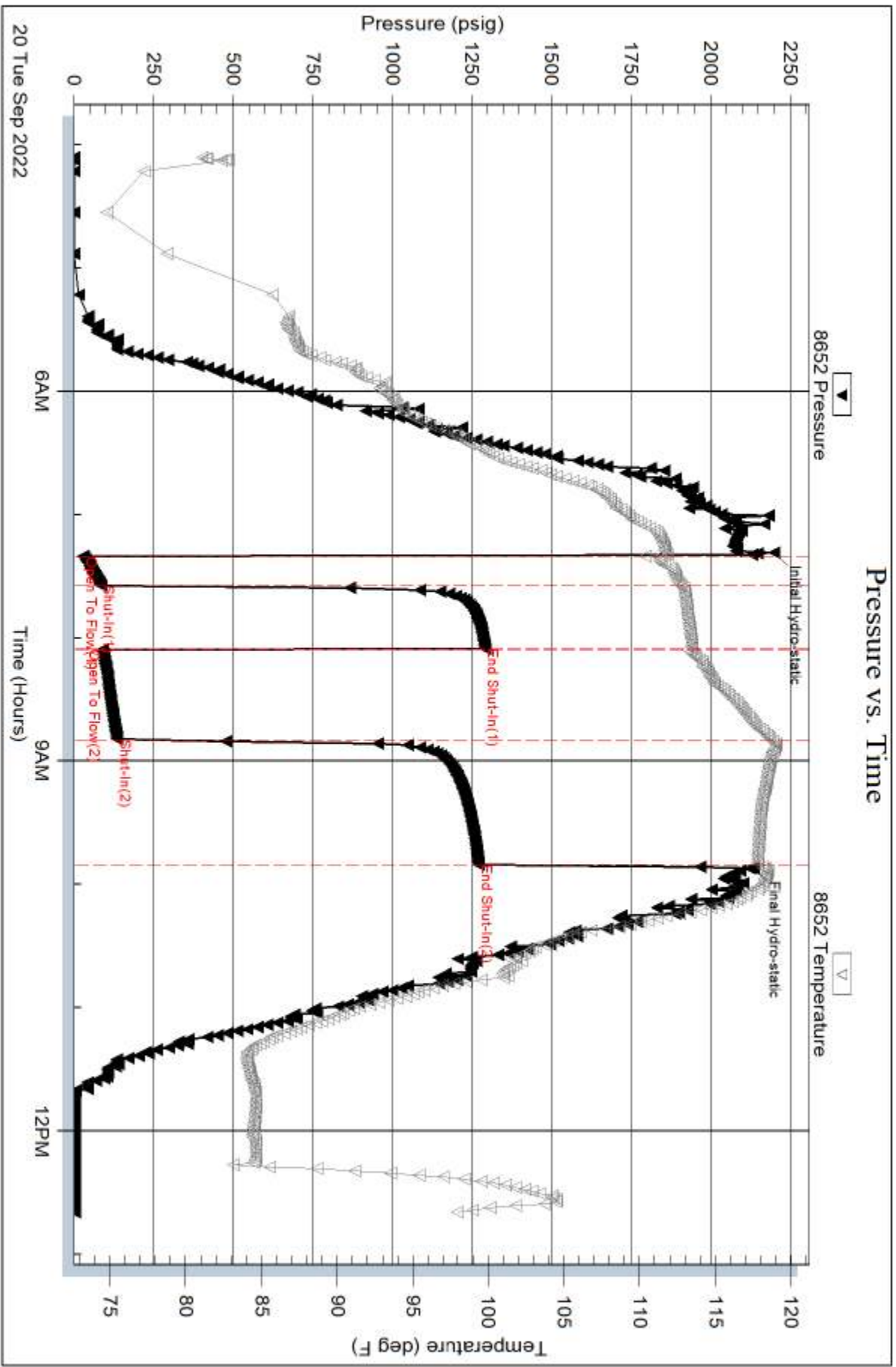
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM



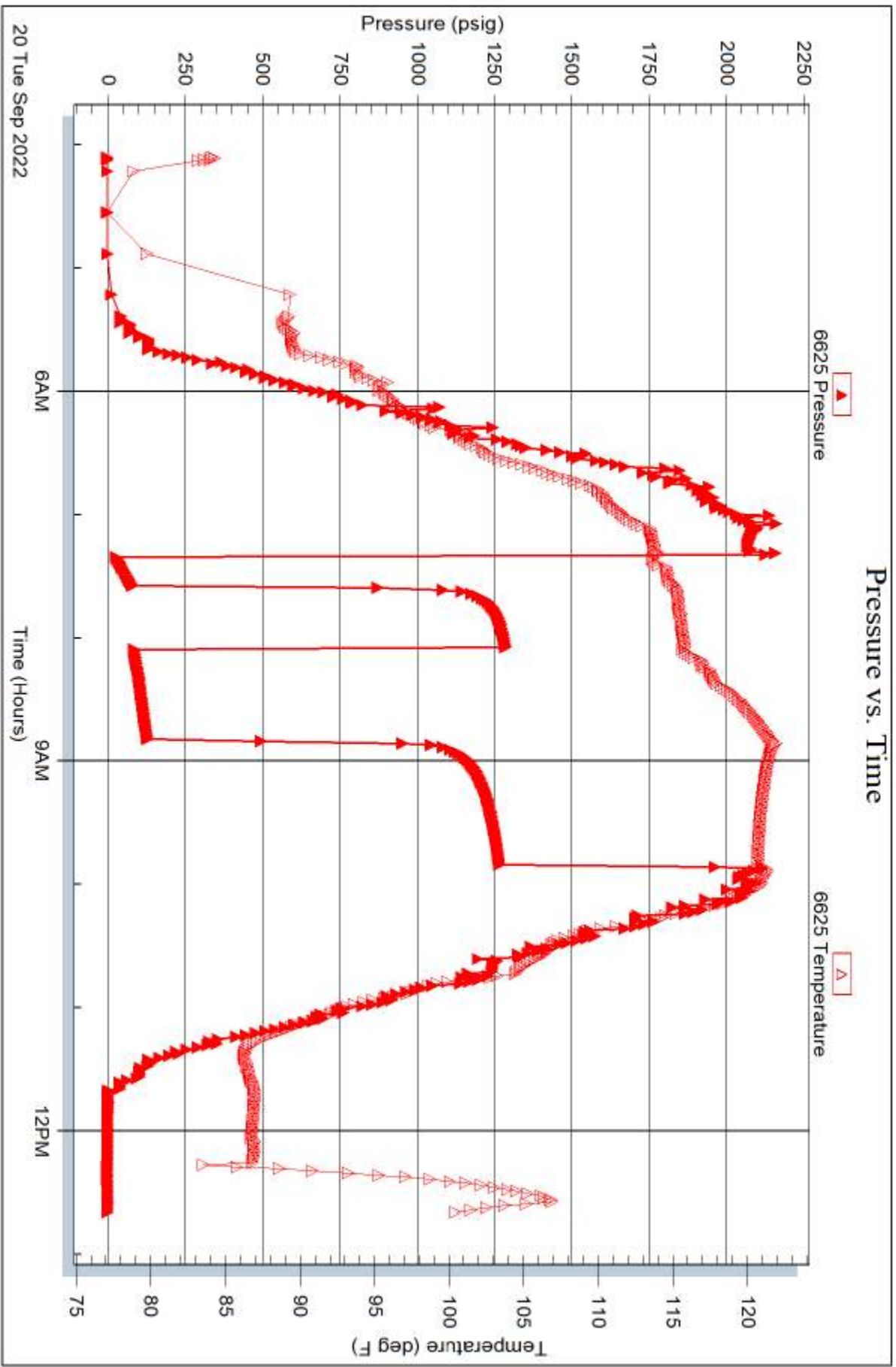
Serial #: 6625

Inside

Stewart Producers Inc

Washer #1-19

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69829**

Well Name & No. Mishler #1-19 Test No. 1 Date 9/20/22  
 Company Stewart Producers, Inc Elevation 2307 KB 2300 GL  
 Address 301 N. 27th St. PO Box 546 MT. Vernon, IL 62864  
 Co. Rep / Geo. Aaron Young Rig Pickrell  
 Location: Sec. 19 Twp 18S Rge. 24W Co. Ness State KS

Interval Tested 4262-4335 Zone Tested MISS  
 Anchor Length 73' Drill Pipe Run 4138 Mud Wt. 8.9  
 Top Packer Depth 4257 Drill Collars Run 122 Vis 65  
 Bottom Packer Depth 4262 Wt. Pipe Run ✓ WL 8.4  
 Total Depth 4335 Chlorides 2400 ppm System LCM 1#

Blow Description IF- Built to 4 1/4"  
S1/2- No return  
FF- Built to 9 3/4"  
S1/2- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>122</u>	<u>MAN w/ oil spots</u>		<u>85</u>		<u>15</u>
<u>123'</u>	<u>OSM</u>			<u>100</u>	

Rec Total 245' BHT 118 Gravity \_\_\_\_\_ API RW -11 @ 160 °F Chlorides 53000 ppm

(A) Initial Hydrostatic 2200  Test 1950 T-On Location 03:00  
 (B) First Initial Flow 29  Jars 300 T-Started 04:06  
 (C) First Final Flow 85  Safety Joint \_\_\_\_\_ T-Open 07:21  
 (D) Initial Shut-In 1293  Circ Sub \_\_\_\_\_ T-Pulled ~~09:51~~ 09:51  
 (E) Second Initial Flow 90  Hourly Standby \_\_\_\_\_ T-Out 12:41  
 (F) Second Final Flow 136  Mileage 102 153 Comments \_\_\_\_\_  
 (G) Final Shut-In 1273  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2135  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_

Initial Open 15  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In ~~100~~ 100  Day Standby \_\_\_\_\_ Sub Total 0  
 Sub Total 2403  Accessibility \_\_\_\_\_ Total 2403  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Duff Dy

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.

(785) 656-0962