RECEIVED
JUN 12 2002
KCC WICHITA

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc.**

PO Box 352
Russell, KS 67665

ORIGINAL

ATTN: John O Farmer IV

35-12s-21w Ellis Ks

Duncan #1

Start Date: 2002.03.11 @ 10:36:23
End Date: 2002.03.11 @ 18:43:52
Job Ticket #: 15537 DST #: 1

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

10184

ORIGINAL

DRILL STEM TEST REPORT

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15537 **DST#: 1**

Test Start: 2002.03.11 @ 10:36:23

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:29:52
Time Test Ended: 18:43:52

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16

Interval: 3826.00 ft (KB) To 3872.00 ft (KB) (TVD)
Total Depth: 3872.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

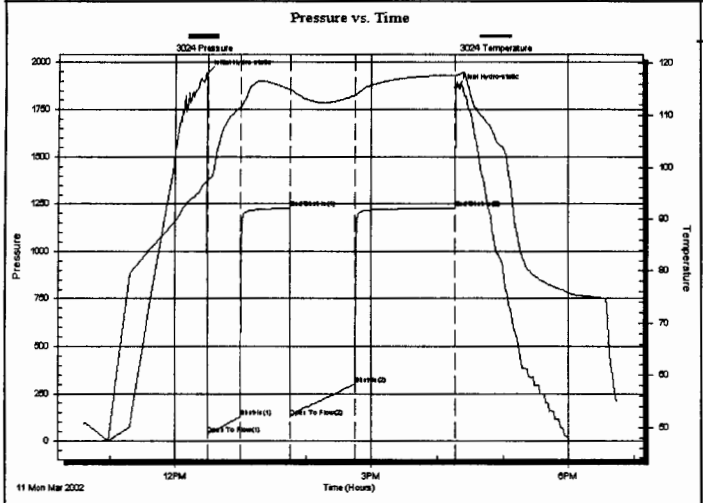
Reference Elevations: 2215.00 ft (KB)
2207.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3024 **Inside**

Press@RunDepth: 298.95 psig @ 3834.01 ft (KB)
Start Date: 2002.03.11 End Date: 2002.03.11
Start Time: 10:36:23 End Time: 18:43:52

Capacity: 7000.00 psig
Last Calib.: 2002.03.11
Time On Btm: 2002.03.11 @ 12:29:22
Time Off Btm: 2002.03.11 @ 16:16:52

TEST COMMENT: IFP-weak to strong in 9 min
FFP-weak to strong in 12 min
times 30-45-60-90
had a weak blow back on shut-in 1/2"blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.16	97.41	Initial Hydro-static
1	37.94	97.50	Open To Flow (1)
31	128.04	111.62	Shut-In(1)
76	1226.39	114.90	End Shut-In(1)
77	128.22	114.82	Open To Flow (2)
136	298.95	113.87	Shut-In(2)
227	1226.93	117.60	End Shut-In(2)
228	1864.02	117.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	MGO 27%gas 58% oil 15%mud	3.93
470.00	clean oil	6.59

Gas Rates

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

ORIGINAL

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15537 **DST#: 1**

Test Start: 2002.03.11 @ 10:36:23

Tool Information

Drill Pipe:	Length:	3811.00 ft	Diameter:	3.80 inches	Volume:	53.46 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:	50000.00 lb
					Total Volume:	53.46 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight: Initial	46000.00 lb
Depth to Top Packer:		3826.00 ft					Final	48000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		46.02 ft						
Tool Length:		67.02 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

RECEIVED
JUN 12 2002
KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3806.00		
S.I. Tool	5.00			3811.00		
HMV	5.00			3816.00		
Packer	5.00			3821.00	21.00	Bottom Of Top Packer
Packer	5.00			3826.00		
Stubb	1.00			3827.00		
Perforations	7.00			3834.00		
Recorder	0.01	3024	Inside	3834.01		
Perforations	3.00			3837.01		
C.O. Sub	1.00			3838.01		
Recorder	0.01	11085	Outside	3838.02		
Blank Spacing	30.00			3868.02		
C.O. Sub	1.00			3869.02		
Bullnose	3.00			3872.02	46.02	Bottom Packers & Anchor
Total Tool Length:	**67.02**					

161184

JAN 10

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15537 **DST#: 1**

Test Start: 2002.03.11 @ 10:36:23

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	37 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.36 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	MGO 27%gas 58% oil 15%mud	3.928
470.00	clean oil	6.593

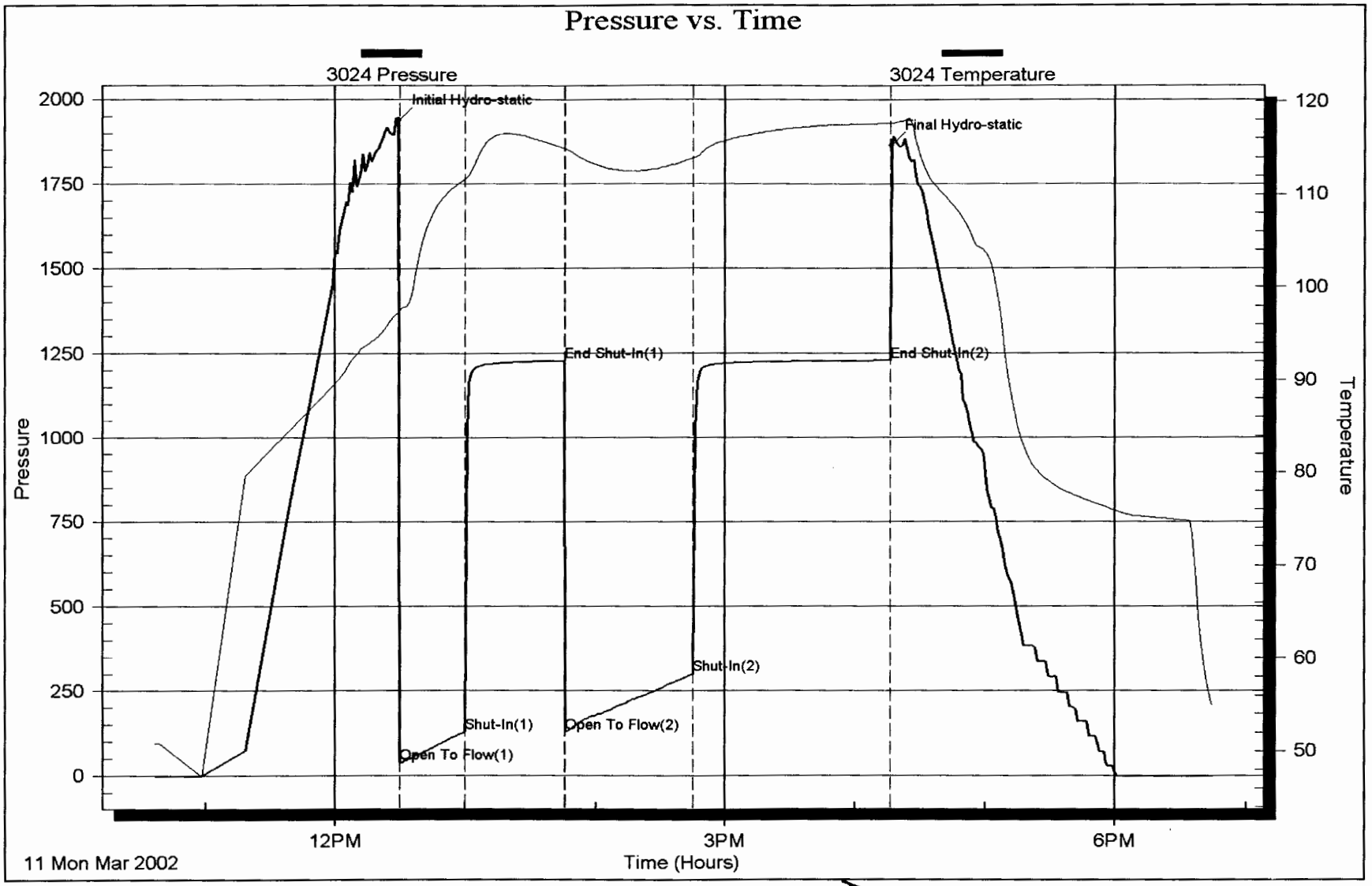
Total Length: 750.00 ft Total Volume: 10.521 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 3024 **Inside** John O Farmer, Inc. 35-12s-21w Ellis Ks DST Test Number: 1



RECEIVED
JUN 12 2002
KCC WICHITA



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RECEIVED
JUN 12 2002
KCC WICHITA

Prepared For: **John O Farmer, Inc.**

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

35-12s-21w Ellis Ks

Duncan #1

Start Date: 2002.03.12 @ 01:22:30
End Date: 2002.03.12 @ 08:33:29
Job Ticket #: 15538 DST #: 2

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

101184

DRILL STEM TEST REPORT

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15538 **DST#: 2**

Test Start: 2002.03.12 @ 01:22:30

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:15:29
Time Test Ended: 08:33:29

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16

Interval: 3872.00 ft (KB) To 3884.00 ft (KB) (TVD)
Total Depth: 3872.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

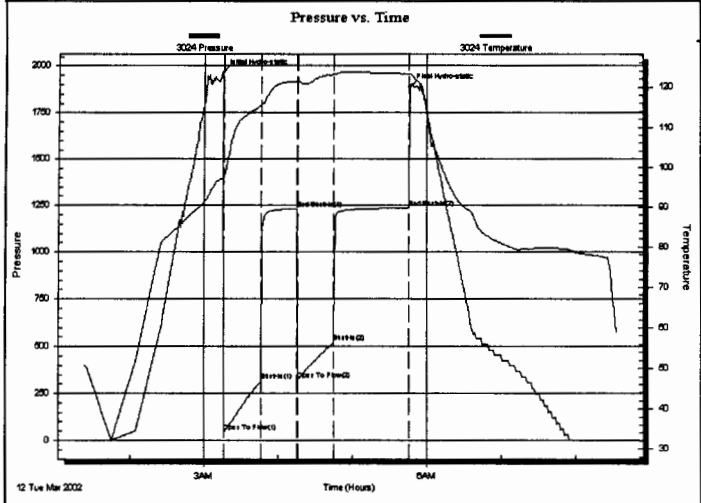
Reference Elevations: 2215.00 ft (KB)
2207.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3024 **Inside**

Press@RunDepth: 520.61 psig @ 3873.01 ft (KB)
Start Date: 2002.03.12 End Date: 2002.03.12
Start Time: 01:22:30 End Time: 08:33:29

Capacity: 7000.00 psig
Last Calib.: 2002.03.12
Time On Btm: 2002.03.12 @ 03:14:59
Time Off Btm: 2002.03.12 @ 05:45:59

TEST COMMENT: IFP-weak to strong in 3 min
FFP-weak to strong in 28 min
times 30-30-30-60
no blow on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.17	97.34	Initial Hydro-static
1	46.01	97.51	Open To Flow (1)
32	317.24	115.68	Shut-In(1)
60	1232.90	121.37	End Shut-In(1)
61	322.06	121.38	Open To Flow (2)
90	520.61	123.18	Shut-In(2)
151	1236.15	123.28	End Shut-In(2)
151	1885.61	123.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MGO 15%gas 10 %mud 75%oil	0.84
1340.00	cleanoil	18.80

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15538 **DST#: 2**

Test Start: 2002.03.12 @ 01:22:30

Tool Information

Drill Pipe:	Length:	3871.00 ft	Diameter:	3.80 inches	Volume:	54.30 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:		58000.00 lb
					Total Volume:	54.30 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3872.00 ft						Final	52000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		12.01 ft							
Tool Length:		33.01 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

RECEIVED
JUN 12 2002
KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3852.00		
S.I. Tool	5.00			3857.00		
HMV	5.00			3862.00		
Packer	5.00			3867.00	21.00	Bottom Of Top Packer
Packer	5.00			3872.00		
Stubb	1.00			3873.00		
Recorder	0.01	3024	Inside	3873.01		
Perforations	8.00			3881.01		
Bullnose	3.00			3884.01	12.01	Bottom Packers & Anchor
Total Tool Length:	**33.01**					

101184

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15538 **DST#: 2**

Test Start: 2002.03.12 @ 01:22:30

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	37 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.35 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

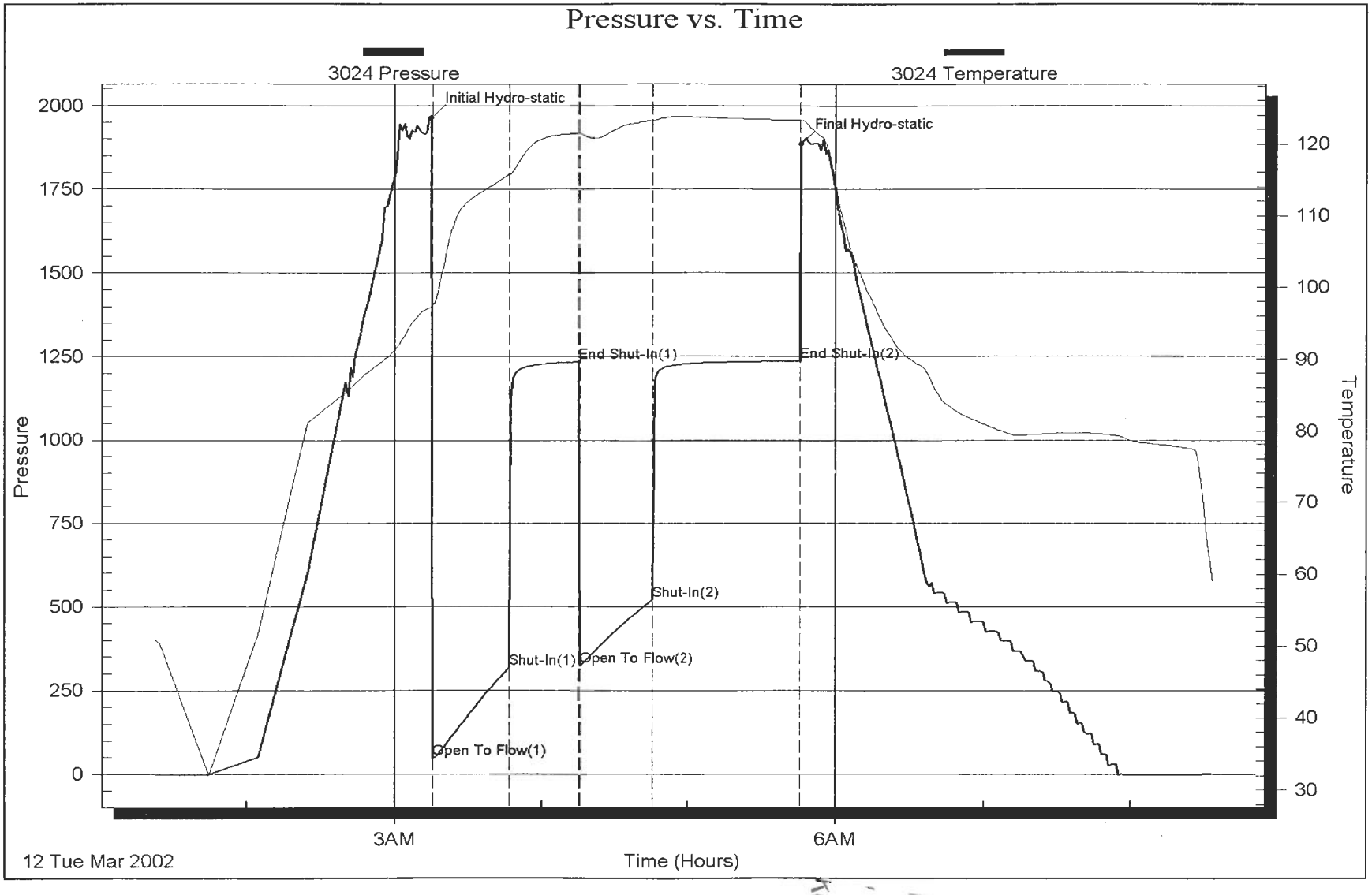
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MGO 15%gas 10 %mud 75%oil	0.842
1340.00	cleanoil	18.797

Total Length: 1400.00 ft Total Volume: 19.639 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



RECEIVED
JUN 12 2002
KCC WICHITA



TRILOBITE TESTING, INC.

RECEIVED
JUN 12 2002
KCC WICHITA

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc.**

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

35-12s-21w Ellis Ks

Duncan #1

Start Date: 2002.03.12 @ 15:11:37
End Date: 2002.03.12 @ 22:24:36
Job Ticket #: 15539 DST #: 3

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

101184

DRILL STEM TEST REPORT

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15539 **DST#: 3**

Test Start: 2002.03.12 @ 15:11:37

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:03:06
Time Test Ended: 22:24:36

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16

Interval: 3884.00 ft (KB) To 3895.00 ft (KB) (TVD)
Total Depth: 3895.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

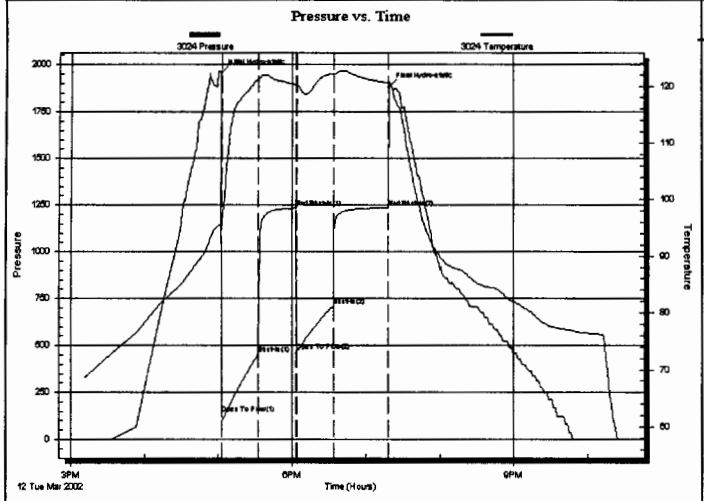
Reference Elevations: 2215.00 ft (KB)
2207.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 3024 **Inside**

Press@RunDepth: 709.69 psig @ 3885.01 ft (KB)
Start Date: 2002.03.12 End Date: 2002.03.12
Start Time: 15:11:37 End Time: 22:24:36

Capacity: 7000.00 psig
Last Calib.: 2002.03.12
Time On Btm: 2002.03.12 @ 17:02:36
Time Off Btm: 2002.03.12 @ 19:18:36

TEST COMMENT: IFP-weak to strong in 2 min
FFP-weak to strong in 2 min
times 30-30-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.66	95.79	Initial Hydro-static
1	137.89	95.99	Open To Flow (1)
31	454.98	121.35	Shut-In(1)
61	1233.32	120.27	End Shut-In(1)
62	467.80	120.26	Open To Flow (2)
91	709.69	122.12	Shut-In(2)
136	1236.43	120.57	End Shut-In(2)
136	1882.52	120.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	SOCW 1%oil 99%water	5.19
250.00	O&GCMW 25%gas 20%oil 5%mud 50%w	3.51
1180.00	clean oil	16.55
180.00	GIP	2.52
0.00	RW .24@55	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15539 **DST#: 3**

Test Start: 2002.03.12 @ 15:11:37

Tool Information

Drill Pipe:	Length:	3872.00 ft	Diameter:	3.80 inches	Volume:	54.31 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:		60000.00 lb
					Total Volume:	54.31 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		9.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3884.00 ft						Final	53000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		11.01 ft							
Tool Length:		32.01 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

RECEIVED
JUN 12 2002
KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3864.00		
S.I. Tool	5.00			3869.00		
HMV	5.00			3874.00		
Packer	5.00			3879.00	21.00	Bottom Of Top Packer
Packer	5.00			3884.00		
Stubb	1.00			3885.00		
Recorder	0.01	3024	Inside	3885.01		
Perforations	7.00			3892.01		
Bullnose	3.00			3895.01	11.01	Bottom Packers & Anchor
Total Tool Length:	**32.01**					

101184

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

PO Box 352
Russell, KS 67665

ATTN: John O Farmer IV

Duncan #1

35-12s-21w Ellis Ks

Job Ticket: 15539 **DST#: 3**

Test Start: 2002.03.12 @ 15:11:37

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	36000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.36 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	SOCW 1%oil 99%water	5.190
250.00	O&GCMW 25%gas 20%oil 5%mud 50%water	3.507
1180.00	clean oil	16.552
180.00	GIP	2.525
0.00	RW .24@55	0.000

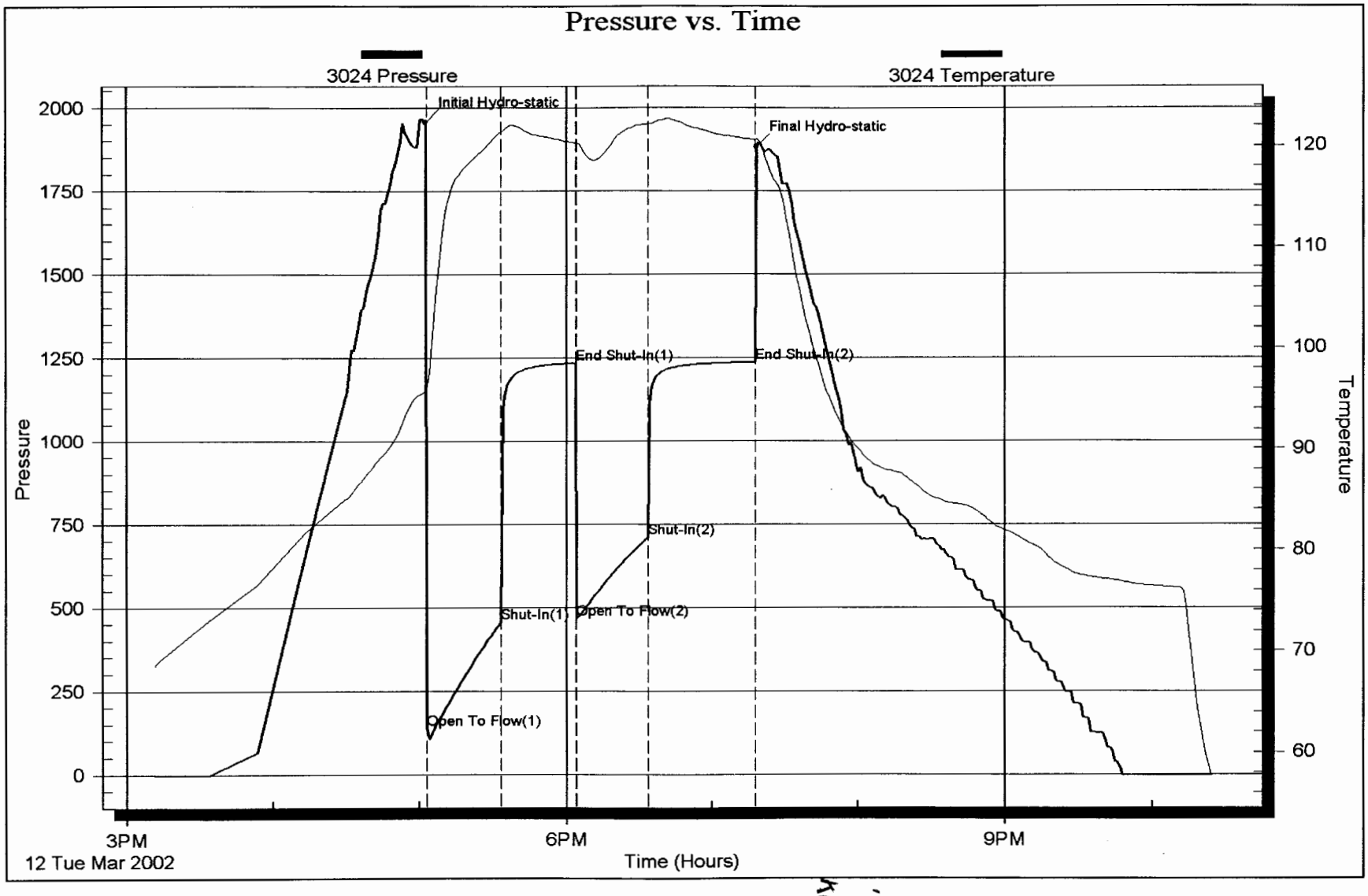
Total Length: 1980.00 ft Total Volume: 27.774 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 3024 **Inside** John O Farmer, Inc. 35-12s-21w Ellis Ks DST Test Number: 3



RECEIVED
JUN 12 2002
KCC WICHITA

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 15537

Test Ticket

Well Name & No. Duncan #1 Test No. 1 Date 3-11-02

Company John O. Farmer, Inc Zone Tested Arbuckle

Address P.O. Box 352 Russell, Ks. 67665 Elevation 2215 KB 2207 GL

Co. Rep / Geo. Randy Killian Cont. Discovery rig 1 Est. Ft. of Pay — Por. — %

Location: Sec. 35 Twp. 12S Rge. 21W Co. Ellis State Ks

No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3826 - 3872 Initial Str Wt./Lbs. 46000 Unseated Str Wt./Lbs. 48000

Anchor Length 46 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000

Top Packer Depth 3821 Tool Weight 2200

Bottom Packer Depth 3826 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3872 Wt. Pipe Run — Drill Collar Run —

Mud Wt. 9.3 LCM TR Vis. 48 WL 6.4 Drill Pipe Size 4½XH Ft. Run 3811

Blow Description IFP - Weak To A Strong Blow in 9 min

FFP - Weak To A Strong Blow in 12 min

Had A Weak Blowback on Shut-in ½"

Recovery — Total Feet 750 GIP 120 Ft. in DC — Ft. in DP 750

Rec. 470	Feet Of Clean Oil	%gas	%oil	%water	%mud
Rec. 280	Feet Of MCO	27 %gas	58 %oil	%water 15	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 117 °F Gravity 37 °API D@ 60 °F Corrected Gravity 37 °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 4000 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		1894	PSI	Recorder No.	3024	T-On Location	0900
(B) First Initial Flow Pressure		37	PSI	(depth)	3834	T-Started	1036
(C) First Final Flow Pressure		128	PSI	Recorder No.	11085	T-Open	1220
(D) Initial Shut-In Pressure		1226	PSI	(depth)	3838	T-Pulled	1605
(E) Second Initial Flow Pressure		128	PSI	Recorder No.	—	T-Out	1840
(F) Second Final Flow Pressure		298	PSI	(depth)	—	T-Off Location	1900
(G) Final Shut-in Pressure		1226	PSI	Initial Opening	30	Test ✓	700
(Q) Final Hydrostatic Mud		1863	PSI	Initial Shut-in	45	Jars	
				Final Flow	60	Safety Joint	
				Final Shut-in	90	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec. ✓	150
						Mileage ✓	22
						Other	2hrs 40
						TOTAL PRICE $ ✓	932

9.40

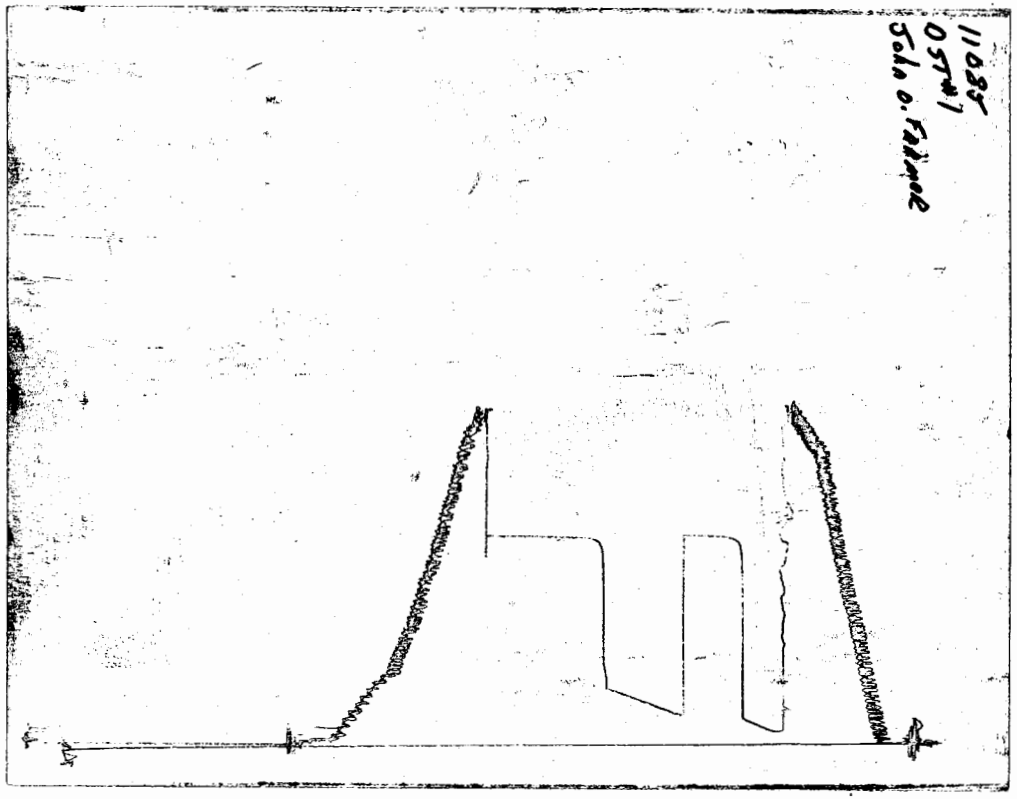
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By John O. Farmer IV

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

№ 15538

Test Ticket

Well Name & No. Duncan #1 Test No. 2 Date 3-12-02

Company John O. Farmer Inc Zone Tested Arbuckle

Address P.O. Box 352 Russell, Ks 67665 Elevation 2215 KB 2207 GL

Co. Rep / Geo. Randy Killian Cont. Discovery rig 1 Est. Ft. of Pay — Por. — %

Location: Sec. 35 Twp. 12S Rge. 21W Co. Ellis State Ks

No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3872-3884 Initial Str Wt./Lbs. 46000 Unseated Str Wt./Lbs. 52000

Anchor Length 12 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 58000

Top Packer Depth 3867 Tool Weight 2200

Bottom Packer Depth 3872 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3884 Wt. Pipe Run — Drill Collar Run —

Mud Wt. 9.3 LCM Tr Vis. 48 WL 6.4 Drill Pipe Size 4½ XH Ft. Run 3871

Blow Description IFP - Weak To A Strong Blow in 3 min

FFP - Weak To A Strong Blow in 28 min

No Blow on Shut-in

Recovery — Total Feet 1400 GIP — Ft. in DC — Ft. in DP 1400

Rec. 60	Feet Of MCO	15 %gas	75 %oil	%water	10 %mud
Rec. 1340	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 123 °F Gravity 37 °API D@ 60 °F Corrected Gravity 37 °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 4000 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		1930	PSI	Recorder No.	3024	T-On Location	0030
(B) First Initial Flow Pressure		46	PSI	(depth)	3873	T-Started	0122
(C) First Final Flow Pressure		317	PSI	Recorder No.	—	T-Open	0305
(D) Initial Shut-In Pressure		1232	PSI	(depth)	—	T-Pulled	0535
(E) Second Initial Flow Pressure		322	PSI	Recorder No.	—	T-Out	0825
(F) Second Final Flow Pressure		520	PSI	(depth)	—	T-Off Location	0845
(G) Final Shut-in Pressure		1236	PSI	Initial Opening	30	Test ✓	700
(Q) Final Hydrostatic Mud		1892	PSI	Initial Shut-in	30	Jars	
				Final Flow	30	Safety Joint	
				Final Shut-in	60	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec. ✓	150
						Mileage ✓	22
						Other	
						TOTAL PRICE $ ✓	872

TRILOBITE TESTING INC. 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 _____

Our Representative Ray Schwager Thank you

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 15539

Test Ticket

Well Name & No. Duncan #1 Test No. 3 Date 3-12-02

Company John O. Farmer, Inc. Zone Tested Arbuckle

Address P.O. Box 352 Russell, Ks 67665 Elevation 2215 KB 2207 GL

Co. Rep / Geo. Randy Killian Cont. Discovery rig 1 Est. Ft. of Pay — Por. — %

Location: Sec. 35 Twp. 12S Rge. 21W Co. Ellis State Ks

No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3884-3895 Initial Str Wt./Lbs. 46000 Unseated Str Wt./Lbs. 53000

Anchor Length 11 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000

Top Packer Depth 3879 Tool Weight 2200

Bottom Packer Depth 3884 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3895 Wt. Pipe Run — Drill Collar Run —

Mud Wt. 9.2 LCM TR Vis. 47 WL 6.4 Drill Pipe Size 4½XH Ft. Run 3872

Blow Description IFP - Weak To A Strong Blow in 2 min
FFP - Weak To A Strong Blow in 2 min
Had A Weak Blow back on shut-in

Recovery — Total Feet 1800 GIP 180 Ft. in DC — Ft. in DP 1800

Rec. 370	Feet Of 50 CW	%gas	%oil 1	%water 99	%mud
Rec. 250	Feet Of OTBCMW	%gas 25	%oil 20	%water 50	%mud 5
Rec. 1180	Feet Of CLEAN OIL	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 120 °F Gravity 35 °API D@ 60 °F Corrected Gravity 35 °API

RW .24 @ 55 °F Chlorides 36000 ppm Recovery Chlorides 4000 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud		1882	PSI	Recorder No.	3024	T-On Location 1445
(B) First Initial Flow Pressure		137	PSI	(depth)	3885	T-Started 1500
(C) First Final Flow Pressure		454	PSI	Recorder No.	—	T-Open 1715
(D) Initial Shut-In Pressure		1233	PSI	(depth)	—	T-Pulled 1920
(E) Second Initial Flow Pressure		467	PSI	Recorder No.	—	T-Out 2210
(F) Second Final Flow Pressure		709	PSI	(depth)	—	T-Off Location 2300
(G) Final Shut-in Pressure		1236	PSI	Initial Opening	30	Test ✓ 700
(Q) Final Hydrostatic Mud		1877	PSI	Initial Shut-in	30	Jars
				Final Flow	30	Safety Joint
				Final Shut-in	45 60	Straddle
						Circ. Sub
						Sampler
						Extra Packer
						Elec. Rec. ✓ 150
						Mileage ✓ 22
						Other
						TOTAL PRICE $ ✓ 872

TRILOBITE TESTING INC. 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 Killian

Our Representative Ray Schwager Thank You