

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Molitor Oil Company**

9517 SW 80th Ave
Spivey KS 67142

ATTN: Chris Bean

30-29s-8w-Kingman-KS

Molitor #2

Start Date: 2006.03.08 @ 13:45:15

End Date: 2006.03.08 @ 23:23:00

Job Ticket #: 24350 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Molitor Oil Company

9517 SW 80th Ave
Spivey KS 67142

ATTN: Chris Bean

Molitor #2

30-29s-8w-Kingman-KS

Job Ticket: 24350 **DST#: 1**

Test Start: 2006.03.08 @ 13:45:15

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:57:00
Time Test Ended: 23:23:00

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 30

Interval: 4197.00 ft (KB) To 4259.00 ft (KB) (TVD)
Total Depth: 4259.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

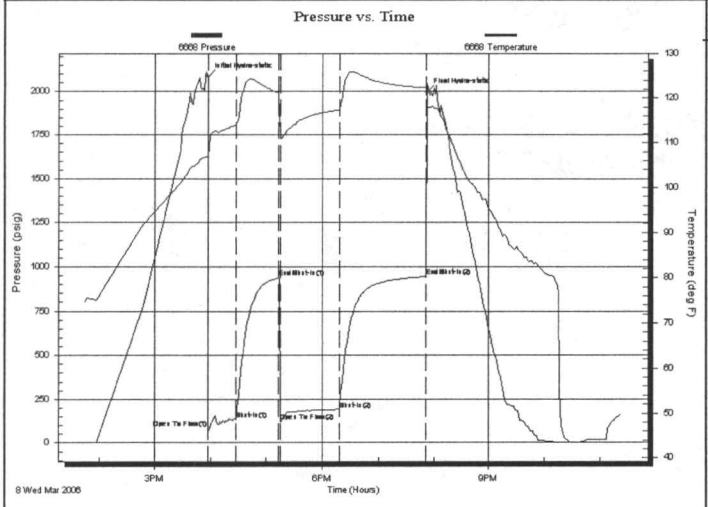
Reference Elevations: 1658.00 ft (KB)
1653.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6668 **Inside**

Press@RunDepth: 191.40 psig @ 4198.00 ft (KB)
Start Date: 2006.03.08 End Date: 2006.03.08
Start Time: 13:45:16 End Time: 23:23:00

Capacity: 7000.00 psig
Last Calib.: 2006.03.08
Time On Btm: 2006.03.08 @ 15:56:30
Time Off Btm: 2006.03.08 @ 19:52:15

TEST COMMENT: IF: Strong blow building to BOB in 2 minutes, GTS in 20 minutes.
ISI: Bled off 6 minutes, blow back building to .5" in bucket.
FF: Strong blow building to BOB immediately.
FSI: Bled off, blow back bu



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.91	106.89	Initial Hydro-static
1	84.69	106.98	Open To Flow (1)
31	133.08	113.99	Shut-In(1)
77	937.21	121.23	End Shut-In(1)
79	125.18	111.11	Open To Flow (2)
142	191.40	117.37	Shut-In(2)
236	944.75	122.33	End Shut-In(2)
236	1996.64	118.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
390.00	Drilling Mud 100%m	3.28
0.00	Gas in all fluid free pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	16.50	49.02
Last Gas Rate	0.25	40.00	86.30
Max. Gas Rate	0.25	40.00	86.30

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Molitor Oil Company

9517 SW 80th Ave
Spivey KS 67142

ATTN: Chris Bean

Molitor #2

30-29s-8w-Kingman-KS

Job Ticket: 24350 **DST#: 1**

Test Start: 2006.03.08 @ 13:45:15

Tool Information

Drill Pipe:	Length:	3950.00 ft	Diameter:	3.80 inches	Volume:	55.41 bbl	Tool Weight:		2500.00 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:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:		78000.00 lb
					Total Volume:	56.59 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	51000.00 lb
Depth to Top Packer:		4197.00 ft						Final	54000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		62.00 ft							
Tool Length:		89.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4175.00		
Hydraulic tool	5.00			4180.00		
Jars	5.00			4185.00		
Safety Joint	2.00			4187.00		
Packer	5.00			4192.00	27.00	Bottom Of Top Packer
Packer	5.00			4197.00		
Stubb	1.00			4198.00		
Recorder	0.00	6668	Inside	4198.00		
Blank Spacing	33.00			4231.00		
Perforations	25.00			4256.00		
Recorder	0.00	13266	Outside	4256.00		
Bullnose	3.00			4259.00	62.00	Bottom Packers & Anchor
Total Tool Length:	**89.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Molitor Oil Company

9517 SW 80th Ave
Spivey KS 67142

ATTN: Chris Bean

Molitor #2

30-29s-8w-Kingman-KS

Job Ticket: 24350 **DST#: 1**

Test Start: 2006.03.08 @ 13:45:15

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:	ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	13.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	0.04 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	Drilling Mud 100%m	3.284
0.00	Gas in all fluid free pipe	0.000

Total Length: 390.00 ft Total Volume: 3.284 bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Molitor Oil Company

9517 SW 80th Ave
Spivey KS 67142

ATTN: Chris Bean

Molitor #2

30-29s-8w-Kingman-KS

Job Ticket: 24350 **DST#: 1**

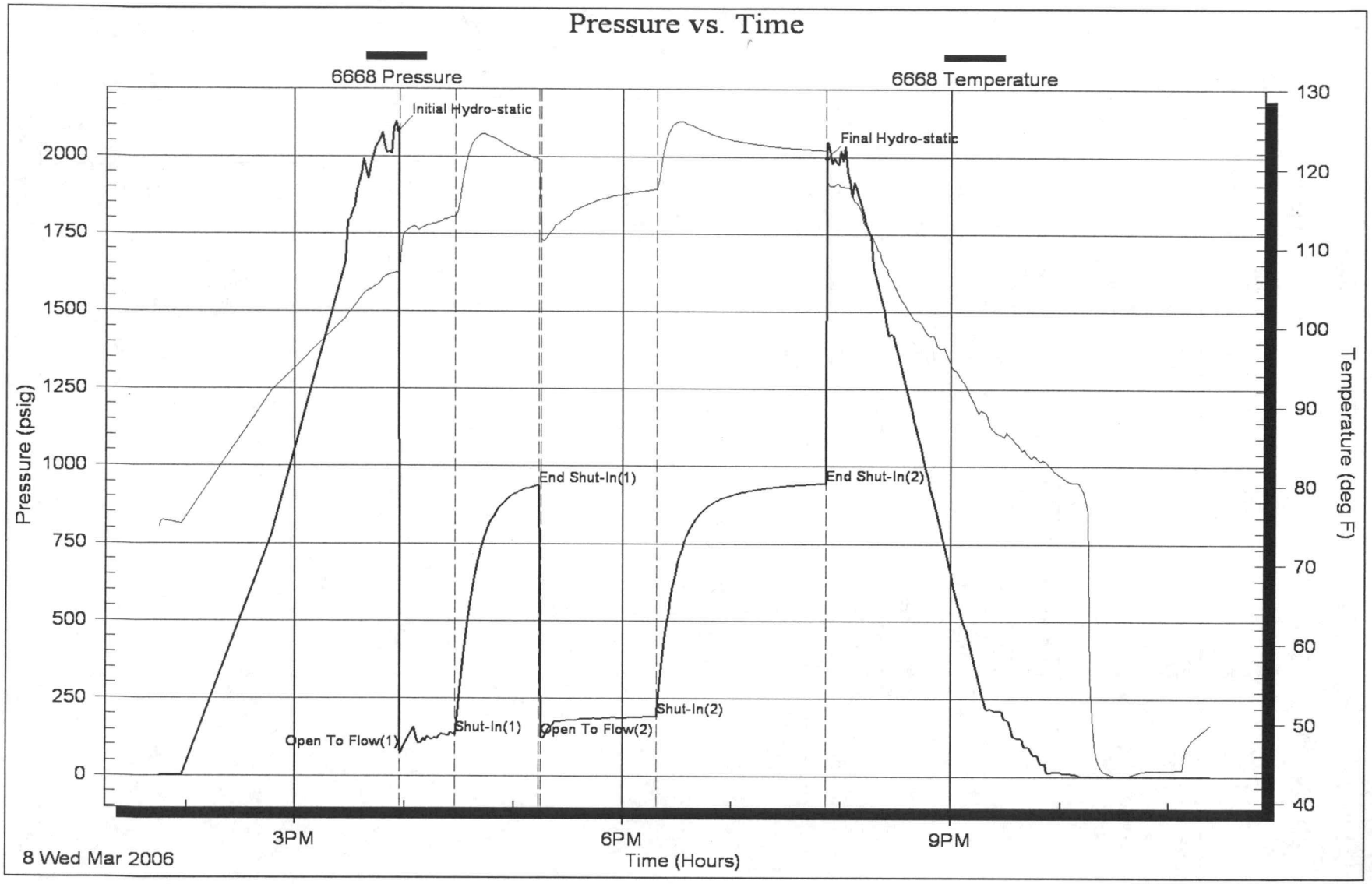
Test Start: 2006.03.08 @ 13:45:15

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
1	30	0.25	16.50	49.02
1	30	0.25	16.50	49.02
1	30	0.25	16.50	49.02
2	10	0.25	38.00	83.13
2	20	0.25	39.00	84.71
2	30	0.25	40.00	86.30
2	40	0.25	40.00	86.30
2	50	0.25	40.00	86.30


Pressure vs. Time
6668 Pressure
6668 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 (psig)
Temperature (deg F)
Time (Hours)
3PM
6PM
9PM
8 Wed Mar 2006
2000
1750
1500
1250
1000
750
500
250
0
130
120
110
100
90
80
70
60
50
40

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

10/05

8509

№ 24350

Test Ticket

Well Name & No. Molitor #2 Test No. 1 Date 3-8-06

Company Molitor Oil Company Zone Tested Mississippian

Address 9517 S.W. 80th Ave., Spivey, KS 67142 Elevation 1658 KB 1653 GL

Co. Rep / Geo. Chris Bean Rig Landmark Drilling Company

Location: Sec. 30 Twp. 29S Rge. 8W Co. Kingman State KS

Comment: Release date / time: 3-8-06 ( )

Interval Tested 4197-4259 Initial Str Wt./Lbs. 51000 Unseated Str Wt/Lbs. 54000

Anchor Length 62 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 78000

Top Packer Depth 4192 Tool Weight 2500

Bottom Packer Depth 4197 Hole Size 7 7/8" YES Rubber Size 6 3/4" YES

Total Depth 4259 Wt. Pipe Run NONE Drill Collar Run YES 4" H-90 2

Mud Wt. 9.4 LCM 0 Vis. 47 WL 13.6 Drill Pipe Size 4½" XH Ft. Run 3950

Blow Description IF: Strong blow building to BOB in 2 minutes, GTS in 20 min.
ISI: Bled off six minutes, Blowback building to ½" in bucket.
FF: Strong blow building to BOB immediately.
FSI: Bled off, blowback building to 1" in bucket.

Recovery - Total Feet 390 GIP AFFP Ft. in DC 240 Ft. in DP 150

Rec. 390 Feet of Drilling Mud %gas %oil %water 100 %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 122.33 °F Gravity NC °API D @ °F Corrected Gravity °API

RW NC @ °F Chlorides — ppm Recovery — Chlorides 5000 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud		2086 PSI	Recorder No.	6668	Test	9 hour
(B) First Initial Flow Pressure		72 PSI	(depth)	4198	Jars	
(C) First Final Flow Pressure		133 PSI	Recorder No.	13266	Safety Jt.	
(D) Initial Shut-In Pressure		937 PSI	(depth)	4256	Circ Sub	NC
(E) Second Initial Flow Pressure		119 PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure		191 PSI	(depth)		Straddle	
(G) Final Shut-In Pressure		945 PSI	**Initial Opening**	30	Ext. Packer	
(Q) Final Hydrostatic Mud		2049 PSI	Initial Shut-In	45	Shale Packer	
			Final Flow	70	Ruined Packer	
			Final Shut-In	90	Mileage	82
			T-On Location	12:45	Sub Total:	1527.50
			T-Started	13:45 (1 hr 40 m)	Std. By	3/4 hour 37.50
			T-Open	15:57	Acc. Chg:	
			T-Pulled	19:52	Other:	
			T-Out	22:30	Total:	$1565.00

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 Chris Bean

Our Representative

TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

GAS VOLUME REPORT

Molitor Oil Company (OPERATOR) | Molitor #2 (WELL NAME AND NO.) | 1 (DST NO.)

Initial Flow | Mississippian | Final Flow

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
30	16½PSI	¼"	45,750	10	38 psi	¼"	77,300
				20	39 psi	¼"	78,800
				30	40 psi	¼"	80,300
				40	40 psi	¼"	80,300
				50	40 psi	¼"	80,300
				60	40 psi	¼"	80,300

Remarks:

CHART PAGE

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

