

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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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

GeoSouthern Operating II, LLC

**36-7S-38W Sherman, KS**

1425 Lake Front Circle  
The Woodlands, TX 77380

**Sieck #1-36**

Job Ticket: 66206

**DST#: 1**

ATTN: Ben Landes

Test Start: 2020.01.26 @ 14:42:22

## GENERAL INFORMATION:

Formation: **LKC "C&D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:54:13

Time Test Ended: 00:05:12

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 4331.00 ft (KB) To 4378.00 ft (KB) (TVD)**

Reference Elevations: 3510.00 ft (KB)

Total Depth: 4378.00 ft (KB) (TVD)

3505.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 186.33 psig @ 4332.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.26

End Date:

2020.01.27

Last Calib.:

2020.01.27

Start Time: 14:42:23

End Time:

00:05:12

Time On Btm:

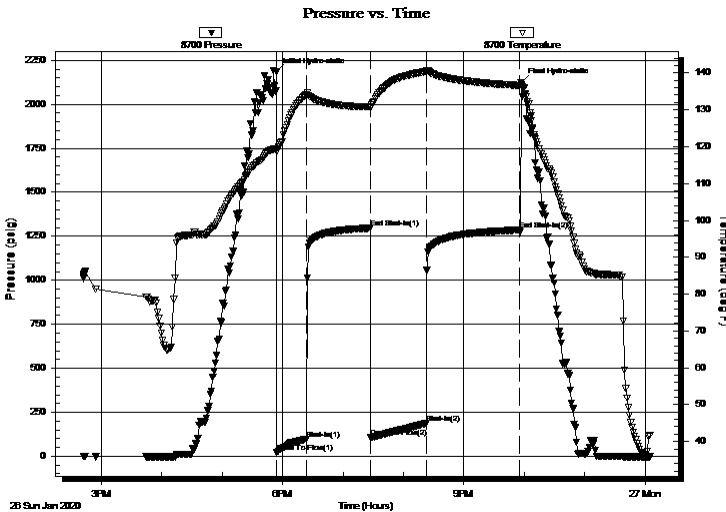
2020.01.26 @ 17:53:58

Time Off Btm:

2020.01.26 @ 21:56:43

**TEST COMMENT:** 30- IF- Slow ly built to 7.73"  
60- IS- No blow  
60- FF- Slow ly built to 9.77"  
90- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.29	119.49	Initial Hydro-static
1	23.99	118.74	Open To Flow (1)
30	98.09	134.16	Shut-In(1)
93	1296.62	130.76	End Shut-In(1)
94	106.78	130.47	Open To Flow (2)
149	186.33	140.43	Shut-In(2)
242	1286.09	136.60	End Shut-In(2)
243	2124.99	136.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
345.00	MW, 15%M 85%W	3.75
15.00	CO	0.21

## Gas Rates

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





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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

GeoSouthern Operating II, LLC

**36-7S-38W Sherman, KS**

1425 Lake Front Circle  
The Woodlands, TX 77380

**Sieck #1-36**

Job Ticket: 66206

**DST#: 1**

ATTN: Ben Landes

Test Start: 2020.01.26 @ 14:42:22

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
345.00	MW, 15%M 85%W	3.752
15.00	CO	0.213

Total Length: 360.00 ft      Total Volume: 3.965 bbl

Num Fluid Samples: 0

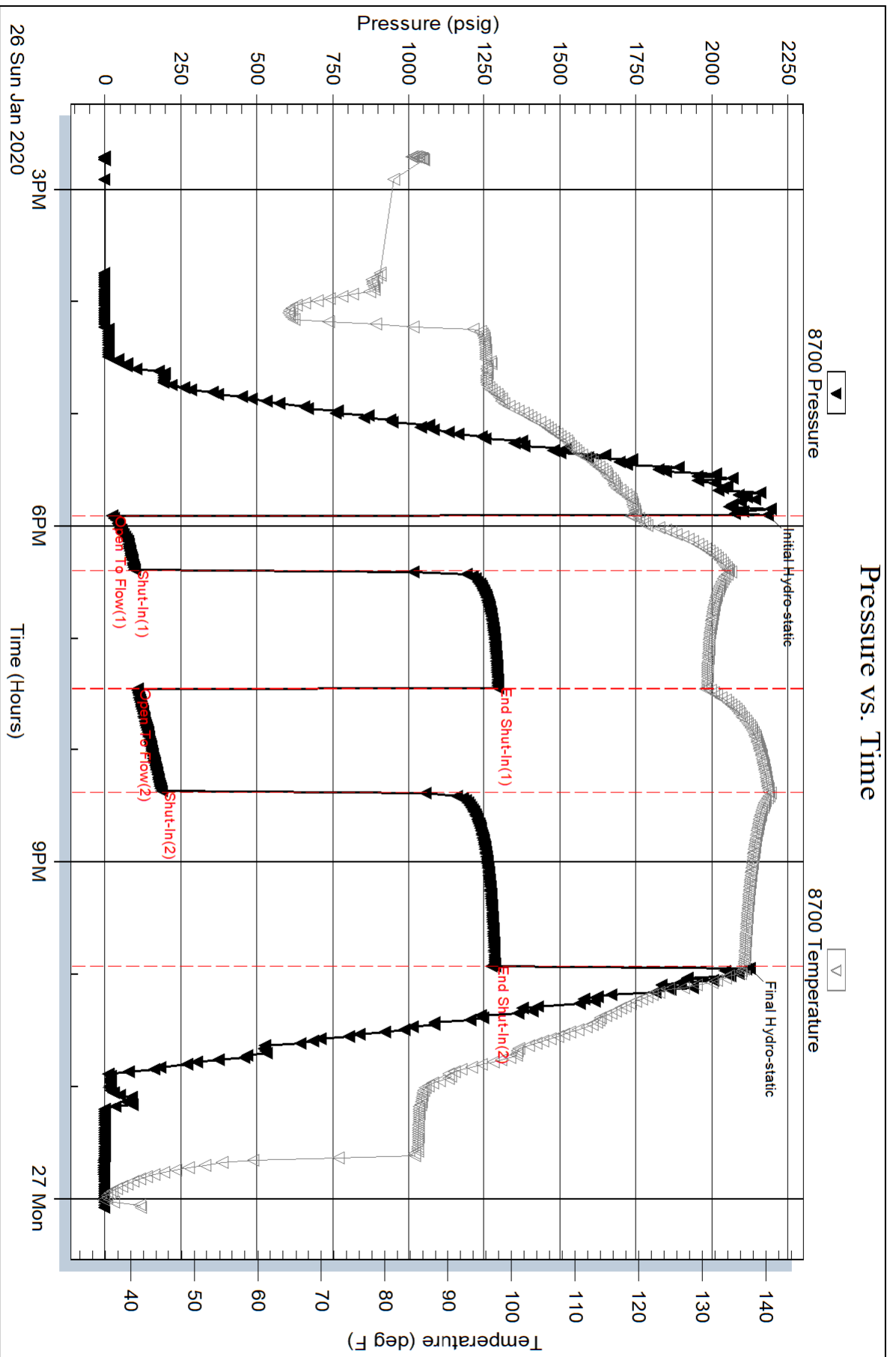
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .21@55deg



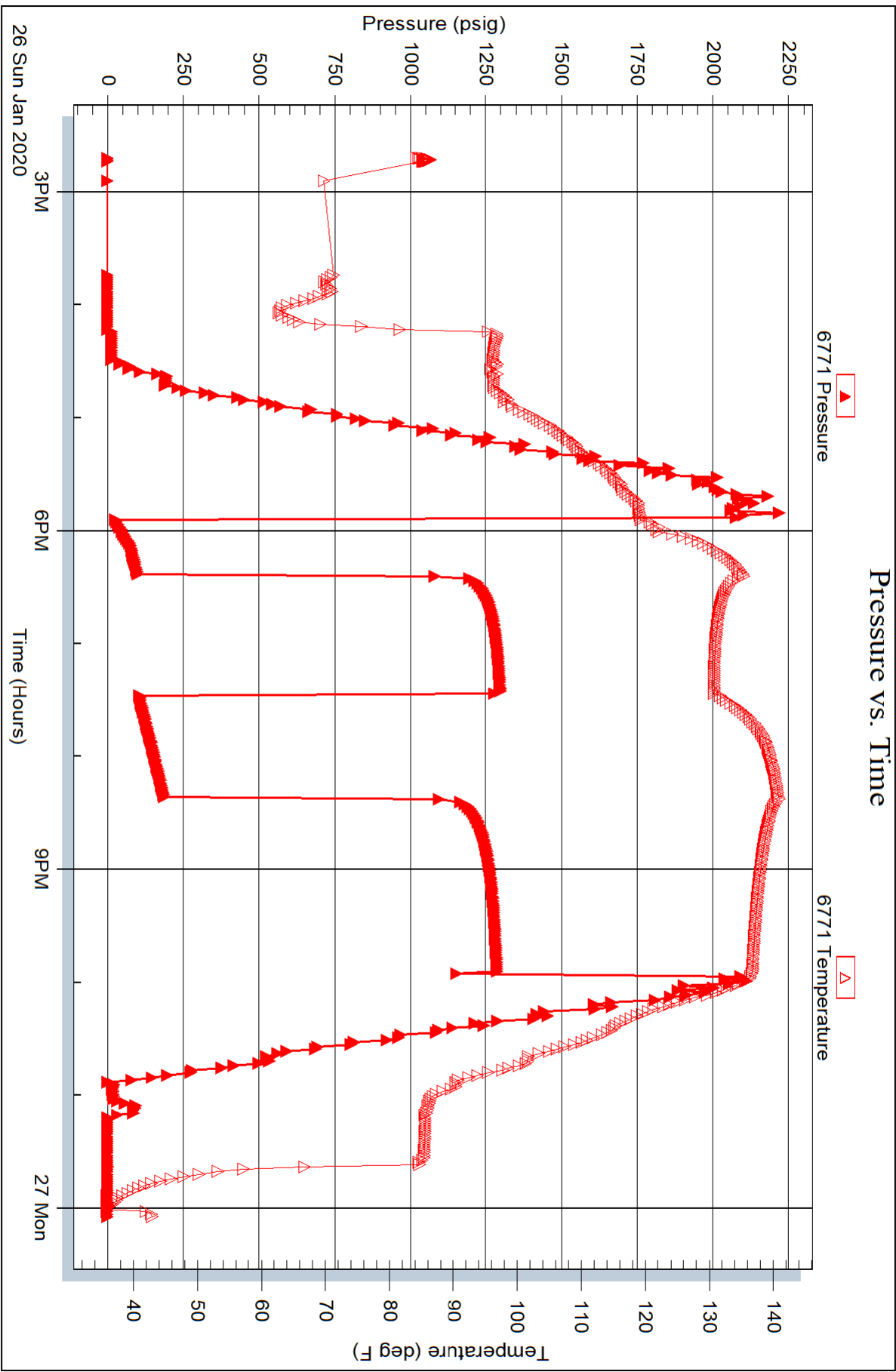
Serial #: 6771

Inside

GeoSouthern Operating II, LLC

Seck #1-36

DST Test Number: 1







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

GeoSouthern Operating II, LLC

**36-7S-38W Sherman, KS**

1425 Lake Front Circle  
The Woodlands, TX 77380

**Sieck #1-36**

Job Ticket: 66207

**DST#: 2**

ATTN: Ben Landes

Test Start: 2020.01.27 @ 13:49:11

## GENERAL INFORMATION:

Formation: **LKC "J&K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:36:17

Time Test Ended: 22:31:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **4457.00 ft (KB) To 4537.00 ft (KB) (TVD)**

Reference Elevations: 3510.00 ft (KB)

Total Depth: 4537.00 ft (KB) (TVD)

3505.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 31.00 psig @ 4458.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.27 End Date: 2020.01.27

Last Calib.: 2020.01.27

Start Time: 13:49:12 End Time: 22:31:31

Time On Btm: 2020.01.27 @ 17:36:02

Time Off Btm: 2020.01.27 @ 20:40:32

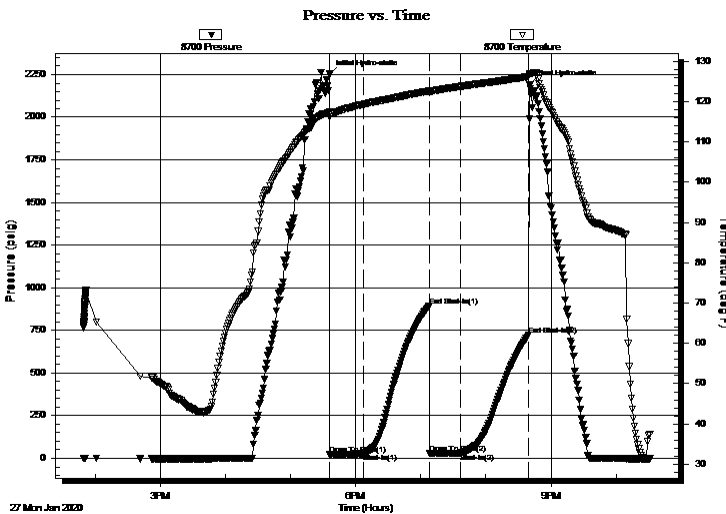
TEST COMMENT: 30- IF- Slowly built to 1.16"

60- IS- No blow

30- FF- No blow

60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.02	117.38	Initial Hydro-static
1	24.19	116.27	Open To Flow (1)
31	27.01	119.30	Shut-In(1)
92	894.57	122.65	End Shut-In(1)
92	29.68	122.24	Open To Flow (2)
121	31.00	123.75	Shut-In(2)
183	720.68	126.17	End Shut-In(2)
185	2189.39	126.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.02
1.00	CO	0.00

\* Recovery from multiple tests

## Gas Rates

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





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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

GeoSouthern Operating II, LLC

**36-7S-38W Sherman, KS**

1425 Lake Front Circle  
The Woodlands, TX 77380

**Sieck #1-36**

Job Ticket: 66207

**DST#: 2**

ATTN: Ben Landes

Test Start: 2020.01.27 @ 13:49:11

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.025
1.00	CO	0.005

Total Length: 6.00 ft      Total Volume: 0.030 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

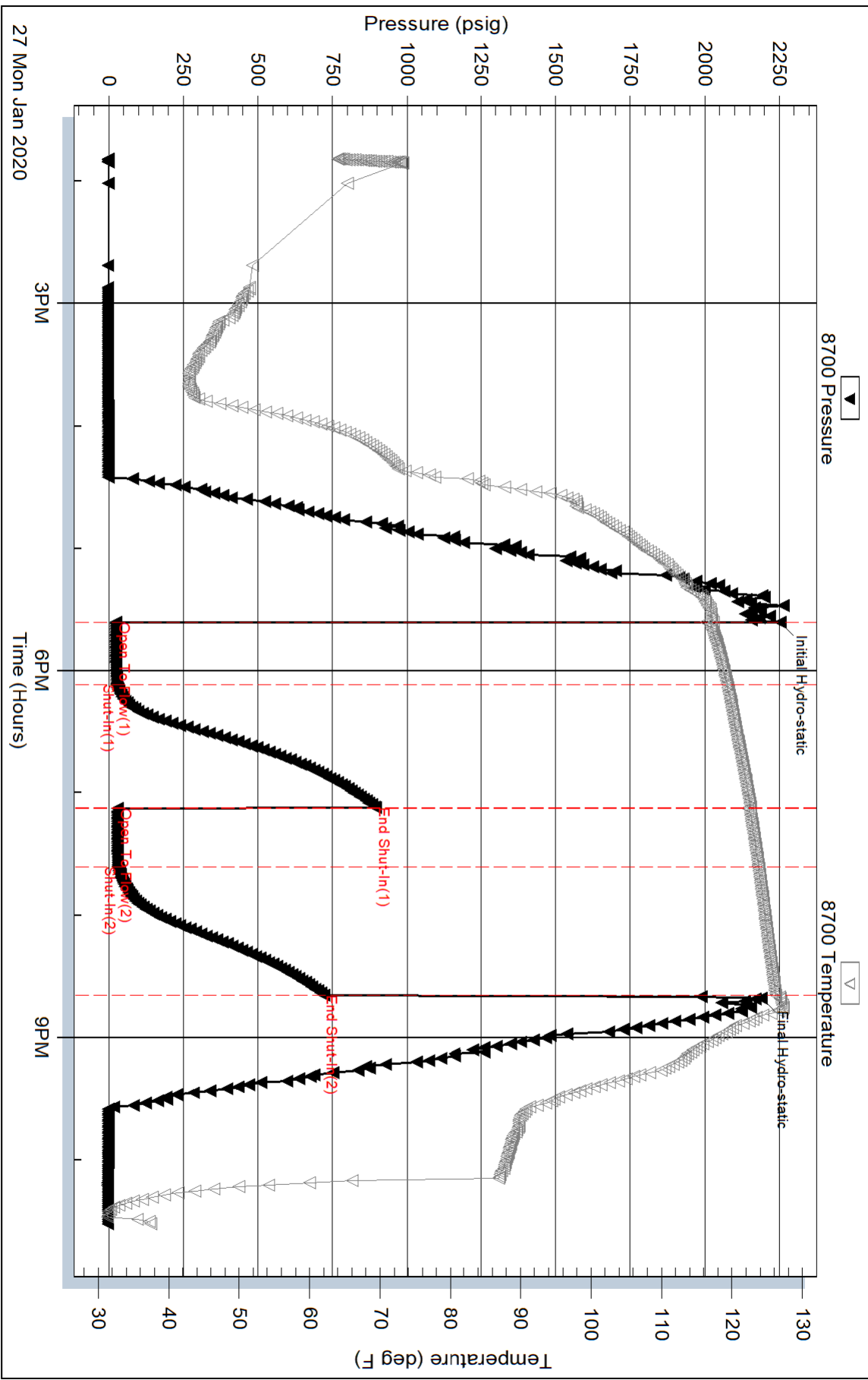
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



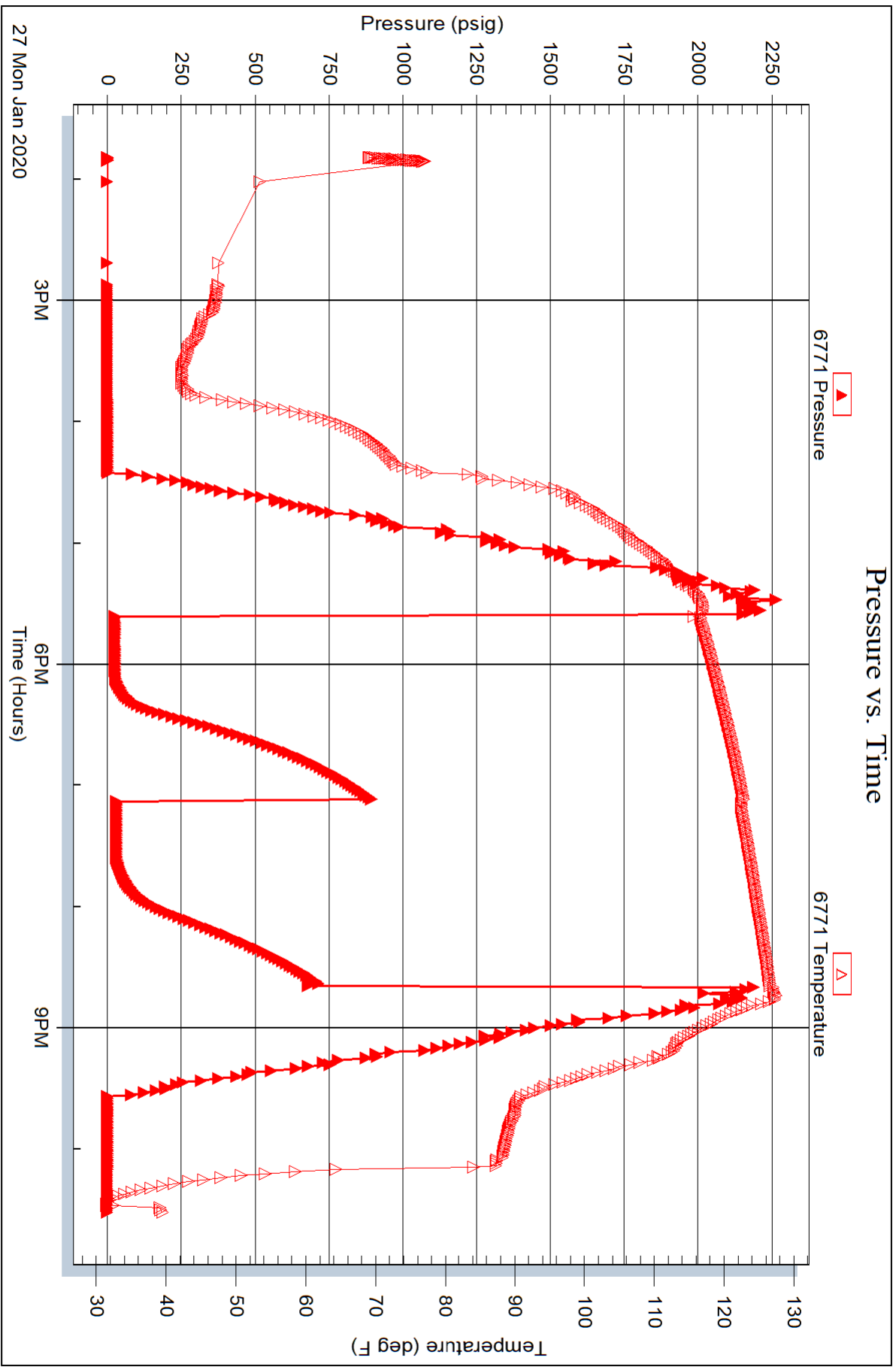
Serial #: 6771

Inside

GeoSouthern Operating II, LLC

Seck #1-36

DST Test Number: 2





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

GeoSouthern Operating II, LLC

**36-7S-38W Sherman, KS**

1425 Lake Front Circle  
The Woodlands, TX 77380

**Sieck #1-36**

Job Ticket: 66208

**DST#: 3**

ATTN: Ben Landes

Test Start: 2020.01.28 @ 13:32:47

## GENERAL INFORMATION:

Formation: **LKC "L"-Marm "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:53

Time Test Ended: 20:29:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 4539.00 ft (KB) To 4680.00 ft (KB) (TVD)**

Reference Elevations: 3510.00 ft (KB)

Total Depth: 4680.00 ft (KB) (TVD)

3505.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 47.41 psig @ 4540.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.28

End Date:

2020.01.28

Last Calib.:

2020.01.28

Start Time: 13:32:48

End Time:

20:29:08

Time On Btm:

2020.01.28 @ 15:43:08

Time Off Btm:

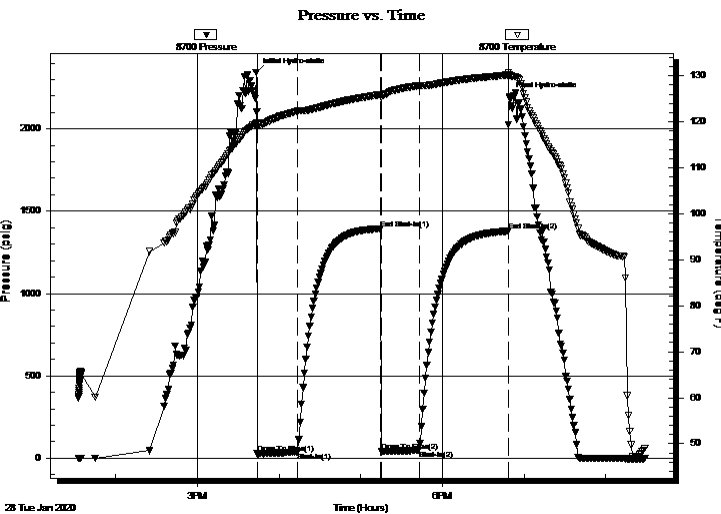
2020.01.28 @ 18:49:23

TEST COMMENT: 30- IF- Slowly built to 1.78"

60- IS- No blow

30- FF- No blow

60- FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.06	119.55	Initial Hydro-static
1	26.55	118.92	Open To Flow (1)
31	36.22	122.28	Shut-In(1)
92	1394.22	125.88	End Shut-In(1)
92	42.19	125.29	Open To Flow (2)
120	47.41	127.84	Shut-In(2)
185	1379.00	130.14	End Shut-In(2)
187	2197.23	130.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	M	0.10

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

GeoSouthern Operating II, LLC

**36-7S-38W Sherman, KS**

1425 Lake Front Circle  
The Woodlands, TX 77380

**Sieck #1-36**

Job Ticket: 66208

**DST#: 3**

ATTN: Ben Landes

Test Start: 2020.01.28 @ 13:32:47

## 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:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

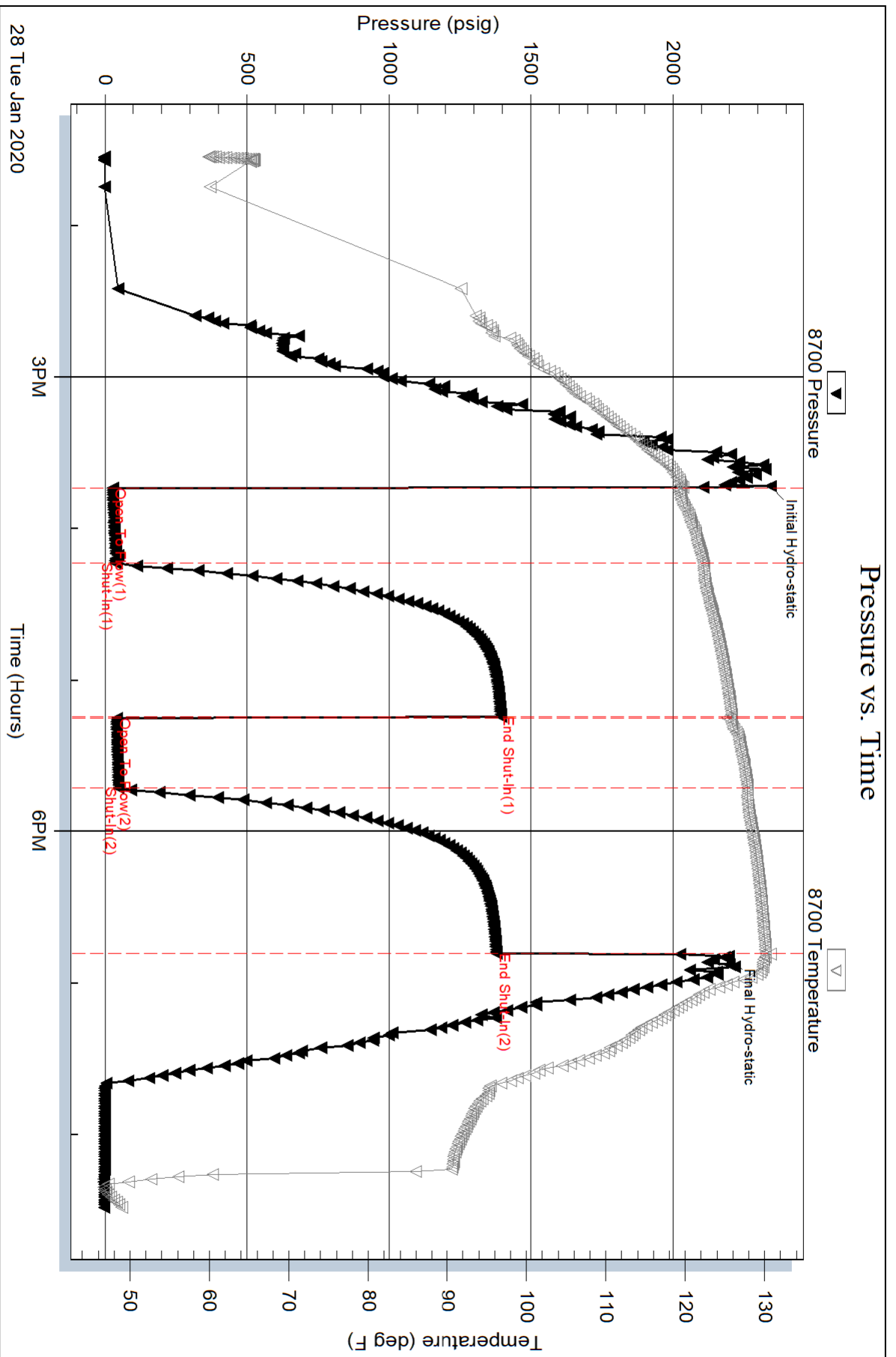
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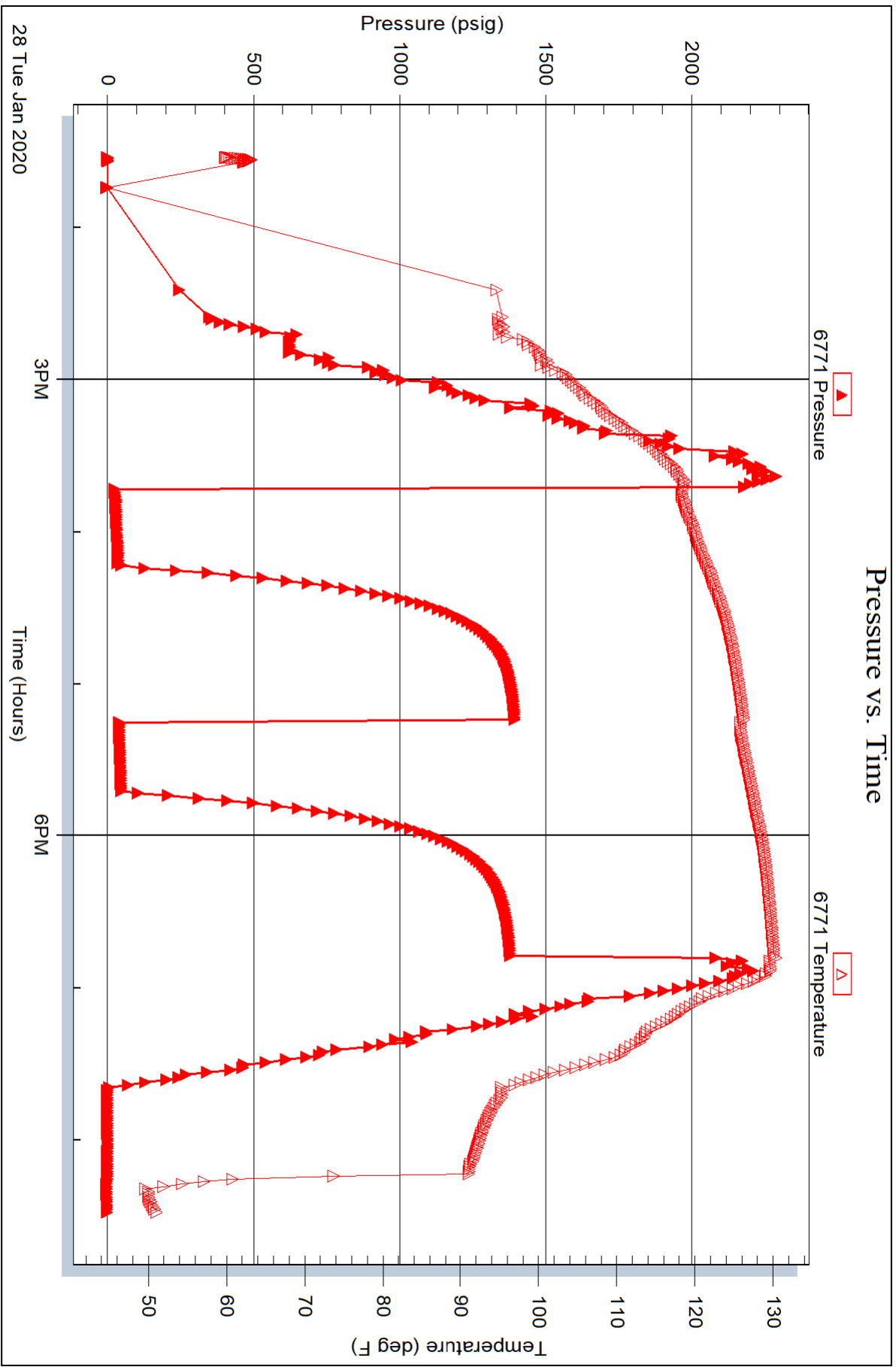
Laboratory Name:

Laboratory Location:

Recovery Comments:







# GeoSouthern Operating II, LLC

## Sieck #1-36

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

Well Name: Sieck 1-36  
 API: 15-181-20634-00-00  
 Location: Section 36-T7S-R38W  
 License Number: KCC 35699  
 Spud Date: 1/20/2020  
 Surface Coordinates: 2,037' FNL & 1,568' FEL  
 Bottom Hole Coordinates: 2,037' FNL & 1,568' FEL  
 Ground Elevation (ft): 3,505' To: K.B. Elevation (ft): 3,510'  
 Logged Interval (ft): 4,100' To: Total Depth (ft):  
 Formation:  
 Type of Drilling Fluid: Chemical

Region: Sherman Co, KS  
 Drilling Completed:

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

### OPERATOR

Company: GeoSouthern Operating II, LLC  
 Address: 1425 Lake Front Circle  
 The Woodlands, TX 77380

### GEOLOGIST

Name: Ben C. Landes  
 Company: Petroleum Geologist  
 Address: Wichita, KS

### CORE

Contractor:  
 Core #:  
 Formation:  
 Core Interval: From: To: Cut: Recovered:  
 Bit type:  
 Size:  
 Coring Time:

### Formation Tops

Sample Top	E-Log Top
Heebner Shale	4242 (-732) +16
Toronto Lime	4275 (-765) +16
Lansing	4292 (-782) +17
Muncie Creek	4425 (-915) +13
Stark Shale	4507 (-997) +20
Hushpuckney Shale	4546 (-1036) +19
Pawnee Lime	4696 (-1186) +19
Myric Station	4726 (-1216) +19
Ft. Scott	4754 (-1244) +21
Cherokee Shale	4790 (-1280) +19
Johnson Zone	4832 (-1322) +17

### DSTs

DST #1 4331-4378' - LKC 'C' & 'D'  
 IF - Slowly built to 7.73"  
 ISI - No blow  
 FF - Slowly built to 9.77"  
 FSI - No blow

IHP - 2183#  
 IHP - 24-98# 30"  
 ISIP - 1297# 60"  
 FFP - 107-186# 60"  
 FSIP - 1286# 90"  
 FHP - 2125#

Rec: 15' Oil - Gravity 33 API  
 345' Muddy Water - 85% water, 15% mud  
 CHL 40,000 ppm

DST #2 4457-4537' - LKC 'J' & 'K'  
 IF - Slowly built to 1.16"  
 ISI - No blow  
 FF - No blow  
 FSI - No blow

IHP - 2252#  
 IHP - 24-27# 30"  
 ISIP - 895# 60"  
 FFP - 30-31# 30"  
 FSIP - 721# 60"  
 FHP - 2180#

Rec: 1' Clean Oil  
 5' Mud

DST #3 4539-4680' LKC 'L' & Marmaton 'C'  
 IF - 1.78"  
 ISI - no blow  
 FF - no blow  
 FSI - no blow

IHP - 2343#  
 IHP - 27-36# 30"  
 ISIP - 1384# 60"  
 FFP - 42-47# 30"  
 FSIP - 1379# 60"  
 FHP - 2197#

Rec: 20' mud

### Comments

The Sieck #1-36 well is running 19' feet high at the Cherokee Shale compared to the GeoSouthern #1-6 Sieck Dry hole in section 6-T8S-R37W.

### ROCK TYPES

Rock Type	Color/Pattern	Rock Type	Color/Pattern	Rock Type	Color/Pattern
Anhy	Orange	Carb.sh	Black	Lmet	Blue
Bent	Green	Congl	Black with dots	Meta	Red
Brec	Blue	Dol	White with dots	Mrist	Green
Chl	Yellow	Gyp	White with dots	Salt	White
Clyst	White	igne	Black	Shale	White
				Shcol	White
				Shgy	White
				Shst	White
				Ss	White
				Till	White

