

36-9-20W



DRILL STEM TEST REPORT

Prepared For: **Raney Oil**

3425 Tam O'Shanter
Lawrence Ks 66047

ATTN: Tom Raney

36-9s-2ow Rooks

KEAS'S 36-9s-2ow Rooks

MTO-WWSL
9-30-09

Start Date: 2004.11.07 @ 01:44:08

End Date: 2004.11.07 @ 08:00:37

Job Ticket #: 20886 DST #: 1

API # 15-16323434-00-00

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

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Raney Oil

3425 Tam O'Shanter
Lawrence Ks 66047

ATTN: Tom Raney

~~Marcotte 3"B"~~

36-9s-2ow Rooks

Job Ticket: 20886

DST#: 1

Test Start: 2004.11.07 @ 01:44:08

MTD-4452
4-30-09
KEAS 1'B'3

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:37

Time Test Ended: 08:00:37

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3792.00 ft (KB) To 3811.00 ft (KB) (TVD)**

Total Depth: 3811.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2258.00 ft (KB)

2253.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6668**

Inside

Press@RunDepth: 205.71 psig @ 3793.01 ft (KB)

Start Date: 2004.11.07 End Date: 2004.11.07

Start Time: 01:44:08 End Time: 08:00:37

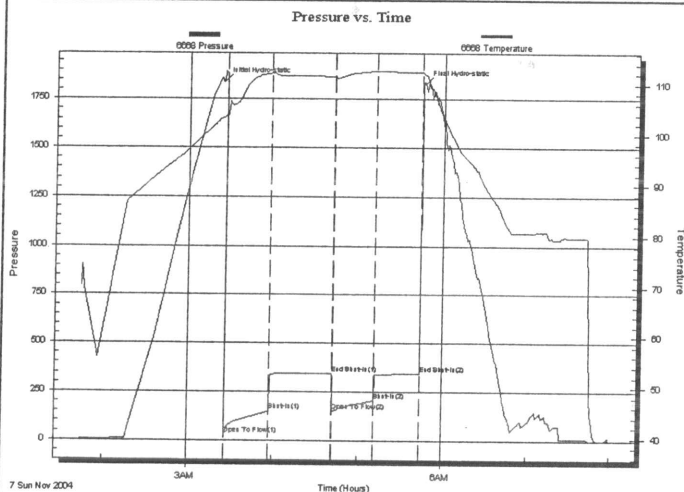
Capacity: 7000.00 psig

Last Calib.: 2004.11.07

Time On Btm: 2004.11.07 @ 03:24:07

Time Off Btm: 2004.11.07 @ 05:45:37

TEST COMMENT: IFP-wk to strg in 12 min
FFP-wk bl to a fr bl 1/4" to 3 1/2"bl
Times 30-45-30-30
no bl on shut-in



PRESSURE SUMMARY

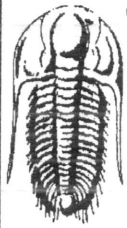
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.08	103.39	Initial Hydro-static
3	27.14	103.56	Open To Flow (1)
34	148.63	112.21	Shut-In(1)
78	342.28	111.57	End Shut-In(1)
78	150.54	111.42	Open To Flow (2)
107	205.71	112.64	Shut-In(2)
140	342.11	112.42	End Shut-In(2)
142	1832.76	111.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	water	2.27
60.00	O&GCMW 5gas 10oil 51water 34mud	0.84
90.00	O&GCWM 16gas 20oil 24water 40mud	1.26
60.00	Clean Oil	0.84

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

~~Marcotte 3"B"~~ **KEAS 3'3"**

3425 Tam O'Shanter
Lawrence Ks 66047

36-9s-2ow Rooks

Job Ticket: 20886

DST#: 1

ATTN: Tom Raney

Test Start: 2004.11.07 @ 01:44:08

Tool Information

Drill Pipe:	Length: 3661.00 ft	Diameter: 3.80 inches	Volume: 51.35 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 51.94 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3792.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.02 ft				
Tool Length:	40.02 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			3772.00	
Shut In Tool	5.00			3777.00	
Hydraulic tool	5.00			3782.00	
Packer	5.00			3787.00	21.00 Bottom Of Top Packer
Packer	5.00			3792.00	
Stubb	1.00			3793.00	
Recorder	0.01	6668	Inside	3793.01	
Perforations	15.00			3808.01	
Recorder	0.01	13547	Outside	3808.02	
Bullnose	3.00			3811.02	19.02 Bottom Packers & Anchor
Total Tool Length:	40.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raney Oil

3425 Tam O'Shanter
Lawrence Ks 66047

ATTN: Tom Raney

~~Marcotte 3"B"~~ **KENS B' 3**

36-9s-2ow Rooks

Job Ticket: 20886

DST#: 1

Test Start: 2004.11.07 @ 01:44:08

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.96 in³

Resistivity: ohm.m

Salinity: 5600.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

26 deg API

32000 ppm

ft

bbbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	water	2.273
60.00	O&GCMW 5gas 10oil 51water 34mud	0.842
90.00	O&GCWM 16gas 20oil 24water 40mud	1.262
60.00	Clean Oil	0.842

Total Length: 450.00 ft

Total Volume: 5.219 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.32@47F

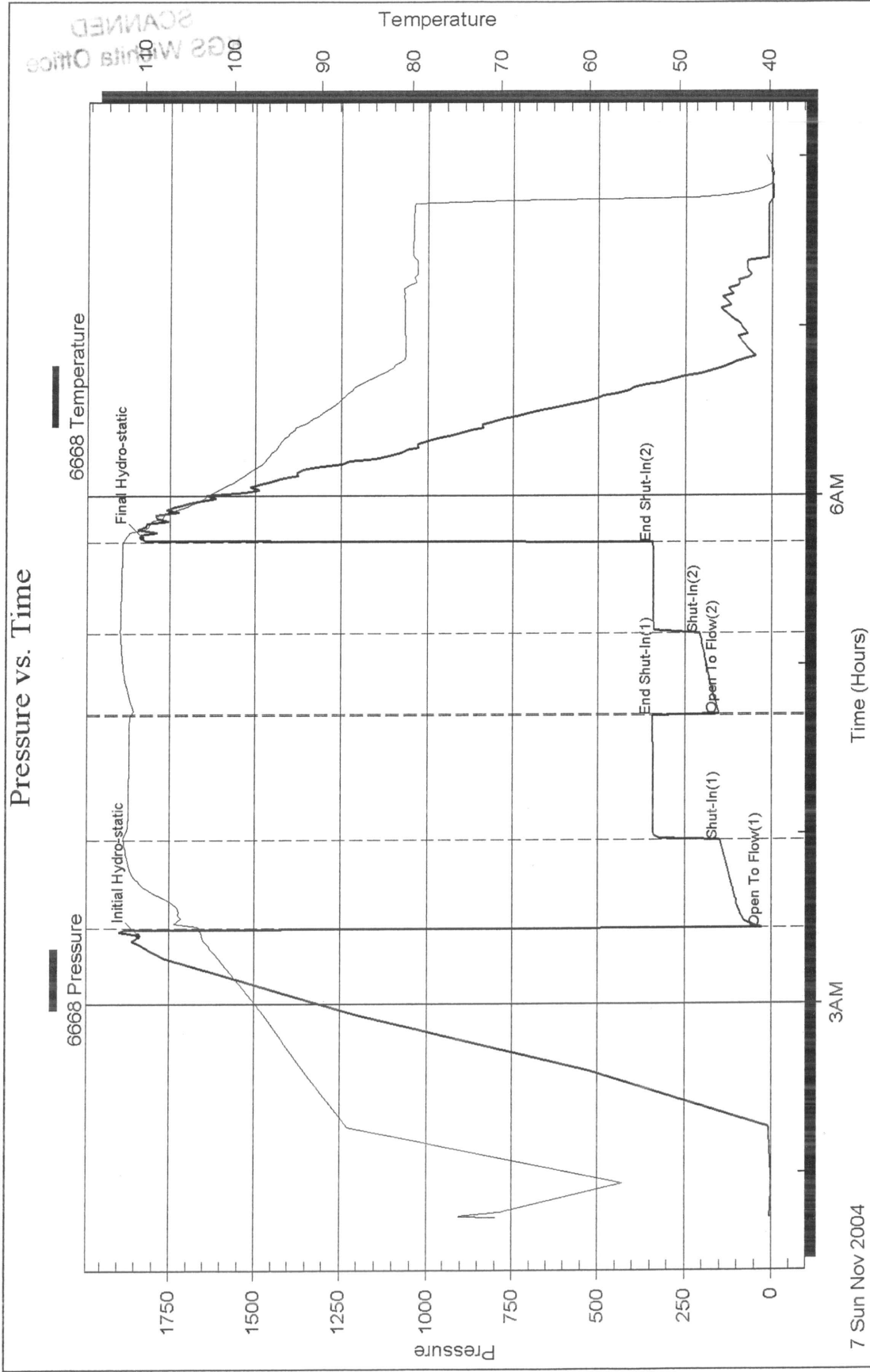
Serial #: 6668

Inside

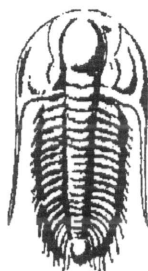
Raney Oil

36-9s-2ow Rocks

DST Test Number: 1



36-9-20W



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raney Oil**

3425 Tam O'Shanter
Lawrence Ks 66047

ATTN: Tom Raney

36-9s-20w Rooks

Marcotte 3"B"

KEAS 'B' 3

Start Date: 2004.11.07 @ 17:12:00

End Date: 2004.11.07 @ 22:25:59

Job Ticket #: 20887

DST #: 2

MTD - WWSL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Raney Oil
3425 Tam O'Shanter
Lawrence Ks 66047
ATTN: Tom Raney

Marcotte 3"B KENS B' 3

36-9s-2ow Rooks

Job Ticket: 20887 DST#: 2

Test Start: 2004.11.07 @ 17:12:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:04:29
Time Test Ended: 22:25:59

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 28

Interval: **3816.00 ft (KB) To 3824.00 ft (KB) (TVD)**
Total Depth: 3824.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2258.00 ft (KB)
2253.00 ft (CF)
KB to GR/CF: 5.00 ft

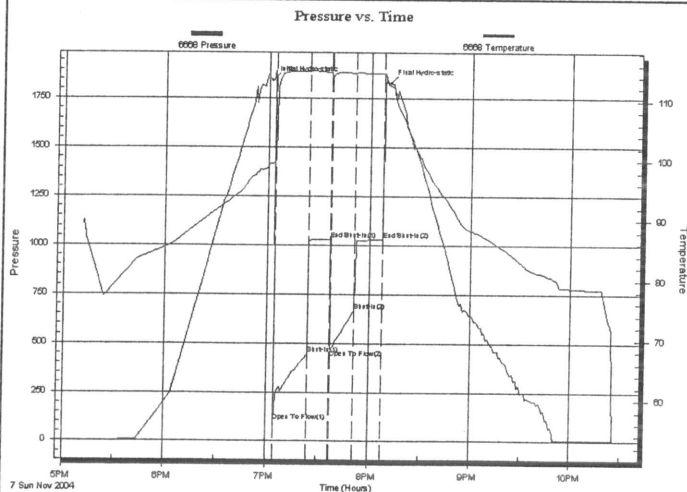
Serial #: 6668

Inside

Press@RunDepth: 666.89 psig @ 3817.01 ft (KB)
Start Date: 2004.11.07 End Date: 2004.11.07
Start Time: 17:12:00 End Time: 22:25:59

Capacity: 7000.00 psig
Last Calib.: 2004.11.07
Time On Btm: 2004.11.07 @ 19:01:59
Time Off Btm: 2004.11.07 @ 20:11:29

TEST COMMENT: IFP- strg bl in 1 min
FFP-strg bl in 4 min
Times 15-15-15-15
no bl on shut-in



PRESSURE SUMMARY

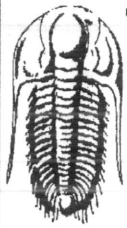
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.24	99.54	Initial Hydro-static
3	98.55	100.33	Open To Flow (1)
22	442.97	114.99	Shut-In (1)
35	1029.98	114.78	End Shut-In (1)
36	467.56	114.04	Open To Flow (2)
50	666.89	114.65	Shut-In (2)
66	1029.24	114.56	End Shut-In (2)
70	1829.46	112.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	SOCMW 3oil 75w ater 22mud	1.08
1165.00	water RW .24@70F	16.34

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

3425 Tam O'Shanter
Lawrence Ks 66047

ATTN: Tom Raney

~~Marcotte 3" B"~~

KEAS B' 3

36-9s-2ow Rooks

Job Ticket: 20887

DST#: 2

Test Start: 2004.11.07 @ 17:12:00

Tool Information

Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 52.35 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3816.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.01 ft				
Tool Length:	29.01 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			3796.00	
Shut In Tool	5.00			3801.00	
Hydraulic tool	5.00			3806.00	
Packer	5.00			3811.00	21.00 Bottom Of Top Packer
Packer	5.00			3816.00	
Stubb	1.00			3817.00	
Recorder	0.01	6668	Inside	3817.01	
Perforations	4.00			3821.01	
Bullnose	3.00			3824.01	8.01 Bottom Packers & Anchor
Total Tool Length:	29.01				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Raney Oil

~~Marcotte 3"B"~~ **KEAS '8' 3**

3425 Tam O'Shanter
Lawrence Ks 66047

36-9s-2ow Rooks

Job Ticket: 20887

DST#: 2

ATTN: Tom Raney

Test Start: 2004.11.07 @ 17:12:00

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:

29000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	SOCMW 3oil 75w ater 22mud	1.081
1165.00	water RW .24@70F	16.342

Total Length: 1320.00 ft

Total Volume:

17.423 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

Inside

Raney Oil

36-9s-2ow Rocks

DST Test Number: 2

