

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</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	Gore Oil Company
Well Name	BIRD 3
Doc ID	1416125

Tops

Name	Top	Datum
Anhydrite	1349	+672
B/Anhydrite	1384	+637
Topeka	2927	-906
Heebner	3143	-1122
Toronto	3165	-1144
Lansing	3185	-1164
BKC	3407	-1386
Arbuckle	3443	-1422









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Gore Oil Co.

**25/8s/18w Rooks KS**

202 S St. Francis  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmaltz

**Bird #3**  
Job Ticket: 63705      **DST#: 1**  
Test Start: 2018.05.12 @ 06:18:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 6.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 35.6 deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	OCM 75% <sub>m</sub> , 18% <sub>o</sub> , 7% <sub>g</sub>	0.762
25.00	MCO 90% <sub>o</sub> , 10% <sub>m</sub>	0.123

Total Length: 180.00 ft      Total Volume: 0.885 bbl

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

Laboratory Name:      Laboratory Location:

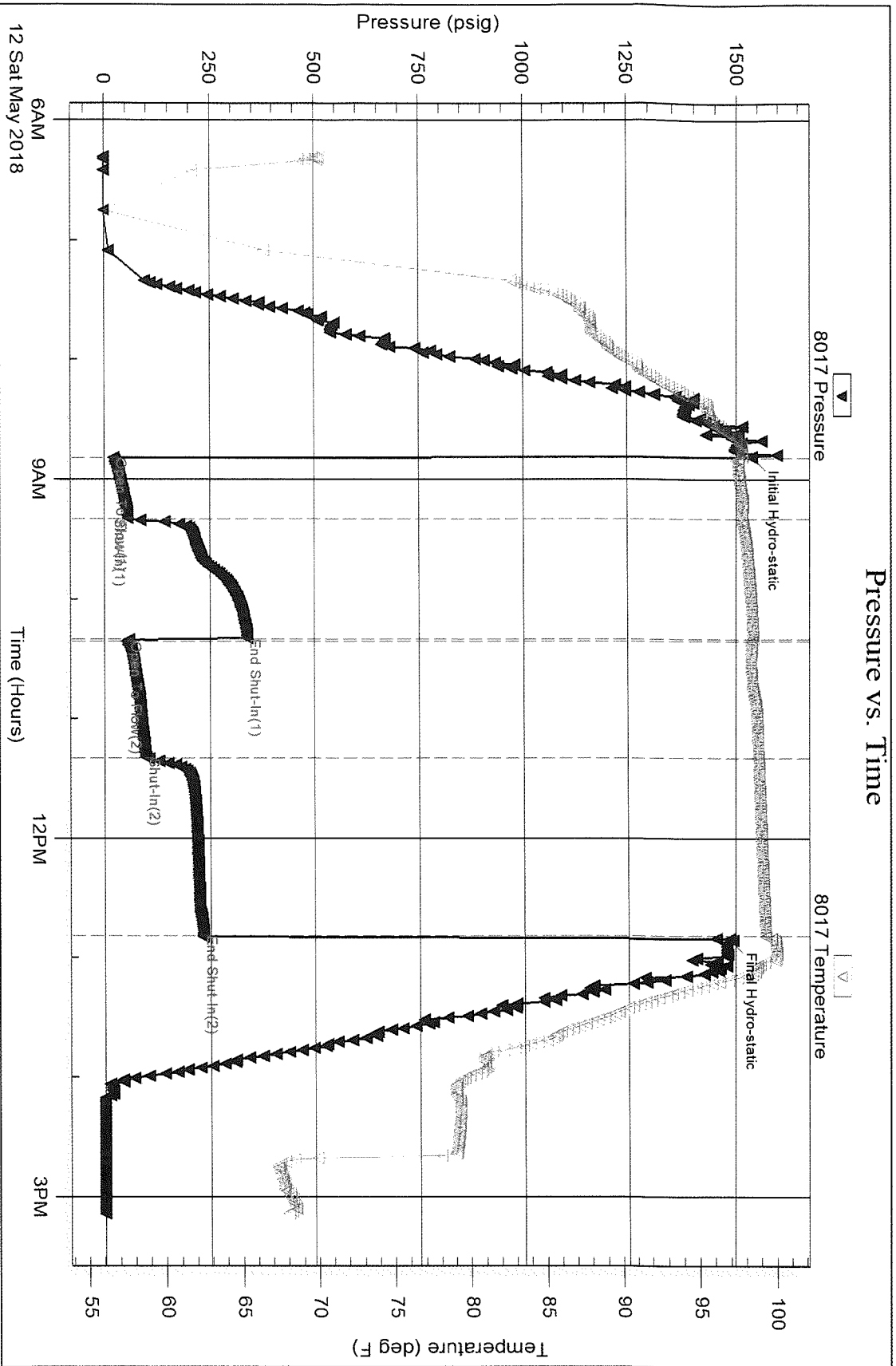
Recovery Comments: Gravity = 36 api @ 64 deg F Corrected Gravity = 35.6 api

Serial #: 8017

Outside Gore Oil Co.

Bid #3

DST Test Number: 1





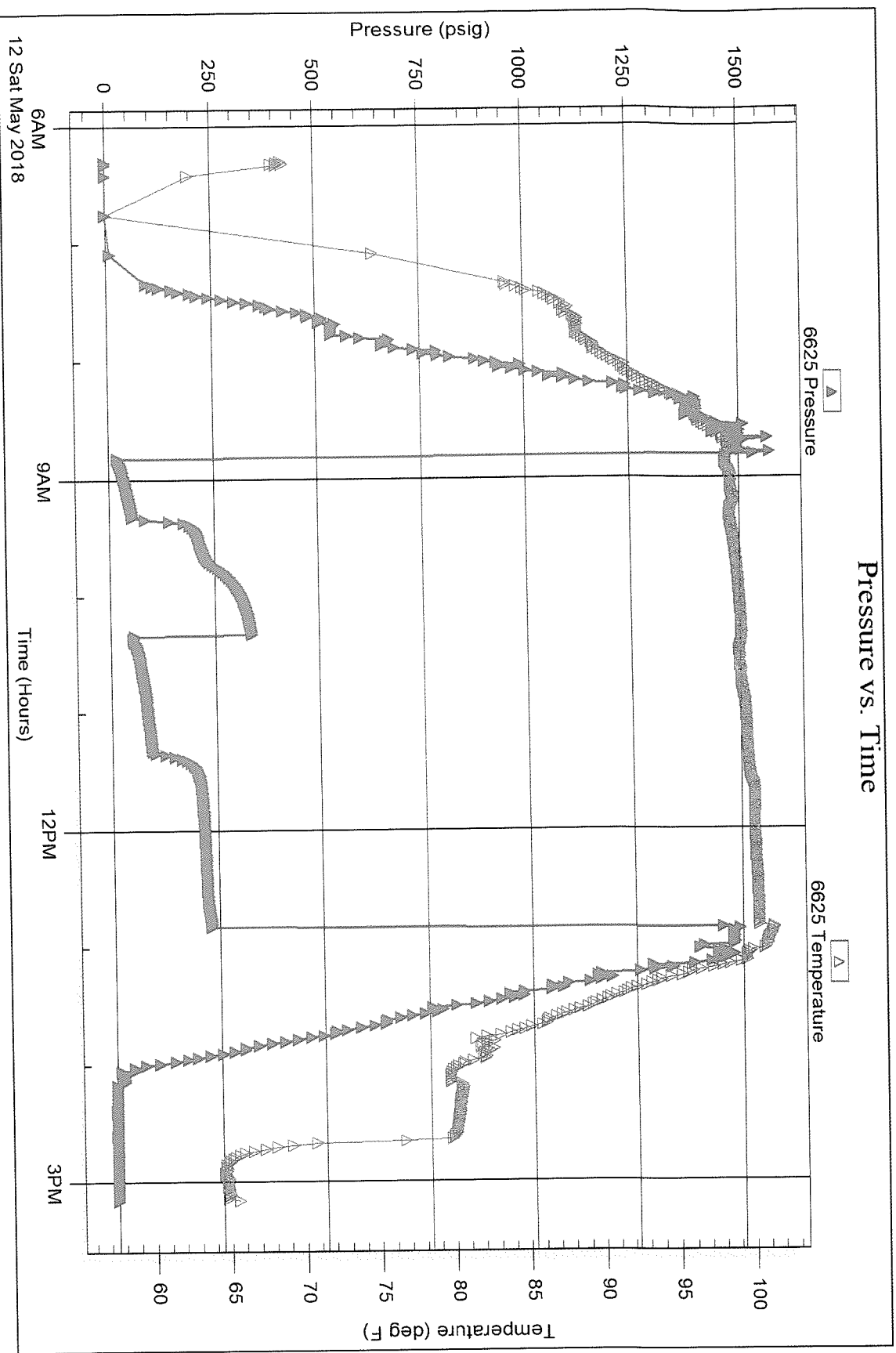
Serial #: 6625

Inside

Gore Oil Co.

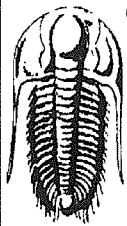
Bird #3

DST Test Number: 1









**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gore Oil Co.  
202 S St. Francis  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmaltz

**25/8s/18w Rooks KS**  
**Bird #3**  
Job Ticket: 63706      **DST#: 2**  
Test Start: 2018.05.13 @ 05:51:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32.4 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4200.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMO 46%o, 42%m, 12%g	0.590
90.00	CGO 83%o, 14%g, 3%m	0.488
0.00	GIP = 100'	0.000

Total Length: 210.00 ft      Total Volume: 1.078 bbl

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

Laboratory Name:      Laboratory Location:

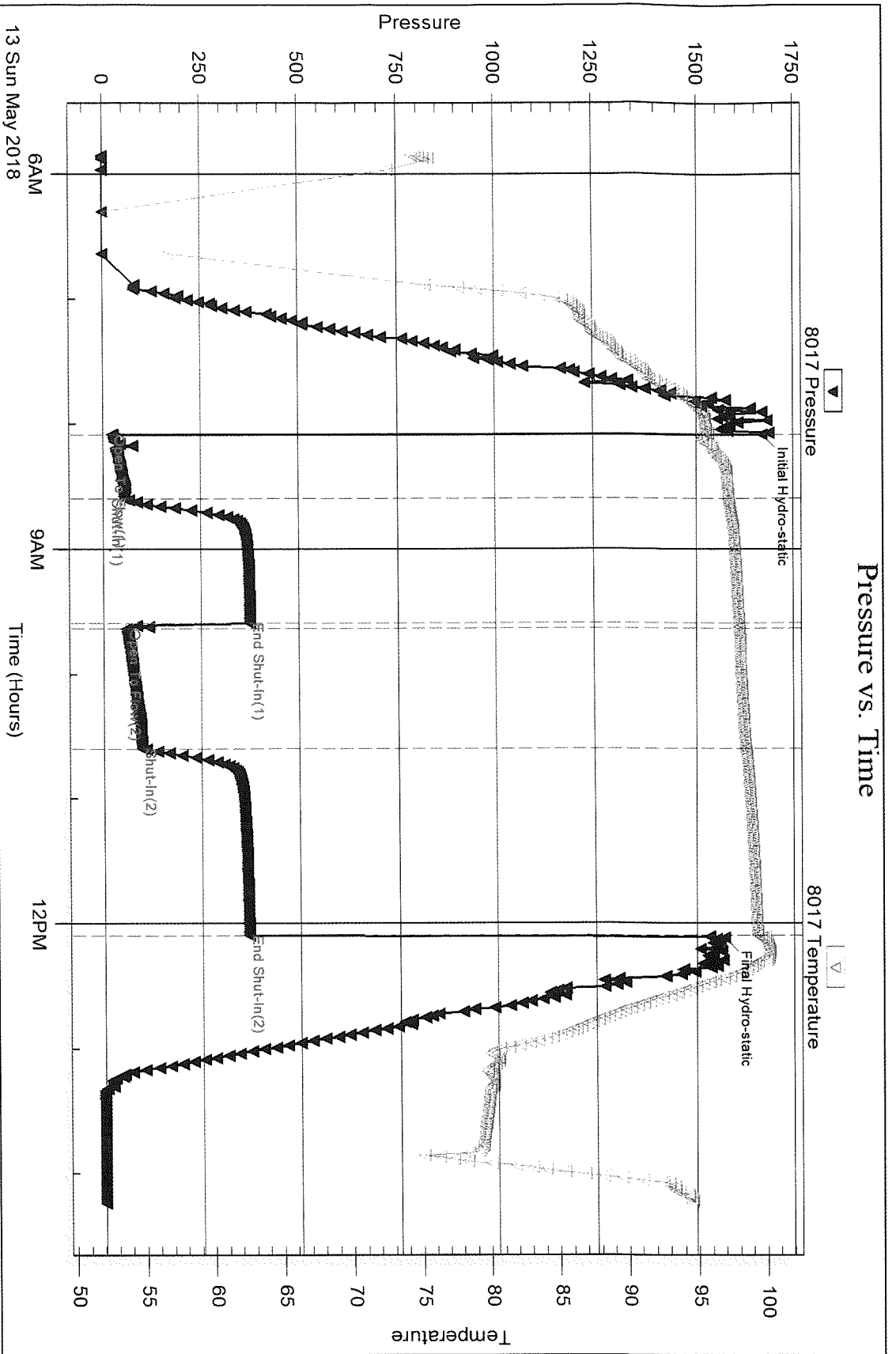
Recovery Comments: Gravity = 35 api @ 86 deg F Corrected Gravity = 32.4 api

Serial #: 8017

Outside Gore Oil Co.

Blrd #3

DST Test Number: 2



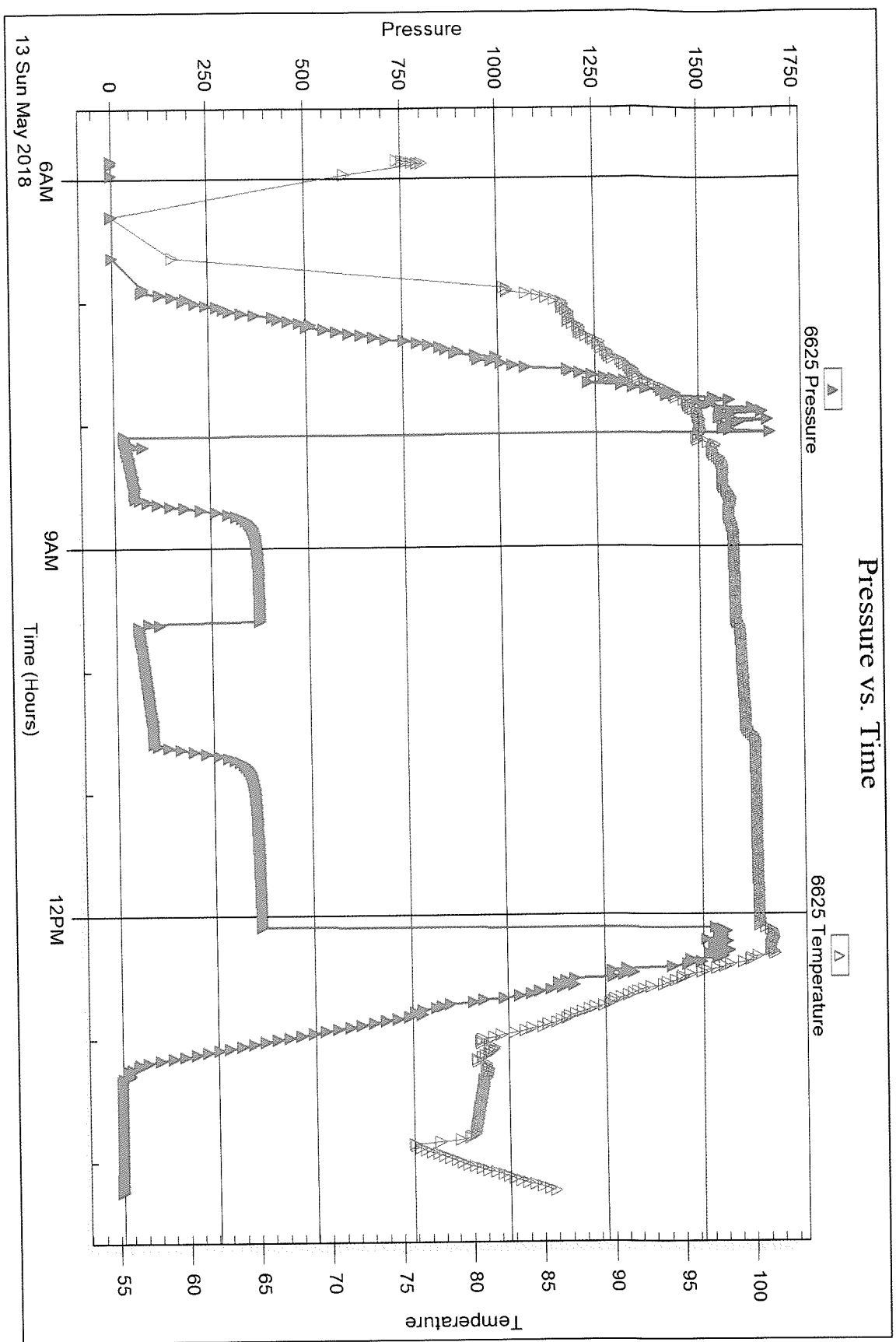
Serial #: 6625

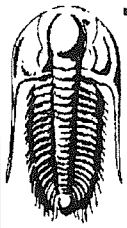
Inside

Gore Oil Co.

Bird #3

DST Test Number: 2





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Gore Oil Co.  
202 S St. Francis  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmalz

**25/8s/18w Rooks KS**

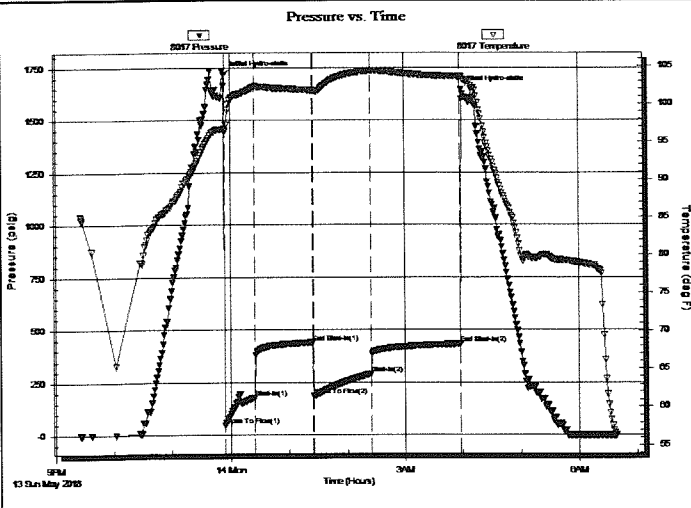
**Bird #3**  
Job Ticket: 63707      **DST#: 3**  
Test Start: 2018.05.13 @ 21:25:00

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 23:54:15  
Time Test Ended: 06:38:45  
Test Type: Conventional Bottom Hole (Reset)  
Tester: James Winder  
Unit No: 83  
Interval: **3405.00 ft (KB) To 3450.00 ft (KB) (TVD)**  
Reference Elevations: 2021.00 ft (KB)  
Total Depth: 3450.00 ft (KB) (TVD)      2016.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8017      Outside**  
Press@RunDepth: 289.59 psig @ 3406.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2018.05.13      End Date: 2018.05.14      Last Calib.: 2018.05.14  
Start Time: 21:25:05      End Time: 06:38:45      Time On Btm: 2018.05.13 @ 23:54:00  
Time Off Btm: 2018.05.14 @ 03:59:45

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 10 1/2 min.  
60 - IS: Blow back built to 1/4"  
60 - FF: Blow built to BOB at 17 min.  
90 - FS: No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.61	96.77	Initial Hydro-static
1	44.97	96.32	Open To Flow (1)
31	178.53	102.24	Shut-In(1)
91	439.70	101.78	End Shut-In(1)
92	183.65	101.70	Open To Flow (2)
151	289.59	104.32	Shut-In(2)
245	432.42	103.53	End Shut-In(2)
246	1645.82	103.51	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
300.00	MCW w/Oil spots 84%w, 14%m, 2%o	1.78
230.00	OC/MW 45%w, 39%m, 8%o, 8%g	3.23
15.00	MWCO 65%o, 20%w, 15%m	0.21
70.00	CGO 90%o, 10%g	0.98
0.00	GIP = 115'	0.00

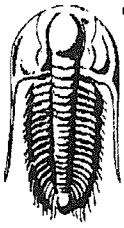
\* Recovery from multiple tests

### Gas Rates

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







**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Gore Oil Co.  
202 S St. Francis  
PO Box 2757  
Wichita, KS 67202  
ATTN: Chuck Schmaltz

**25/8s/18w Rooks KS**  
**Bird #3**  
Job Ticket: 63707      **DST#: 3**  
Test Start: 2018.05.13 @ 21:25:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 27.2 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 56000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4200.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
300.00	MCW w /Oil spots 84%w , 14%m, 2%o	1.776
230.00	OC/MW 45%w , 39%m, 8%o, 8%g	3.226
15.00	MWCO 65%o, 20%w , 15%m	0.210
70.00	CGO 90%o, 10%g	0.982
0.00	GIP = 115'	0.000

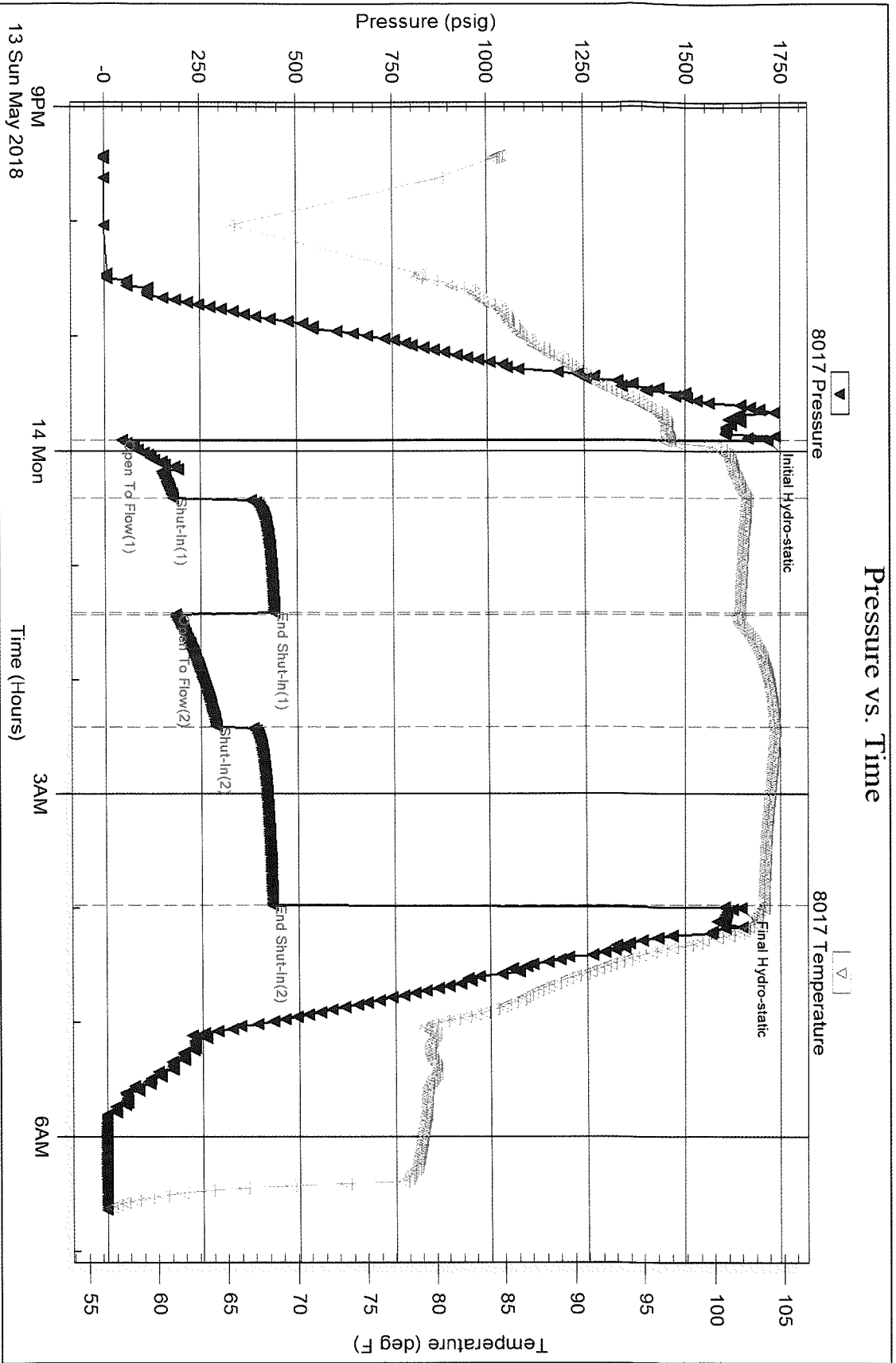
Total Length: 615.00 ft      Total Volume: 6.194 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Gravity = 27 api @ 58 deg F Corrected Gravity = 27.2 api  
 RW = .170 ohms @ 56.1 deg F Chlorides = 56,000 ppm

Serial #: 8017

Outside Gore Oil Co.

Blind #3

DST Test Number: 3



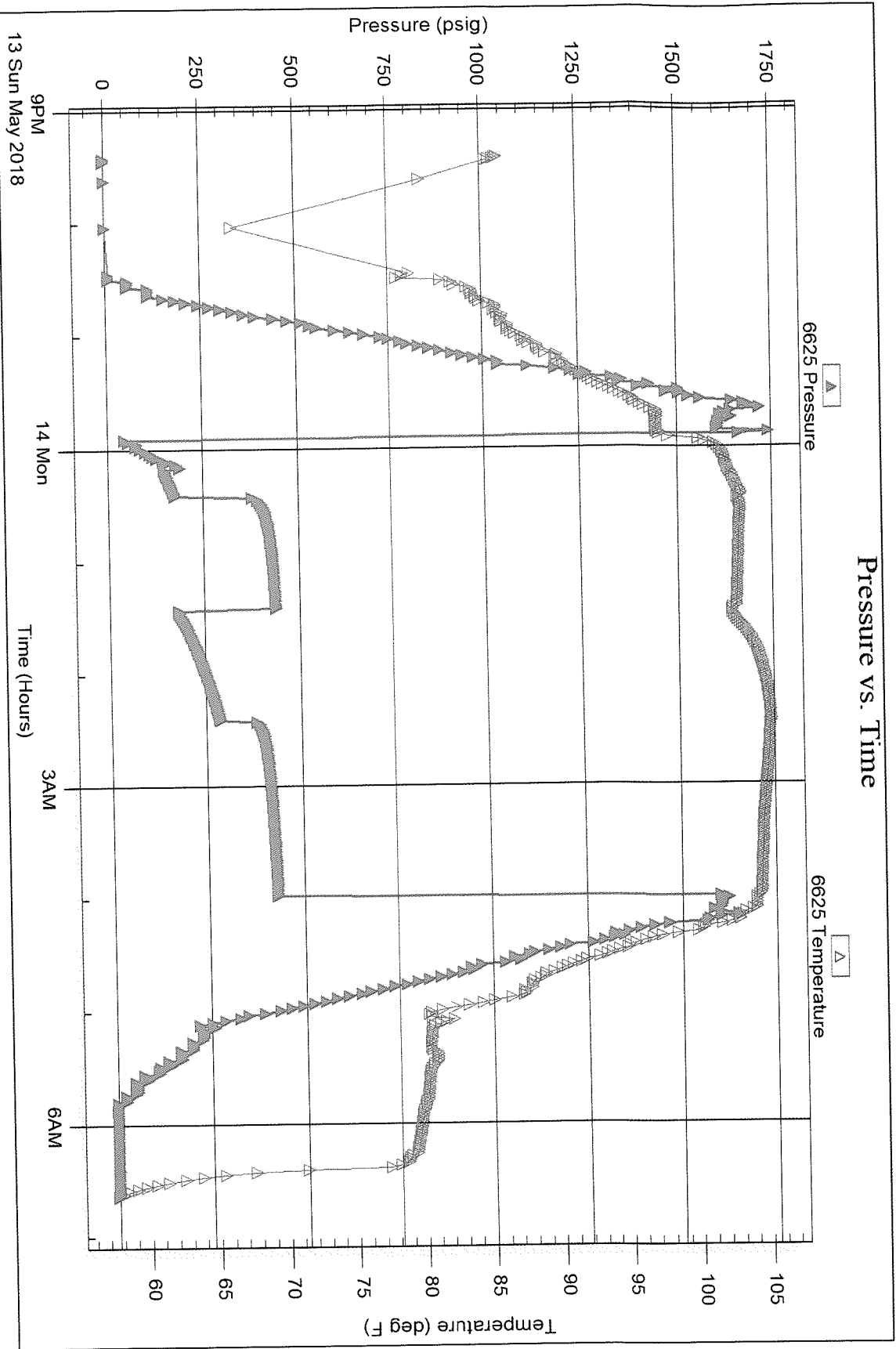
Serial #: 6625

Inside

Gore Oil Co.

Blrd #3

DST Test Number: 3



# CHARLES SCHMALTZ

CONSULTING GEOLOGIST  
WICHITA, KANSAS

REPORT LOG

COMPANY: GORE OIL CO.

WELL: BIRD #3

FIELD: DOPITA

LOCATION: 660 FSL 2310' ENL

SEC: 25 TWP: 8S RGE: 18W

COUNTY: ROKUS KANSAS

STATE: KANSAS

LAND OWNER: MUDCO SERVICE MUD INC

CONTRACTOR: MUDCO SERVICE MUD INC

DATE: 12/15/84

TIME: 10:00 AM

WELL DEPTH: 3554'

WELL ID: 3 1/2"

WELL TYPE: OIL

WELL STATUS: PRODUCING

WELL SURVEY: 1/2 @ 3541'

WELL SURVEY: 1/2 @ 3541'

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WELL SURVEY: 1/2 @ 3541'

WELL SURVEY: 1/2 @ 3541'

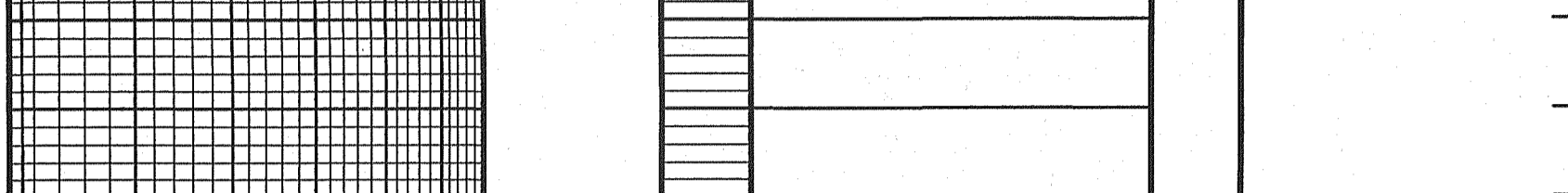
WELL SURVEY: 1/2 @ 3541'

NO	Interval	SP/Time	SSP/Time	ESP/Time	BHT/Time	REMARKS
1	3141 - 3275	22.56 <sup>#</sup>	33.9 <sup>#</sup>	54.96 <sup>#</sup>	15.59 <sup>#</sup>	25' MCO 155' OCM
2	3415 - 3450	25.58 <sup>#</sup>	37.5 <sup>#</sup>	60 <sup>#</sup>	9.9 <sup>#</sup>	100' GIP 90' SMCDO 120' GCMO
3	3504 - 3550	45.17 <sup>#</sup>	44.0	60 <sup>#</sup>	11.17 <sup>#</sup>	115' GIP - 70' SMCDO 230' 56' OCMW 300' V50' CMCW

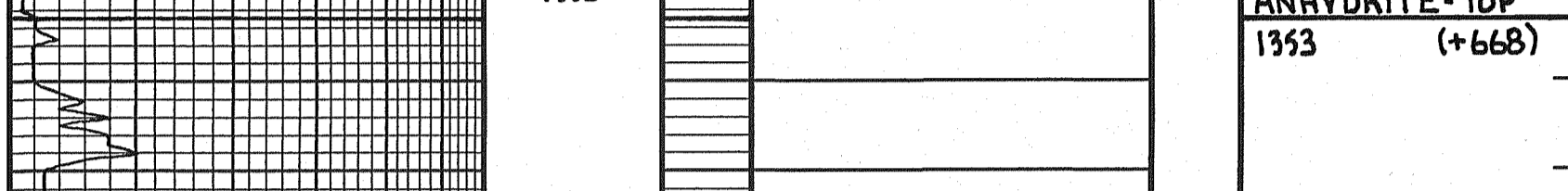
FORMATION TOPS & STRUCTURAL POSITION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE - TOP	1362 (L)	1353 (GR)	+4.615	-7
ANHYDRITE - BASE	1384	1384	+4.615	-5
TOPEKA	2927	2932	+4.615	-12
HEEBNER	3143	3146	-11.75	-13
TORONTO	3185	3185	-11.67	-15
LANSING	3465	3465	-11.67	-15
ARBUCKLE	3465	3465	-11.67	-10
TOTAL DEPTH	3554	3554	-15.33	+3

NO	SIZE	WAKE	TYPE	DEPTH OUT	FEET	HOURS	PIPE STAGES
1	1 1/4"	HTC	DP506	2700'	21.0'	3 1/2	@ 2475 - 1-4" LANSING
2	1 1/8"	HTC	EXP20C	3550'	24.80'	30 1/2	@ 252' - 1/4" @ 2725' - 1" @ 1057' - 1/4" @ 3550' - 1" @ 2100' - 3/4"
3	7/8"	HTC	EXP20C	3550'	85.0'	37 1/2	@ 2100' - 3/4"

## LEGEND



## DRILLING TIME IN MINUTES PER FOOT



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
1353	ANHYDRITE - TOP			(+668)
1384	ANHYDRITE - BASE			(+637)
2700	SHALE	sh: grey, lt grey, gummy in part		
2715	SHALE	sh: grey, lt grey, some gummy; seat brown sh shale: as above		
2750	SHALE	ls: tan, lt brown, fnxtn, sh: foss, no vis Ø, ls: grey, vfnxtn, dense ls: tan, lt brown, fnxtn, sh: foss, no vis Ø, w/ shale: grey, dolomitic - grey, shaley vfnxtn dolo. ls: tan, brown, grey, vfn - fnxtn, trc foss, some mottled, no vis Ø, no show ls: as above; seat spots glauconite, no vis Ø, no show		
2800	SHALE	sh: lt grey, grey, sh: silty; sh: lt grey, greenish-grey, gummy in part sh: as above w/ ls: fragmental, well cemented, no vis Ø, no show ls: off wh, tan, medxtn, pelletal, sh: foss, seat pr interparticulate, trc pr coc Ø, no fluor, cut, odor, no show oil sh: lt grey, grey, calc - shaley ls, few pedic, grey, vry shaley dolo. ls: brown, grey, fn - medxtn, v sh: foss, mottled in part, dense; no vis Ø		
2850	SHALE	sh: lt grey, grey, gummy in part, w/ seat all grey dolomitic shale ls: tan, brown, grey, fn - medxtn, sh: foss, fragmental, mottled in part, no vis Ø, no show ls: brown, grey, vfn - seat medxtn, vry sh: ool, seat interbedded pale green sh, dense w/ sh: grey, few pcs brown, green, sh: arev dk arev sh: silty mica in of few clusters arev vfn arranged calc ss no vis Ø, no show as above w/ arev detrital sh: foss sh to vry shaley detrital ls. sh: arev lt arev silty mica, few pcs sh: sandy		
2900	SHALE	sh: as above w/ seat pcs tan fragmental ls w/ arev calc sh matrix sh: lt grey, grey, dolomitic; w/ ls: vfn - granular, clear, well sorted, firm, no vis Ø, no show, no vis Ø ls: tan, medxtn, fragmental, foss, well cemented, pale green, sh: stain, no vis Ø, no show sh: grey, dk grey, silty, mica		
2950	SHALE	sh: as above ls: tan, lt grey, fn - medxtn, granular, pelletal in part, sh: foss, well cemented no vis Ø, no show ls: tan, brown, grey, fn - medxtn, sh: foss, granular in part, trc pr foss Ø, sh: lt brown v fnxtn, dense w/ shale; lt grey, grey ls: tan, lt brown, grey, most vfn - fnxtn, dense, few pcs lt brown, fnxtn, granular in part, 2 pcs w/ pr interxtn Ø, live oil film in pores, pr: spotty th; halo cut - pr. ls: tan, grey, tan, vfn - few pcs medxtn, sh: foss, dense; w/ sh: grey, dk grey ls: tan, fn - medxtn, dense; ls: grey, medxtn, mottled in part; no vis Ø, no show ls: tan, brown, grey, fn - medxtn, inter-grey shale in seat pcs, no vis Ø, no show	TRC SHOW	TOPEKA 2927 (-906)
3000	SHALE	ls: tan, brown, fn - medxtn in part, sh: foss & ool, vry seat pr interxtn Ø, few isolated ool, no st, fluor, cut or odor ls: brown, grey, medxtn, sh: foss, ool & pelletal, well cemented, no vis Ø, no show ls: tan, brown, lt grey, fnxtn, sh: foss, granular in part, app pr interxtn Ø, no st, fluor, cut, odor, no show live oil ls: grey, tan, fragmental, sh: foss, well cemented w/ interbedded grey & green sh sh: grey, dk grey, w/ ls: tan, grey, vfn - fnxtn, dense		
3050	SHALE	sh: grey, green, sh: dk grey, sh: dolomitic ls: off wh, lt grey, vfn - fnxtn, dense; ls: lt brown, fnxtn, granular in part, few pcs w/ vfn - pr interxtn Ø, no st, fluor, cut or odor, no show live oil ls: as above; w/ few pcs Δ brown, fresh, foss, opaque ls: tan, grey, vry fn - some medxtn, sh: foss, no vis Ø, no show ls: as above; few pcs grey, dk grey sh: ls: as above; w/ pale green sh: stain ls: grey, tan, brown, fnxtn, sh: foss, dense; ls: grey, fn - medxtn, pelletal, mottled in part, no vis Ø, no show ls: as above w/ seat grey, green; calc sh; few pcs dk grey, dolomitic sh		
3100	SHALE	ls: off wh, tan, vfn - fnxtn, sh: foss, dense, no vis Ø; few pcs tan, fnxtn, finely ool granular; ls: soft sh: chalky v pr interparticulate, w/ cpl pcs pr fcs st; faint oil film on water after break, no odor ls: tan, tan-grey, mostly fn - some medxtn, sh: ool, sh: foss; no vis Ø, no show ls: as above; no vis Ø, no show ls: tan, lt grey, fn - medxtn, sh: foss, few pcs chalky, sh: sandy, no vis Ø, no show ls: as above		HEEBNER 3143 (-1122)
3150	SHALE	sh: grey, dk grey, cpl pcs black ls: tan, off wh, fn - medxtn, dense sh: lt grey, arev, brown, orange, some gummy sh: as above w/ few clusters silty sh ls: arev, shaley, no vis Ø, no show ls: tan, fnxtn, sh: ool (vry fine), sh: chalky, granular in part, seat pr interxtn Ø, pr - trc fr interool & vuggy Ø, pr - cpl pcs fr patchy st w/ some sandy rare ppt FO & oil film after break, no odor sh: green, brown, grey ls: off wh, tan, fnxtn, ool & pelletal in part, app pr interparticulate, w/ trc fr interparticulate, rare ppt FO, calc, brown, sh: stain		TORONTO 3165 (-1144)
3200	SHALE	ls: off wh, tan, vfn - fnxtn, seat pcs fine ool, dense; few pcs w/ show as above (from above?) Δ grey, ool opaque ls: tan, lt brown, lt grey, vfn - fnxtn, dense ls: as above; w/ sh: grey, brown, ls: grey, fn - medxtn, w/ interbedded grey, green ls: tan, brown, lt grey, vfn - fnxtn, dense; no vis Ø, no show ls: as above; w/ ls: dk brown, grey, nodular, shaley, well cemented, no vis Ø; sh: grey, green ls: off wh, tan, fn - medxtn, foss & pelletal in part, most well cemented, seat pr interparticulate, pr - trc fr st in matrix; few small pptc FO on break, no odor sh: grey, green - grey sh: lt grey, gummy in part; sh: grey ls: off wh, tan, vfn - fnxtn, dense; w/ ls: grey, medxtn, detrital, app pr interparticulate Ø, pr - fr st in matrix, no odor, fr oil film on vtr after break, no pcs ls: tan, tan, vfn - fnxtn, dense; few pcs ool in part; no vis Ø w/ Δ fcs, grey, tan ls: tan, fnxtn, sh: chalky, vry seat pr pr fcs st; pr: spotty st, NFO, Δ a.e. ls: off wh, tan, lt grey, vfn - fnxtn, sh: chalky, rare, isolated vugs w/ trc pr st, NFO ls: as above; w/ ls: grey, fn - medxtn, no vis Ø, no show		LANSING 3185 (-1164)
3250	SHALE	sh: lt grey, grey, lt grey, sh: dolomitic, w/ seat ls: as above ls: tan, brown, fnxtn, sh: ool, few pcs w/ pr vuggy Ø; seat pr stain, live oil st in vuggy; NFO; w/ Δ fresh blue-grey ls: brown, grey, fn - medxtn, sh: pelletal, no vis Ø, no show; Δ as above sh: grey, dk grey, green - grey ls: tan, lt grey, fn - medxtn, sh: foss, seat pr interxtn & vuggy Ø, pr - some fr st w/ patchy sat, vsgf on break, no odor sh: grey, green - grey, dk grey ls: off wh, lt grey, fn - medxtn, ool/pelletal in part, seat pr interxtn & vuggy Ø, seat pr st w/ minor patchy sat, few minute pptc FO on break, no odor sh: grey, dk grey, lt grey, silty ls: tan, lt grey, vfn - fnxtn, dense; ls: lt brown, fn - medxtn, ool & pelletal in part, well cemented, trc pr interparticulate Ø; no st, fluor, cut, odor, NFO sh: grey, dk grey ls: off wh, tan, fnxtn, seat vpr interxtn Ø, cpl pcs w/ pr stain & sat, oil film on water after break, no odor; cpl ppt medxtn, ool w/ pr interool Ø, st w/ patchy sat, no show free oil silstone: brown, calc in part, friable, vry vpr of qd st & sat; ss "scummin" oil on break; sh: dk grey, rusty; silstone grey, calc, no vis Ø, no show sh: grey, dk grey, brown, green, some silty; ls: tan, lt brown, fn - medxtn, shaley & ls: sandy in part ls: sh: as above shale: lt - dk grey, micaceous, silty in part, brown, rusty, cpl pcs dolo; brown, fnxtn, dense dolo: tan, brown, fnxtn, app pr interparticulate, pr: spotty sh: vsgf, pr: interool Ø, pr: calc st & sat, P50F, fr: odor dolo: tan, lt brown, lt grey, fn - seat medxtn, pr: interxtn Ø, pr: some fr st w/ patchy sat, vsgf, fr: odor dolo: off wh, tan, fnxtn, vpr - vpr - interxtn Ø or seat vst w/ seat pale grey sat, vsgf, no odor dolo: tan, lt brown, off wh, fn - few ool medxtn or some fr interxtn Ø seat vst w/ sat, pale grey sat, vsgf, no odor dolo: off wh, tan, fn - medxtn, trc pr st NFO seat dd oil residue dolo: off wh, tan, fn - medxtn, or fr interxtn Ø rare trc seat dd oil residue, NFO dolo: as above; w/ dolo: tan, lt brown, vfn - fnxtn, dense dolo: off wh, tan, fn - medxtn, fr vfn - fnxtn Ø, seat dd oil residue, no show live oil or st dolo: as above dolo: off wh, lt grey, fn - medxtn, fr interxtn Ø, no show dolo: as above; w/ dolo: lt grey, vfn - fnxtn, dense	SSFO	DST #1 (3141 - 3275) 30" - 60" - 60" - 90" IFP: WK BLOW BLDG TO 6IN ISP: NO BLOW FPF: WK BLOW BLDG TO 6 IN FSP: NO BLOW RECOVERED: 25' SMCDO (10% M, 90% O) GR: 35.6° 155' SG FOCM (1% O, 18% B, 15% M)
3300	SHALE	sh: grey, dk grey, lt grey, sh: silty ls: tan, lt grey, vfn - fnxtn, dense; ls: lt brown, fn - medxtn, ool/pelletal in part, seat pr interxtn & vuggy Ø, seat pr st w/ minor patchy sat, few minute pptc FO on break, no odor sh: grey, dk grey, lt grey, silty ls: tan, lt grey, vfn - fnxtn, dense; ls: lt brown, fn - medxtn, ool & pelletal in part, well cemented, trc pr interparticulate Ø; no st, fluor, cut, odor, NFO sh: grey, dk grey ls: off wh, tan, fnxtn, seat vpr interxtn Ø, cpl pcs w/ pr stain & sat, oil film on water after break, no odor; cpl ppt medxtn, ool w/ pr interool Ø, st w/ patchy sat, no show free oil silstone: brown, calc in part, friable, vry vpr of qd st & sat; ss "scummin" oil on break; sh: dk grey, rusty; silstone grey, calc, no vis Ø, no show sh: grey, dk grey, brown, green, some silty; ls: tan, lt brown, fn - medxtn, shaley & ls: sandy in part ls: sh: as above shale: lt - dk grey, micaceous, silty in part, brown, rusty, cpl pcs dolo; brown, fnxtn, dense dolo: tan, brown, fnxtn, app pr interparticulate, pr: spotty sh: vsgf, pr: interool Ø, pr: calc st & sat, P50F, fr: odor dolo: tan, lt brown, lt grey, fn - seat medxtn, pr: interxtn Ø, pr: some fr st w/ patchy sat, vsgf, fr: odor dolo: off wh, tan, fnxtn, vpr - vpr - interxtn Ø or seat vst w/ seat pale grey sat, vsgf, no odor dolo: tan, lt brown, off wh, fn - few ool medxtn or some fr interxtn Ø seat vst w/ sat, pale grey sat, vsgf, no odor dolo: off wh, tan, fn - medxtn, trc pr st NFO seat dd oil residue dolo: off wh, tan, fn - medxtn, or fr interxtn Ø rare trc seat dd oil residue, NFO dolo: as above; w/ dolo: tan, lt brown, vfn - fnxtn, dense dolo: off wh, tan, fn - medxtn, fr vfn - fnxtn Ø, seat dd oil residue, no show live oil or st dolo: as above dolo: off wh, lt grey, fn - medxtn, fr interxtn Ø, no show dolo: as above; w/ dolo: lt grey, vfn - fnxtn, dense	SSFO	DST #2 (3293 - 3415) 30" - 60" - 60" - 90" IFP: WK BLOW BLDG TO 6 1/2 IN ISP: NO BLOW FPF: WK BLOW BLDG TO 6 1/2 IN FSP: BLOW BLDG TO 7/4 IN THEN DIED BACK RECOVERED: 100' GIP 90' G & SMCDO - GR 32.4° (14% G, 37% M, 83% O) 120' GCMO (12% G, 42% M, 46% O) HSP: 1530° - 1485° FP: 22' - 56' / 54' - 98" SIP: 330° - 233° BHT: 99° F
3350	SHALE	sh: grey, dk grey, lt grey, sh: silty ls: tan, lt grey, vfn - fnxtn, dense; ls: lt brown, fn - medxtn, ool/pelletal in part, seat pr interxtn & vuggy Ø, seat pr st w/ minor patchy sat, few minute pptc FO on break, no odor sh: grey, dk grey, lt grey, silty ls: tan, lt grey, vfn - fnxtn, dense; ls: lt brown, fn - medxtn, ool & pelletal in part, well cemented, trc pr interparticulate Ø; no st, fluor, cut, odor, NFO sh: grey, dk grey ls: off wh, tan, fnxtn, seat vpr interxtn Ø, cpl pcs w/ pr stain & sat, oil film on water after break, no odor; cpl ppt medxtn, ool w/ pr interool Ø, st w/ patchy sat, no show free oil silstone: brown, calc in part, friable, vry vpr of qd st & sat; ss "scummin" oil on break; sh: dk grey, rusty; silstone grey, calc, no vis Ø, no show sh: grey, dk grey, brown, green, some silty; ls: tan, lt brown, fn - medxtn, shaley & ls: sandy in part ls: sh: as above shale: lt - dk grey, micaceous, silty in part, brown, rusty, cpl pcs dolo; brown, fnxtn, dense dolo: tan, brown, fnxtn, app pr interparticulate, pr: spotty sh: vsgf, pr: interool Ø, pr: calc st & sat, P50F, fr: odor dolo: tan, lt brown, lt grey, fn - seat medxtn, pr: interxtn Ø, pr: some fr st w/ patchy sat, vsgf, fr: odor dolo: off wh, tan, fnxtn, vpr - vpr - interxtn Ø or seat vst w/ seat pale grey sat, vsgf, no odor dolo: tan, lt brown, off wh, fn - few ool medxtn or some fr interxtn Ø seat vst w/ sat, pale grey sat, vsgf, no odor dolo: off wh, tan, fn - medxtn, trc pr st NFO seat dd oil residue dolo: off wh, tan, fn - medxtn, or fr interxtn Ø rare trc seat dd oil residue, NFO dolo: as above; w/ dolo: tan, lt brown, vfn - fnxtn, dense dolo: off wh, tan, fn - medxtn, fr vfn - fnxtn Ø, seat dd oil residue, no show live oil or st dolo: as above dolo: off wh, lt grey, fn - medxtn, fr interxtn Ø, no show dolo: as above; w/ dolo: lt grey, vfn - fnxtn, dense	SSFO	DST #3 (3405 - 3450) 30" - 60" - 60" - 90" IFP: BLOW BLDG TO 800 IN 10 MIN ISP: BLOW BLDG TO 7/4 IN FPF: BLOW BLDG TO 800 IN 11" FSP: NO BLOW RECOVERED: 115' GIP 70' G & SMCDO - GR 27.2° (10% G, 90% O) 15' M & WCO (15% G, 20% W, 65% O) 230' 56' OCMW (8% G, 8% O, 39% M, 45% W) 300' V50' CMCW (2% O, 14% M, 84% W) CHL: 56000 PPM SVS: 4200 PPM HSP: 1717° - 1645° FP: 45° - 179° / 184° - 290° SIP: 440° - 432° BHT: 104° F
3400	SHALE	sh: grey, dk grey ls: off wh, tan, fnxtn, seat vpr interxtn Ø, cpl pcs w/ pr stain & sat, oil film on water after break, no odor; cpl ppt medxtn, ool w/ pr interool Ø, st w/ patchy sat, no show free oil silstone: brown, calc in part, friable, vry vpr of qd st & sat; ss "scummin" oil on break; sh: dk grey, rusty; silstone grey, calc, no vis Ø, no show sh: grey, dk grey, brown, green, some silty; ls: tan, lt brown, fn - medxtn, shaley & ls: sandy in part ls: sh: as above shale: lt - dk grey, micaceous, silty in part, brown, rusty, cpl pcs dolo; brown, fnxtn, dense dolo: tan, brown, fnxtn, app pr interparticulate, pr: spotty sh: vsgf, pr: interool Ø, pr: calc st & sat, P50F, fr: odor dolo: tan, lt brown, lt grey, fn - seat medxtn, pr: interxtn Ø, pr: some fr st w/ patchy sat, vsgf, fr: odor dolo: off wh, tan, fnxtn, vpr - vpr - interxtn Ø or seat vst w/ seat pale grey sat, vsgf, no odor dolo: tan, lt brown, off wh, fn - few ool medxtn or some fr interxtn Ø seat vst w/ sat, pale grey sat, vsgf, no odor dolo: off wh, tan, fn - medxtn, trc pr st NFO seat dd oil residue dolo: off wh, tan, fn - medxtn, or fr interxtn Ø rare trc seat dd oil residue, NFO dolo: as above; w/ dolo: tan, lt brown, vfn - fnxtn, dense dolo: off wh, tan, fn - medxtn, fr vfn - fnxtn Ø, seat dd oil residue, no show live oil or st dolo: as above dolo: off wh, lt grey, fn - medxtn, fr interxtn Ø, no show dolo: as above; w/ dolo: lt grey, vfn - fnxtn, dense	SSFO	HEEBNER 3143 (-1122)
3450	SHALE	sh: grey, dk grey ls: off wh, tan, fnxtn, seat vpr interxtn Ø, cpl pcs w/ pr stain & sat, oil film on water after break, no odor; cpl ppt medxtn, ool w/ pr interool Ø, st w/ patchy sat, no show free oil silstone: brown, calc in part, friable, vry vpr of qd st & sat; ss "scummin" oil on break; sh: dk grey, rusty; silstone grey, calc, no vis Ø, no show sh: grey, dk grey, brown, green, some silty; ls: tan, lt brown, fn - medxtn, shaley & ls: sandy in part ls: sh: as above shale: lt - dk grey, micaceous, silty in part, brown, rusty, cpl pcs dolo; brown, fnxtn, dense dolo: tan, brown, fnxtn, app pr interparticulate, pr: spotty sh: vsgf, pr: interool Ø, pr: calc st & sat, P50F, fr: odor dolo: tan, lt brown, lt grey, fn - seat medxtn, pr: interxtn Ø, pr: some fr st w/ patchy sat, vsgf, fr: odor dolo: off wh, tan, fnxtn, vpr - vpr - interxtn Ø or seat vst w/ seat pale grey sat, vsgf, no odor dolo: tan, lt brown, off wh, fn - few ool medxtn or some fr interxtn Ø seat vst w/ sat, pale grey sat, vsgf, no odor dolo: off wh, tan, fn - medxtn, trc pr st NFO seat dd oil residue dolo: off wh, tan, fn - medxtn, or fr interxtn Ø rare trc seat dd oil residue, NFO dolo: as above; w/ dolo: tan, lt brown, vfn - fnxtn, dense dolo: off wh, tan, fn - medxtn, fr vfn - fnxtn Ø, seat dd oil residue, no show live oil or st dolo: as above dolo: off wh, lt grey, fn - medxtn, fr interxtn Ø, no show dolo: as above; w/ dolo: lt grey, vfn - fnxtn, dense	SSFO	TORONTO 3165 (-1144)
3500	SHALE	sh: grey, dk grey ls: off wh, tan, fnxtn, seat vpr interxtn Ø, cpl pcs w/ pr stain & sat, oil film on water after break, no odor; cpl ppt medxtn, ool w/ pr interool Ø, st w/ patchy sat, no show free oil silstone: brown, calc in part, friable, vry vpr of qd st & sat; ss "scummin" oil on break; sh: dk grey, rusty; silstone grey, calc, no vis Ø, no show sh: grey, dk grey, brown, green, some silty; ls: tan, lt brown, fn - medxtn, shaley & ls: sandy in part ls: sh: as above shale: lt - dk grey, micaceous, silty in part, brown, rusty, cpl pcs dolo; brown, fnxtn, dense dolo: tan, brown, fnxtn, app pr interparticulate, pr: spotty sh: vsgf, pr: interool Ø, pr: calc st & sat, P50F, fr: odor dolo: tan, lt brown, lt grey, fn - seat medxtn, pr: interxtn Ø, pr: some fr st w/ patchy sat, vsgf, fr: odor dolo: off wh, tan, fnxtn, vpr - vpr - interxtn Ø or seat vst w/ seat pale grey sat, vsgf, no odor dolo: tan, lt brown, off wh, fn - few ool medxtn or some fr interxtn Ø seat vst w/ sat, pale grey sat, vsgf, no odor dolo: off wh, tan, fn - medxtn, trc pr st NFO seat dd oil residue dolo: off wh, tan, fn - medxtn, or fr interxtn Ø rare trc seat dd oil residue, NFO dolo: as above; w/ dolo: tan, lt brown, vfn - fnxtn, dense dolo: off wh, tan, fn - medxtn, fr vfn - fnxtn Ø, seat dd oil residue, no show live oil or st dolo: as above dolo: off wh, lt grey, fn - medxtn, fr interxtn Ø, no show dolo: as above; w/ dolo: lt grey, vfn - fnxtn, dense	SSFO	LANSING 3185 (-1164)
3550	SHALE	sh: grey, dk grey ls: off wh, tan, fnxtn, seat vpr interxtn Ø, cpl pcs w/ pr stain & sat, oil film on water after break, no odor; cpl ppt medxtn, ool w/ pr interool Ø, st w/ patchy sat, no show free oil silstone: brown, calc in part, friable, vry vpr of qd st & sat; ss "scummin" oil on break; sh: dk grey, rusty; silstone grey, calc, no vis Ø, no show sh: grey, dk grey, brown, green, some silty; ls: tan, lt brown, fn - medxtn, shaley & ls: sandy in part ls: sh: as above shale: lt - dk grey, micaceous, silty in part, brown, rusty, cpl pcs dolo; brown, fnxtn, dense dolo: tan, brown, fnxtn, app pr interparticulate, pr: spotty sh: vsgf, pr: interool Ø, pr: calc st & sat, P50F, fr: odor dolo: tan, lt brown, lt grey, fn - seat medxtn, pr: interxtn Ø, pr: some fr st w/ patchy sat, vsgf, fr: odor dolo: off wh, tan, fnxtn, vpr - vpr - interxtn Ø or seat vst w/ seat pale grey sat, vsgf, no odor dolo: tan, lt brown, off wh, fn - few ool medxtn or some fr interxtn Ø seat vst w/ sat, pale grey sat, vsgf, no odor dolo: off wh, tan, fn - medxtn, trc pr st NFO seat dd oil residue dolo: off wh, tan, fn - medxtn, or fr interxtn Ø rare trc seat dd oil residue, NFO dolo: as above; w/ dolo: tan, lt brown, vfn - fnxtn, dense dolo: off wh, tan, fn - medxtn, fr vfn - fnxtn Ø, seat dd oil residue, no show live oil or st dolo: as above dolo: off wh, lt grey, fn - medxtn, fr interxtn Ø, no show dolo: as above; w/ dolo: lt grey, vfn - fnxtn, dense	SSFO	DST #1 (3141 - 3275) 30" - 60" - 60" - 90" IFP: WK BLOW BLDG TO 6IN ISP: NO BLOW FPF: WK BLOW BLDG TO 6 IN FSP: NO BLOW RECOVERED: 25' SMCDO (10% M, 90% O) GR: 35.6° 155' SG FOCM (1% O, 18% B, 15% M)
				DST #2 (3293 - 3415) 30" - 60" - 60" - 90" IFP: WK BLOW BLDG TO 6 1/2 IN ISP: NO BLOW FPF: WK BLOW BLDG TO 6 1/2 IN FSP: BLOW BLDG TO 7/4 IN THEN DIED BACK RECOVERED: 100' GIP 90' G & SMCDO - GR 32.4° (14% G, 37% M, 83% O) 120' GCMO (12% G, 42% M, 46% O) HSP: 1530° - 1485° FP: 22' - 56' / 54' - 98" SIP: 330° - 233° BHT: 99° F
				DST #3 (3405 - 3450) 30" - 60" - 60" - 90" IFP: BLOW BLDG TO 800 IN 10 MIN ISP: BLOW BLDG TO 7/4 IN FPF: BLOW BLDG TO 800 IN 11" FSP: NO BLOW RECOVERED: 115' GIP 70' G & SMCDO - GR 27.2° (10% G, 90% O) 15' M & WCO (15% G, 20% W, 65% O) 230' 56' OCMW (8% G, 8% O, 39% M, 45% W) 300' V50' CMCW (2% O, 14% M, 84% W) CHL: 56000 PPM SVS: 4200 PPM HSP: 1717° - 1645° FP: 45° - 179° / 184° - 290° SIP: 440° - 432° BHT: 104° F
				HEEBNER 3143 (-1122)
				TORONTO 3165 (-1144)
				LANSING 3185 (-1164)
				DST #1 (3141 - 3275) 30" - 60" - 60" - 90" IFP: WK BLOW BLDG TO 6IN ISP: NO BLOW FPF: WK BLOW BLDG TO 6 IN FSP





TICKET 27286

PAGE 1 OF 1

CHARGE TO: Gore Oil Co  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

WELL/PROJECT NO. #3 LEASE Bird COUNTY/PARISH Rooks CITY Locuston DATE 5-15-18 OWNER  
 TICKET TYPE  SERVICE CONTRACTOR Murkin Drilling RIG NAME/NO. Rig 24 ORDER NO.  
 SALES WELL TYPE Oil WELL CATEGORY development JOB PURPOSE Top to Btm long string DELIVERED TO Locuston WELL PERMIT NO.  
 REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	CITY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1			30	Mi			5.00	150.00
579		1			1	EA			1800.00	1800.00
290		1			5	Gal			42.00	210.00
280		1			330	Gal			3.50	1155.00
221		1			2	Gal			25.00	50.00
403		1			4	EA	5 1/2		275.00	1100.00
406		1			1	EA			250.00	250.00
407		1			1	EA			325.00	325.00
409		1			10	EA			85.00	850.00
419		1			1	EA			200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

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

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

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 YES  NO

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?

AGREE  UN-DECIDED  DIS-AGREE

PAGE TOTAL 5424.20  
1020.00  
544  
13881.78  
759.47  
14441.25

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

SWIFT OPERATOR David Edgerson APPROVAL

Thank You!



CUSTOMER  
Gore Oil Co

WELL NO.  
# 3

LEASE  
Bird

JOB TYPE  
long string

TICKET NO.  
27286

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	300							On location
								Rtd - 3550 set @ 3542 Bacde @ - 3529 Centralizers - 1, 3, 5, 7, 9, 11, 13, 35, 53, 70 Baskets - 14, 36, 54, 71
	345							Start Running Csg - 5 1/2 x 15.5 #
	530							Circ on Bottom
	535	2.5	16			0		Plug Rat Hole - 30 sks
	540	2.5	8			0		Plug Mouse Hole - 15 sks
	645	5	5			200		pump 5 BBL wtr spacer
		5	8			200		pump Flocheck 21 - 330 gal
		5	5			200		pump 5 BBL wtr spacer
	655	6.5	0			300		Start CMT - 150 sks @ 11.2 PPg
		5	85			200		Raise wgt to 11.8 PPg for 125 sks
		4.5	150			100		Raise wgt to 14 PPg for 150 sks
		4.5	190			100		End CMT
								Drop plug - wash P/L
	730	6	0			100		Start Drop
		6	65			600		Circ CMT - 25 sks to pit
	750	4.5	85			1200		land plug lift - 1200 psi land - 1700 psi
								Release Psi - Dry
								Thanks David Zaehl & Isaac