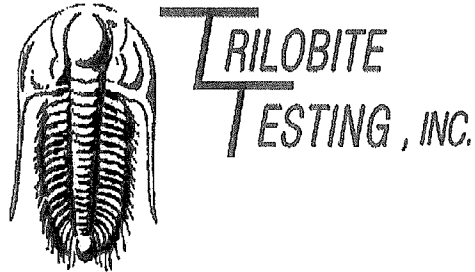


15-195-22679

20-12s-22w

IND



DRILL STEM TEST REPORT

Prepared For: **Staab Oil Company**

1607 Hopewell Rd
Hays, Ks 57601+9443

ATTN: Francis C Staab

20-12s-22w Trego, Ks

Staab Ogallah Frank #1

Start Date: 2010.09.09 @ 23:25:43

End Date: 2010.09.10 @ 06:46:37

Job Ticket #: 38516 DST #: 1

RECEIVED

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KCC WICHITA

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

Staab Oil Company

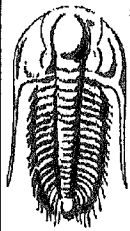
Staab Ogallah Frank #1

20-12s-22w Trego, Ks

DST # 1

LKC-"C&D"

2010.09.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Staab Oil Company
1607 Hopewell Rd
Hays, Ks 57601+9443
ATTN: Francis C Staab

Staab Ogallah Frank #1
20-12s-22w Trego, Ks
Job Ticket: 38516 DST#: 1
Test Start: 2010.09.09 @ 23:25:43

GENERAL INFORMATION:

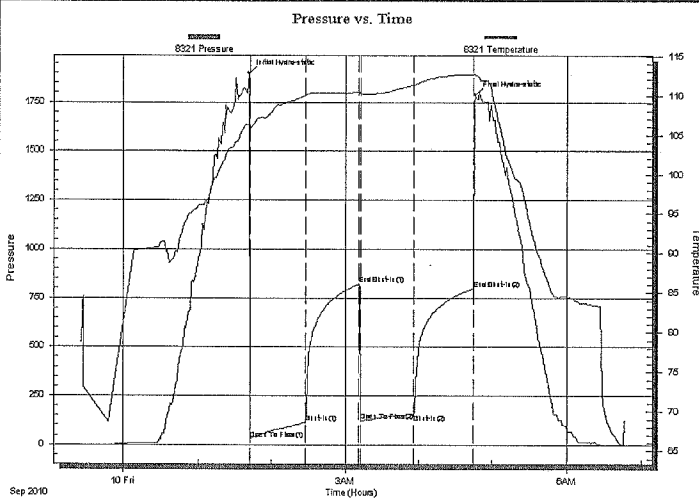
Formation: **LKC-"C&D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:42:08
Time Test Ended: 06:46:37
Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44
Interval: **3697.00 ft (KB) To 3750.00 ft (KB) (TVD)**
Total Depth: 3750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2418.00 ft (KB)
2413.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press@RunDepth: 157.70 psig @ 3700.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.09 End Date: 2010.09.10 Last Calib.: 2010.09.10
Start Time: 23:25:44 End Time: 06:46:38 Time On Btm: 2010.09.10 @ 01:41:38
Time Off Btm: 2010.09.10 @ 04:46:37

TEST COMMENT: IFP-Fair blow BOB in 44 min
ISI-Dead no blow back
FFP-Fair blow built to 6 1/2 in
FSI-Dead no blow back



PRESSURE SUMMARY

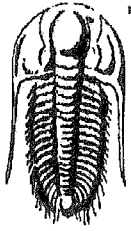
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.82	106.38	Initial Hydro-static
1	27.61	105.71	Open To Flow (1)
46	113.22	110.06	Shut-In(1)
90	820.79	110.39	End Shut-In(1)
91	121.50	110.22	Open To Flow (2)
135	157.70	111.33	Shut-In(2)
184	797.60	112.66	End Shut-In(2)
185	1788.10	112.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud	0.88
124.00	WM40%W60%M	0.88
62.00	WM with a scum of oil 15%W85%M	0.72

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (MMcfd)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Oil Company

Staab Ogallah Frank #1

1607 Hopewell Rd
Hays, Ks 57601+9443

20-12s-22w Trego, Ks

Job Ticket: 38516

DST#: 1

ATTN: Francis C Staab

Test Start: 2010.09.09 @ 23:25:43

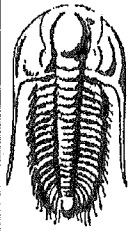
Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 269.00 ft	Diameter: 2.70 inches	Volume: 1.90 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 49.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3697.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3678.00	
Shut In Tool	5.00			3683.00	
Hydraulic tool	5.00			3688.00	
Packer	4.00			3692.00	20.00 Bottom Of Top Packer
Packer	5.00			3697.00	
Stubb	1.00			3698.00	
Perforations	2.00			3700.00	
Recorder	0.00	8321	Inside	3700.00	
Recorder	0.00	8679	Outside	3700.00	
Change Over Sub	1.00			3701.00	
Drill Pipe	31.00			3732.00	
Change Over Sub	1.00			3733.00	
Perforations	14.00			3747.00	
Bullnose	3.00			3750.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Oil Company

Staab Ogallah Frank #1

1607 Hopewell Rd
Hays, Ks 57601+9443

20-12s-22w Trego, Ks

Job Ticket: 38516

DST#: 1

ATTN: Francis C Staab

Test Start: 2010.09.09 @ 23:25:43

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:	62000 ppm
Viscosity: 49.00 sec/l	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Mud	0.878
124.00	WV40%W60%M	0.878
62.00	WV with a scum of oil 15%W85%M	0.724

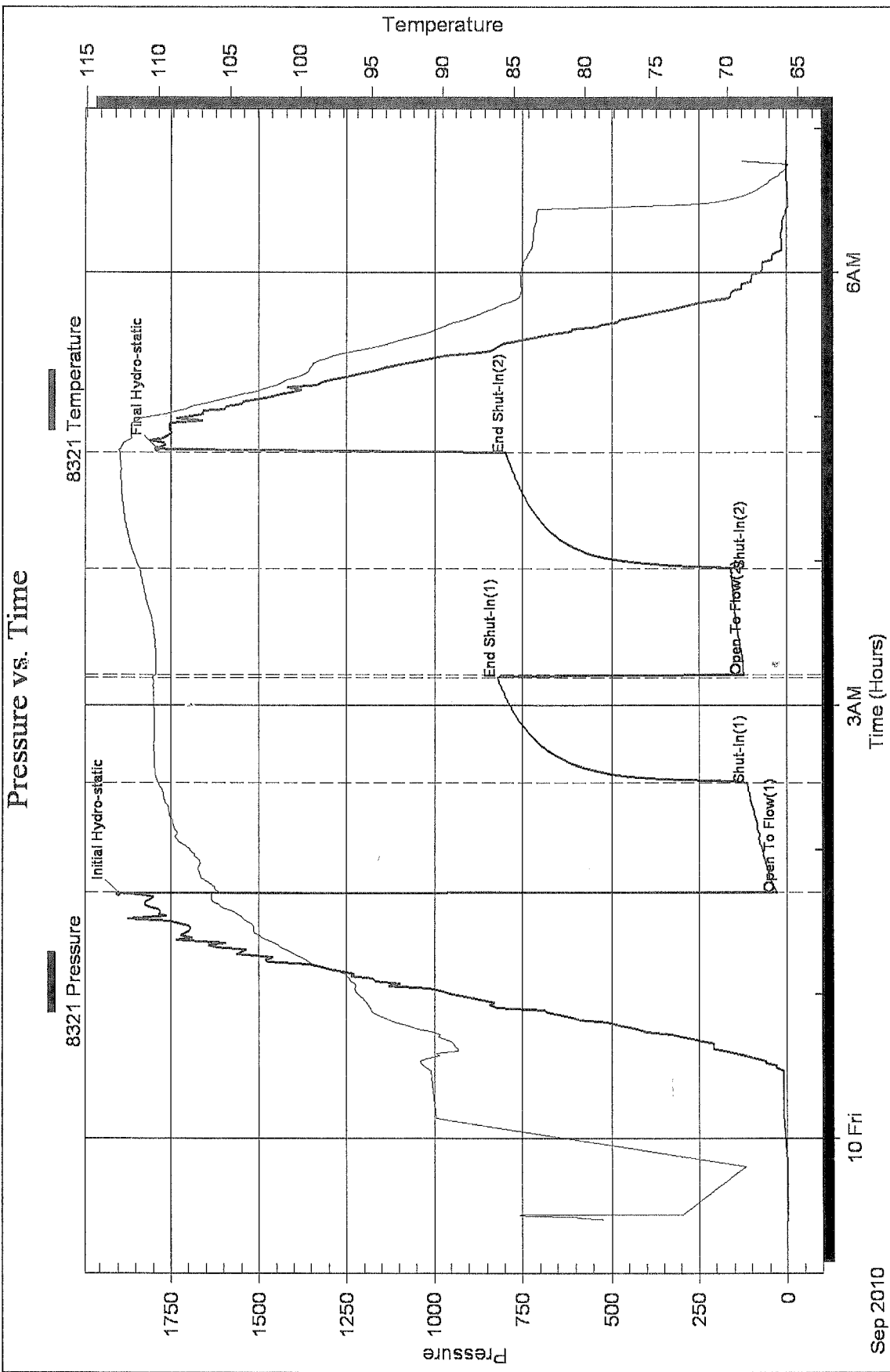
Total Length: 310.00 ft Total Volume: 2.480 bbl

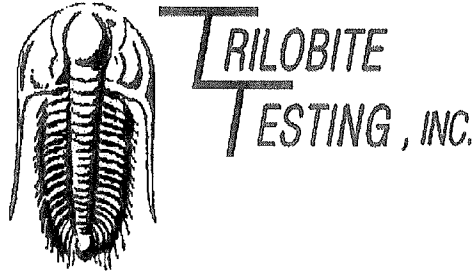
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Staab Oil Company**

1607 Hopewell Rd
Hays, Ks 57601+9443

ATTN: Francis C Staab

20-12s-22w Trego, Ks

Staab Ogallah Frank #1

Start Date: 2010.09.10 @ 13:49:13

End Date: 2010.09.10 @ 20:06:43

Job Ticket #: 38517 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Staab Oil Company

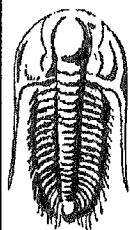
Staab Ogallah Frank #1

20-12s-22w Trego, Ks

DST # 2

LKC-"E"

2010.09.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Staab Oil Company
1607 Hopewell Rd
Hays, Ks 57601+9443
ATTN: Francis C Staab

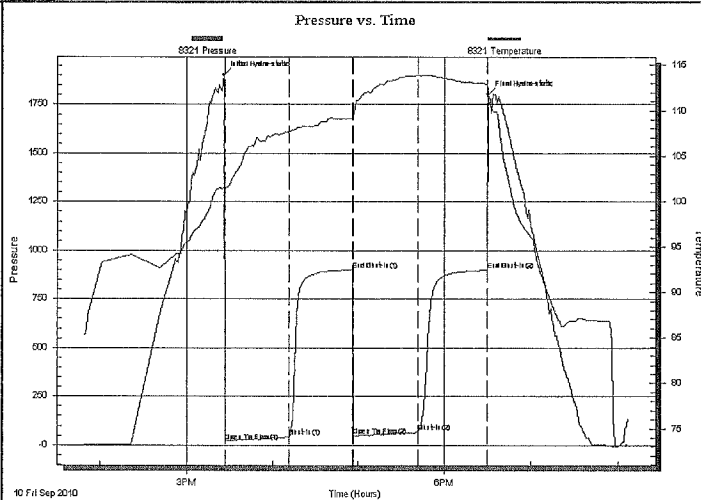
Staab Ogallah Frank #1
20-12s-22w Trego, Ks
Job Ticket: 38517 DST#: 2
Test Start: 2010.09.10 @ 13:49:13

GENERAL INFORMATION:

Formation: **LKC-"E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:26:13
Time Test Ended: 20:06:43
Interval: **3750.00 ft (KB) To 3768.00 ft (KB) (TVD)**
Total Depth: 3768.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 2418.00 ft (KB)
2413.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8321 Inside
Press@RunDepth: 66.43 psig @ 3751.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.10 End Date: 2010.09.10 Last Calib.: 2010.09.10
Start Time: 13:49:14 End Time: 20:06:43 Time On Btm: 2010.09.10 @ 15:25:43
Time Off Btm: 2010.09.10 @ 18:30:13

TEST COMMENT: IFP-Weak blow built to 3 1/2 in
ISI-Dead no blow back
FFP-Weak blow built to 1 1/8 in
FSI-Dead no blow back



PRESSURE SUMMARY

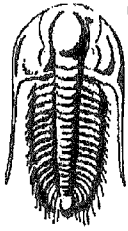
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.70	101.45	Initial Hydro-static
1	20.29	100.62	Open To Flow (1)
46	42.63	107.69	Shut-In(1)
90	900.46	109.14	End Shut-In(1)
91	49.56	109.35	Open To Flow (2)
136	66.43	113.90	Shut-In(2)
184	898.91	112.97	End Shut-In(2)
185	1803.60	112.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	SOCMW 5%O 45%M 50%W	0.01
57.00	MW with a scum of oil 50%M 50%W	0.40
59.00	WM 20%W 80%M	0.42

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Oil Company

Staab Ogallah Frank #1

1607 Hopewell Rd
Hays, Ks 57601+9443

20-12s-22w Trego, Ks

Job Ticket: 38517

DST#: 2

ATTN: Francis C Staab

Test Start: 2010.09.10 @ 13:49:13

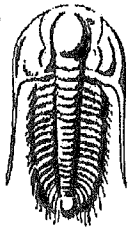
Tool Information

Drill Pipe:	Length: 3483.00 ft	Diameter: 3.80 inches	Volume: 48.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 269.00 ft	Diameter: 2.70 inches	Volume: 1.90 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 50.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3750.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			3731.00	
Shut In Tool	5.00			3736.00	
Hydraulic tool	5.00			3741.00	
Packer	4.00			3745.00	20.00 Bottom Of Top Packer
Packer	5.00			3750.00	
Stubb	1.00			3751.00	
Recorder	0.00	8321	Inside	3751.00	
Recorder	0.00	8679	Outside	3751.00	
Perforations	14.00			3765.00	
Bullnose	3.00			3768.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Oil Company

Staab Ogallah Frank #1

1607 Hopewell Rd
Hays, Ks 57601+9443

20-12s-22w Trego, Ks

Job Ticket: 38517

DST#: 2

ATTN: Francis C Staab

Test Start: 2010.09.10 @ 13:49:13

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: 68.00 sec/l

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	SOCMW 5%O 45%M 50%W	0.007
57.00	MW with a scum of oil 50%M 50%W	0.404
59.00	WM 20%W 80%M	0.418

Total Length: 117.00 ft Total Volume: 0.829 bbl

Num Fluid Samples: 0

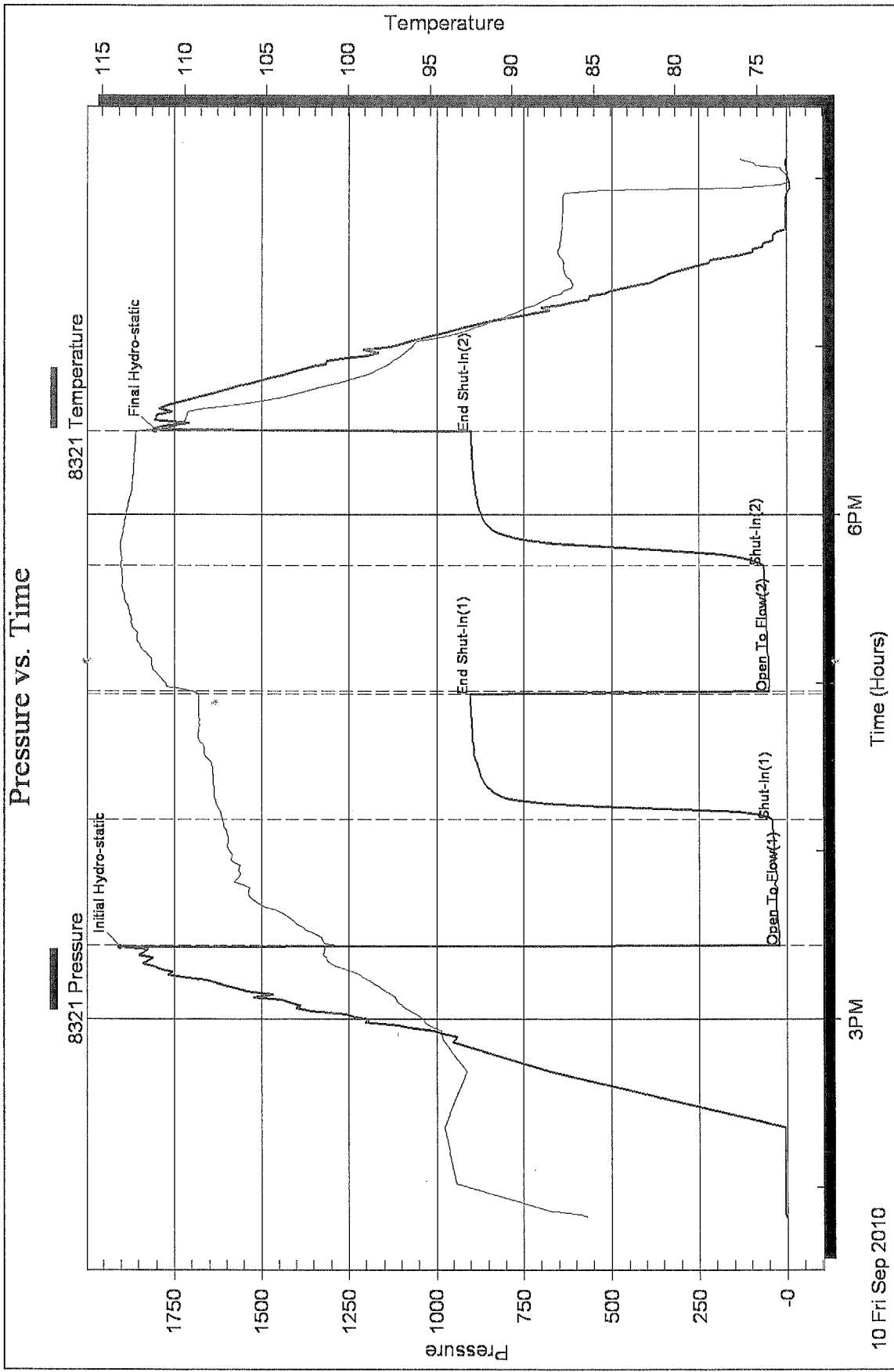
Num Gas Bombs: 0

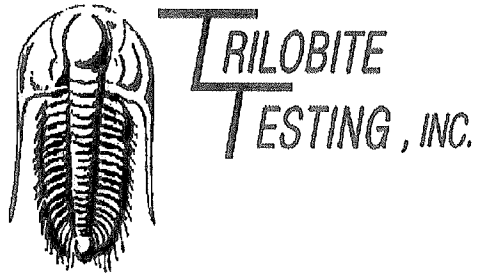
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Staab Oil Company**

1607 Hopewell Rd
Hays, Ks 57601+9443

ATTN: Francis C Staab

20-12s-22w Trego, Ks

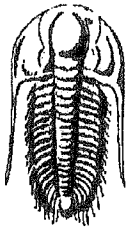
Staab Ogallah Frank #1

Start Date: 2010.09.11 @ 22:57:25

End Date: 2010.09.12 @ 17:34:25

Job Ticket #: 38518 DST #: 3

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Staab Oil Company
1607 Hopewell Rd
Hays, Ks 57601+9443
ATTN: Francis C Staab

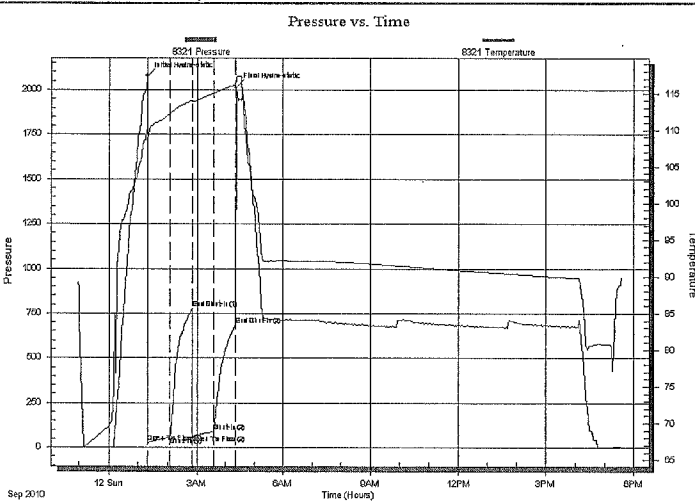
Staab Ogallah Frank #1
20-12s-22w Trego, Ks
Job Ticket: 38518 **DST#: 3**
Test Start: 2010.09.11 @ 22:57:25

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:19:25
Time Test Ended: 17:34:25
Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44
Interval: **4022.00 ft (KB) To 4060.00 ft (KB) (TVD)**
Reference Elevations: 2418.00 ft (KB)
Total Depth: 4060.00 ft (KB) (TVD) 2413.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8321 **Inside**
Press@RunDepth: 86.99 psig @ 4028.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.11 End Date: 2010.09.12 Last Calib.: 2010.09.12
Start Time: 22:57:26 End Time: 17:34:24 Time On Btm: 2010.09.12 @ 01:18:55
Time Off Btm: 2010.09.12 @ 04:22:25

TEST COMMENT: IFP-Strong blow BOB in 25 min
ISI-Dead no blow back
FFP-Strong blow BOB in 42 1/2 min
FSI-Weak surface blow back died in 20 min



PRESSURE SUMMARY

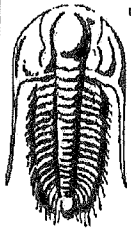
Time ^h (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.66	109.89	Initial Hydro-static
1	26.55	108.82	Open To Flow (1)
46	57.59	112.18	Shut-In(1)
90	775.92	114.04	End Shut-In(1)
91	69.55	113.88	Open To Flow (2)
136	86.99	114.98	Shut-In(2)
183	684.22	116.18	End Shut-In(2)
184	2014.64	117.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Free Oil	0.50
60.00	MO 20% M80%	0.42
60.00	HOCM 25% O75% M	0.42
0.00	184 GIP	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Oil Company

Staab Ogallah Frank #1

1607 Hopewell Rd
Hays, Ks 57601+9443

20-12s-22w Trego, Ks

Job Ticket: 38518

DST#: 3

ATTN: Francis C Staab

Test Start: 2010.09.11 @ 22:57:25

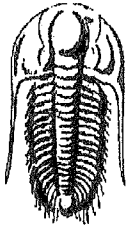
Tool Information

Drill Pipe:	Length: 3761.00 ft	Diameter: 3.80 inches	Volume: 52.76 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 269.00 ft	Diameter: 2.70 inches	Volume: 1.90 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 54.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4022.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4003.00	
Shut In Tool	5.00			4008.00	
Hydraulic tool	5.00			4013.00	
Packer *	4.00			4017.00	20.00 * Bottom Of Top Packer
Packer	5.00		*	4022.00	
Stubb	1.00			4023.00	
Perforations	5.00			4028.00	
Recorder	0.00	8321	Inside	4028.00	
Recorder	0.00	8679	Outside	4028.00	
Perforations	29.00			4057.00	
Bullnose	3.00			4060.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Oil Company

Staab Ogallah Frank #1

1607 Hopewell Rd
Hays, Ks 57601+9443

20-12s-22w Trego, Ks

Job Ticket: 38518

DST#: 3

ATTN: Francis C Staab

Test Start: 2010.09.11 @ 22:57:25

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:

33 ppm

Viscosity: 47.00 sec/l

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Free Oil	0.496
60.00	MO 20%M80%)	0.425
60.00	HOCM 25%O75%M	0.425
0.00	184 GIP	0.000

Total Length: 190.00 ft

Total Volume: 1.346 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

