

DRILL STEM TEST REPORT

Prepared For: **Denis Roberts Oil**

P O Box 1252
Hays, KS 67601

ATTN: Denis Roberts

24-19s-29w Lane KS

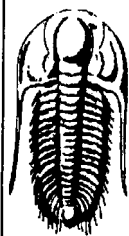
Martin #1

Start Date: 2001.11.06 @ 15:48:18

End Date: 2001.11.06 @ 21:49:03

Job Ticket #: 14891 DST #: 1

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Denis Roberts Oil

P O Box 1252
Hays, KS 67601

ATTN: Denis Roberts

Martin #1

24-19s-29w Lane KS

Job Ticket: 14891

DST#: 1

Test Start: 2001.11.06 @ 15:48:18

GENERAL INFORMATION:

Formation: **Altamont A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:21:18

Time Test Ended: 21:49:03

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4450.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Total Depth: 4500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2826.00 ft (KB)

2818.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 3030

Inside

Press@RunDepth: 41.64 psig @ 4451.00 ft (KB)

Start Date: 2001.11.06

End Date:

2001.11.06

Start Time: 15:48:23

End Time:

21:49:02

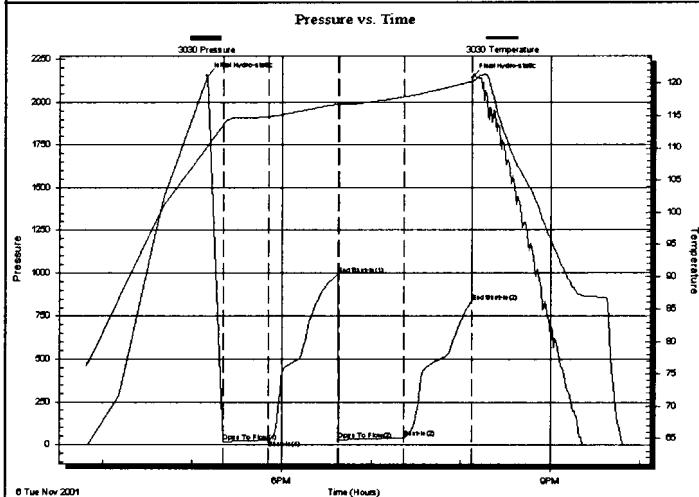
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2001.11.06 @ 17:10:18

Time Off Btm: 2001.11.06 @ 20:07:32

TEST COMMENT: IF; Weak surface blow built to 1/2"
FF; Weak surface blow steady thru



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.51	110.19	Initial Hydro-static
11	17.21	113.73	Open To Flow (1)
41	27.98	114.90	Shut-In(1)
87	989.69	116.84	End Shut-In(1)
88	29.74	116.85	Open To Flow (2)
132	41.64	117.92	Shut-In(2)
177	833.89	120.30	End Shut-In(2)
178	2142.92	120.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM 10%OIL 90%MUD	0.70

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Denis Roberts Oil

Martin #1

P O Box 1252
Hays, KS 67601

24-19s-29w Lane KS

Job Ticket: 14891

DST#: 1

ATTN: Denis Roberts

Test Start: 2001.11.06 @ 15:48:18

Tool Information

Drill Pipe:	Length: 4437.00 ft	Diameter: 3.80 inches	Volume: 62.24 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 62.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4450.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4430.00	
S.I. Tool	5.00			4435.00	
HMV	5.00			4440.00	
Packer	5.00			4445.00	21.00 Bottom Of Top Packer
Packer	5.00			4450.00	
Stubb	1.00			4451.00	
Recorder	0.00	3030	Inside	4451.00	
Perforations	11.00			4462.00	
C.O. Sub	1.00			4463.00	
Anchor	31.00			4494.00	
C.O. Sub	1.00			4495.00	
Recorder	0.00	13371	Outside	4495.00	
Bullnose	5.00			4500.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Denis Roberts Oil

Martin #1

P O Box 1252
Hays, KS 67601

24-19s-29w Lane KS

Job Ticket: 14891

DST#: 1

ATTN: Denis Roberts

Test Start: 2001.11.06 @ 15:48:18

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OCM 10%OIL 90%MUD	0.701

Total Length: 50.00 ft

Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

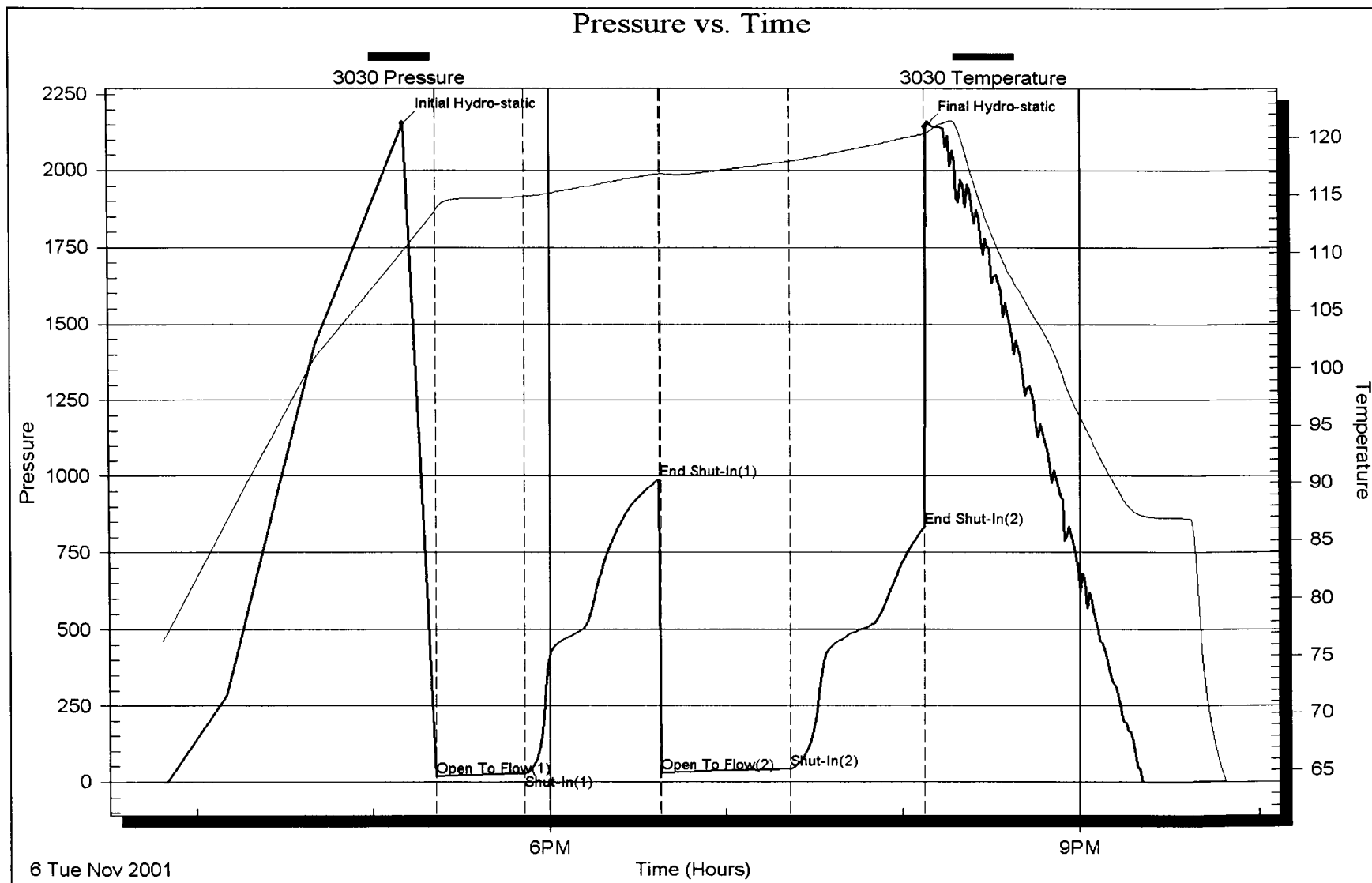
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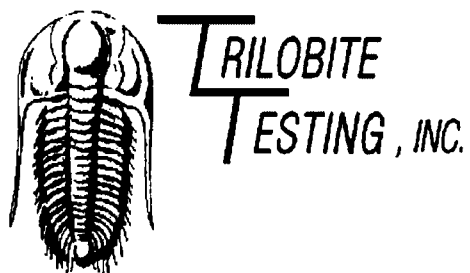
Serial #: 3030

Inside Denis Roberts Oil

24-19s-29w Lane KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Denis Roberts Oil**

P O Box 1252
Hays, KS 67601

ATTN: Denis Roberts

24-19s-29w Lane KS

Martin #1

Start Date: 2001.11.07 @ 14:40:57

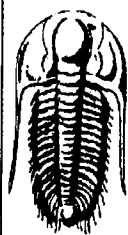
End Date: 2001.11.07 @ 19:53:57

Job Ticket #: 14892 DST #: 2

Trilobite Testing, Inc

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Denis Roberts Oil

Martin #1

P O Box 1252

24-19s-29w Lane KS

Hays, KS 67601

Job Ticket: 14892

DST#: 2

ATTN: Denis Roberts

Test Start: 2001.11.07 @ 14:40:57

GENERAL INFORMATION:

Formation: **Johnson Cong**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:12:57

Time Test Ended: 19:53:57

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4609.00 ft (KB) To 4662.00 ft (KB) (TVD)**

Reference Elevations: 2826.00 ft (KB)

Total Depth: 4662.00 ft (KB) (TVD)

2818.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3030

Inside

Press@RunDepth: 28.62 psig @ 4610.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.11.07

End Date:

2001.11.07

Last Calib.: 1899.12.30

Start Time: 14:41:02

End Time:

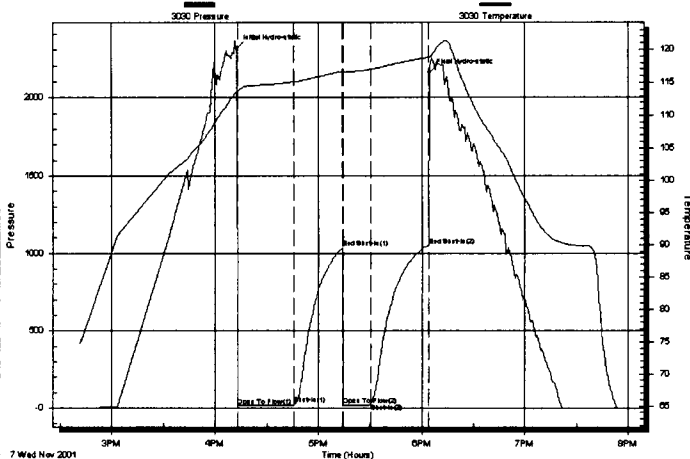
19:53:56

Time On Btm: 2001.11.07 @ 16:12:42

Time Off Btm: 2001.11.07 @ 18:04:27

TEST COMMENT: IF; Very weak blow died in 5 mins
FF; No return

Pressure vs. Time



PRESSURE SUMMARY

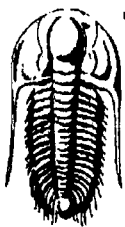
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.02	113.61	Initial Hydro-static
1	16.22	113.67	Open To Flow (1)
33	22.87	115.12	Shut-In(1)
61	1035.91	116.65	End Shut-In(1)
62	18.71	116.67	Open To Flow (2)
78	28.62	117.00	Shut-In(2)
112	1045.26	118.82	End Shut-In(2)
112	2158.34	118.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilg. Mud	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Denis Roberts Oil

Martin #1

P O Box 1252
Hays, KS 67601

24-19s-29w Lane KS

Job Ticket: 14892

DST#: 2

ATTN: Denis Roberts

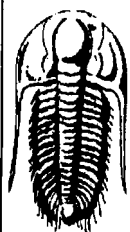
Test Start: 2001.11.07 @ 14:40:57

Tool Information

Drill Pipe:	Length: 4592.00 ft	Diameter: 3.80 inches	Volume: 64.41 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 64.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4609.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4589.00	
S.I. Tool	5.00			4594.00	
HMV	5.00			4599.00	
Packer	5.00			4604.00	21.00 Bottom Of Top Packer
Packer	5.00			4609.00	
Stubb	1.00			4610.00	
Recorder	0.00	3030	Inside	4610.00	
Perforations	14.00			4624.00	
C.O. Sub	1.00			4625.00	
Anchor	31.00			4656.00	
C.O. Sub	1.00			4657.00	
Recorder	0.00	13371	Outside	4657.00	
Bullnose	5.00			4662.00	53.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Denis Roberts Oil

Martin #1

P O Box 1252
Hays, KS 67601

24-19s-29w Lane KS

Job Ticket: 14892

DST#: 2

ATTN: Denis Roberts

Test Start: 2001.11.07 @ 14:40:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig. Mud	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

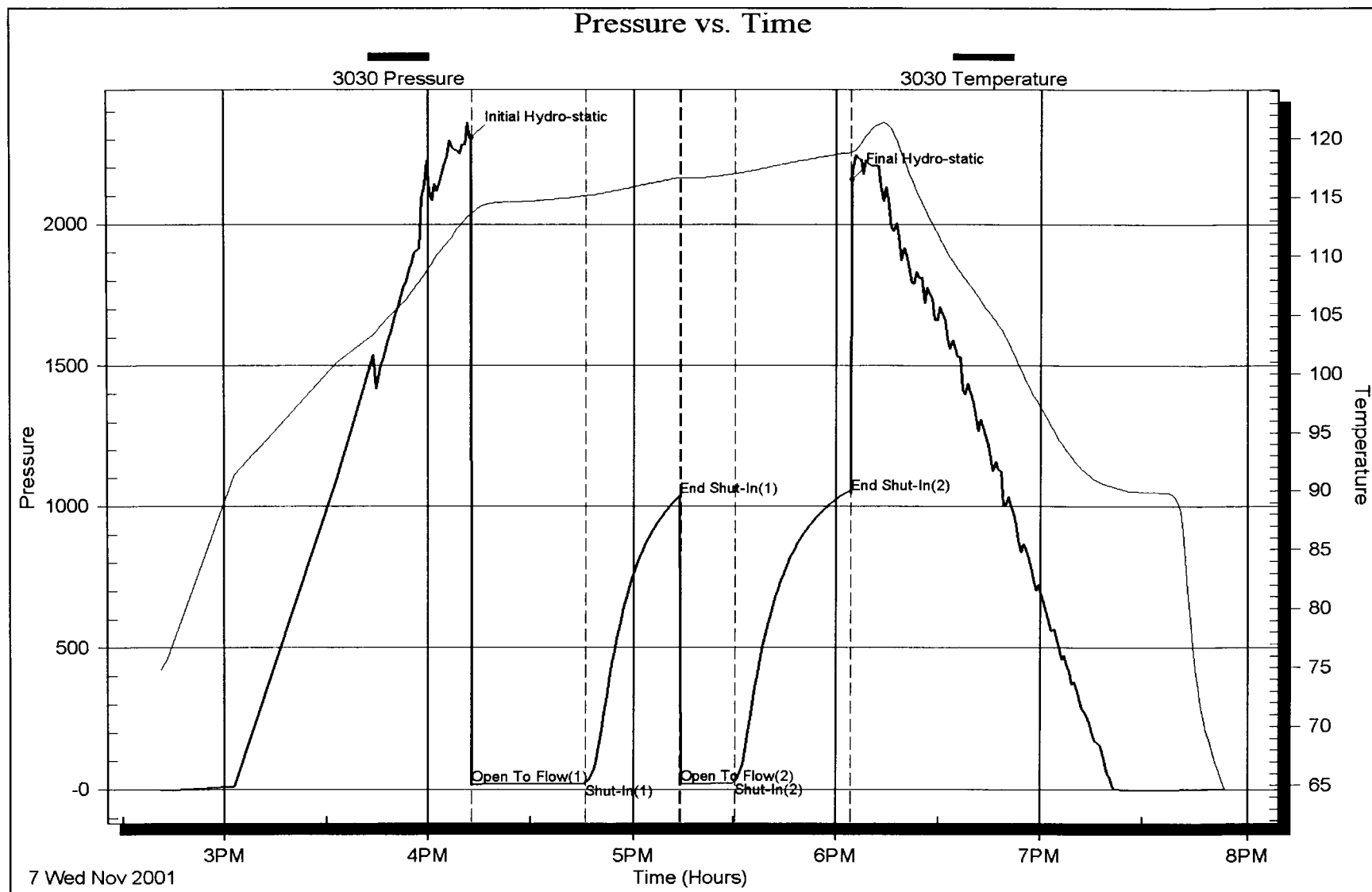
Num Gas Bombs: 0

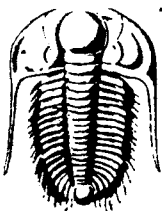
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14891

Test Ticket

Well Name & No.	Martin #1	Test No.	1	Date	11-6-01
Company	Denis Roberts Oil	Zone Tested	Altamont A-B		
Address	P.O. Box 1252 Hays, KS 67601	Elevation	2826	KB	2818 GL
Co. Rep / Geo.	Randy Kilian	Cont.	Discovery #1	Est. Ft. of Pay	Por. %
Location: Sec.	24	Twp.	19 ^S	Rge.	29 ^W
		Co.	Lane	State	KS.
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	4450 - 4500	Initial Str Wt./Lbs.	45,000	Unseated Str Wt./Lbs.	45,000
Anchor Length	50'	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	60,000
Top Packer Depth	4445	Tool Weight			
Bottom Packer Depth	4450	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	4500	Wt. Pipe Run		Drill Collar Run	
Mud Wt.	9.3	LCM		Vis.	52
		WL	8.2	Drill Pipe Size	4 1/2" XH
Blow Description	IF: Weak surface blow built to 1/2"				

FF: Weak surface blow steady thru.

Recovery — Total Feet	50'	GIP	—	Ft. in DC	—	Ft. in DP	50'
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	50'	Feet Of	OCM	%gas	10	%oil	%water 90 %mud
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
BHT	120°	°F Gravity		°API D@		°F Corrected Gravity	
RW	@	°F Chlorides		ppm Recovery		Chlorides	1,200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2152	PSI Recorder No.	3030	T-On Location	1445
(B) First Initial Flow Pressure			17	PSI (depth)	4451	T-Started	1548
(C) First Final Flow Pressure			27	PSI Recorder No.	13371	T-Open	1721
(D) Initial Shut-In Pressure			989	PSI (depth)	4495	T-Pulled	2007
(E) Second Initial Flow Pressure			29	PSI Recorder No.		T-Out	2149
(F) Second Final Flow Pressure			41	PSI (depth)		T-Off Location	2245
(G) Final Shut-in Pressure			832	PSI Initial Opening	30	Test	200
(Q) Final Hydrostatic Mud			2116	PSI Initial Shut-in	45	Jars	
				Final Flow	45	Safety Joint	
				Final Shut-in	45	Straddle	

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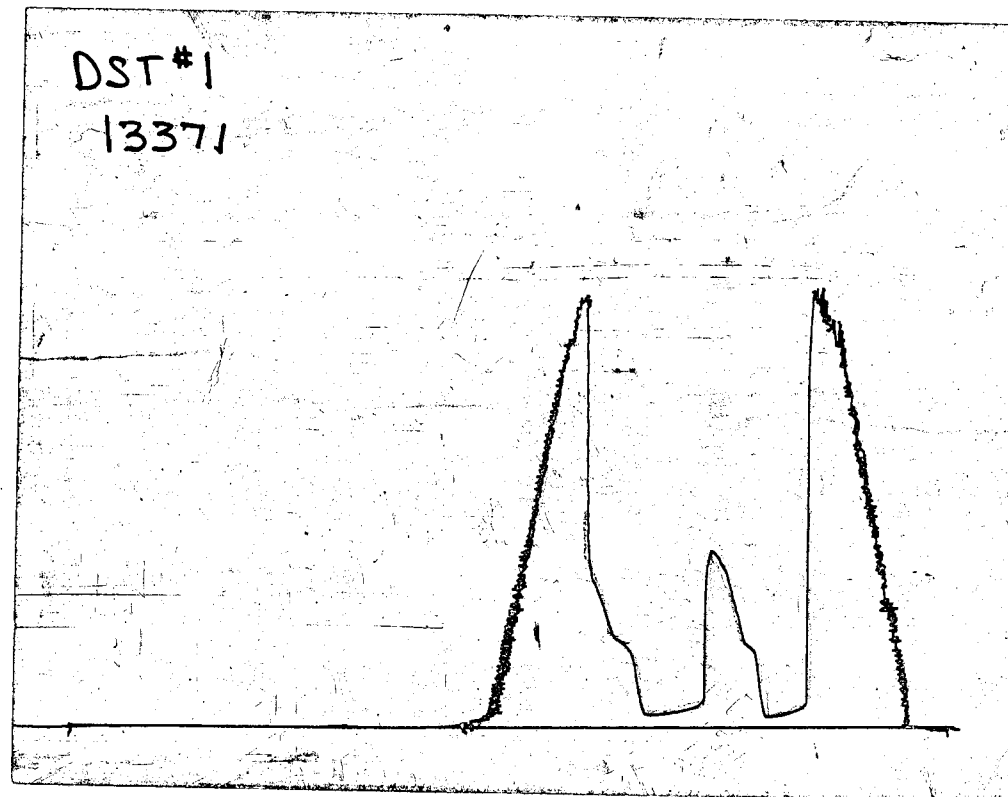
Approved By Randy Kilian

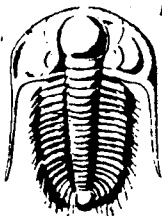
Our Representative Rod Steinbrink

Circ. Sub X MC
Sampler
Extra Packer
Elec. Rec. X 150
Mileage 32
Other
TOTAL PRICE \$ 982

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14892

Test Ticket

Well Name & No.	<u>Martin #1</u>	Test No.	<u>2</u>	Date	<u>11-7-01</u>
Company	<u>Denis Roberts Oil</u>	Zone Tested	<u>Johnson Cong.</u>		
Address	<u>P.O. Box 1252 Hays, KS. 67601</u>	Elevation	<u>2826</u>	KB	<u>2818</u> GL
Co. Rep / Geo.	<u>Randy Kilian</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>24</u>	Twp.	<u>19^S</u>	Rge.	<u>29^W</u>
		Co.	<u>Lane</u>	State	<u>KS.</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u>
		Evaluation (Y, N)	<u> </u>		

Interval Tested	<u>4609 - 4662</u>	Initial Str Wt./Lbs.	<u>45,000</u>	Unseated Str Wt./Lbs.	<u>45,000</u>
Anchor Length	<u>53'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>55,000</u>
Top Packer Depth	<u>4604</u>	Tool Weight	<u> </u>		
Bottom Packer Depth	<u>4609</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Total Depth	<u>4662</u>	Wt. Pipe Run	<u> </u>	Drill Collar Run	<u> </u>
Mud Wt. <u>9.5</u> LCM	Vis. <u>47</u> WL <u>8.6</u>	Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>4592'</u>
Blow Description	<u>IF: Very weak blow died in 5 mins.</u>				

FF: No return

Recovery — Total Feet	<u>5'</u>	GIP	<u> </u>	Ft. in DC	<u> </u>	Ft. in DP	<u>5'</u>
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	<u>5'</u> Feet Of <u>Drlg Mud</u>	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
BHT	<u>118°</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>
RW	@	°F Chlorides	<u> </u>	ppm Recovery	<u> </u>	Chlorides	<u>1600</u> ppm System

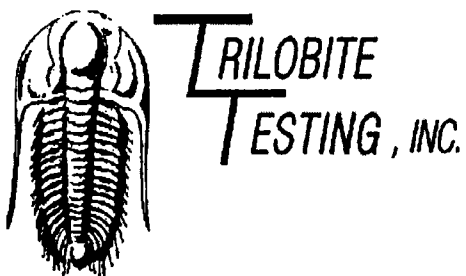
(A) Initial Hydrostatic Mud	<u>2307</u> PSI	Recorder No.	<u>3030</u>	T-On Location	<u>1345</u>
(B) First Initial Flow Pressure	<u>16</u> PSI	(depth)	<u>4610</u>	T-Started	<u>1440</u>
(C) First Final Flow Pressure	<u>18</u> PSI	Recorder No.	<u>13371</u>	T-Open	<u>1612</u>
(D) Initial Shut-In Pressure	<u>1033</u> PSI	(depth)	<u>4657</u>	T-Pulled	<u>1803</u>
(E) Second Initial Flow Pressure	<u>18</u> PSI	Recorder No.	<u> </u>	T-Out	<u>1953</u>
(F) Second Final Flow Pressure	<u>28</u> PSI	(depth)	<u> </u>	T-Off Location	<u> </u>
(G) Final Shut-in Pressure	<u>1055</u> PSI	Initial Opening	<u>30</u>	Test	<u>X 800</u>
(Q) Final Hydrostatic Mud	<u>2273</u> PSI	Initial Shut-in	<u>30</u>	Jars	<u> </u>
		Final Flow	<u>15</u>	Safety Joint	<u> </u>
		Final Shut-in	<u>30</u>	Straddle	<u> </u>
				Circ. Sub	<u>X N/C</u>
				Sampler	<u> </u>
				Extra Packer	<u> </u>
				Elec. Rec.	<u>X 150</u>
				Mileage	<u>32</u>
				Other	<u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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.

Approved By Randy Kilian

Our Representative Rod Steinbrink

TOTAL PRICE \$ 982



DRILL STEM TEST REPORT

Prepared For: **Denis Roberts Oil**

P O Box 1252
Hays, KS 67601

ATTN: Denis Roberts

24-19s-29w Lane KS

Martin #1

Start Date: 2001.11.06 @ 15:48:18

End Date: 2001.11.06 @ 21:49:03

Job Ticket #: 14891 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Denis Roberts Oil

Martin #1

P O Box 1252
Hays, KS 67601

24-19s-29w Lane KS

Job Ticket: 14891

DST#: 1

ATTN: Denis Roberts

Test Start: 2001.11.06 @ 15:48:18

Tool Information

Drill Pipe:	Length: 4437.00 ft	Diameter: 3.80 inches	Volume: 62.24 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 62.24 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4450.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4430.00	
S.I. Tool	5.00			4435.00	
HMV	5.00			4440.00	
Packer	5.00			4445.00	21.00 Bottom Of Top Packer
Packer	5.00			4450.00	
Stubb	1.00			4451.00	
Recorder	0.00	3030	Inside	4451.00	
Perforations	11.00			4462.00	
C.O. Sub	1.00			4463.00	
Anchor	31.00			4494.00	
C.O. Sub	1.00			4495.00	
Recorder	0.00	13371	Outside	4495.00	
Bullnose	5.00			4500.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00

