

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2271

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-16-21	318	13	21	Jesse	KS		9:15P
Location				Ellis 3WS 4000 4S RR 1/2E Sinto			

Lease	DK Schmeider	Well No.	1	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Discovery #2	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	Surface	Charge To	Hertel Oil Company		
Hole Size	12 1/4	T.D.	223	Street	
Csg.	8 5/8	Depth	222	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	150 80/20 3 1/4 2 1/4 GEL
Cement Left in Csg.		Shoe Joint			

Meas Line	Displace	13BL	Common	120
EQUIPMENT			Poz. Mix	30
Pumptrk	No.	Cementer	Gel.	3
		Helper	Calcium	6
Bulktrk	No.	Driver		
		Driver		
Bulktrk	No.	Driver		
		Driver		

JOB SERVICES & REMARKS		Hulls	
Remarks:		Salt	
Rat Hole		Flowseal	
Mouse Hole		Kol-Seal	
Centralizers		Mud CLR 48	
Baskets		CFL-117 or CD110 CAF 38	
D/V or Port Collar		Sand	
8 5/8 on bottom - Est Circulation.		Handling	159
Mix 150SK x Displace.		Mileage	

FLOAT EQUIPMENT		
Cement Dd	Circulate	Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down

Pumptrk Charge	Surface	Tax	
Mileage	23	Discount	
Signature		Total Charge	

Thanks



DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Company**

704 E. 12th
Hays, KS 67601-3440

ATTN: Jason T Alm

DK Schmeidler #1

36-13s-21w, Trego,KS

Start Date: 2021.06.20 @ 06:28:00

End Date: 2021.06.20 @ 16:20:47

Job Ticket #: 61775 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.06.23 @ 14:45:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

36-13s-21w, Trego, KS

DK Schmeidler #1

Job Ticket: 61775

DST#: 1

Test Start: 2021.06.20 @ 06:28:00

GENERAL INFORMATION:

Formation: **LKC I - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:31:32

Time Test Ended: 16:20:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Webster

Unit No: 70

Interval: 3739.00 ft (KB) To 3810.00 ft (KB) (TVD)

Reference Elevations: 2299.00 ft (KB)

Total Depth: 3810.00 ft (KB) (TVD)

2291.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6752 Outside

Press@RunDepth: 79.87 psig @ 3744.00 ft (KB)

Capacity: psig

Start Date: 2021.06.20 End Date: 2021.06.20

Last Calib.: 2021.06.20

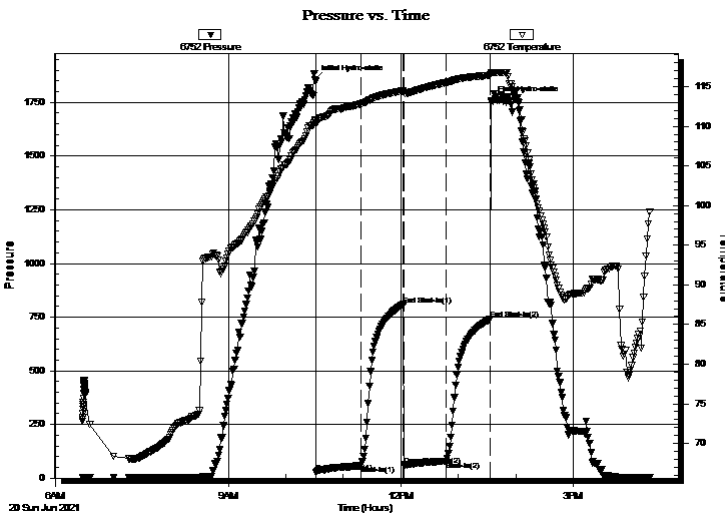
Start Time: 06:28:01 End Time: 16:20:47

Time On Btm: 2021.06.20 @ 10:30:32

Time Off Btm: 2021.06.20 @ 13:34:02

TEST COMMENT: IF-Fair blow bob in 27 min
IS- No blow back
FF-BOB in 22 min
FS- Blow back built to 1 in

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.55	110.70	Initial Hydro-static
1	27.19	110.47	Open To Flow (1)
49	60.44	112.85	Shut-In(1)
93	805.62	114.42	End Shut-In(1)
93	61.59	114.25	Open To Flow (2)
138	79.87	115.51	Shut-In(2)
184	742.15	116.45	End Shut-In(2)
184	1757.63	116.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GIP 100% Gas	3.09
75.00	OCM 10% oil 90% Mud	1.05
60.00	OGWCM 12% Gas 8% Oil 15% Water	60.84Mu

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

36-13s-21w, Trego, KS
DK Schmeidler #1
Job Ticket: 61775 **DST#: 1**
Test Start: 2021.06.20 @ 06:28:00

Tool Information

Drill Pipe:	Length: 3695.00 ft	Diameter: 3.80 inches	Volume: 51.83 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3739.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3725.00	
Hydraulic tool	5.00			3730.00	
Packer	5.00			3735.00	19.00 Bottom Of Top Packer
Packer	4.00			3739.00	
Stubb	1.00			3740.00	
Perforations	4.00			3744.00	
Recorder	0.00	8365	Outside	3744.00	
Recorder	0.00	6752	Outside	3744.00	
Change Over Sub	1.00			3745.00	
Drill Pipe	31.00			3776.00	
Change Over Sub	1.00			3777.00	
Perforations	29.00			3806.00	
Bullnose	4.00			3810.00	71.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

36-13s-21w, Trego, KS
DK Schmeidler #1
Job Ticket: 61775 **DST#: 1**
Test Start: 2021.06.20 @ 06:28:00

Mud and Cushion Information

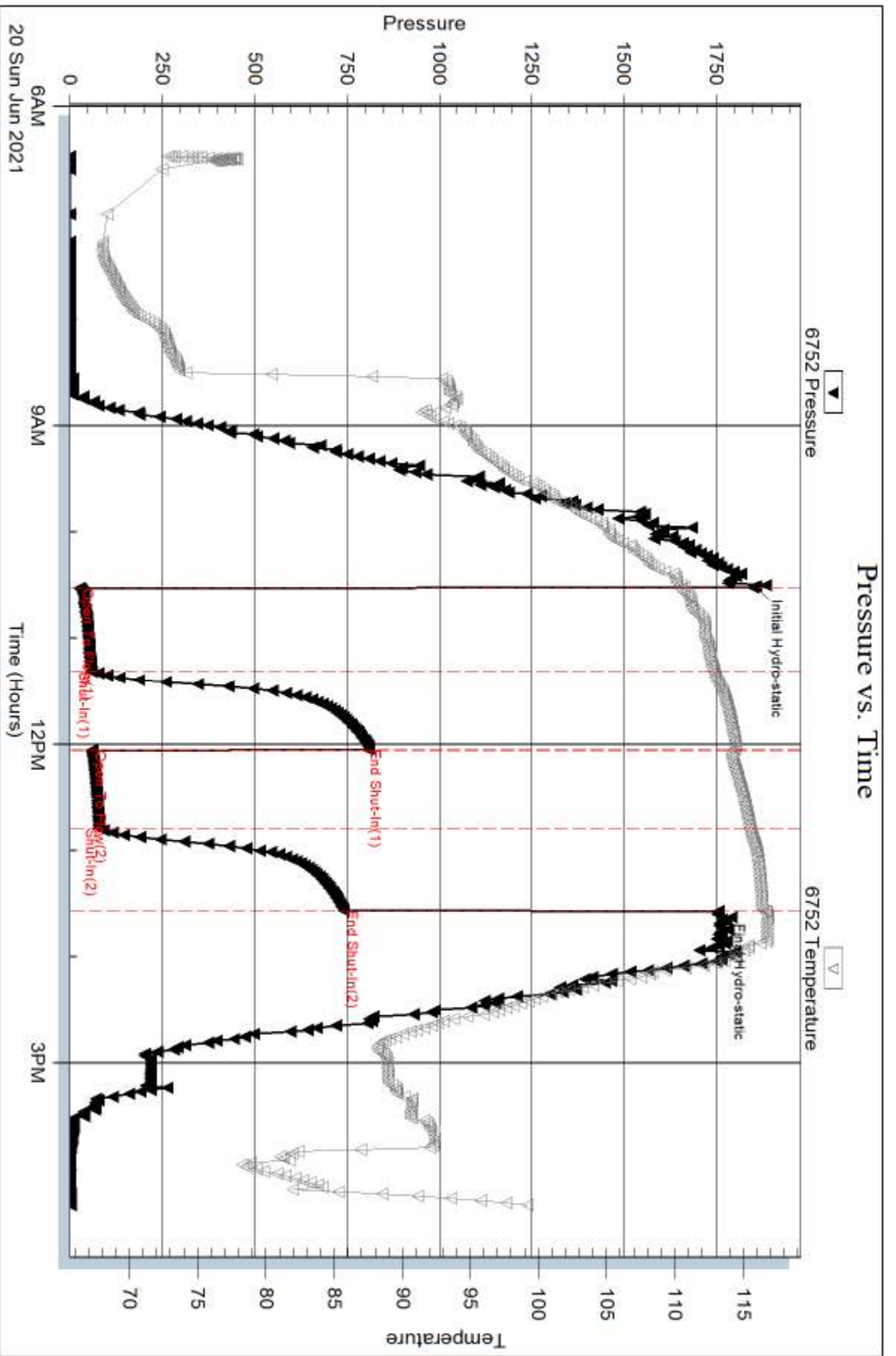
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GIP 100% Gas	3.093
75.00	OCM 10% oil 90% Mud	1.052
60.00	OGWCM 12% Gas 8% Oil 15% Water 65%	0.842

Total Length: 375.00 ft Total Volume: 4.987 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 2# LCM

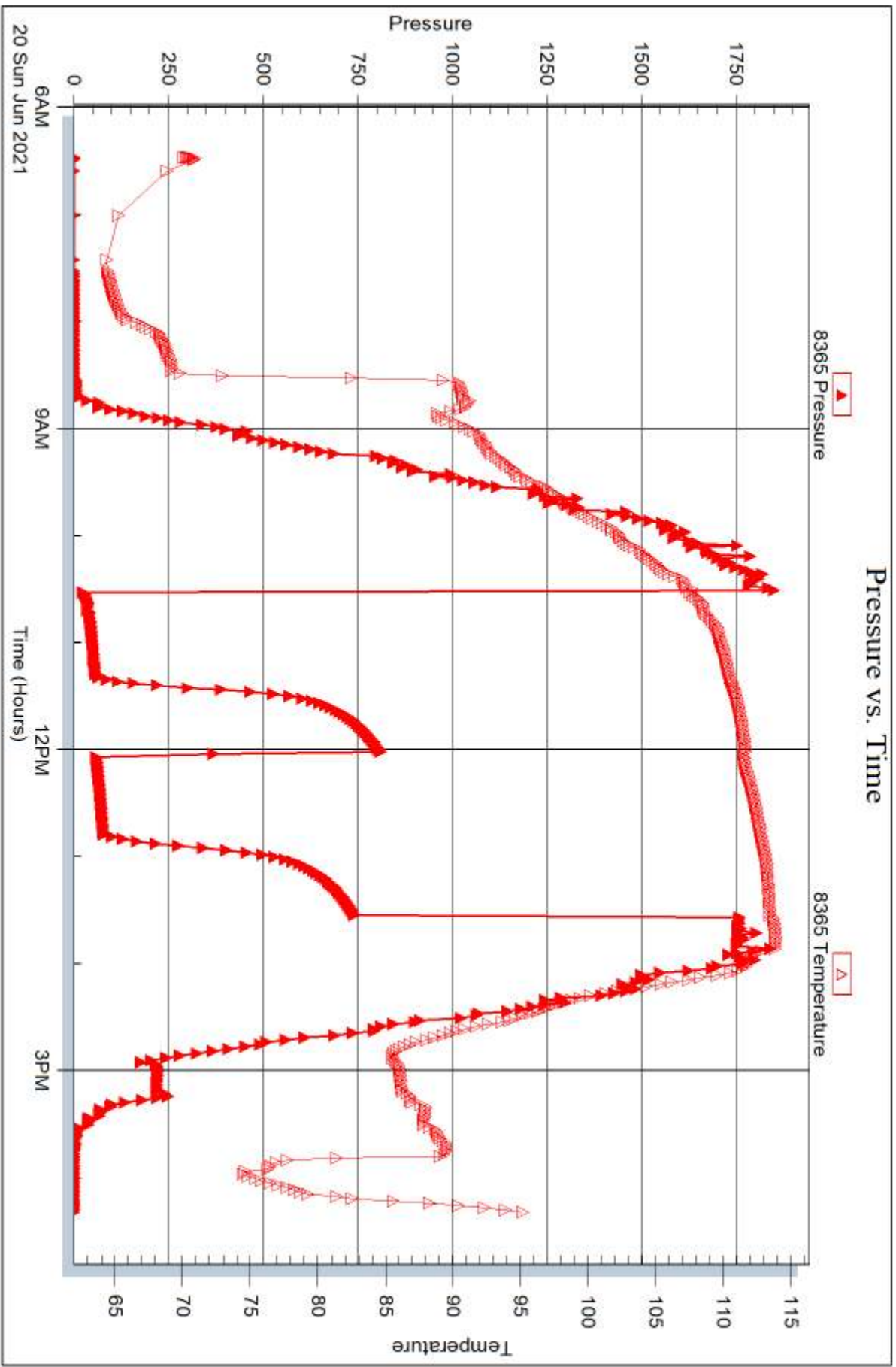


Serial #: 8365

Outside Hertel Oil Company

DK Schneider #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Company**

704 E. 12th
Hays, KS 67601-3440

ATTN: Jason T Alm

DK Schmeidler #1

36-13s-21w, Trego, KS

Start Date: 2021.06.21 @ 05:35:54

End Date: 2021.06.21 @ 13:09:56

Job Ticket #: 51051 DST #: 2

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

Printed: 2021.06.23 @ 14:41:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Hertel Oil Company
 704 E. 12th
 Hays, KS 67601-3440
 ATTN: Jason T Alm

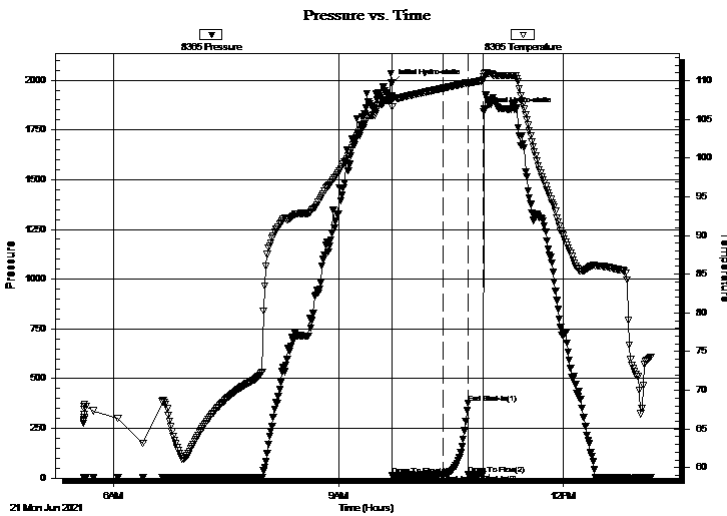
36-13s-21w, Trego, KS
DK Schmeidler #1
 Job Ticket: 51051 **DST#: 2**
 Test Start: 2021.06.21 @ 05:35:54

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:42:56
 Time Test Ended: 13:09:56
 Interval: **3914.00 ft (KB) To 3945.00 ft (KB) (TVD)**
 Total Depth: 3810.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Kevin Webster
 Unit No: 70
 Reference Elevations: 2299.00 ft (KB)
 2291.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 17.45 psig @ 3941.00 ft (KB) Capacity: psig
 Start Date: 2021.06.21 End Date: 2021.06.21 Last Calib.: 1899.12.30
 Start Time: 05:35:55 End Time: 13:09:56 Time On Btm: 2021.06.21 @ 09:42:26
 Time Off Btm: 2021.06.21 @ 10:56:11

TEST COMMENT: IF-WSB died in 7 min
 IS-No blow back
 FF- No blow , Flushed tool, Weak surface blow , Pulled test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1984.77	107.94	Initial Hydro-static
1	14.89	106.67	Open To Flow (1)
42	17.45	109.03	Shut-In(1)
61	376.88	109.72	End Shut-In(1)
62	19.09	109.63	Open To Flow (2)
74	20.23	110.05	Shut-In(2)
74	1843.24	110.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM 1% Oil 99% Mud	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

36-13s-21w, Trego, KS
DK Schmeidler #1
Job Ticket: 51051 **DST#: 2**
Test Start: 2021.06.21 @ 05:35:54

Tool Information

Drill Pipe:	Length: 3883.00 ft	Diameter: 3.80 inches	Volume: 54.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 54.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3914.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3900.00	
Hydraulic tool	5.00			3905.00	
Top Packer	5.00			3910.00	
Packer	4.00			3914.00	19.00 Bottom Of Top Packer
Stubb perforations	1.00			3915.00	
	26.00			3941.00	
Recorder	0.00	8365	Inside	3941.00	
Recorder	0.00	6752	Outside	3941.00	
Bullnose	4.00			3945.00	31.00 Anchor Tool
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

36-13s-21w, Trego, KS
DK Schmeidler #1
Job Ticket: 51051 **DST#: 2**
Test Start: 2021.06.21 @ 05:35:54

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCM 1% Oil 99% Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1# LCM

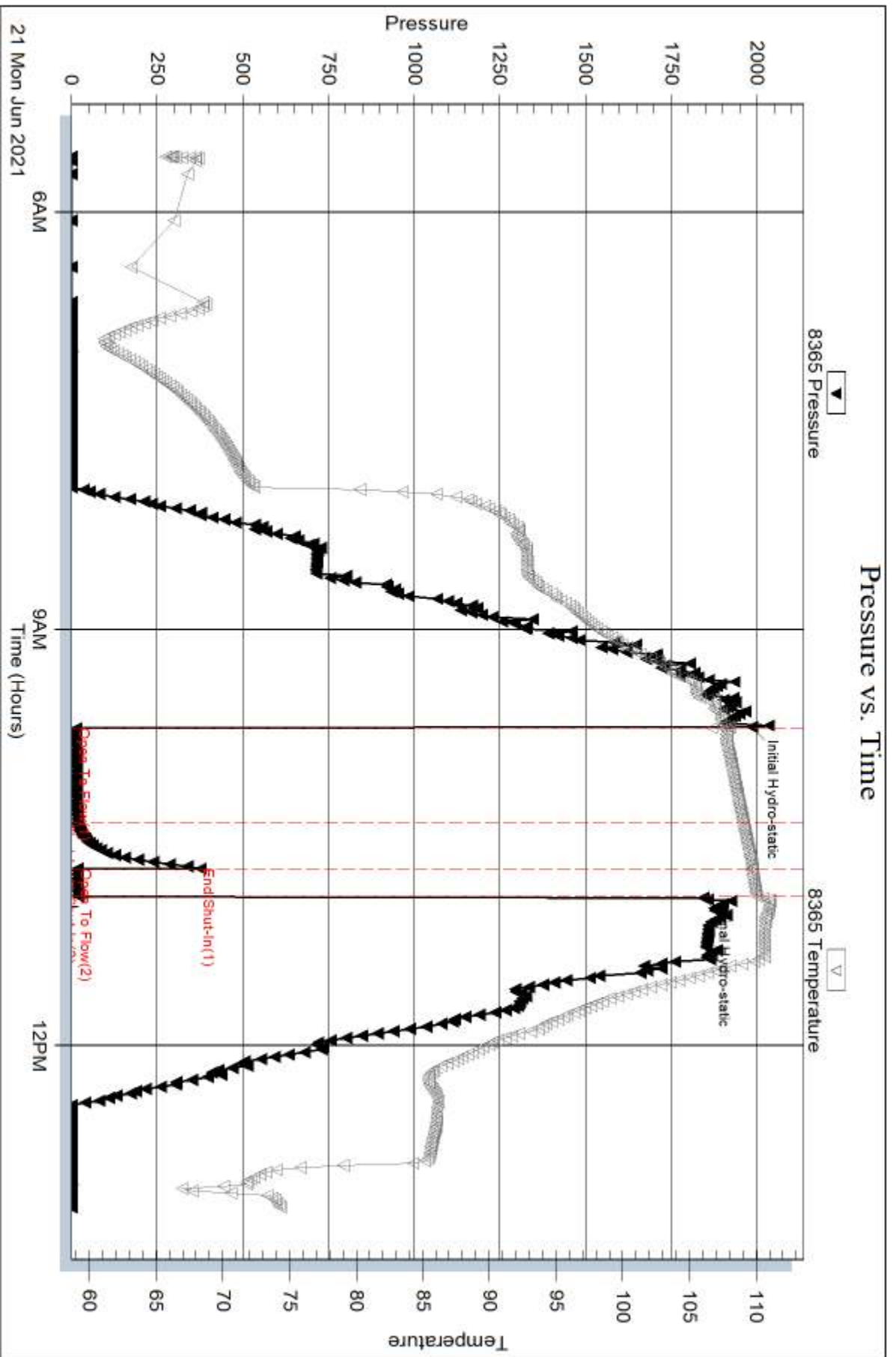
Serial #: 8365

Inside

Hertel Oil Company

DK Schneider #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51051

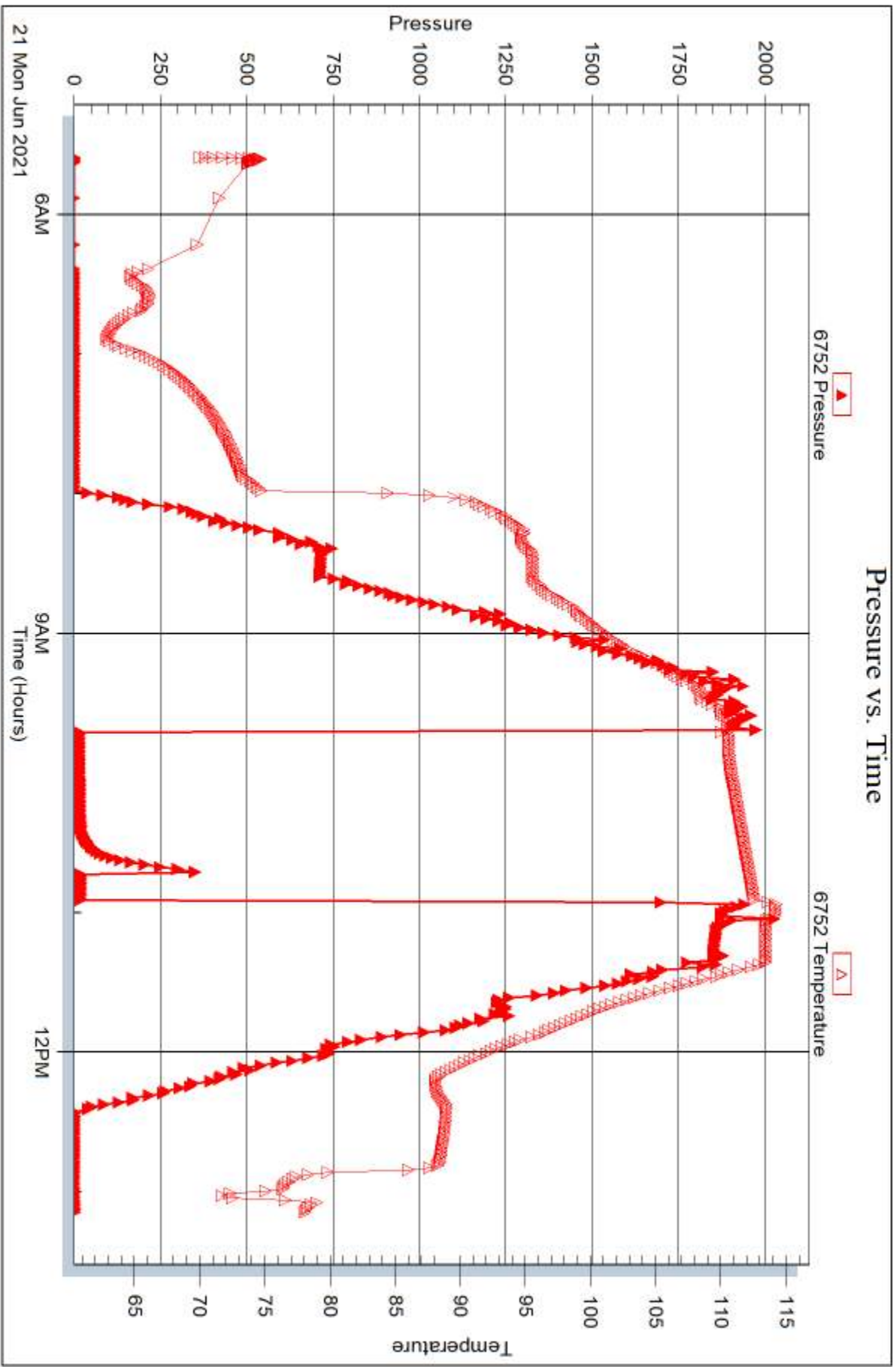
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Serial #: 6752

Outside Hertel Oil Company

DK Schneider #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Company**

704 E. 12th
Hays, KS 67601-3440

ATTN: Jason T Alm

DK Schmeidler #1

36-13s-21w, Trego, KS

Start Date: 2021.06.22 @ 21:17:00

End Date: 2021.06.23 @ 04:15:02

Job Ticket #: 51052 DST #: 3

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

Printed: 2021.06.23 @ 14:41:17

Hertel Oil Company

36-13s-21w, Trego, KS

DK Schmeidler #1

DST # 3

conglomerate sand

2021.06.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

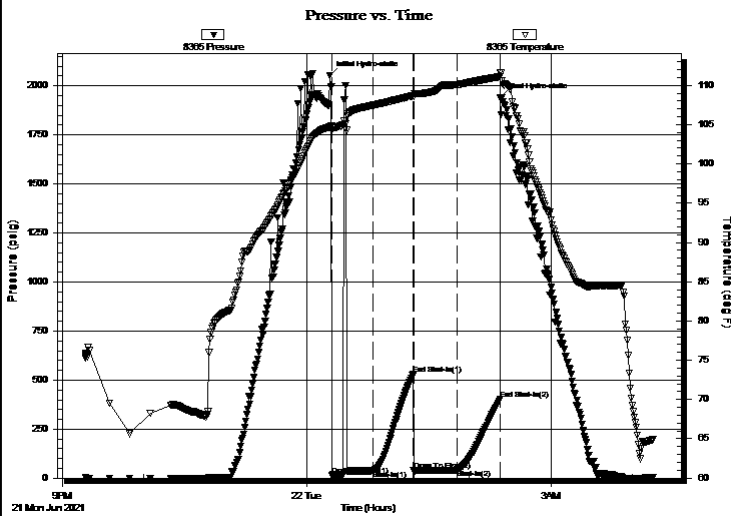
36-13s-21w, Trego, KS
DK Schmeidler #1
Job Ticket: 51052 **DST#: 3**
Test Start: 2021.06.22 @ 21:17:00

GENERAL INFORMATION:

Formation: **conglomerate sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:18:32
Time Test Ended: 04:15:02
Interval: **3932.00 ft (KB) To 3985.00 ft (KB) (TVD)**
Total Depth: 3810.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Kevin Webster
Unit No: 70
Reference Elevations: 2299.00 ft (KB)
2291.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8365 Outside
Press@RunDepth: 42.42 psig @ 3937.00 ft (KB) Capacity: psig
Start Date: 2021.06.21 End Date: 2021.06.22 Last Calib.: 2021.06.22
Start Time: 21:17:01 End Time: 04:15:02 Time On Btm: 2021.06.22 @ 00:17:17
Time Off Btm: 2021.06.22 @ 02:22:47

TEST COMMENT: IF-no blow , flushed tool, still no blow
IS- no blow back
FF- WSB died in 18 min
FS-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.67	104.75	Initial Hydro-static
2	15.54	104.26	Open To Flow (1)
32	38.08	107.47	Shut-In(1)
62	529.49	108.69	End Shut-In(1)
62	37.86	108.57	Open To Flow (2)
94	42.42	110.10	Shut-In(2)
126	400.95	111.12	End Shut-In(2)
126	1940.81	111.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100% Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

36-13s-21w, Trego, KS
DK Schmeidler #1
Job Ticket: 51052 **DST#: 3**
Test Start: 2021.06.22 @ 21:17:00

Tool Information

Drill Pipe:	Length: 3914.00 ft	Diameter: 3.80 inches	Volume: 54.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 55.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3932.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3918.00	
Hydraulic tool	5.00			3923.00	
Packer	5.00			3928.00	19.00 Bottom Of Top Packer
Packer	4.00			3932.00	
Stubb	1.00			3933.00	
Perforations	4.00			3937.00	
Recorder	0.00	8365	Outside	3937.00	
Recorder	0.00	6752	Outside	3937.00	
Change Over Sub	1.00			3938.00	
Drill Pipe	29.00			3967.00	
Change Over Sub	1.00			3968.00	
Perforations	13.00			3981.00	
Bullnose	4.00			3985.00	53.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Company
704 E. 12th
Hays, KS 67601-3440
ATTN: Jason T Alm

36-13s-21w, Trego, KS
DK Schmeidler #1
Job Ticket: 51052 **DST#: 3**
Test Start: 2021.06.22 @ 21:17:00

Mud and Cushion Information

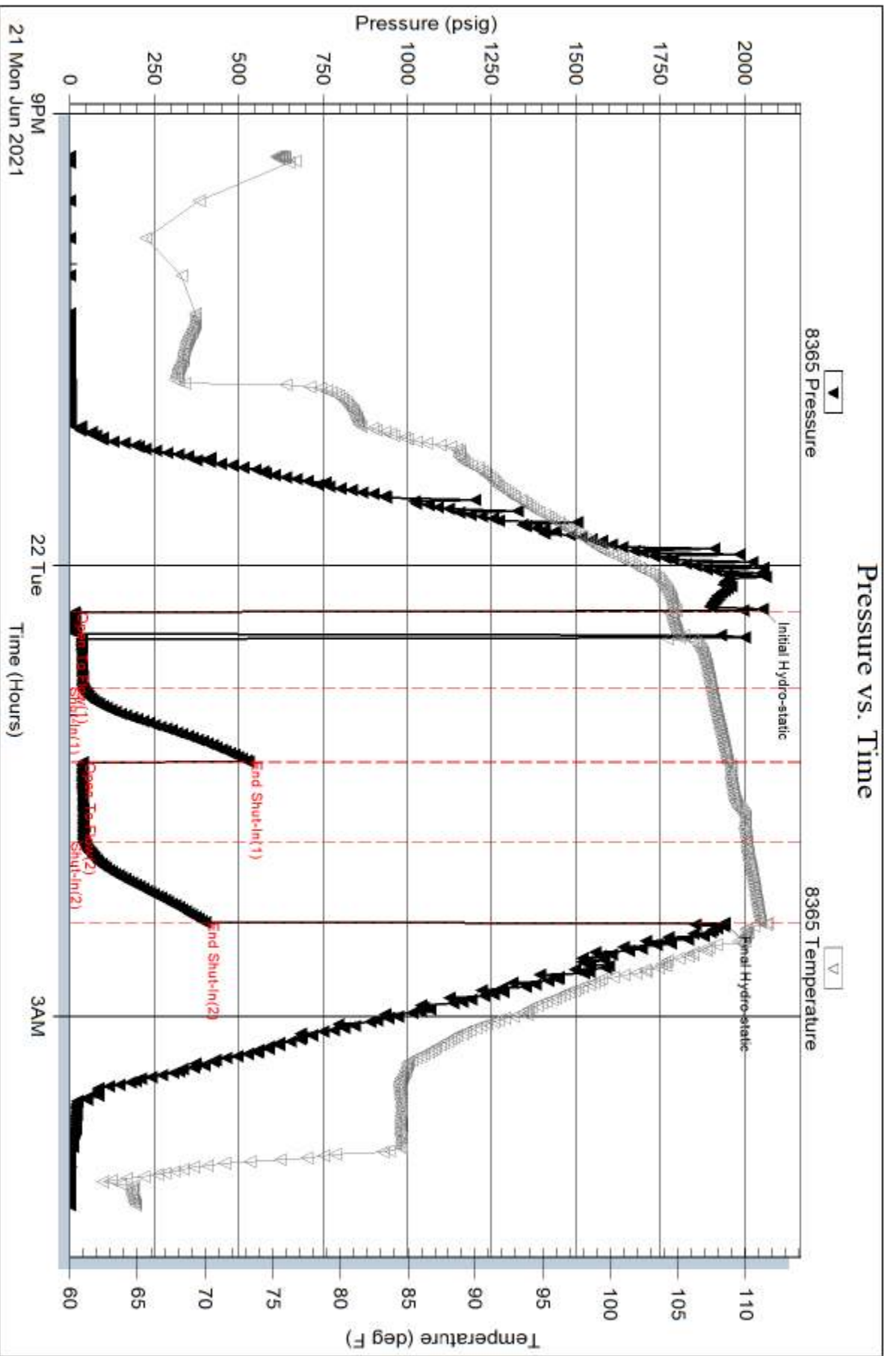
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD 100% Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1.5 #LCM

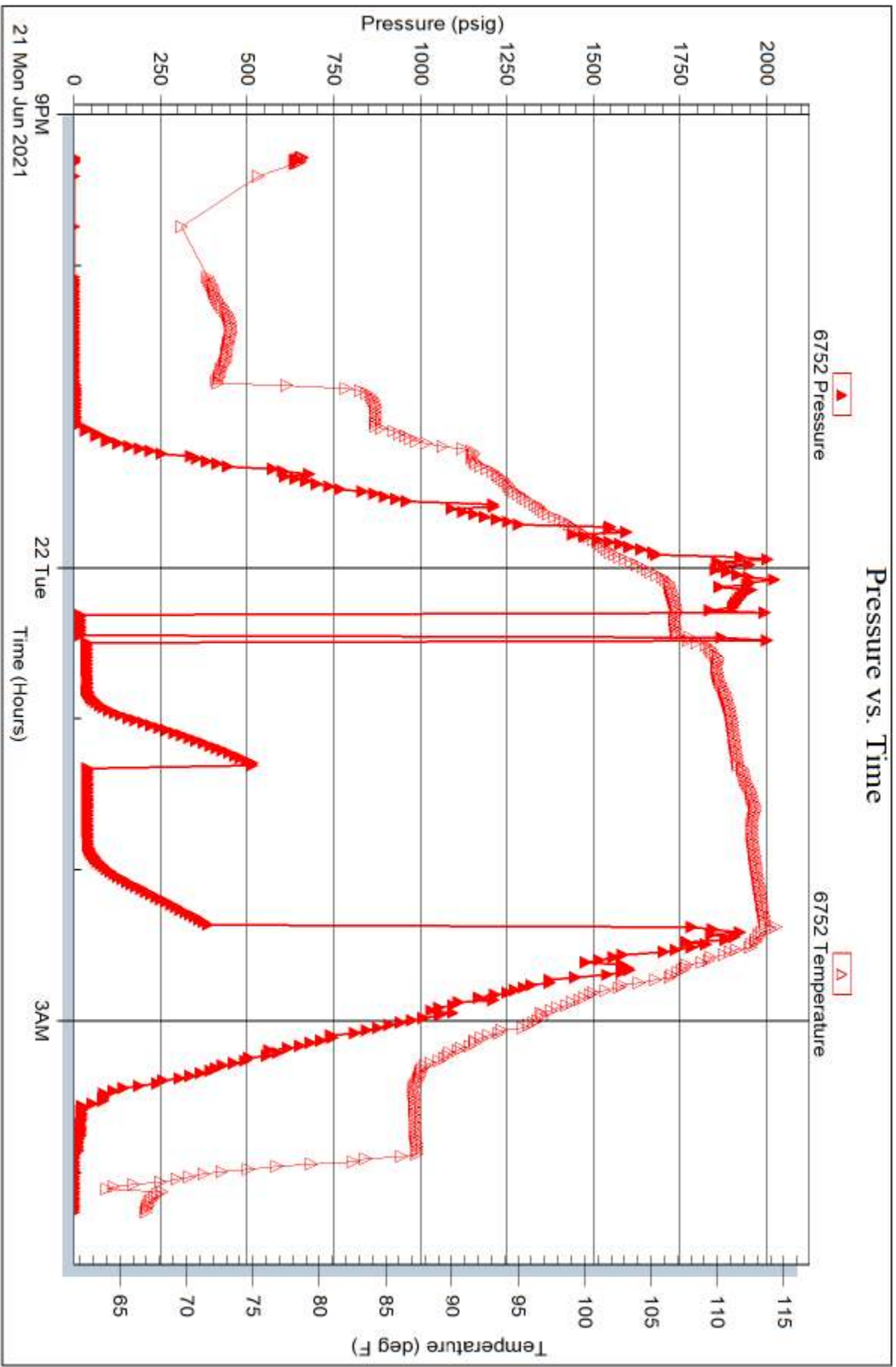


Serial #: 6752

Outside Hertel Oil Company

DK Schneider #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61775

Well Name & No. DK Schmeidler #1 Test No. 1 Date 6/20/21
 Company Hertel oil company Elevation 2299 KB 2291 GL
 Address 704 E 12th Hays, KS 67601-3440
 Co. Rep / Geo. Jason T Alm Rig Discovery #2
 Location: Sec. 36 Twp. 13S Rge. 21W Co. Trego State KS

Interval Tested 3739 - 3810 Zone Tested LKC I-1K
 Anchor Length 71' Drill Pipe Run 3725 Mud Wt. 8.8
 Top Packer Depth 3734 Drill Collars Run 30 Vis 46
 Bottom Packer Depth 3739 Wt. Pipe Run 0 WL 8.4
 Total Depth 3810 Chlorides 3000 ppm System LCM 2 #

Blow Description IF - Fair blow bob in 27 min
ESI - No blow back
FF - bob 22 min
FSI - Blow back built to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>OCM</u>	<u>10</u>	<u>0</u>	<u>9</u>	<u>9</u>
<u>60</u>	<u>0.6 WCM</u>	<u>12</u>	<u>4</u>	<u>15</u>	<u>65</u>
<u>240</u>	<u>61P</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 375 BHT 113
 (A) Initial Hydrostatic 1857
 (B) First Initial Flow 27
 (C) First Final Flow 60
 (D) Initial Shut-In 805
 (E) Second Initial Flow 61
 (F) Second Final Flow 79
 (G) Final Shut-In 742
 (H) Final Hydrostatic 1757

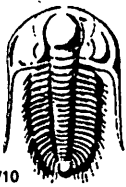
Gravity 1200 API RW @ 0 °F Chlorides 0 ppm
 Test
 Jars
 Safety Joint
 Circ Sub
 Hourly Standby
 Mileage 48rt 60
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1260

T-On Location 05:00
 T-Started 06:28
 T-Open 10:32
 T-Pulled 13:32
 T-Out 16:10
 Comments Stuck in the hole, had to work pipe for about 20 min
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1260
 MP/DST Disc't 0

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Our Representative Kevin Webster

Approved By _____
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51051

Well Name & No. DK Schmeidler #1 Test No. 2 Date 6/21/21
 Company Hertel oil company Elevation 2299 KB 2291 GL
 Address 704E 12th Hays, KS 67601-3449
 Co. Rep / Geo. JASON T ALM Rig Discovery #2
 Location: Sec. 36 Twp. 13S Rge. 21W Co. Trego State KS

Interval Tested 3914 - 3945 Zone Tested Marmaton
 Anchor Length 31' Drill Pipe Run 3883 Mud Wt. 9.2
 Top Packer Depth 3909 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 3914 Wt. Pipe Run 0 WL 8.8
 Total Depth 3945 Chlorides 3000 ppm System LCM 1 #

Blow Description IF - WSB Ditch in 7 min
ISI - No blow back
FF - No blow, Flushed tool, WSB, Pulled test
FSI -

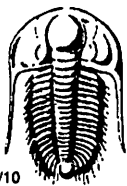
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>VSOCM</u>		<u>1</u>		<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2034 Test 1200 T-On Location 03:25
 (B) First Initial Flow 14 Jars _____ T-Started 05:35
 (C) First Final Flow 20 Safety Joint _____ T-Open 09:41
 (D) Initial Shut-In 376 Circ Sub _____ T-Pulled 10:50
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 13:05
 (F) Second Final Flow _____ Mileage 60 Comments Said they would start out @ 03:00.
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1941 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1260
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1260

Approved By _____ Our Representative Kevin Webster

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51052

Well Name & No. DK Schmeidler #1 Test No. 3 Date 6/21/21
 Company Hertel oil company Elevation 2299 KB 2291 GL
 Address 704 E 12th Hays, KS 67601-3440
 Co. Rep / Geo. JASON T Alm Rig Discovery #2
 Location: Sec. 36 Twp. 13S Rge. 21W Co. Trego State KS

Interval Tested 3932 - 3985 Zone Tested conglomerate sand
 Anchor Length 53 Drill Pipe Run ~~3914~~ 3914 Mud Wt. 9.2
 Top Packer Depth 3927 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3932 Wt. Pipe Run 0 WL 8.8
 Total Depth 3985 Chlorides 3000 ppm System LCM 1.5 #

Blow Description IF - No blow, Flushed tool, still no blow
ISI - No blow back
IF - Wsb died in 18 min
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>9</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2052
- (B) First Initial Flow 15
- (C) First Final Flow 38
- (D) Initial Shut-In 520
- (E) Second Initial Flow 37
- (F) Second Final Flow 42
- (G) Final Shut-In 400
- (H) Final Hydrostatic 1940

- Test 1200
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 120
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1320

T-On Location 21:05
 T-Started 21:17
 T-Open 00:18
 T-Pulled 02:18
 T-Out 04:17

Comments loaded tools 6/22 16:30

- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1320
- MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative Kevin Webster

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2301

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-22-21	36	13	21	TREGO	KS		1:15 Am

Location *Ellis SS 2 1/2 W*

Lease	Well No.	Owner	
<i>D R Schmeidler</i>	<i>1</i>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor			
<i>Discovery</i>			
Type Job			
<i>PTA</i>			
Hole Size	T.D.	Charge To	
<i>7 7/8</i>		<i>Hertel Oil</i>	
Csg.	Depth	Street	
Tbg. Size	Depth	City	
<i>4 1/2</i>		State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <i>305 yd 60/40 4% Gel 5# F.S.</i>	

Meas Line	Displace
-----------	----------

EQUIPMENT

Pumptrk	No.	Cementer	Helper	Common
<i>17</i>		<i>Bill</i>		<i>183</i>
Bulktrk	No.	Driver	Driver	Poz. Mix
		<i>Nick</i>		<i>122</i>
Bulktrk	No.	Driver	Driver	Gel.
<i>19</i>		<i>Doug</i>		<i>11</i>
				Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
	Salt
Rat Hole	Flowseal <i>75#</i>
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
DV or Port Collar	Sand
<i>1 plug 396 w/ 50 sh</i>	Handling <i>316</i>
<i>2 plug 166 w/ 50 sh</i>	Mileage

FLOAT EQUIPMENT

<i>3 plug c 900 w/ 100 sh</i>	Guide Shoe
<i>4 plug c 270 w/ 50 sh</i>	Centralizer
<i>40' lead at plug</i>	Baskets <i>1 8 5/8 Dry Hole Plug</i>
<i>Rathole 30 w/</i>	AFU Inserts
<i>mousehole 15 w/</i>	Float Shoe
	Latch Down

Pumptrk Charge	<i>Plug</i>
Mileage	<i>23</i>

X Signature *[Handwritten Signature]*

Tax
Discount
Total Charge