

## CASING AND CEMENTING REPORT

DISTRICT \_\_\_\_\_ LEASE HOLTHAUS 1-25 DATE 2/16/2012  
 DATUM KB \_\_\_\_\_ FT. A.G.L. LAST CASING: SIZE \_\_\_\_\_ SET AT: \_\_\_\_\_ THIS CASING SIZE: 8 5/8 SET AT: 265  
 TD DRILLER 280 TD LOGGE \_\_\_\_\_ HOLE SIZE 12 1/4  
 CASING ON HAND : NUMBER OF JTS 9 MEASURED OVERALL: \_\_\_\_\_ MEASURED LESS THDS: 326.11

LOG OF CASING STRING , EACH ITEM BEING LISTED IN SAME ORDER AS RUN INTO WELL

PIECES	DESCRIPTION	WT/FT	GRADE	THREADS	COND'N	MADE UP LENGTH
1	GUIDE SHOE					0.84
6	8 5/8 CASING	24	L/S	ST&C	NEW	262.88
1	LANDING JT					15.00
	PBTD - Float Insert at	KB				

TOP OF CASING STRING ABOVE KB: 13.00 FEET TOTAL: 278.72  
 CASING LEFT OUT OF STRING: NUMBER OF FULL JOIN 3 AMOUNT OVERALL \_\_\_\_\_ AMOUNT LESS THREADS 133.38

CENTRALIZERS : NO. 4 MAKE REG PLACED EVERY OTHER JT

ITEMS THREAD LOCKED OR WELDE EVERY JOINT WEL LDED

CASING STRING WAS FILLED OR CIRCULATED ON JOINT: 6

CASING MAKEUP TORQUE : 3200

STRING WT ON BOTTOM: 7 WT WHEN BUMPED PLUG: 7 WT. SET ON CASING SLIPS N/A

BEFORE CEMENTING : MUD WT : 8.9 VIS 40 LCM 3 FLARE or BGG \_\_\_\_\_

CEMENTING COMPANY: CONSOLADATED OILWELL SERV # OF PUMP TRUCKS: 1

SPACERS PUMPED AHEAD OF CMT: 10 BBL FRESH W WATER

SLURRY PUMPED: 180 SKS CLASS "A" CEMENT W/3% CC,2% GEL,& 1/4 FLO-CELE/SK @ 14.5-15#/GAL

LEFT WELL SHUT IN FOR 6 HRS WITH 500 PSI

CEMENT VOLUME WAS CALCULATED FOR TOC AT: \_\_\_\_\_ SURFACE

AVG RATE MIXING CMT: 4.5 BPM AVG RATE ON DISPLACEMENT : 5 BPM BUMP PLUG? YES

RATE & PRESSURE JUST PRIOR TO BUMPING PLUG: 5 BBL 150 PSI BUMP PLUG AT PSI : 500

DID FLOAT HOLD? \_\_\_\_\_ CALCULATED DISPLACEMENT (BBL): 15 BBL DISP. PUMPED: 15 DISPLACED WITH: H2O

FULL CIRC. DURING CEMENT JOB ? YES BBL CMT CIRC TO PIT : 14-Jan

MIX WATER SOURCE : POND

JOB COMMENTS AND / OR PROBLEMS: JOB WENT WELL GOOD CIRCULATION THRUOUT

Report By: MJCKEY JONES

### CASING AND CEMENTING REPORT

DISTRICT \_\_\_\_\_ LEASE HOLTHAUS 1-25 DATE 2/26/2012  
 DATUM KB 1304 FT. A.G.L. LAST CASING: SIZE 8 5/8 SET AT: 265' THIS CASING SIZE: 5.5" SET AT: 3417' GL  
 TD DRILLER 3428 TD LOGGE 3428 HOLE SIZE 7 7/8  
 CASING ON HAND : NUMBER OF JTS 88 MEASURED OVERALL: \_\_\_\_\_ MEASURED LESS THDS: 3587.05

LOG OF CASING STRING , EACH ITEM BEING LISTED IN SAME ORDER AS RUN INTO WELL

PIECES	DESCRIPTION	WT/FT	GRADE	THREADS	COND'N	MADE UP LENGTH
1	GUIDE SHOE			LT&C	NEW	0.84
1	5.5" CASING	17	L/S	LT&C	NEW	37.58
1	FLOAT COLLAR			LT&C	NEW	0.72
8	5.5" CASING	17	L/S	LT&C	NEW	288.99
1	5.5" MARKER JOINT	17	L/S	LT&C	NEW	22.24
	5.5" CASING	17	L/S	LT&C	NEW	3058.20
1	5.5" CASING	17	L/S	LT&C	NEW	15.50
1	5.5" LANDING JOINT			LT&C		11.40
	PBTD - Float Insert at <u>3378.58 BELOW GL KB</u>					

TOP OF CASING STRING ABOVE KB: 8.00 FEET TOTAL: 3435.47  
 CASING LEFT OUT OF STRING: NUMBER OF FULL JOIN 4 AMOUNT OVERALL \_\_\_\_\_ AMOUNT LESS THREADS 162.98

CENTRALIZERS : NO. 10 MAKE \_\_\_\_\_ REG \_\_\_\_\_ PLACED TOPS OF FIRST TEN JTS \_\_\_\_\_

ITEMS THREAD LOCKED OR WELDE GUIDE SHOE , FLO OAT COLLAR

CASING STRING WAS FILLED OR CIRCULATED ON JOINT: 25 & 83

CASING MAKEUP TORQUE : 2400

STRING WT ON BOTTOM: 38 WT WHEN BUMPED PLUG: 38 WT. SET ON CASING SLIPS 40

BEFORE CEMENTING : MUD WT : 9.2 VIS 54 LCM \_\_\_\_\_ FLARE or BGG \_\_\_\_\_

CEMENTING COMPANY: CONSOLIDATED # OF PUMP TRUCKS: 1

SPACERS PUMPED AHEAD OF CMT: 12 BBL ! SILT SUSPENDER, 5 BBL H2O, 10 BBL CAUSTIC FLUSH, 5 BBL H2O

SLURRY PUMPED: 125 SKS THICK SET CEMENT W/5# KOL-SEAL/SK @13.7/GAL YEILD 1.85

CEMENT VOLUME WAS CALCULATED FOR TOC AT: 2400

AVG RATE MIXING CMT: 5 BBL AVG RATE ON DISPLACEMENT : 6 BBL BUMP PLUG? \_\_\_\_\_

RATE & PRESSURE JUST PRIOR TO BUMPING PLUG: 800 BUMP PLUG AT PSI : 1300

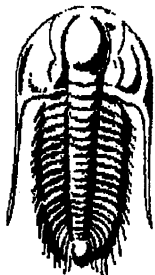
DID FLOAT HOLD? YES CALCULATED DISPLACEMENT (BBLs): 78.9 BBLs DISP. PUMPED: 78.9 DISPLACED WITH: H2O 2% KCL

FULL CIRC. DURING CEMENT JOB ? YES BBLs CMT CIRC TO PIT : N/A

MIX WATER SOURCE : CITY WATER

JOB COMMENTS AND / OR PROBLEMS: JOB WENT WELL NO PROBLEMS

Report By: MURRAY JONES



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Mustang Fuel Corporation**

13439 Broadway Extension  
Oklahoma City OK 73114

ATTN: Jim D Hill

**Holthaus #1-25**

**25-5s-12w Nemaha,KS**

Start Date: 2012.02.24 @ 06:42:31

End Date: 2012.02.24 @ 19:32:31

Job Ticket #: 46398                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

**ORIGINAL**

Printed: 2012.02.29 @ 16:52:59

Mustang Fuel Corporation

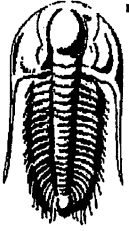
25-5s-12w Nemaha,KS

Holthaus #1-25

DST # 1

Viola

2012.02.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mustang Fuel Corporation  
13439 Broadway Extension  
Oklahoma City OK 73114  
ATTN: Jim D Hill

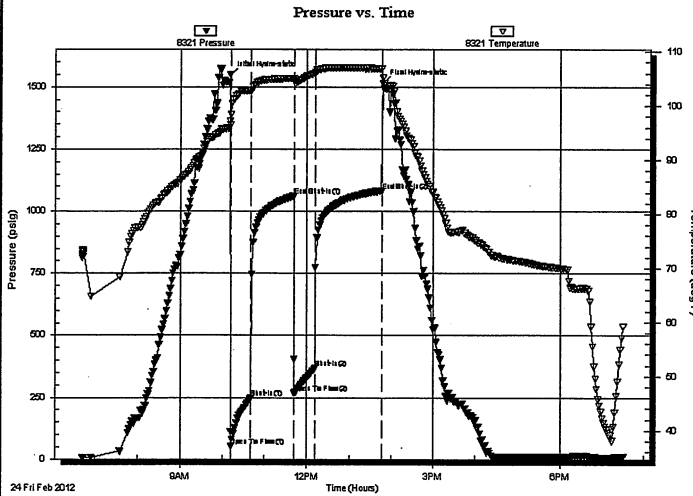
**25-5s-12w Nemaha, KS**  
**Holthaus #1-25**  
Job Ticket: 46398      DST#: 1  
Test Start: 2012.02.24 @ 06:42:31

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 10:12:31  
Time Test Ended: 19:32:31  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jeff Brown  
Unit No: 44  
Interval: **3131.00 ft (KB) To 3140.00 ft (KB) (TVD)**  
Total Depth: 3140.00 ft (KB) (TVD)  
Reference Elevations: 1314.00 ft (KB)  
1304.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good  
KB to GR/CF: 10.00 ft

**Serial #: 8321      Inside**  
Press@RunDepth: 368.60 psig @ 3132.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.02.24      End Date: 2012.02.24      Last Calib.: 2012.02.24  
Start Time: 06:42:32      End Time: 19:31:31      Time On Btm: 2012.02.24 @ 10:11:31  
Time Off Btm: 2012.02.24 @ 13:48:01

**TEST COMMENT:** IFP-Good blow BOB in 5 1/2 min  
ISI-Dead no blow back  
FFP-Good blow BOB in 7 1/4 min  
FSI-Dead no blow back



## PRESSURE SUMMARY

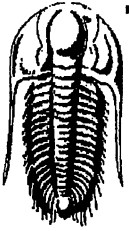
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1547.54	97.09	Initial Hydro-static
1	52.45	98.32	Open To Flow (1)
30	247.34	102.70	Shut-In(1)
90	1062.12	105.02	End Shut-In(1)
91	269.06	104.48	Open To Flow (2)
120	368.60	106.05	Shut-In(2)
215	1083.10	106.84	End Shut-In(2)
217	1514.37	105.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM 40% O 60% M	0.30
764.00	Oil 100% O	4.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mustang Fuel Corporation

**25-5s-12w Nemaha,KS**

13439 Broadway Extension  
Oklahoma City OK 73114

**Holthaus #1-25**

Job Ticket: 46398

**DST#: 1**

ATTN: Jim D Hill

Test Start: 2012.02.24 @ 06:42:31

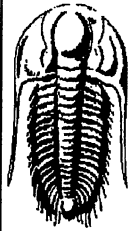
## Tool Information

Drill Pipe:	Length: 2820.00 ft	Diameter: 2.50 inches	Volume: 17.12 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 313.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight to Pull Loose:	54000.00 lb
			<u>Total Volume: 18.66 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3131.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	37.00 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			3104.00	
Shut In Tool	5.00			3109.00	
Hydraulic tool	5.00			3114.00	
Jars	5.00			3119.00	
Safety Joint	3.00			3122.00	
Packer	4.00			3126.00	28.00 Bottom Of Top Packer
Packer	5.00			3131.00	
Stubb	1.00			3132.00	
Recorder	0.00	8321	Inside	3132.00	
Recorder	0.00	8737	Outside	3132.00	
Perforations	5.00			3137.00	
Bullnose	3.00			3140.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 37.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mustang Fuel Corporation

**25-5s-12w Nemaha,KS**

13439 Broadway Extension  
Oklahoma City OK 73114

**Holthaus #1-25**

Job Ticket: 46398

**DST#: 1**

ATTN: Jim D Hill

Test Start: 2012.02.24 @ 06:42:31

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

18 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 400.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	HOCM 40%O60%M	0.295
764.00	Oil 100%O	4.347

Total Length: 824.00 ft      Total Volume: 4.642 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

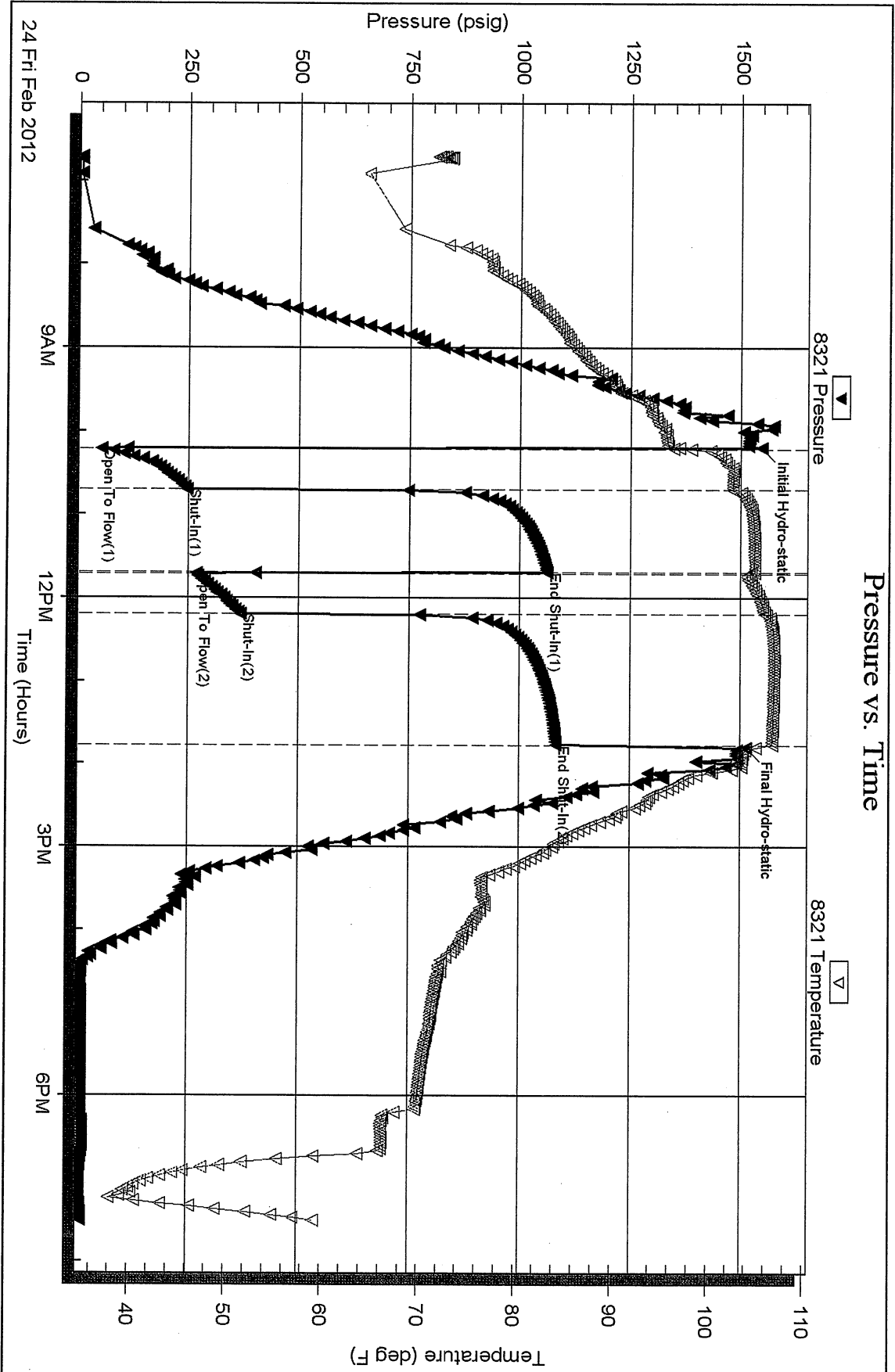
Inside

Mustang Fuel Corporation

Holthaus #1-25

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46398

Printed: 2012.02.29 @ 16:53:00

