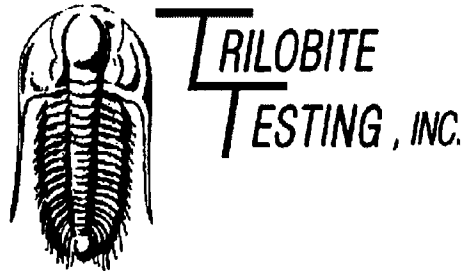


15-007-22865

8-32s-12w



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co,LLC.**

125 N. Market Ste 1000
Wichita, Ks. 67202

ATTN: Vern Schrag

8-32S-12W

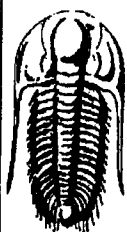
Clark #3

Start Date: 2004.11.21 @ 15:29:15

End Date: 2004.11.22 @ 00:15:15

Job Ticket #: 19208 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

Woolsey Operating Co, LLC.

125 N. Market Ste 1000
Wichita, Ks. 67202

ATTN: Vern Schrag

Clark #3

8-32S-12W

Job Ticket: 19208

DST#: 1

Test Start: 2004.11.21 @ 15:29:15

GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 17:06:45

Time Test Ended: 00:15:15

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **30**

Interval: **4208.00 ft (KB) To 4253.00 ft (KB) (TVD)**

Total Depth: **4253.00 ft (KB) (TVD)**

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

Reference Elevations: **1501.00 ft (KB)**

1490.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **6625** Inside

Press@RunDepth: **92.47 psig @ 4217.00 ft (KB)**

Start Date: **2004.11.21**

End Date:

2004.11.22

Start Time: **15:29:18**

End Time:

00:15:15

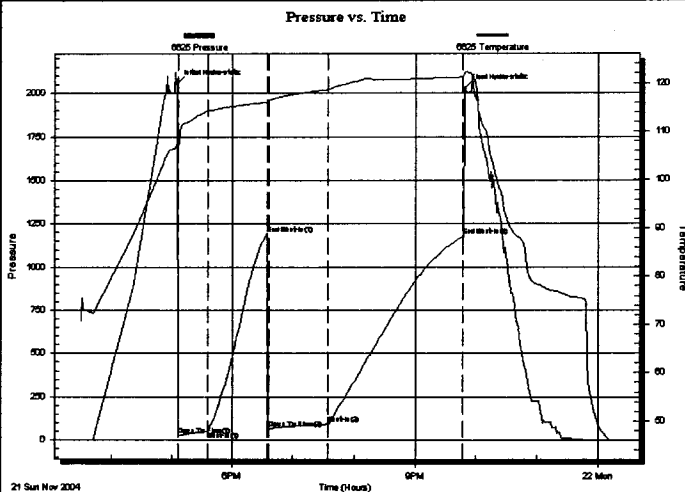
Capacity: **7000.00 psig**

Last Calib.: **2004.11.22**

Time On Btm: **2004.11.21 @ 17:05:30**

Time Off Btm: **2004.11.21 @ 21:49:00**

TEST COMMENT: **IF: Fair to strong blow b.o.b in 3 mins.**
IS: Bled down for 10 no blow back.
FF: Strong blow b.o.b in 60 sec.
FS: Bled down for 5 mins. slight surface blow back GTS.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.95	107.46	Initial Hydro-static
2	29.81	107.08	Open To Flow (1)
31	50.77	114.11	Shut-In (1)
89	1194.00	115.97	End Shut-In (1)
92	67.05	116.37	Open To Flow (2)
149	92.47	118.65	Shut-In (2)
282	1177.67	121.21	End Shut-In (2)
284	2027.66	122.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3986' of gip	0.00
120.00	HG&OCMM 40% gas 10% oil 30% water	211.68 ud
90.00	SG&OCMM 26% gas 15% oil 10% water	41.26 ud

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co, LLC.

Clark #3

125 N. Market Ste 1000
Wichita, Ks. 67202

8-32S-12W

Job Ticket: 19208

DST#: 1

ATTN: Vern Schrag

Test Start: 2004.11.21 @ 15:29:15

Tool Information

Drill Pipe:	Length: 4196.00 ft	Diameter: 3.80 inches	Volume: 58.86 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 58.86 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4208.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	74.00 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			4180.00	
Shut In Tool	5.00			4185.00	
Hydraulic tool	5.00			4190.00	
Jars	5.00			4195.00	
Safety Joint	3.00			4198.00	
Packer	5.00			4203.00	29.00 Bottom Of Top Packer
Packer	5.00			4208.00	
Stubb	1.00			4209.00	
Anchor	8.00			4217.00	
Recorder	0.00	6625	Inside	4217.00	
Drill Pipe	32.00			4249.00	
Recorder	0.00	10991	Outside	4249.00	
Bullnose	4.00			4253.00	45.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co,LLC.

Clark #3

125 N.Market Ste 1000
Wichita, Ks. 67202

8-32S-12W

Job Ticket: 19208

DST#: 1

ATTN: Vern Schrag

Test Start: 2004.11.21 @ 15:29:15

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:

140000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 23.89 in³

Gas Cushion Type:

Resistivity: 0.30 ohm.m

Gas Cushion Pressure:

psig

Salinity: 23000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3986' of gip	0.000
120.00	HG&OCMW 40%gas 10%oil 30%water 20%r	1.683
90.00	SG&OCWM 26%gas 15%oil 10%water 49%r	1.262

Total Length: 210.00 ft

Total Volume: 2.945 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .06@70'degrees=140000

Serial #: 6625

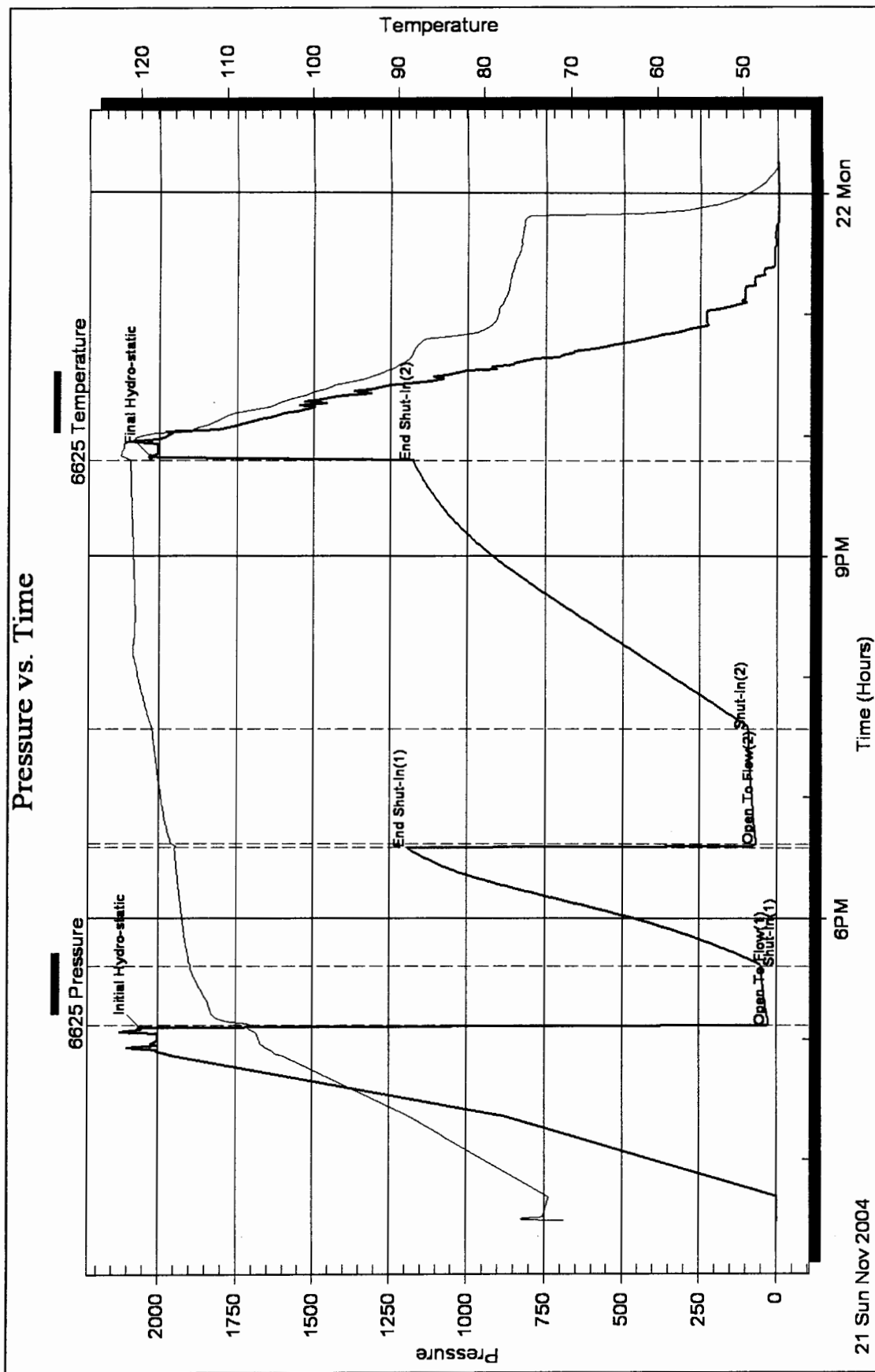
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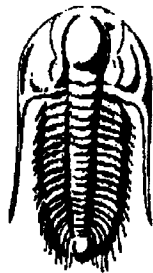
Woodsey Operating Co, LLC

8-32S-12W

DST Test Number: 1

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co,LLC.**

125 N.Market Ste 1000
Wichita, Ks. 67202

ATTN: Vern Schrag

8-32S-12W

Clark #3

Start Date: 2004.11.22 @ 23:32:54

End Date: 2004.11.23 @ 08:27:24

Job Ticket #: 19209 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co, LLC.

125 N. Market Ste 1000
Wichita, Ks. 67202

ATTN: Vern Schrag

Clark #3

8-32S-12W

Job Ticket: 19209

DST#: 2

Test Start: 2004.11.22 @ 23:32:54

GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 01:45:24

Time Test Ended: 08:27:24

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **30**

Interval: **4255.00 ft (KB) To 4273.00 ft (KB) (TVD)**

Total Depth: **4273.00 ft (KB) (TVD)**

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

Reference Elevations: **1501.00 ft (KB)**

1490.00 ft (CF)

KB to GRVCF: **11.00 ft**

Serial #: **6625** Inside

Press@RunDepth: **69.40 psig @ 4257.00 ft (KB)**

Start Date: **2004.11.22**

End Date:

2004.11.23

Start Time: **23:32:57**

End Time:

08:27:24

Capacity: **7000.00 psig**

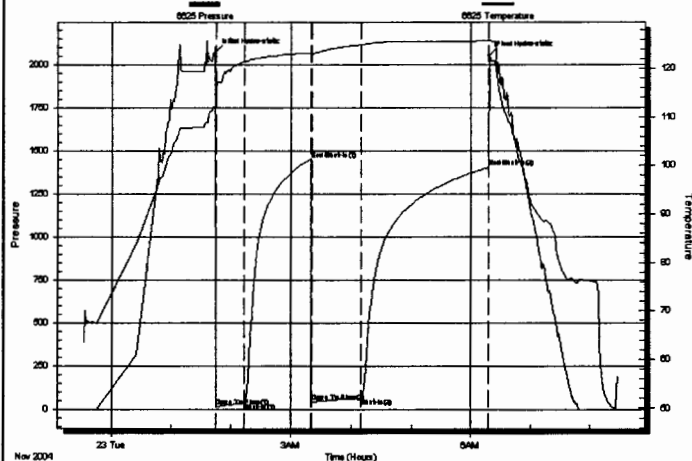
Last Calib.: **2004.11.23**

Time On Btm: **2004.11.23 @ 01:44:09**

Time Off Btm: **2004.11.23 @ 06:18:39**

TEST COMMENT: IF: Weak to fair blow b.o.b in 18 mins.
IS: Bled down for 2 mins. no blow back.
FF: Weak blow built to 8" in H₂O bucket.
FSI: Bled down for 5 mins. no blow back.

Pressure vs. Time



PRESSURE SUMMARY

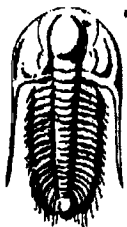
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.33	112.11	Initial Hydro-static
2	15.47	115.84	Open To Flow (1)
30	37.21	121.41	Shut-In (1)
95	1451.32	123.23	End Shut-In (1)
96	42.47	122.80	Open To Flow (2)
146	69.40	124.90	Shut-In (2)
274	1402.62	125.65	End Shut-In (2)
275	2050.33	125.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	trace of gip	0.00
110.00	4% gas trace of oil 76% water 20% mud	1.54

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co, LLC.

125 N. Market Ste 1000
Wichita, Ks. 67202

ATTN: Vern Schrag

Clark #3

8-32S-12W

Job Ticket: 19209

DST#: 2

Test Start: 2004.11.22 @ 23:32:54

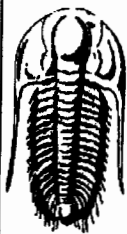
Tool Information

Drill Pipe:	Length: 4257.00 ft	Diameter: 3.80 inches	Volume: 59.71 bbl	Tool Weight:	2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 59.71 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4255.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4227.00	
Shut In Tool	5.00			4232.00	
Hydraulic tool	5.00			4237.00	
Jars	5.00			4242.00	
Safety Joint	3.00			4245.00	
Packer	5.00			4250.00	29.00 Bottom Of Top Packer
Packer	5.00			4255.00	
Stubb	2.00			4257.00	
Recorder	0.00	6625	Inside	4257.00	
Anchor	13.00			4270.00	
Recorder	0.00	10991	Outside	4270.00	
Bullnose	3.00			4273.00	18.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co, LLC.

Clark #3

125 N Market Ste 1000
Wichita, Ks. 67202

8-32S-12W

Job Ticket: 19209

DST#: 2

ATTN: Vern Schrag

Test Start: 2004.11.22 @ 23:32:54

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: 125000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.20 ohm.m

Gas Cushion Pressure:

psig

Salinity: 32000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	trace of gip	0.000
110.00	4%gas trace of oil 76%water 20%mud	1.543

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .07@70'degrees=125000

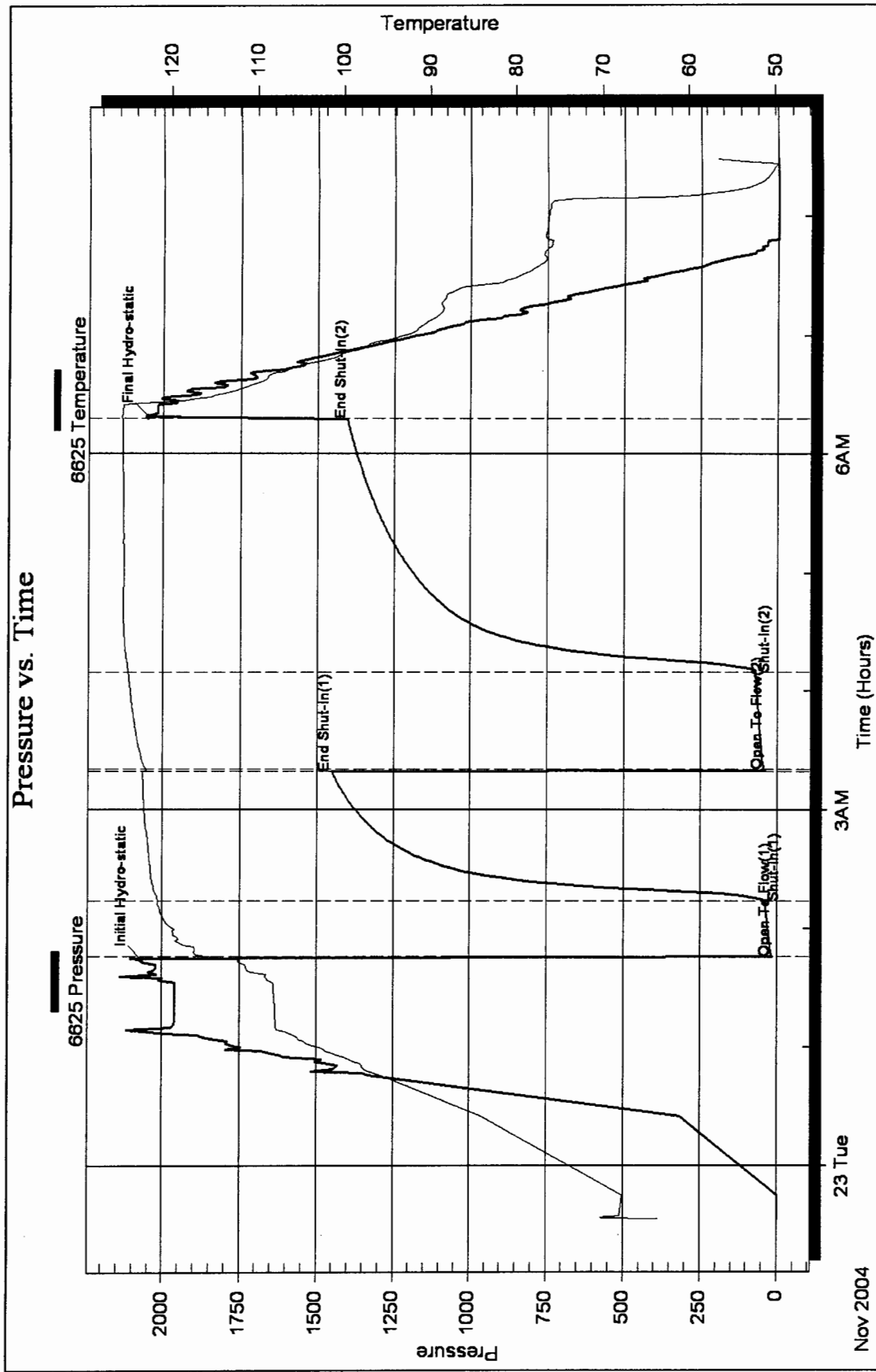
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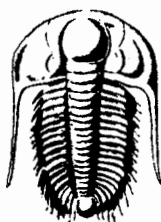
Inside

Woodsey Operating Co, LLC.

8-32S-12W

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

FW 6999

No 19208

05/03

Test Ticket

Well Name & No. Clark #3 Test No. #1 Date 11-21-04
 Company Woolsey Operating Company, LLC Zone Tested Miss.
 Address 125 N Market Ste. 7000 Wichita KS 67202 Elevation 1501 KB 1490 GL
 Co. Rep / Geo. Vern Schrag Cont. Duke #5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 8 Twp. 32S Rge. 12W Co. Barber, Co. State Ks
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4208 - 4253 Initial Str Wt./Lbs. 52000 Unseated Str Wt/Lbs. 52000
 Anchor Length 45 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 6000
 Top Packer Depth 4203 Tool Weight 2100
 Bottom Packer Depth 1208 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4253 Wt. Pipe Run N/A Drill Collar Run N/A
 Mud Wt. 9.1 LCM 3# Vis. 52 WL 240 Drill Pipe Size 4 1/2 XH Ft. Run 4228

Blow Description IF: Fair to strong blow 0.6 in 3 mins.
ISI: Bled down for 10 mins. No blow back.
FF: Strong blow 0.6 in 60 sec.
FST: Bled down for 5 mins.

Recovery - Total Feet 210' GIP 3986' Ft. in DC N/A Ft. in DP _____
 Rec. 90' Feet of SG 10 CUM 26 %gas 15 %oil 10 %water 49 %mud
 Rec. 120' Feet of HG 10 CUM 40 %gas 10 %oil 30 %water 20 %mud
 Rec. 3986' Feet of GIP %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 121" °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .06 @ 20" °F Chlorides 14000 ppm Recovery _____ Chlorides 2300 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test	
(A) Initial Hydrostatic Mud		2056		6625	✓	1000
(B) First Initial Flow Pressure		30		(depth) 4217'	✓	
(C) First Final Flow Pressure		51		Recorder No. 10991	✓	200
(D) Initial Shut-In Pressure		1194		(depth) 4249'	✓	50
(E) Second Initial Flow Pressure		67		Recorder No.		
(F) Second Final Flow Pressure		92		(depth)		
(G) Final Shut-In Pressure		1178		Initial Opening 30		
(Q) Final Hydrostatic Mud		2028		Initial Shut-In 60		

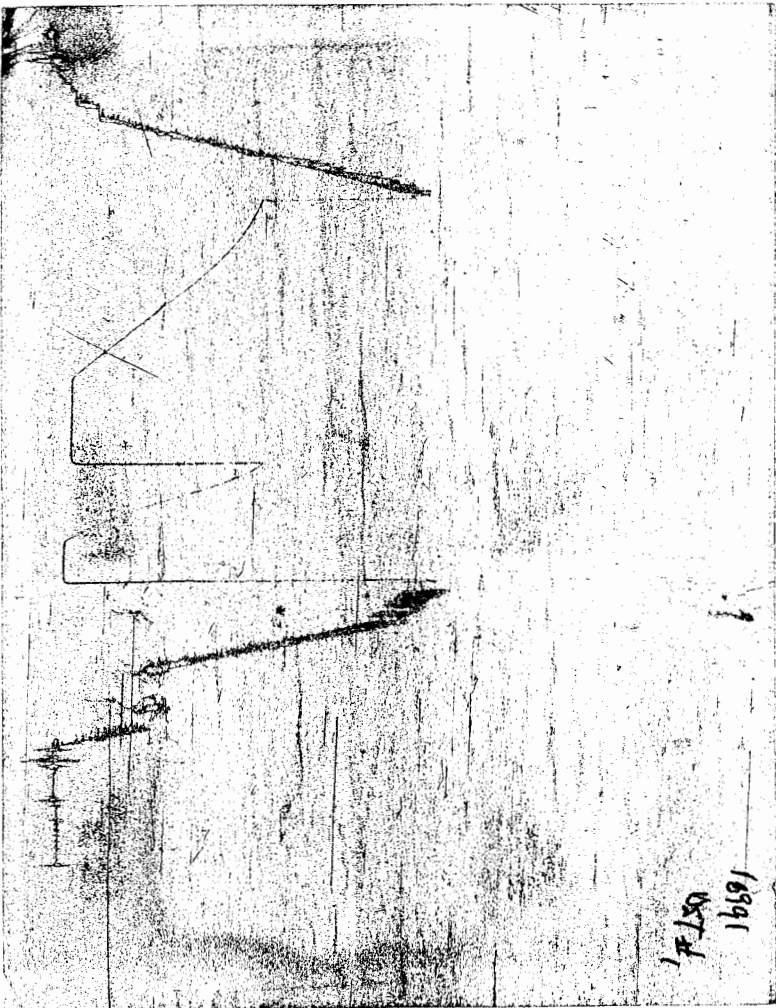
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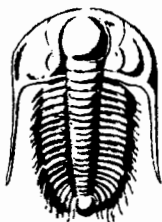
Approved By Darren C. Schum
 Our Representative Darren C. Schum

Final Flow 60 Shale Packer _____
 Final Shut-In 120 Mileage 37 74
 T-On Location 1430 Sub Total: 1324
 T-Started 1529 Std. By 3/4 22.50
 T-Open 1705 Other _____
 T-Pulled 2135 Total: 1346.50
 T-Out 0015

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19209

05/03

Test Ticket

Well Name & No.	Clark #3	Test No.	#2	Date	11-23-04
Company	Woolsey Operating Company, LLC.	Zone Tested	Mississippia		
Address	125 W. Market Suite 100 Wichita, KS 67202	Elevation	1501	KB	1490 GL
Co. Rep / Geo.	Vern Schrag	Cont.	Duke #5	Est. Ft. of Pay	Por. %
Location: Sec.	8	Twp.	32S	Rge.	12W Co. Barber, Co. State KS
No. of Copies	5	Disbtribution Sheet (Y, N)	—	Turnkey (Y, N)	— Evaluation (Y, N) —

Interval Tested	4255 - 4273'	Initial Str Wt./Lbs.	52000	Unseated Str Wt./Lbs.	52000
Anchor Length	18'	Wt. Set Lbs.	20000	Wt. Pulled Loose/Lbs.	6000
Top Packer Depth	4250'	Tool Weight	2100		
Bottom Packer Depth	4255'	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth	4273'	Wt. Pipe Run	N/A	Drill Collar Run	N/A
Mud Wt.	9.8 LCM 3# Vis. 54 WL 9.6	Drill Pipe Size	4 1/2 x H	Ft. Run	4257'
Blow Description	TF! Leak to fair blow 50.0 in 18 mins. ISI! Bleed down for 2 mins. No blow back. FF! Leak blow built to 8" in 120 bucket. FSI! Bleed down for 5 mins. No blow back.				
Recovery - Total Feet	110'	GIP	Trace	Ft. in DC	N/A
Rec.	110'	Feet of	6'00 CM W	%gas	Trace
Rec.	Trace	Feet of	of GIP	%oil	76
Rec.		Feet of		%water	20
Rec.		Feet of		%mud	
Rec.		Feet of		%gas	
Rec.		Feet of		%oil	
Rec.		Feet of		%water	
Rec.		Feet of		%mud	
BHT	126°	°F Gravity		°API D @	
RW	.07	@ 70 °F	Chlorides 125000 ppm	Recovery	Chlorides 34000 ppm

AK-1	Alpine					
(A) Initial Hydrostatic Mud	2068	PSI	Recorder No.	6625	Test	✓ 1000
(B) First Initial Flow Pressure	15	PSI	(depth)	4257'	Elec. Rec.	✓
(C) First Final Flow Pressure	37	PSI	Recorder No.	10991	Jars	✓ 200
(D) Initial Shut-In Pressure	1451	PSI	(depth)	4270	Safety Jt.	✓ 50
(E) Second Initial Flow Pressure	42	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure	69	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	1403	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud	2050	PSI	Initial Shut-In	60	Ext. Packer	40
			Final Flow	60	Shale Packer	74
			Final Shut-In	120	Mileage	40 mile Right
			T-On Location	2320	Sub Total:	
			T-Started	2332	Std. By	1398
			T-Open	0145	Other	✓
			T-Pulled	0615	Total:	
			T-Out	0827		

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Approved By Damon C. Schrag

Our Representative Damon C. Schrag

CHART PAGE

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

