11-11-18W

15-051-25560

Bill Bowman Oil CO

Feldkamp # 1

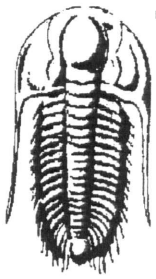
11 11 18W Ellis KS

DST # 1

Arbuckle

2006.11.12

11-11-18W



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bill Bowman Oil CO**

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

11 11 18W Ellis KS

Feldkamp # 1

Start Date: 2006.11.12 @ 02:05:42
End Date: 2006.11.12 @ 08:03:42
Job Ticket #: 26125 DST #: 1

15-051-25560-00-00
52 NW SW SW
735 FSL 330 FWL

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

DRILL STEM TEST REPORT

Bill Bowman Oil CO

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

Feldkamp # 1

11 11 18W Ellis KS

Job Ticket: 26125 **DST#: 1**

Test Start: 2006.11.12 @ 02:05:42

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:15:42
Time Test Ended: 08:03:42

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 31

Interval: 3386.00 ft (KB) To 3475.00 ft (KB) (TVD)
Total Depth: 3475.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

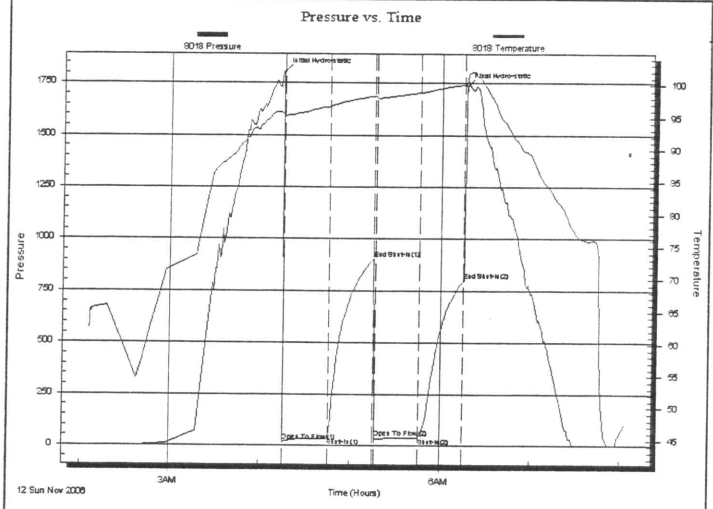
Reference Elevations: 1895.00 ft (KB)
1890.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 38.74 psig @ 3390.00 ft (KB)
Start Date: 2006.11.12 End Date: 2006.11.12
Start Time: 02:05:47 End Time: 08:03:41

Capacity: 7000.00 psig
Last Calib.: 2006.11.12
Time On Btm: 2006.11.12 @ 04:15:12
Time Off Btm: 2006.11.12 @ 06:15:42

TEST COMMENT: IF Weak Surface blow built to 1 "
ISI Dead
FF Very weak surface blow
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.79	95.56	Initial Hydro-static
1	20.59	95.17	Open To Flow (1)
31	38.64	96.74	Shut-In(1)
60	904.78	98.36	End Shut-In(1)
61	36.39	98.07	Open To Flow (2)
90	38.74	98.88	Shut-In(2)
120	801.98	100.09	End Shut-In(2)
121	1733.17	100.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
44.50	D.Mud	0.35
0.50	Oil	0.01

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bill Bowman Oil CO

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

Feldkamp # 1

11 11 18W Ellis KS

Job Ticket: 26125 **DST#: 1**

Test Start: 2006.11.12 @ 02:05:42

Tool Information

Drill Pipe:	Length:	3351.00 ft	Diameter:	3.80 inches	Volume:	47.01 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	
					Total Volume:	47.16 bbl	

Drill Pipe Above KB:	15.00 ft
Depth to Top Packer:	3386.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	89.00 ft
Tool Length:	109.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	40000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	32000.00 lb
Final	32000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3367.00		
Shut In Tool	5.00			3372.00		
Hydraulic tool	5.00			3377.00		
Packer	4.00			3381.00	20.00	Bottom Of Top Packer
Packer	5.00			3386.00		
Stubb	1.00			3387.00		
Perforations	2.00			3389.00		
Change Over Sub	1.00			3390.00		
Recorder	0.00	8018	Inside	3390.00		
Blank Spacing	63.00			3453.00		
Change Over Sub	1.00			3454.00		
Recorder	0.00	11084	Outside	3454.00		
Perforations	18.00			3472.00		
Bullnose	3.00			3475.00	89.00	Bottom Packers & Anchor
Total Tool Length:	**109.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Bill Bowman Oil CO

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

Feldkamp # 1

11 11 18W Ellis KS

Job Ticket: 26125 **DST#: 1**

Test Start: 2006.11.12 @ 02:05:42

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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

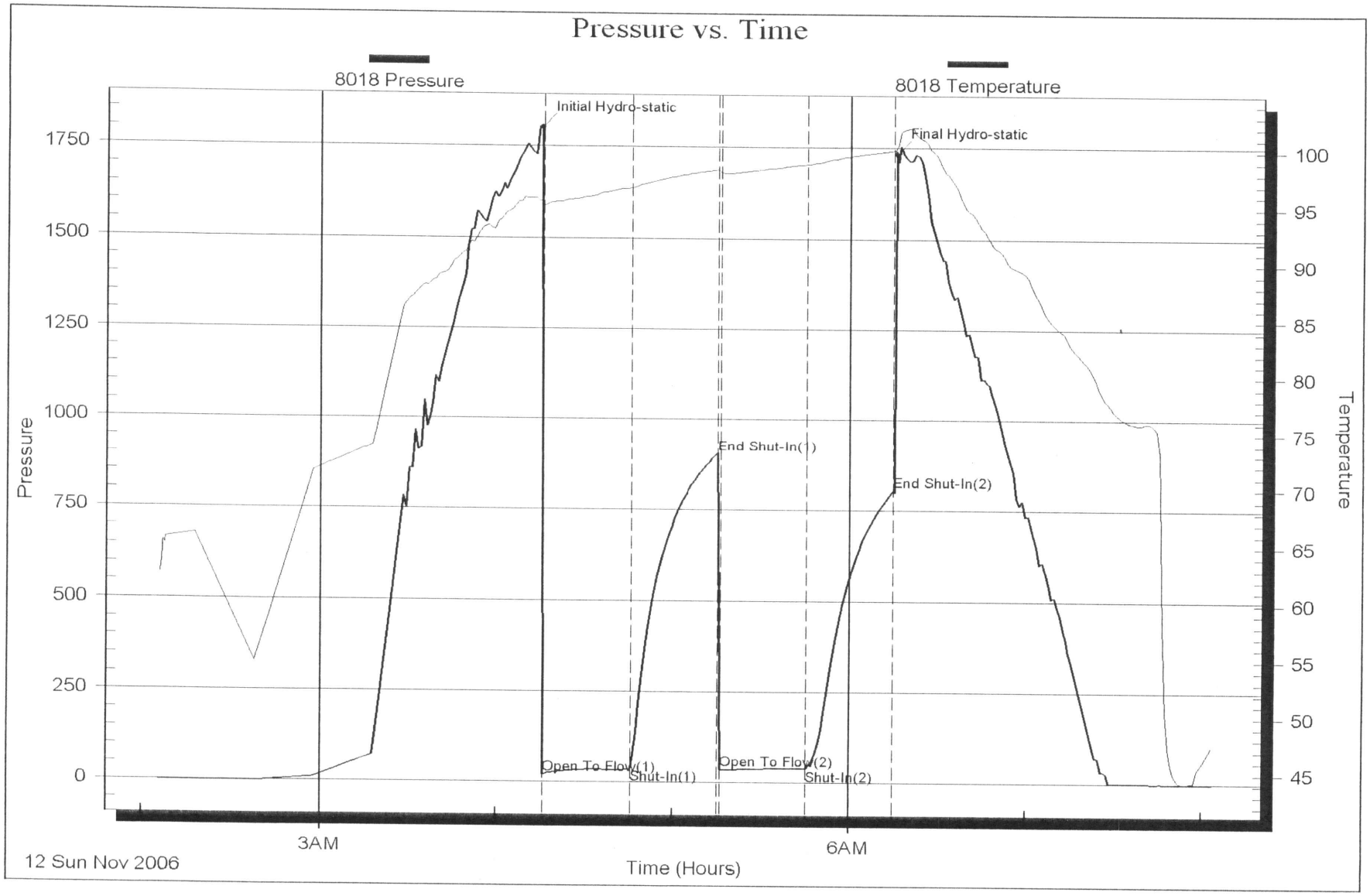
Recovery Information

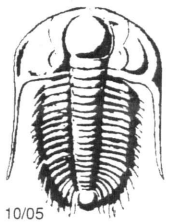
Recovery Table

Length ft	Description	Volume bbl
44.50	D.Mud	0.351
0.50	Oil	0.007

Total Length: 45.00 ft Total Volume: 0.358 bbl

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


Pressure vs. Time
8018 Pressure
8018 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
95
90
85
80
75
70
65
60
55
50
45
3AM
6AM
12 Sun Nov 2006
Time (Hours)



10/05

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26125

Test Ticket

Well Name & No. FELDKAMP #1 Test No. #1 Date 11-12-06

Company BILL BOWMAN OIL CO. Zone Tested ARBUCKLE

Address 2640 W. RD. NATOMA, KS. 67651 Elevation 1895 KB 1890 GL

Co. Rep / Geo. ~~BILL~~ JASON ALM Rig AMERICAN EAGLE #3

Location: Sec. 11 Twp. 11S Rge. 18W Co. ELLIS State KS

Comment: MADE 2 TRIPS TO RIG Release date / time:

Interval Tested 3386 To 3475 Initial Str Wt./Lbs. 32,000 Unseated Str Wt/Lbs. 32,000

Anchor Length 89' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 40,000

Top Packer Depth 3381 Tool Weight 2,200

Bottom Packer Depth 3386 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 3475 Wt. Pipe Run 0 Drill Collar Run 30

Mud Wt. 9.7 LCM 3# Vis. 47 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 3351

Blow Description IF - WEAK SURFACE BUILT TO 1" IN. ISI - DEAD

FF - VERY WEAK SURFACE BLOW FSI - DEAD

Recovery - Total Feet 45 GIP 0 Ft. in DC 30 Ft. in DP 15

Rec. 44½'	Feet of D. MUD	%gas	%oil	%water	%mud
Rec. ½'	Feet 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 100 °F Gravity — °API D @ — °F Corrected Gravity — °API

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

	AK-1	Alpine				
(A) Initital Hydrostatic Mud		1801 PSI	Recorder No.	8018	Test ✓
(B) First Initial Flow Pressure		20 PSI	(depth)	3390	Jars
(C) First Final Flow Pressure		38 PSI	Recorder No.	11084	Safety Jt.
(D) Initial Shut-In Pressure		904 PSI	(depth)	3454	Circ Sub
(E) Second Initial Flow Pressure		36 PSI	Recorder No.		Sampler
(F) Second Final Flow Pressure		38 PSI	(depth)		Straddle
(G) Final Shut-In Pressure		801 PSI	**Initial Opening**	30	Ext. Packer
(Q) Final Hydrostatic Mud		1733 PSI	Initial Shut-In	30	Shale Packer
			Final Flow	30	Ruined Packer
			Final Shut-In	30	Mileage RT - 30 x 2
			T-On Location	12:50	Sub Total:
			T-Started	02:05	Std. By
			T-Open	04:15	Acc. Chg:
			T-Pulled	06:15	Other:
			T-Out	08:03	Total:

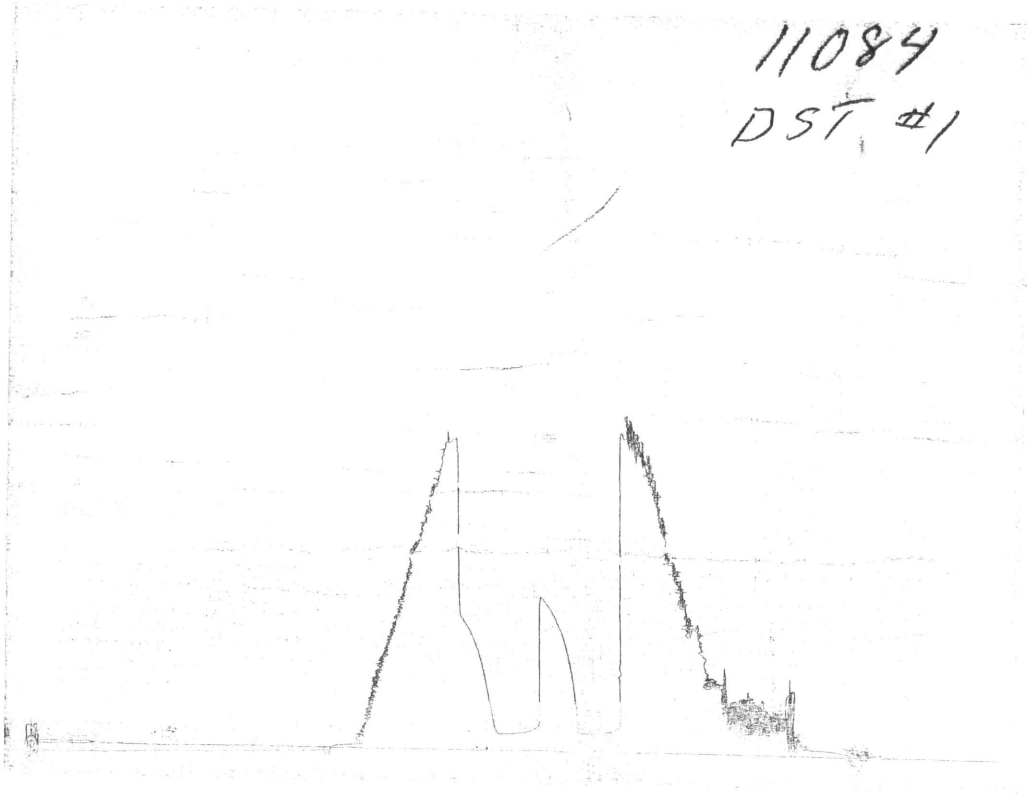
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By

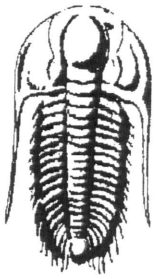
Our Representative John J. Schmidt

CHART PAGE

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



11-11-18W



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bill Bowman Oil CO**

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

11 11 18W Ellis KS

Feldkamp # 1

Start Date: 2006.11.12 @ 19:17:21
End Date: 2006.11.13 @ 01:29:51
Job Ticket #: 26151 DST #: 2

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Bill Bowman Oil CO

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

Feldkamp # 1

11 11 18W Ellis KS

Job Ticket: 26151 **DST#: 2**

Test Start: 2006.11.12 @ 19:17:21

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:26:21
Time Test Ended: 01:29:51

Test Type: Conventional Straddle
Tester: John Schmidt
Unit No: 31

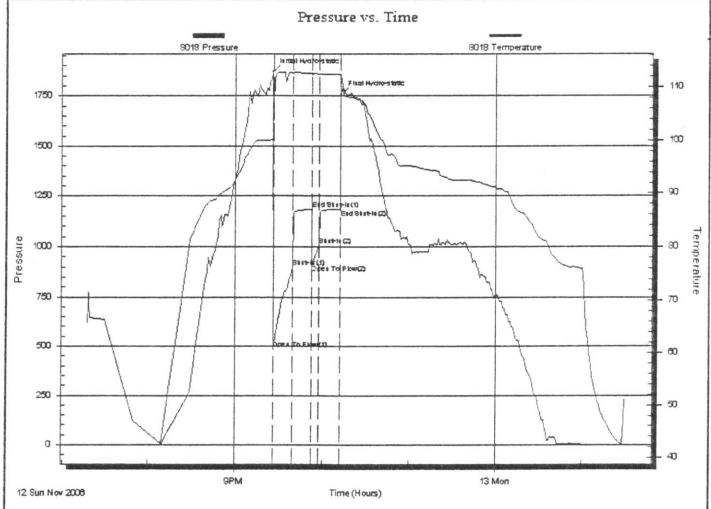
Interval: 3484.00 ft (KB) To 3494.00 ft (KB) (TVD)
Total Depth: 3543.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1895.00 ft (KB)
1890.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8018 **Inside**
Press@RunDepth: 1005.51 psig @ 3485.00 ft (KB)
Start Date: 2006.11.12 End Date: 2006.11.13
Start Time: 19:17:26 End Time: 01:29:50

Capacity: 7000.00 psig
Last Calib.: 2006.11.13
Time On Btm: 2006.11.12 @ 21:25:51
Time Off Btm: 2006.11.12 @ 22:11:51

TEST COMMENT: IF Strong BOB 30 sec.
ISI Dead
FF Strong BOB 30 sec.
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.12	100.19	Initial Hydro-static
1	484.48	107.15	Open To Flow (1)
14	896.12	112.61	Shut-In(1)
27	1182.88	112.45	End Shut-In(1)
27	910.08	112.12	Open To Flow (2)
32	1005.51	112.40	Shut-In(2)
46	1183.63	112.25	End Shut-In(2)
46	1757.31	112.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2160.00	S.Water	30.03

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bill Bowman Oil CO

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

Feldkamp # 1

11 11 18W Ellis KS

Job Ticket: 26151 **DST#: 2**

Test Start: 2006.11.12 @ 19:17:21

Tool Information

Drill Pipe:	Length:	3449.00 ft	Diameter:	3.80 inches	Volume:	48.38 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	48.53 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		3484.00 ft					Final	42000.00 lb
Depth to Bottom Packer:		3494.00 ft						
Interval between Packers:		10.00 ft						
Tool Length:		79.00 ft						
Number of Packers:		3	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3465.00		
Shut In Tool	5.00			3470.00		
Hydraulic tool	5.00			3475.00		
Packer	4.00			3479.00	20.00	Bottom Of Top Packer
Packer	5.00			3484.00		
Stubb	1.00			3485.00		
Recorder	0.00	8018	Inside	3485.00		
Perforations	8.00			3493.00		
Blank Off Sub	1.00			3494.00	10.00	Tool Interval
Packer	0.00			3494.00		
Stubb	1.00			3495.00		
Perforations	5.00			3500.00		
Change Over Sub	1.00			3501.00		
Recorder	0.00	11084		3501.00		
Blank Spacing	31.00			3532.00		
Change Over Sub	1.00			3533.00		
Perforations	7.00			3540.00		
Bullnose	3.00			3543.00	49.00	Bottom Packers & Anchor
Total Tool Length:	**79.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Bill Bowman Oil CO

2640 W Rd
Natoma KS 67651

ATTN: Bill Bowman

Feldkamp # 1

11 11 18W Ellis KS

Job Ticket: 26151 **DST#: 2**

Test Start: 2006.11.12 @ 19:17:21

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:	36000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

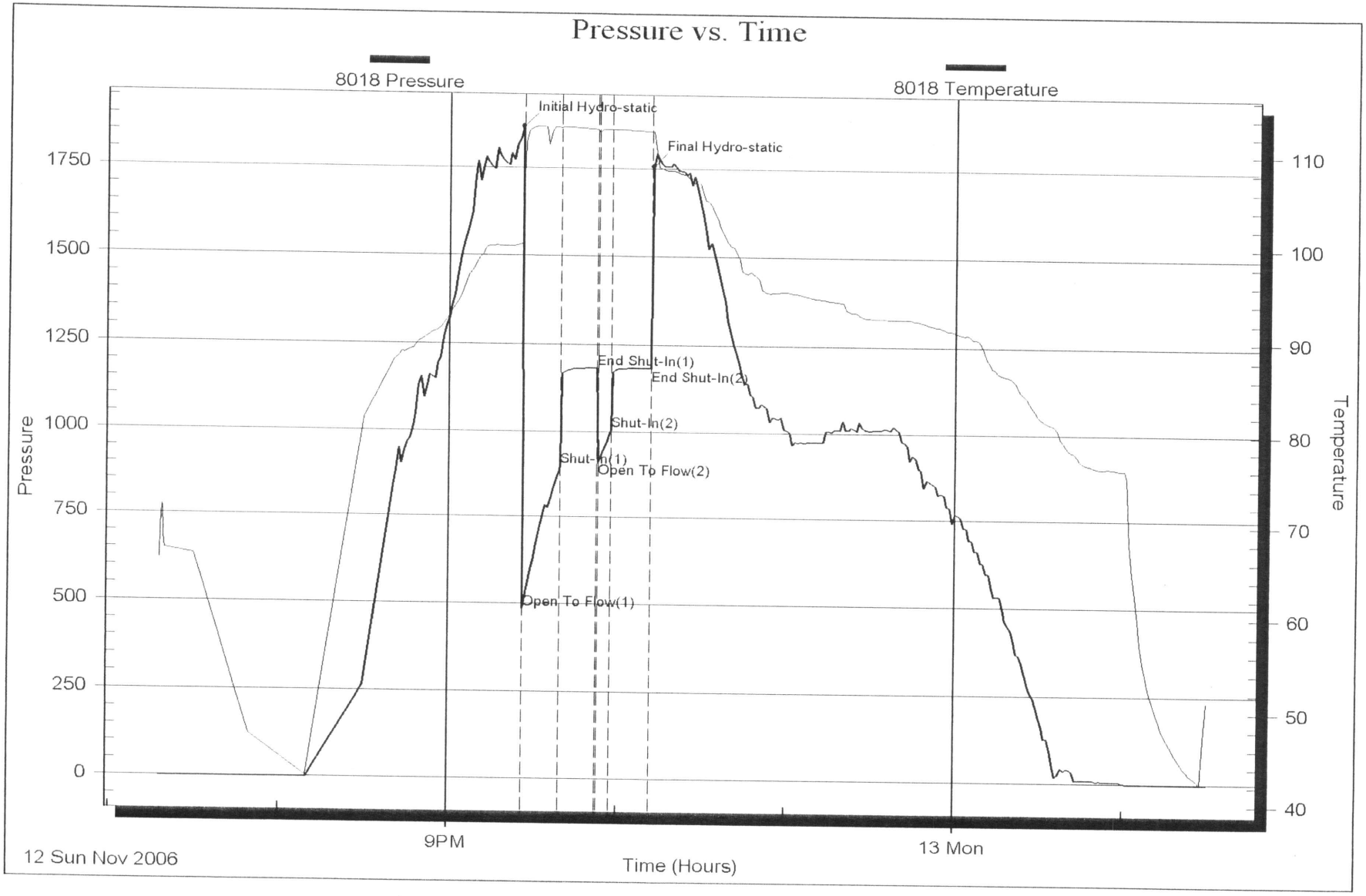
Recovery Information

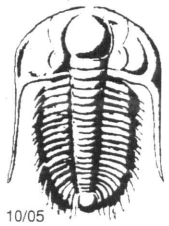
Recovery Table

Length ft	Description	Volume bbl
2160.00	S.Water	30.026

Total Length: 2160.00 ft Total Volume: 30.026 bbl

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


Pressure vs. Time
8018 Pressure
8018 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
9PM
13 Mon
12 Sun Nov 2006
Time (Hours)



10/05

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26151

Test Ticket

Well Name & No. FELDKAMP #1 Test No. #2 Date 11-12-06

Company BILL BOWMAN OIL CO. Zone Tested ARBUCKLE

Address _____ Elevation 1895 KB 1890 GL

Co. Rep / Geo. JASON ALM Rig AMERICAN EAGLE #3

Location: Sec. 11 Twp. 11S Rge. 18W Co. ELLIS State KS

Comment: _____ Release date / time: _____

Interval Tested 3484 TO 3494 Initial Str Wt./Lbs. 32,000 Unseated Str Wt/Lbs. 42,000

Anchor Length 10' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000

Top Packer Depth 3479' & 3484' Tool Weight 2,600

Bottom Packer Depth 3494 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 3543 Wt. Pipe Run 0 Drill Collar Run 30

Mud Wt. 9.9 LCM 3# Vis. 66 WL 10.2 Drill Pipe Size 4½ XH Ft. Run 3449

Blow Description IF- STRONG B.O.B. 30 SEC, FSI - DEAD

FF- STRONG B.O.B. 30 SEC, FSI - DEAD

Recovery - Total Feet 2160 GIP 0 Ft. in DC 30' Ft. in DP @ 2130

Rec. 2160	Feet of S, W.	%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
Rec.	Feet of	%gas	%oil	%water	%mud

BHT 112 °F Gravity — °API D @ — °F Corrected Gravity — °API

RW .28 @ 50 °F Chlorides 36,000 ppm Recovery — Chlorides 5,500 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud		1869 PSI	Recorder No.	8018	Test ✓	
(B) First Initial Flow Pressure		484 PSI	(depth)	3485	Jars	
(C) First Final Flow Pressure		896 PSI	Recorder No.	11084	Safety Jt.	
(D) Initial Shut-In Pressure		1182 PSI	(depth)		Circ Sub ✓	
(E) Second Initial Flow Pressure		910 PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure		1005 PSI	(depth)		Straddle ✓	
(G) Final Shut-In Pressure		1183 PSI	**Initial Opening**	10	Ext. Packer	
(Q) Final Hydrostatic Mud		1757 PSI	Initial Shut-In	15	Shale Packer	
			Final Flow	5	Ruined Packer	
			Final Shut-In	15	Mileage RT-30	
			T-On Location	18:30	Sub Total:	
			T-Started	19:17	Std. By	
			T-Open	21:26	Acc. Chg:	
			T-Pulled	22:11	Other:	
			T-Out	01:29	Total:	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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 John J. Schmidt

CHART PAGE

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

