

DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp**

303N Carroll Blvd
#214
Denton Texas 76201

ATTN: Hal Porter

29-11s-20w Ellis Ks

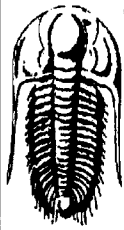
Linda Unit #29-1

Start Date: 2002.07.11 @ 23:52:34

End Date: 2002.07.12 @ 07:44:03

Job Ticket #: 16430 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

Imperial American Oil Corp

Linda Unit #29-1

303N Carroll Blvd
#214
Denton Texas 76201
ATTN: Hal Porter

29-11s-20w Ellis Ks

Job Ticket: 16430 **DST#: 1**

Test Start: 2002.07.11 @ 23:52:34

GENERAL INFORMATION:

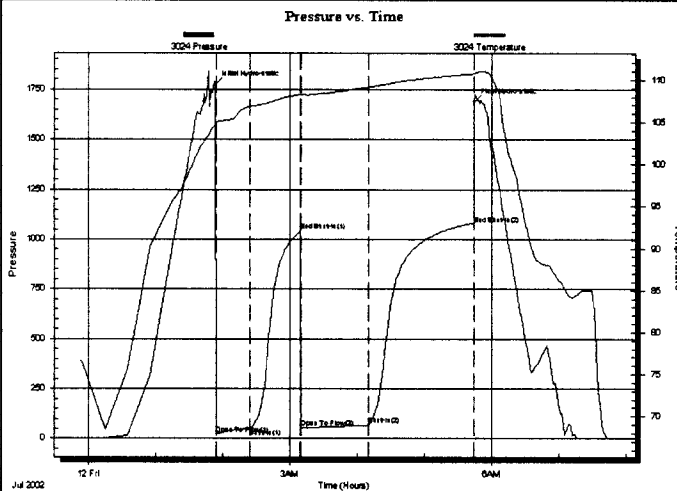
Formation: **Tor.-LKC"D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:54:03
 Time Test Ended: 07:44:03
 Interval: **3562.00 ft (KB) To 3670.00 ft (KB) (TVD)**
 Total Depth: 3670.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 16
 Reference Elevations: 2283.00 ft (KB)
 2278.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 3024

Inside

Press@RunDepth: 69.52 psig @ 3567.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2002.07.11 End Date: 2002.07.12 Last Calib.: 2001.01.12
 Start Time: 23:52:34 End Time: 07:44:03 Time On Btm: 2002.07.12 @ 01:53:33
 Time Off Btm: 2002.07.12 @ 05:44:03

TEST COMMENT: IFP-w k bl thru-out 1/2" to 1 1/2" bl
 FFP-w k bl thru-out 1" to 2" bl
 Times 30-45-60-90
 no bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.28	104.77	Initial Hydro-static
1	22.68	104.87	Open To Flow (1)
31	52.30	106.83	Shut-In(1)
76	1041.02	108.29	End Shut-In(1)
77	55.28	108.32	Open To Flow (2)
137	69.52	109.14	Shut-In(2)
230	1078.15	110.73	End Shut-In(2)
231	1689.26	110.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	HOCM 30%oil70% mud	0.72
10.00	Clean Oil	0.14
60.00	GIP	0.84

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp

Linda Unit #29-1

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Denton Texas 76201
ATTN: Hal Porter

29-11s-20w Ellis Ks

Job Ticket: 16430 **DST#: 1**

Test Start: 2002.07.11 @ 23:52:34

Tool Information

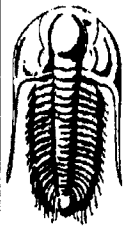
Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 48.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3562.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.02 ft			
Tool Length:	129.02 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			3542.00	
Shut In Tool	5.00			3547.00	
Hydraulic tool	5.00			3552.00	
Packer	5.00			3557.00	21.00 Bottom Of Top Packer
Packer	5.00			3562.00	
Stubb	1.00			3563.00	
Perforations	3.00			3566.00	
Change Over Sub	1.00			3567.00	
Recorder	0.01	3024	Inside	3567.01	
Blank Spacing	63.00			3630.01	
Change Over Sub	1.00			3631.01	
Perforations	36.00			3667.01	
Recorder	0.01	11085	Outside	3667.02	
Bullnose	3.00			3670.02	108.02 Bottom Packers & Anchor

Total Tool Length: 129.02



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oil Corp

Linda Unit #29-1

303N Carroll Blvd
#214
Denton Texas 76201
ATTN: Hal Porter

29-11s-20w Ellis Ks
Job Ticket: 16430 **DST#: 1**
Test Start: 2002.07.11 @ 23:52:34

Mud and Cushion Information

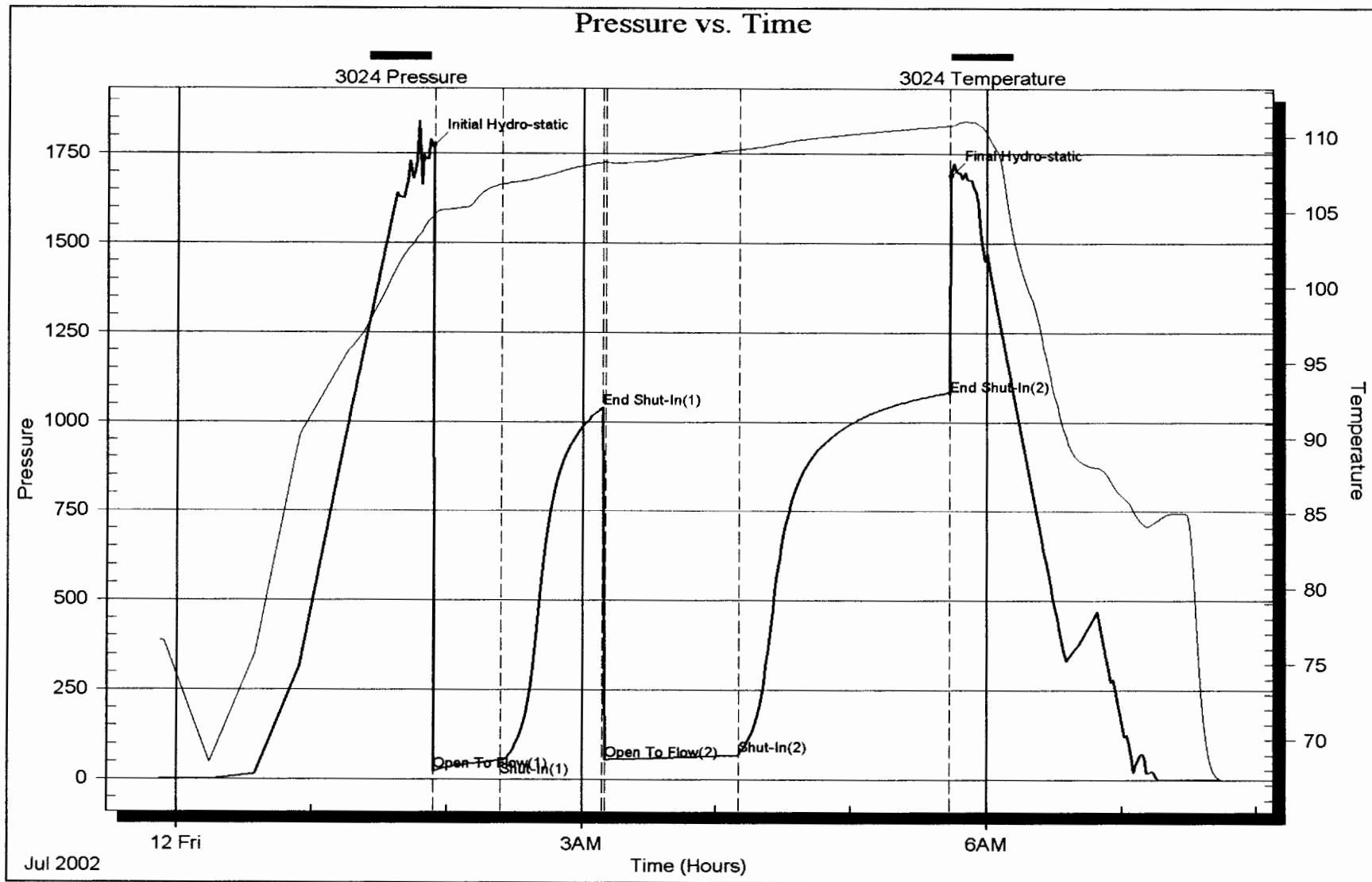
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.35 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

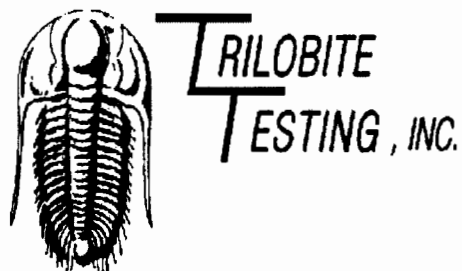
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	HOCM 30%oil70%mud	0.723
10.00	Clean Oil	0.140
60.00	GIP	0.842

Total Length: 180.00 ft Total Volume: 1.705 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





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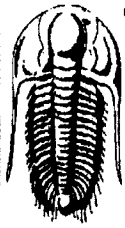
Linda Unit #29-1

Start Date: 2002.07.12 @ 15:02:37

End Date: 2002.07.12 @ 20:08:36

Job Ticket #: 16431 DST #: 2

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



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DRILL STEM TEST REPORT

Imperial American Oil Corp
303N Carroll Blvd
#214
Denton Texas 76201
ATTN: Hal Porter

Linda Unit #29-1
29-11s-20w Ellis Ks
Job Ticket: 16431 **DST#: 2**
Test Start: 2002.07.12 @ 15:02:37

GENERAL INFORMATION:

Formation: **LKC "F-G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:37:36
Time Test Ended: 20:08:36
Interval: **3665.00 ft (KB) To 3703.00 ft (KB) (TVD)**
Total Depth: 3703.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16
Reference Elevations: 2283.00 ft (KB)
2278.00 ft (CF)
KB to GR/CF: 5.00 ft

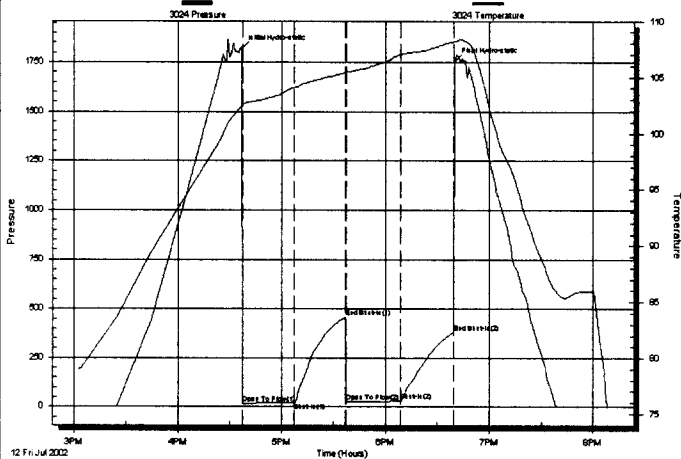
Serial #: 3024

Inside

Press@RunDepth: 29.47 psig @ 3671.01 ft (KB)
Start Date: 2002.07.12 End Date: 2002.07.12
Start Time: 15:02:37 End Time: 20:08:36
Capacity: 7000.00 psig
Last Calib.: 2001.01.12
Time On Btm: 2002.07.12 @ 16:37:06
Time Off Btm: 2002.07.12 @ 18:40:06

TEST COMMENT: IFF-w k surface bl died in 25 min
FFP-no bl
Times 30-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.68	102.45	Initial Hydro-static
1	16.03	102.56	Open To Flow (1)
30	23.24	104.04	Shut-In(1)
60	459.71	105.40	End Shut-In(1)
61	23.98	105.42	Open To Flow (2)
92	29.47	107.01	Shut-In(2)
123	380.32	108.16	End Shut-In(2)
123	1754.97	108.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w/show of oil	0.05

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp

Linda Unit #29-1

303N Carroll Blvd
#214
Denton Texas 76201
ATTN: Hal Porter

29-11s-20w Ellis Ks
Job Ticket: 16431 **DST#: 2**
Test Start: 2002.07.12 @ 15:02:37

Tool Information

Drill Pipe:	Length: 3580.00 ft	Diameter: 3.80 inches	Volume: 50.22 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3665.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.02 ft			
Tool Length:	59.02 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			3645.00	
Shut In Tool	5.00			3650.00	
Hydraulic tool	5.00			3655.00	
Packer	5.00			3660.00	21.00 Bottom Of Top Packer
Packer	5.00			3665.00	
Stubb	1.00			3666.00	
Perforations	5.00			3671.00	
Recorder	0.01	3024	Inside	3671.01	
Perforations	29.00			3700.01	
Recorder	0.01	11085	Outside	3700.02	
Bullnose	3.00			3703.02	38.02 Bottom Packers & Anchor

Total Tool Length: 59.02



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FLUID SUMMARY

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ATTN: Hal Porter

29-11s-20w Ellis Ks
Job Ticket: 16431 **DST#: 2**
Test Start: 2002.07.12 @ 15:02:37

Mud and Cushion Information

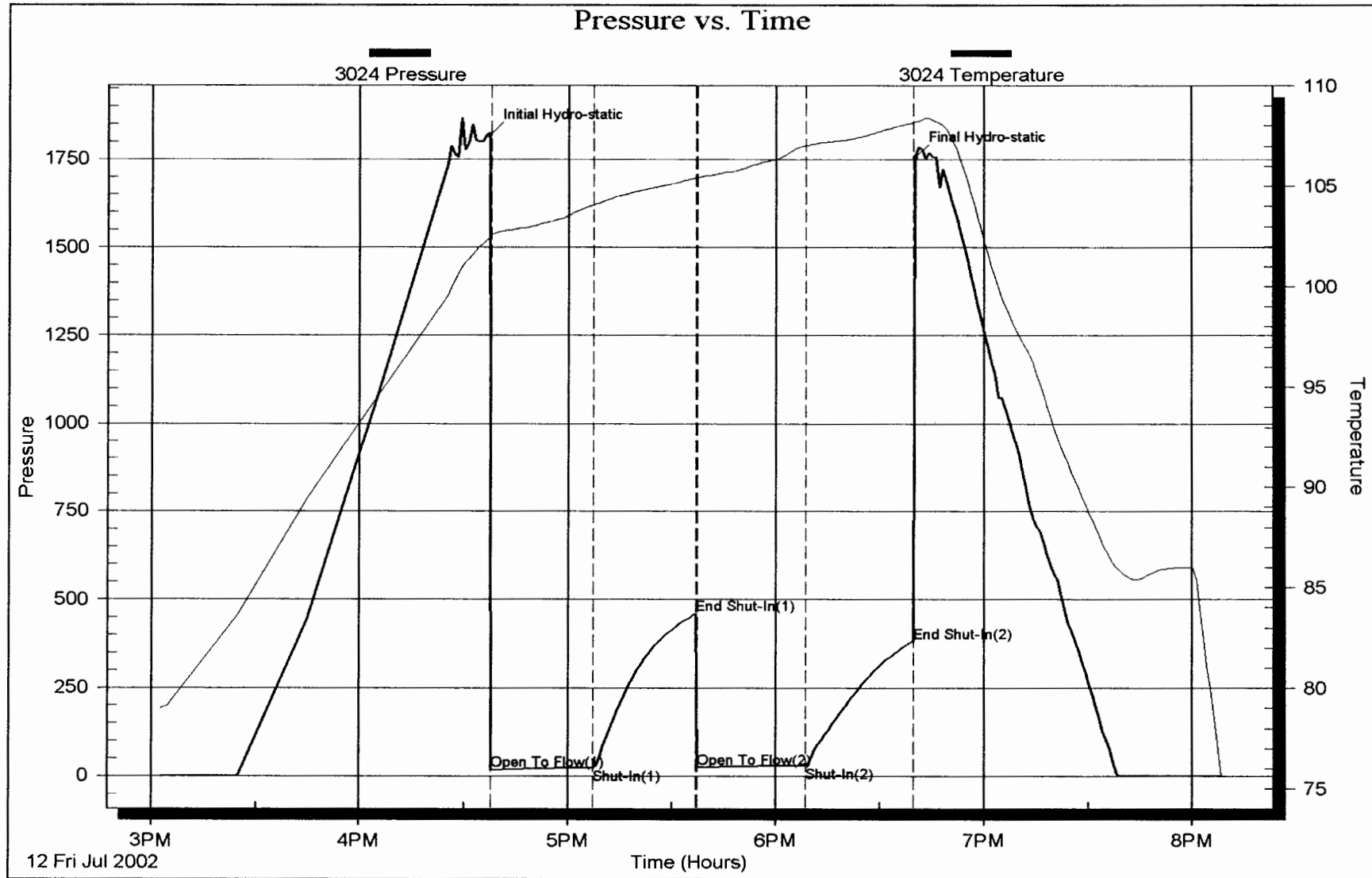
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: 2.00 inches			

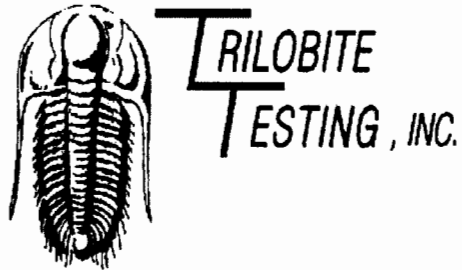
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud w/show of oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

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303N Carroll Blvd
#214
Denton Texas 76201

ATTN: Hal Porter

29-11s-20w Ellis Ks

Linda Unit #29-1

Start Date: 2002.07.13 @ 10:04:42

End Date: 2002.07.13 @ 15:31:42

Job Ticket #: 16432 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Imperial American Oil Corp

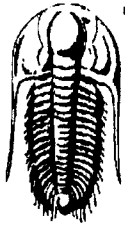
Linda Unit #29-1

29-11s-20w Ellis Ks

DST # 3

Lansing H-L

2002.07.13



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 303N Carroll Blvd
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 Denton Texas 76201
 ATTN: Hal Porter

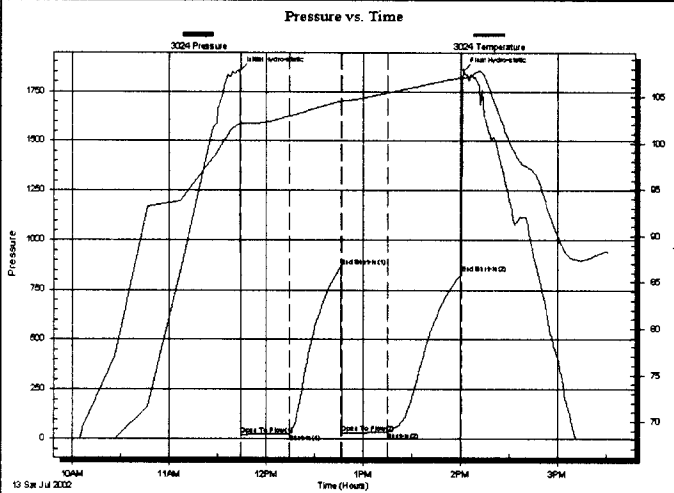
Linda Unit #29-1
29-11s-20w Ellis Ks
 Job Ticket: 16432 **DST#: 3**
 Test Start: 2002.07.13 @ 10:04:42

GENERAL INFORMATION:

Formation: **Lansing H-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:44:12
 Time Test Ended: 15:31:42
 Interval: **3726.00 ft (KB) To 3840.00 ft (KB) (TVD)**
 Total Depth: 3840.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 16
 Reference Elevations: 2283.00 ft (KB)
 2278.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 3024 Inside
 Press@RunDepth: 35.01 psig @ 3733.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2002.07.13 End Date: 2002.07.13 Last Calib.: 1899.12.30
 Start Time: 10:04:43 End Time: 15:31:42 Time On Btm: 2002.07.13 @ 11:43:42
 Time Off Btm: 2002.07.13 @ 14:01:42

TEST COMMENT: IF- w k 1/4" blow decreasing to 1/8"
 FF- surface blow died in 5 minutes
 30-30-30-45



PRESSURE SUMMARY

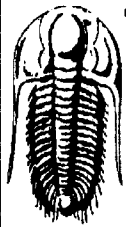
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.77	102.06	Initial Hydro-static
1	21.32	102.14	Open To Flow (1)
31	27.74	102.92	Shut-In(1)
63	869.15	104.55	End Shut-In(1)
63	30.15	104.59	Open To Flow (2)
92	35.01	105.43	Shut-In(2)
137	834.42	107.09	End Shut-In(2)
138	1853.95	107.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	sl ocm 3% oil 97% mud	0.10

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp

Linda Unit #29-1

303N Carroll Blvd
#214
Denton Texas 76201
ATTN: Hal Porter

29-11s-20w Ellis Ks

Job Ticket: 16432

DST#: 3

Test Start: 2002.07.13 @ 10:04:42

Tool Information

Drill Pipe:	Length: 3645.00 ft	Diameter: 3.80 inches	Volume: 51.13 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.56 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3726.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.02 ft			
Tool Length:	135.02 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			3706.00	
Shut In Tool	5.00			3711.00	
Hydraulic tool	5.00			3716.00	
Packer	5.00			3721.00	21.00 Bottom Of Top Packer
Packer	5.00			3726.00	
Stubb	1.00			3727.00	
Perforations	5.00			3732.00	
Change Over Sub	1.00			3733.00	
Recorder	0.01	3024	Inside	3733.01	
Blank Spacing	93.00			3826.01	
Change Over Sub	1.00			3827.01	
Perforations	10.00			3837.01	
Recorder	0.01	11085	Outside	3837.02	
Bullnose	3.00			3840.02	114.02 Bottom Packers & Anchor

Total Tool Length: 135.02



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Linda Unit #29-1
29-11s-20w Ellis Ks
Job Ticket: 16432 **DST#: 3**
Test Start: 2002.07.13 @ 10:04:42

Mud and Cushion Information

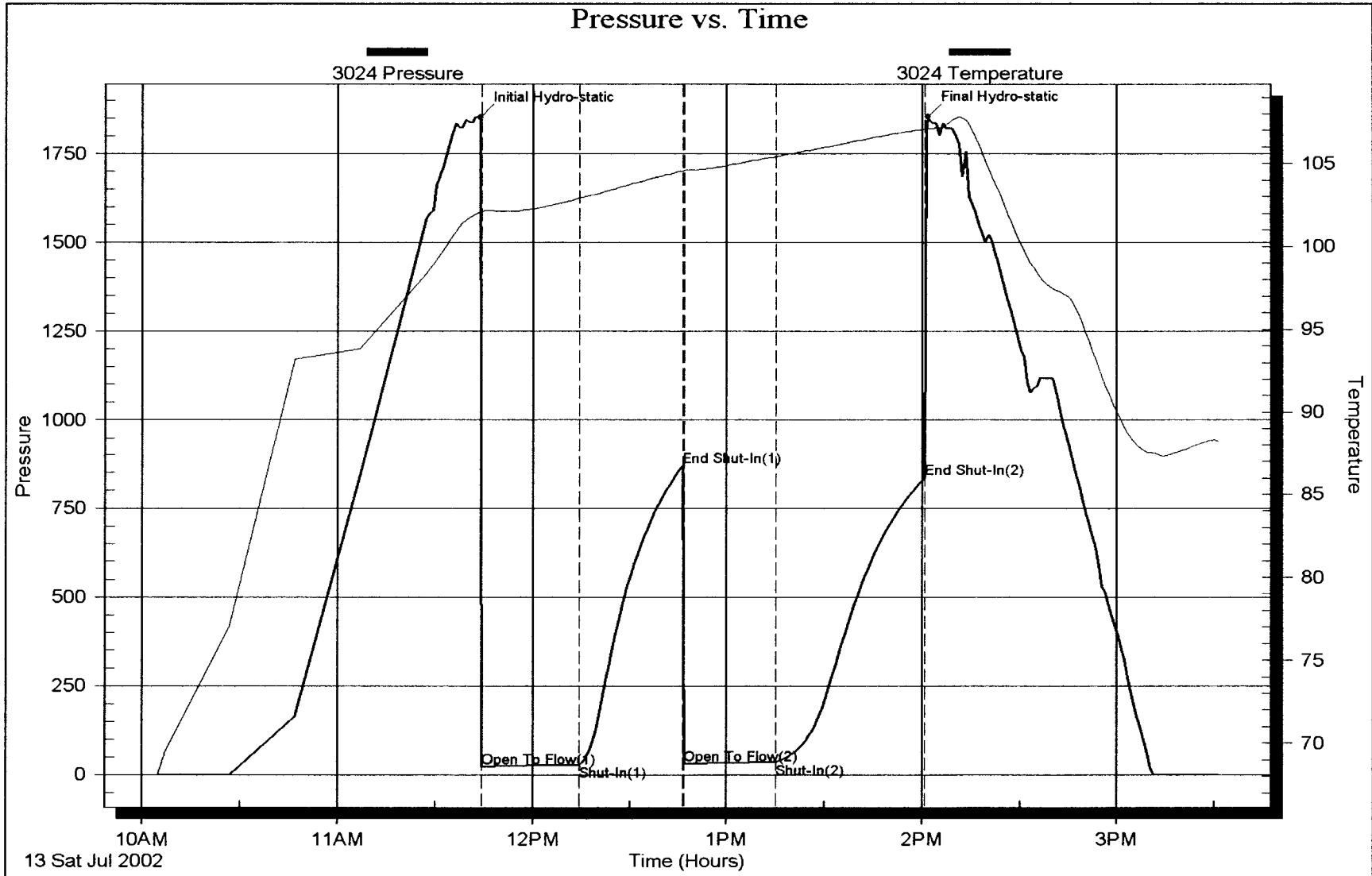
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

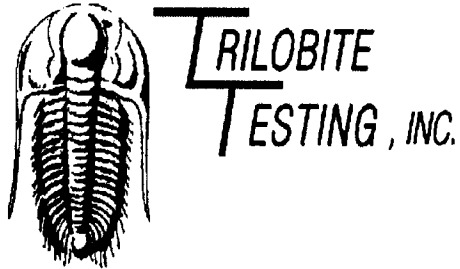
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	sl ocm 3% oil 97% mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

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ATTN: Hal Porter

29-11s-20w Ellis Ks

Linda Unit #29-1

Start Date: 2002.07.14 @ 02:39:31

End Date: 2002.07.14 @ 07:56:31

Job Ticket #: 16433 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Imperial American Oil Corp

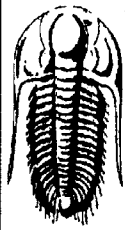
Linda Unit #29-1

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DST # 4

Arbuckle

2002.07.14



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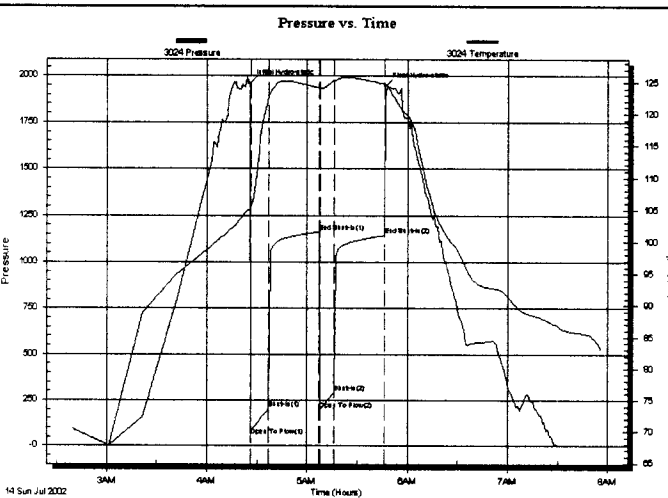
Job Ticket: 16433 **DST#: 4**
Test Start: 2002.07.14 @ 02:39:31

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:26:01
Time Test Ended: 07:56:31
Interval: **3923.00 ft (KB) To 3933.00 ft (KB) (TVD)**
Total Depth: 3933.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16
Reference Elevations: 2283.00 ft (KB)
2278.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3024 **Inside**
Press@RunDepth: 291.58 psig @ 3924.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2002.07.14 End Date: 2002.07.14 Last Calib.: 1899.12.30
Start Time: 02:39:32 End Time: 07:56:31 Time On Btm: 2002.07.14 @ 04:25:31
Time Off Btm: 2002.07.14 @ 05:46:31

TEST COMMENT: IF- strong blow bottom of bucket in 3 minutes
FF- surface blow to bottom of bucket in 6 minutes
No blow on either shutin 10-30-10-30



PRESSURE SUMMARY

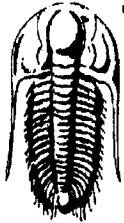
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.05	105.11	Initial Hydro-static
1	52.56	105.28	Open To Flow (1)
12	205.35	122.67	Shut-in(1)
42	1161.85	124.11	End Shut-in(1)
42	199.42	124.04	Open To Flow (2)
51	291.58	125.22	Shut-in(2)
81	1142.70	124.78	End Shut-in(2)
81	1946.27	124.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
590.00	muddy salt water 5% mud 95% water	7.47

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp
303N Carroll Blvd
#214
Denton Texas 76201
ATTN: Hal Porter

Linda Unit #29-1
29-11s-20w Ellis Ks
Job Ticket: 16433 **DST#: 4**
Test Start: 2002.07.14 @ 02:39:31

Tool Information

Drill Pipe:	Length: 3832.00 ft	Diameter: 3.80 inches	Volume: 53.75 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: 20000.00 lb
Drill Collar:	Length: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 54.18 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3923.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.02 ft			
Tool Length:	31.02 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			3903.00	
Shut In Tool	5.00			3908.00	
Hydraulic tool	5.00			3913.00	
Packer	5.00			3918.00	21.00 Bottom Of Top Packer
Packer	5.00			3923.00	
Stubb	1.00			3924.00	
Recorder	0.01	3024	Inside	3924.01	
Perforations	6.00			3930.01	
Recorder	0.01	11085	Outside	3930.02	
Bullnose	3.00			3933.02	10.02 Bottom Packers & Anchor
Total Tool Length:	31.02				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oil Corp

Linda Unit #29-1

303N Carroll Blvd
#214
Denton Texas 76201
ATTN: Hal Porter

29-11s-20w Ellis Ks
Job Ticket: 16433 **DST#: 4**
Test Start: 2002.07.14 @ 02:39:31

Mud and Cushion Information

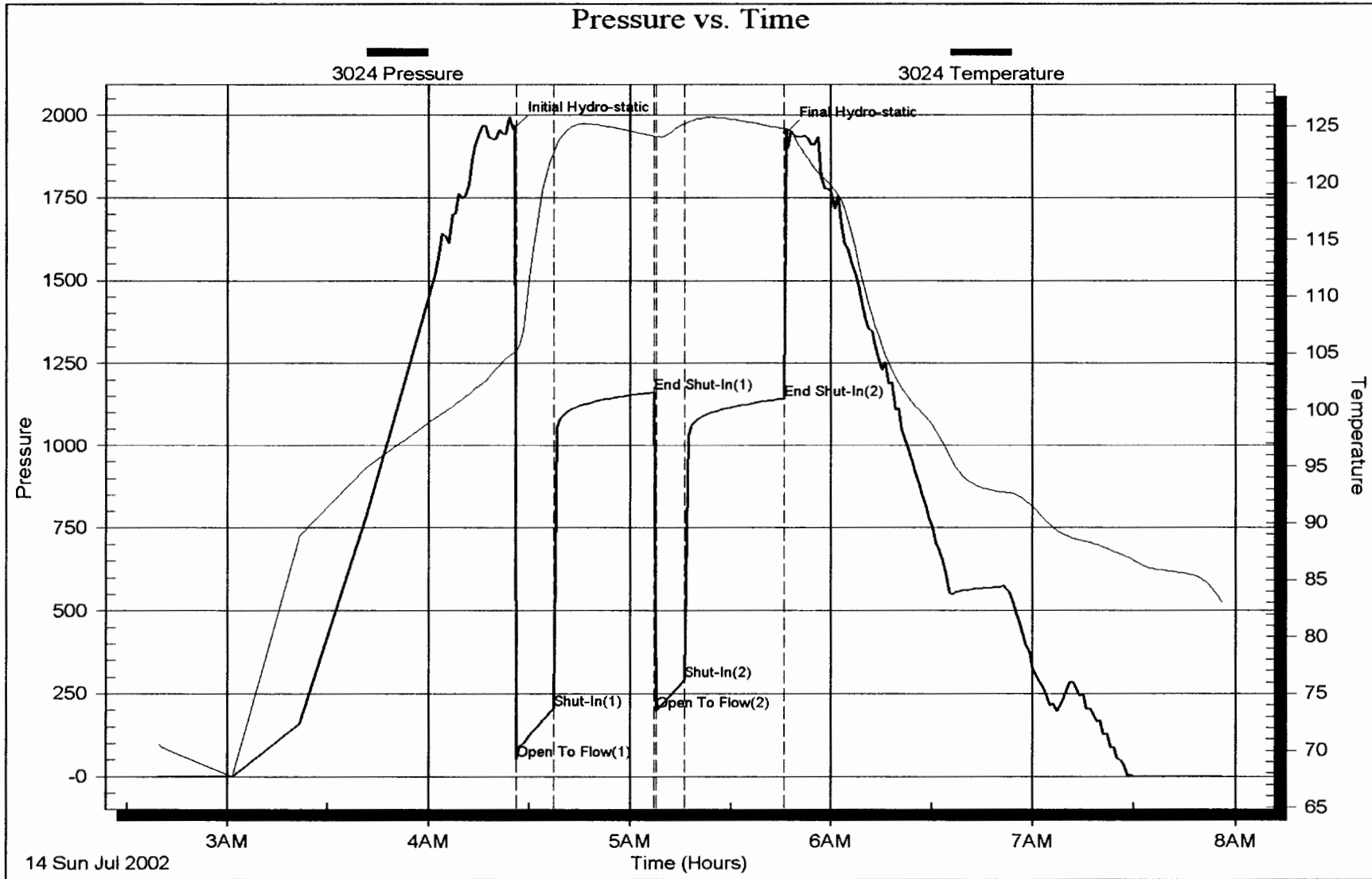
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	32000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

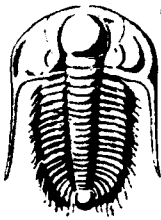
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
590.00	muddy salt water 5% mud 95% water	7.475

Total Length: 590.00 ft Total Volume: 7.475 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Rw .23@67





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16430

Test Ticket

Well Name & No. Linda Unit #29-1 Test No. 1 Date 7-11-02
 Company Imperial American Oil Corp Zone Tested Tor. - LKC "D"
 Address 303 N. Carroll Blvd. #214 Denton, Tx 76201 Elevation 2283 KB 2278 GL
 Co. Rep / Geo. Randy Killian Cont. Murfin rig 16 Est. Ft. of Pay - Por. - %
 Location: Sec. 29 Twp. 11^s Rge. 20^w Co. Ellis State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3562-3670 Initial Str Wt./Lbs. 69000 Unseated Str Wt./Lbs. 69000
 Anchor Length 108 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 75000
 Top Packer Depth 3557 Tool Weight 2200
 Bottom Packer Depth 3562 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3670 Wt. Pipe Run - Drill Collar Run 90
 Mud Wt. 9.6 LCM - Vis. 5F WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3456
 Blow Description JFP - Weak Blow thru-out 1/2" to 1 1/2" Blow
FFP - Weak Blow thru-out 1" to 2" Blow
No Blow on shut-in

Recovery — Total Feet 120 GIP 60 Ft. in DC 90 Ft. in DP 30
 Rec. 110 Feet Of HOCM %gas 30 %oil _____ %water 70 %mud _____
 Rec. 10 Feet Of Clean Oil %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 110 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API _____
 RW - @ - °F Chlorides - ppm Recovery Chlorides 3200 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		<u>1746</u>	PSI	Recorder No. <u>3024</u>	T-On Location	<u>2300</u> 8:00
(B) First Initial Flow Pressure		<u>22</u>	PSI	(depth) <u>3567</u>	T-Started	<u>2352</u>
(C) First Final Flow Pressure		<u>52</u>	PSI	Recorder No. <u>11085</u>	T-Open	<u>0150</u> 9:10
(D) Initial Shut-In Pressure		<u>1041</u>	PSI	(depth) <u>3667</u>	T-Pulled	<u>0535</u>
(E) Second Initial Flow Pressure		<u>55</u>	PSI	Recorder No. <u>-</u>	T-Out	<u>0740</u>
(F) Second Final Flow Pressure		<u>69</u>	PSI	(depth) <u>-</u>	T-Off Location	<u>0810</u>
(G) Final Shut-in Pressure		<u>1083</u>	PSI	Initial Opening <u>30</u>	Test	<input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud		<u>1704</u>	PSI	Initial Shut-in <u>45</u>	Jars	_____
				Final Flow <u>60</u>	Safety Joint	_____
				Final Shut-in <u>90</u>	Straddle	_____
					Circ. Sub	_____
					Sampler	_____
					Extra Packer	_____
					Elec. Rec	<input checked="" type="checkbox"/> <u>150</u>
					Mileage	<input checked="" type="checkbox"/> <u>29</u>
					Other	<u>1pc 30</u>
					TOTAL PRICE \$	<input checked="" type="checkbox"/> <u>909</u>

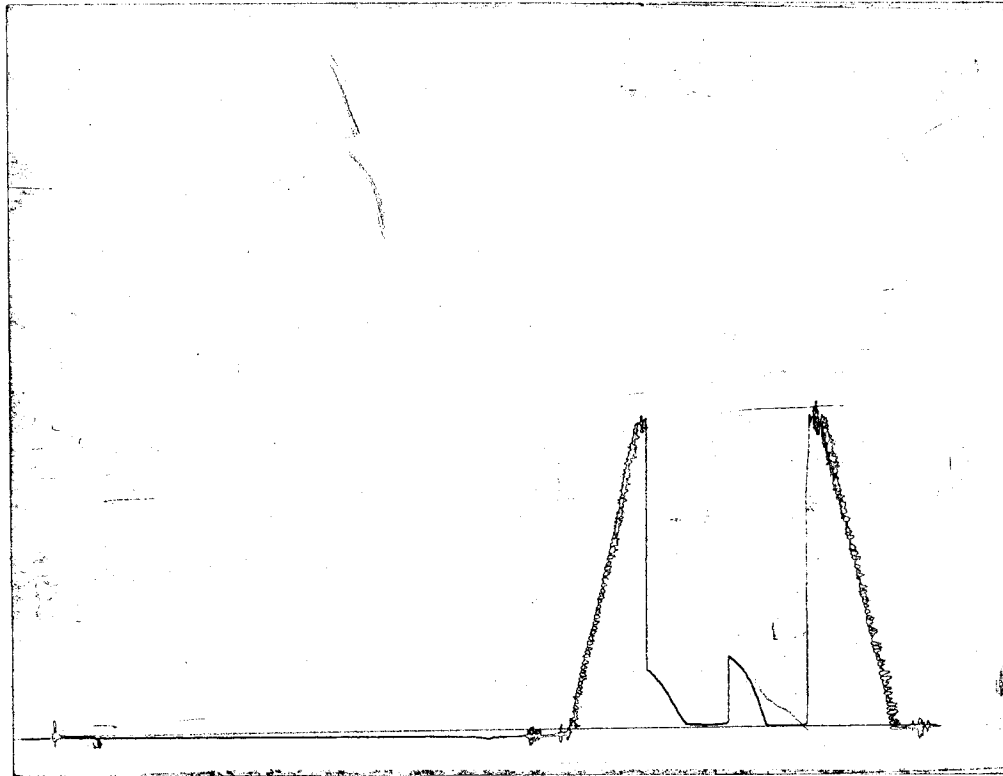
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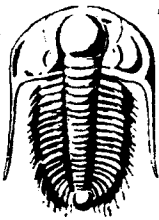
Approved By _____

Our Representative Ray Schwager Thank you

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16431

Test Ticket

Well Name & No. Linda Unit #29-1 Test No. 2 Date 7-12-02
 Company Imperial American Oil Corp Zone Tested LKC F-6
 Address 303 N. Carroll Blvd #214 Denton, TX 76201 Elevation 2283 KB 2278 GL
 Co. Rep / Geo. Randy Killian Cont. Murfin 1916 Est. Ft. of Pay - Por. - %
 Location: Sec. 29 Twp. 11 Rge. 20 Co. ELLIS State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3665 - 3703 Initial Str Wt./Lbs. 69000 Unseated Str Wt./Lbs. 69000
 Anchor Length 38 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 75000
 Top Packer Depth 3660 Tool Weight 2200
 Bottom Packer Depth 3665 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3703 Wt. Pipe Run _____ Drill Collar Run 90
 Mud Wt. 9.2 LCM - Vis. 56 WL 8 Drill Pipe Size 4 1/2 XH Ft. Run 3580
 Blow Description IFP - Weak surface blow died in 25 min
FFP - No Blow

Recovery — Total Feet 10 GIP - Ft. in DC 10 Ft. in DP -
 Rec. 10 Feet Of Mud %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of w/show of oil %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 108 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW - @ - °F Chlorides - ppm Recovery Chlorides 3700 ppm System

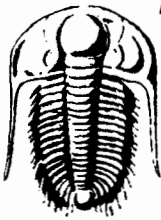
	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1799</u>		<u>3024</u>	<u>1445</u>
(B) First Initial Flow Pressure		<u>16</u>		(depth) <u>3671</u>	T-Started <u>1502</u>
(C) First Final Flow Pressure		<u>23</u>		Recorder No. <u>11085</u>	T-Open <u>1635</u>
(D) Initial Shut-In Pressure		<u>459</u>		(depth) <u>3700</u>	T-Pulled <u>1835</u>
(E) Second Initial Flow Pressure		<u>23</u>		Recorder No. <u>-</u>	T-Out <u>2005</u>
(F) Second Final Flow Pressure		<u>29</u>		(depth) <u>-</u>	T-Off Location <u>2030</u>
(G) Final Shut-in Pressure		<u>380</u>		Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud		<u>1776</u>		Initial Shut-in <u>30</u>	Jars _____
				Final Flow <u>30</u>	Safety Joint _____
				Final Shut-in <u>30</u>	Straddle _____

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Approved By _____

Our Representative RAY SCHWAGER Hank 904

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Recd 150
 Mileage 29
 Other _____
 TOTAL PRICE \$ 879



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16432

Test Ticket

Well Name & No. Linda Unit 29-1 Test No. 3 Date 5/13/02
 Company LAOC Zone Tested LKC - H-2
 Address _____ Elevation 2283 KB 2278GL
 Co. Rep / Geo. Randy Kilian Cont. Murfin 16 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 29 Twp. 11S Rge. 20W Co. Ellis State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3726-3840 Initial Str Wt./Lbs. 69,000 Unseated Str Wt./Lbs. 69,000
 Anchor Length 119 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. _____
 Top Packer Depth 3721 Tool Weight 2400
 Bottom Packer Depth 3726 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3840 Wt. Pipe Run _____ Drill Collar Run 88
 Mud Wt. 9.3 LCM _____ Vis. 48 WL 8.0 Drill Pipe Size 4 1/2 XA Ft. Run 3645
 Blow Description weak - 1/4 decreasing to 1/8"

ff - surface blow - died in 5 minutes

Recovery — Total Feet 20 GIP _____ Ft. in DC 20 Ft. in DP _____
 Rec. 20 Feet Of SI am %gas 3 %oil _____ %water 97 %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 100 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API _____
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1854</u>	<u>3024</u>	<u>0930</u>
(B) First Initial Flow Pressure		<u>21</u>	(depth) <u>3732</u>	T-Started <u>1007</u>
(C) First Final Flow Pressure		<u>28</u>	PSI Recorder No. <u>11085</u>	T-Open <u>1145</u>
(D) Initial Shut-In Pressure		<u>805</u>	(depth) <u>3837</u>	T-Pulled <u>1400</u>
(E) Second Initial Flow Pressure		<u>30</u>	PSI Recorder No. _____	T-Out <u>1531</u>
(F) Second Final Flow Pressure		<u>35</u>	(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure		<u>924</u>	PSI Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud		<u>1854</u>	PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow <u>30</u>	Safety Joint _____
			Final Shut-in <u>45</u>	Straddle _____

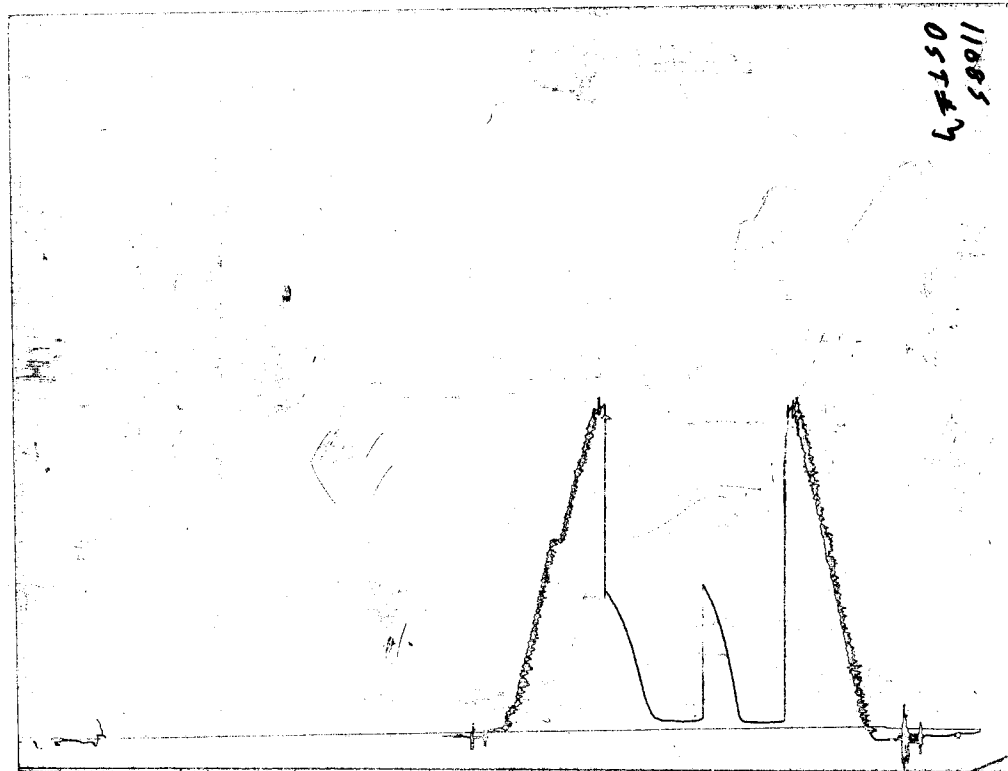
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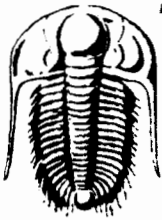
Approved By _____
Our Representative Paul Simpson

Extra Packer _____
Elec. Rec. X 150
Mileage 29
Other _____
TOTAL PRICE \$ 879

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16433

Test Ticket

Well Name & No. Linda Unit 29-1 Test No. 4 Date 7/14/02
 Company TAOC Zone Tested Arbuckle
 Address _____ Elevation 2783 KB 2778 GL
 Co. Rep / Geo. Randy Kilien Cont. Murfin 16 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 29 Twp. 11s Rge. 20w Co. Ellis State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3923 - 3933 Initial Str Wt./Lbs. 69,000 Unseated Str Wt./Lbs. 72,000
 Anchor Length 10 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 73,000
 Top Packer Depth 3918 Tool Weight 2200
 Bottom Packer Depth 3923 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3933 Wt. Pipe Run _____ Drill Collar Run 88
 Mud Wt. 9.4 LCM _____ Vis. 52 WL _____ Drill Pipe Size 4 1/2 YA Ft. Run 3832
 Blow Description strong blow - bottom of bucket in 3 minutes

88 - surface blow building to bottom of bucket in 6 minutes

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>590</u>	<u>MSW</u>	<u>88</u>	<u>502</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .23 @ 67 °F Chlorides 32,000 ppm Recovery Chlorides 3800 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1961</u>	<u>3024</u>	<u>0200</u>	
(B) First Initial Flow Pressure	<u>52</u>	<u>3924</u>	<u>0239</u>	
(C) First Final Flow Pressure	<u>205</u>	<u>11085</u>	<u>0427</u>	
(D) Initial Shut-In Pressure	<u>1162</u>	<u>3930</u>	<u>0547</u>	
(E) Second Initial Flow Pressure	<u>199</u>		<u>0550</u>	
(F) Second Final Flow Pressure	<u>291</u>		<u>0845</u>	
(G) Final Shut-in Pressure	<u>1143</u>	<u>300</u>	<u>10</u>	<u>700</u>
(Q) Final Hydrostatic Mud	<u>1946</u>	<u>30</u>		

Final Flow 10 Safety Joint _____
 Final Shut-in 30 Straddle _____
 _____ Circ. Sub _____
 _____ Sampler _____
 _____ Extra Packer _____
 Elec. Rec. 2 150
 Mileage 29
 Other _____
 TOTAL PRICE \$ 879

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Approved By _____

Our Representative Paul Simpson

CHART PAGE

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