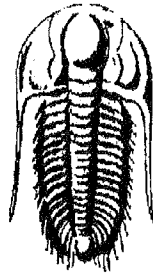


13-10s-20w

15-163-23752-00-00

LGS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raney Oil Co LLC**

3425 Tam O'Shanter Dr
Lawrence, Ks
66047

ATTN: Duane Stecklein

13 10 20 Rooks, Ks

Suter #B-3

Suton

Start Date: 2008.10.06 @ 03:25:05

End Date: 2008.10.06 @ 09:50:44

Job Ticket #: 33410

DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raney Oil Co LLC

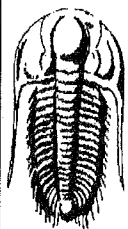
Suter #B-3

13 10 20 Rooks, Ks

DST # 1

I,J,K,L

2008.10.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raney Oil Co LLC

3425 Tam O'Shanter Dr
Lawrence, Ks
66047
ATTN: Duane Stecklein

Suter #B-3

13 10 20 Rooks, Ks

Job Ticket: 33410

DST#: 1

Test Start: 2008.10.06 @ 03:25:05

GENERAL INFORMATION:

Formation: **I,J,K,L**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:43:15

Time Test Ended: 09:50:44

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: 3585.00 ft (KB) To 3655.00 ft (KB) (TVD)

Total Depth: **3655.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2212.00 ft (KB)**

2207.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6667

Inside

Press@RunDepth: **50.32 psig @ 3586.00 ft (KB)**

Start Date: **2008.10.06**

End Date:

2008.10.06

Start Time: **03:25:05**

End Time:

09:37:44

Capacity: **7000.00 psig**

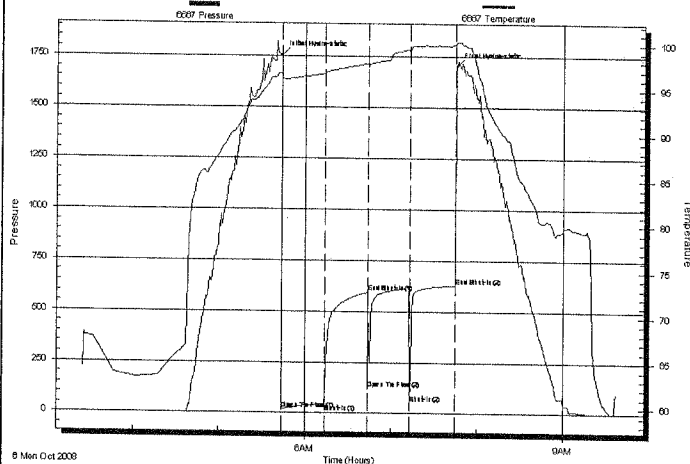
Last Calib.: **2008.10.06**

Time On Btm: **2008.10.06 @ 05:43:00**

Time Off Btm: **2008.10.06 @ 07:45:44**

TEST COMMENT: **5" in blow
No return
Weak Surface blow
No return**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.93	96.82	Initial Hydro-static
1	18.58	96.29	Open To Flow (1)
31	46.21	96.76	Shut-In (1)
61	591.63	97.86	End Shut-In (1)
61	121.25	97.50	Open To Flow (2)
91	50.32	99.23	Shut-In (2)
123	628.71	99.94	End Shut-In (2)
123	1704.22	100.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud w/oil spots on top 100% m	0.91

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raney Oil Co LLC

Suter #B-3

3425 Tam O'Shanter Dr
Lawrence, Ks
66047

13 10 20 Rooks, Ks

Job Ticket: 33410

DST#: 1

ATTN: Duane Stecklein

Test Start: 2008.10.06 @ 03:25:05

Tool Information

Drill Pipe: Length: 3570.00 ft Diameter: 3.80 inches Volume: 50.08 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Total Volume: 50.08 bbl

Tool Weight: 1500.00 lb
Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 55000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 34000.00 lb
Final 35000.00 lb

Drill Pipe Above KB: 5.00 ft
Depth to Top Packer: 3585.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 70.00 ft
Tool Length: 90.00 ft

Number of Packers: 2 Diameter: 6.75 inches

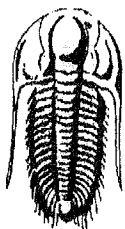
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3566.00	
Shut In Tool	5.00			3571.00	
Hydraulic tool	5.00			3576.00	
Packer	5.00			3581.00	20.00 Bottom Of Top Packer
Packer	4.00			3585.00	
Stubb	1.00			3586.00	
Recorder	0.00	6667	Inside	3586.00	
Recorder	0.00	6771	Outside	3586.00	
Perforations	31.00			3617.00	
Change Over Sub	1.00			3618.00	
Drill Pipe	31.00			3649.00	
Change Over Sub	1.00			3650.00	
Bullnose	5.00			3655.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raney Oil Co LLC

Suter #B-3

3425 Tam O'Shanter Dr
Lawrence, Ks
66047

13 10 20 Rooks, Ks

Job Ticket: 33410

DST#: 1

ATTN: Duane Stecklein

Test Start: 2008.10.06 @ 03:25:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	mud w/oil spots on top 100% m	0.912

Total Length: 65.00 ft

Total Volume: 0.912 bbl

Num Fluid Samples: 0

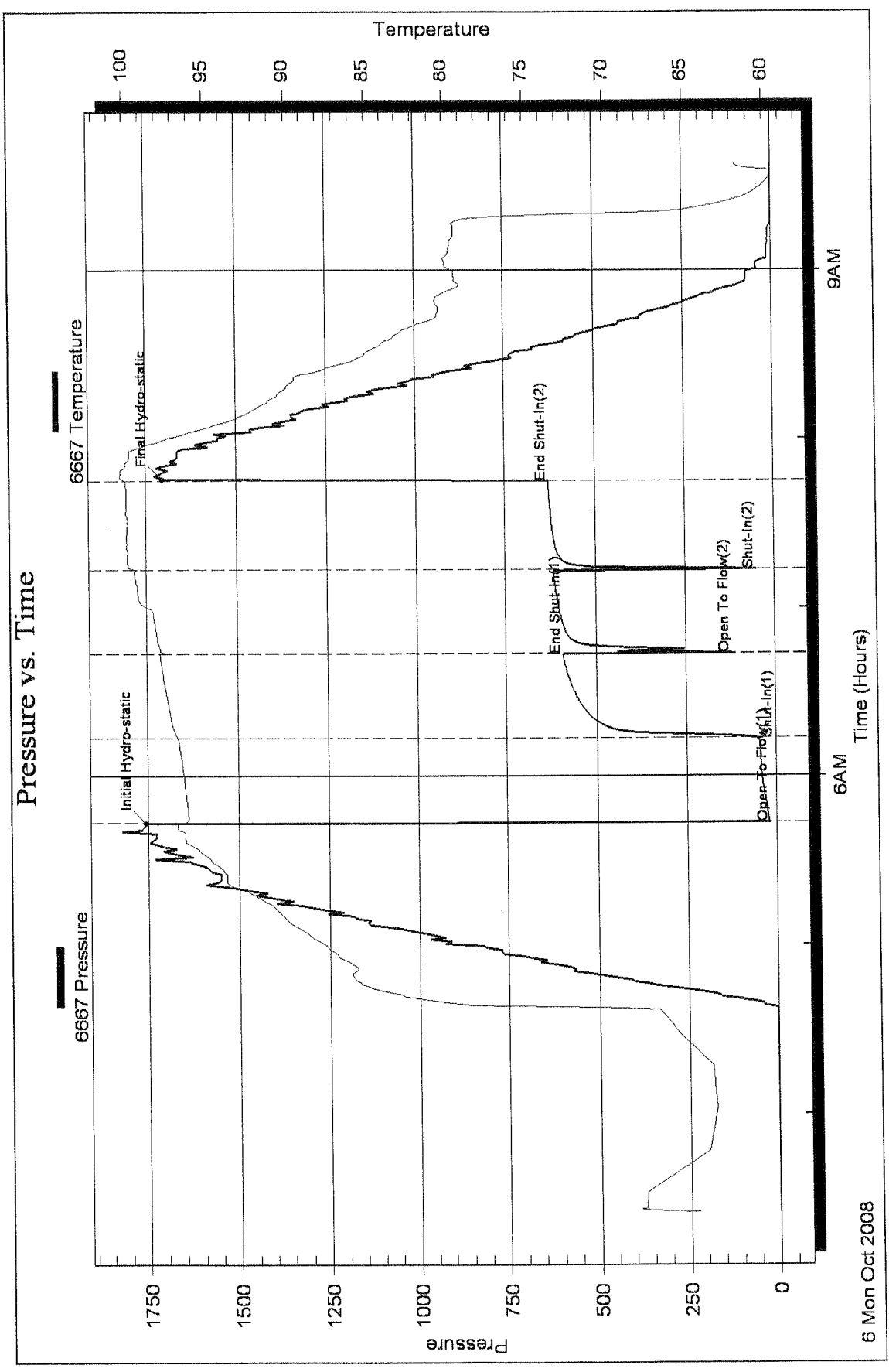
Num Gas Bombs: 0

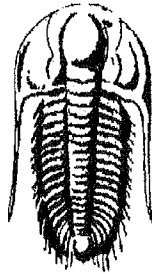
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raney Oil Co LLC**

3425 Tam O'Shanter Dr
Lawrence, Ks
66047

ATTN: Duane Stecklein

13 10 20 Rooks, Ks

Suter #B-3

Start Date: 2008.10.06 @ 19:40:50

End Date: 2008.10.07 @ 02:36:50

Job Ticket #: 33721 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raney Oil Co LLC

Suter #B-3

13 10 20 Rooks, Ks

DST # 2

Arbuckle

2008.10.06



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Raney Oil Co LLC

3425 Tam O'Shanter Dr
Lawrence, Ks
66047
ATTN: Duane Stecklein

Suter #B-3

13 10 20 Rooks, Ks

Job Ticket: 33721

DST#: 2

Test Start: 2008.10.06 @ 19:40:50

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:40:35

Time Test Ended: 02:36:50

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: 3640.00 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: 2212.00 ft (KB)

2207.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669 Inside

Press@RunDepth: 628.02 psig @ 3647.00 ft (KB)

Start Date: 2008.10.06

End Date:

2008.10.07

Start Time: 19:40:51

End Time:

02:36:50

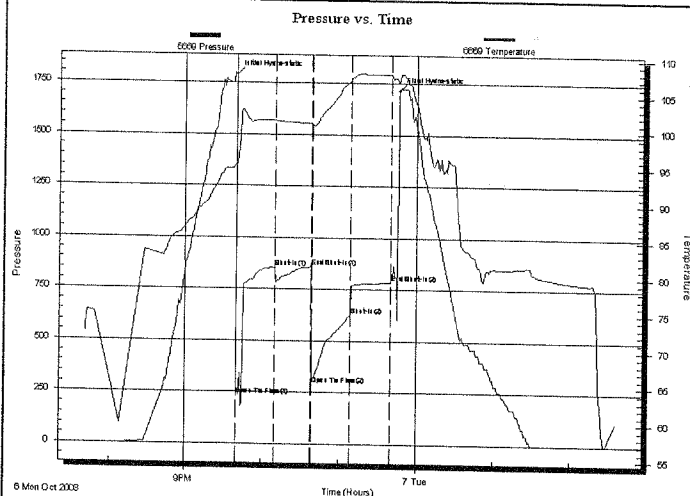
Capacity: 7000.00 psig

Last Calib.: 2008.10.07

Time On Btm: 2008.10.06 @ 21:40:20

Time Off Btm: 2008.10.06 @ 23:45:50

TEST COMMENT: IFP-BOB in 1 min
ISI-no blow back
FFP BOB-in 1.5 min
FSI-no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.15	95.60	Initial Hydro-static
1	234.93	95.34	Open To Flow (1)
30	853.99	101.49	Shut-In (1)
59	857.10	101.05	End Shut-In (1)
59	291.86	100.88	Open To Flow (2)
89	628.02	107.06	Shut-In (2)
120	783.15	107.83	End Shut-In (2)
126	1711.93	106.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GWCO 30%G,60%O,10%W	3.37
600.00	GMCO 30%G,50%O,20%M	8.42
180.00	GMCO 30%G,40%O,30%M	2.52
300.00	GOCM 30%G,10%O,60%M	4.21
90.00	Mud	1.26

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raney Oil Co LLC

Suter #B-3

3425 Tam O'Shanter Dr
Lawrence, Ks
66047

13 10 20 Rooks, Ks

Job Ticket: 33721

DST#: 2

ATTN: Duane Stecklein

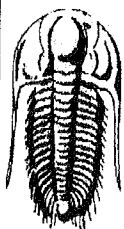
Test Start: 2008.10.06 @ 19:40:50

Tool Information

Drill Pipe:	Length: 3632.00 ft	Diameter: 3.80 inches	Volume: 50.95 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 120000.0 lb
		Total Volume: 50.95 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3640.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	130.00 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			3621.00	
Shut In Tool	5.00			3626.00	
Hydraulic tool	5.00			3631.00	
Packer	5.00			3636.00	20.00 Bottom Of Top Packer
Packer	4.00			3640.00	
Stubb	1.00			3641.00	
Perforations	5.00			3646.00	
Change Over Sub	1.00			3647.00	
Recorder	0.00	6669	Inside	3647.00	
Recorder	0.00	6672	Inside	3647.00	
Drill Pipe	92.00			3739.00	
Change Over Sub	1.00			3740.00	
Perforations	7.00			3747.00	
Bullnose	3.00			3750.00	110.00 Bottom Packers & Anchor

Total Tool Length: 130.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raney Oil Co LLC

Suter #B-3

3425 Tam O'Shanter Dr
Lawrence, Ks
66047

13 10 20 Rooks, Ks

Job Ticket: 33721

DST#: 2

ATTN: Duane Stecklein

Test Start: 2008.10.06 @ 19:40:50

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.79 in³

Resistivity: 0.00 ohm.m

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GWCO 30%G,60%O,10%W	3.367
600.00	GMCO 30%G,50%O,20%M	8.416
180.00	GMCO 30%G,40%O,30%M	2.525
300.00	GOCM 30%G,10%O,60%M	4.208
90.00	Mud	1.262

Total Length: 1410.00 ft

Total Volume: 19.778 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

