

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Herman Loeb LLC**

PO Box 838
Lawrenceville IL 62439

ATTN: George Payne

3 35S 12W Barber KS

Lohman B-9

Start Date: 2011.03.28 @ 01:38:19

End Date: 2011.03.28 @ 12:00:04

Job Ticket #: 41636 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Herman Loeb LLC

Lohman B-9

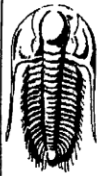
3 35S 12W Barber KS

DST # 1

Mississippi

2011.03.28

ORIGINAL



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman Loeb LLC
 PO Box 838
 Lawrenceville IL 62439
 ATTN: George Payne

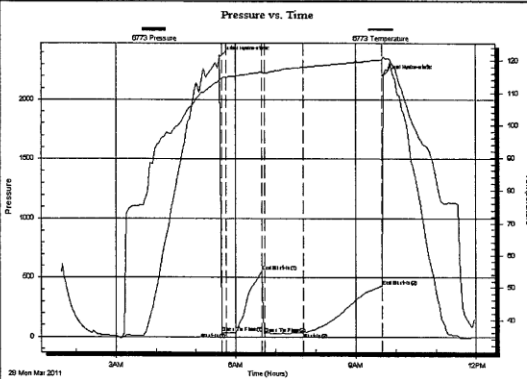
Lohman B-9
3 35S 12W Barber KS
 Job Ticket: 41636 DST#: 1
 Test Start: 2011.03.28 @ 01:38:19

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 05:39:19
 Time Test Ended: 12:00:04
 Interval: **4775.00 ft (KB) To 4820.00 ft (KB) (TVD)**
 Total Depth: **4820.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole**
 Tester: **Chris staats**
 Unit No: **34**
 Reference Elevations: **1419.00 ft (KB)**
1409.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6773 Inside
 Press@RunDepth: **34.28 psig @ 4775.00 ft (KB)**
 Start Date: **2011.03.28** End Date: **2011.03.28**
 Start Time: **01:38:24** End Time: **12:00:04**
 Capacity: **8000.00 psig**
 Last Calib.: **2011.03.28**
 Time On Btm: **2011.03.28 @ 05:36:19**
 Time Off Btm: **2011.03.28 @ 09:41:04**

TEST COMMENT: IF: Weak blow 1 1/2 in 15 min
 IS: No blow back
 FF: Weak blow 1"
 FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2363.52	113.96	Initial Hydro-static
3	33.93	114.63	Open To Flow (1)
10	32.93	115.02	Shut-In(1)
63	550.80	116.52	End Shut-In(1)
67	31.37	116.30	Open To Flow (2)
126	34.28	118.08	Shut-In(2)
243	430.04	120.25	End Shut-In(2)
245	2208.29	121.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DRLG mud	0.21

Gas Rates

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

41636



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman Loeb LLC
 PO Box 838
 Lawrenceville IL 62439
 ATTN: George Payne

Lohman B-9
3 35S 12W Barber KS
 Job Ticket: 41636 **DST#: 1**
 Test Start: 2011.03.28 @ 01:38:19

Tool Information

Drill Pipe:	Length: 4763.00 ft	Diameter: 3.80 inches	Volume: 66.81 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: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 66.81 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4775.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4748.00	
Shut In Tool	5.00			4753.00	
Hydraulic tool	5.00			4758.00	
Jars	5.00			4763.00	
Safety Joint	3.00			4766.00	
Packer	4.00			4770.00	28.00 Bottom Of Top Packer
Packer	5.00			4775.00	
Recorder	0.00	8166	Outside	4775.00	
Recorder	0.00	6773	Inside	4775.00	
Perforations	6.00			4781.00	
Drill Pipe	31.00			4812.00	
Perforations	5.00			4817.00	
Bullnose	3.00			4820.00	45.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Herman Loeb LLC
PO Box 838
Lawrenceville IL 62439
ATTN: George Payne

Lohman B-9
3 35S 12W Barber KS
Job Ticket: 41636 DST#: 1
Test Start: 2011.03.28 @ 01:38:19

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:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.38 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5500.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	DRLG mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

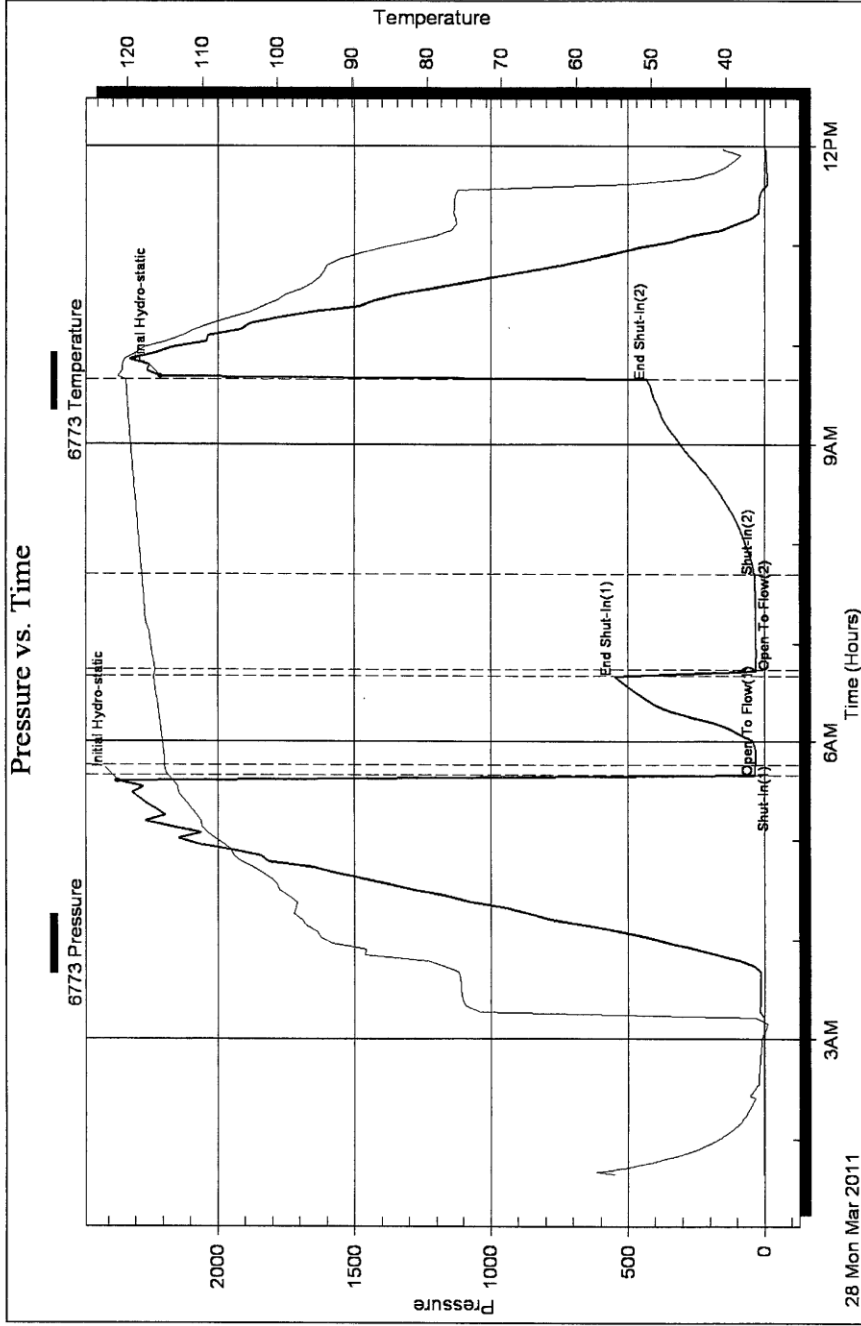
DST Test Number: 1

3 35S 12W Barber KS

Herrman Loeb LLC

Inside

Serial #: 6773





DRILL STEM TEST REPORT

Prepared For: **Herman Loeb LLC**

PO Box 838
Lawrenceville IL 62439

ATTN: George Payne

3 35S 12W Barber KS

Lohman B-9

Start Date: 2011.03.29 @ 22:44:44

End Date: 2011.03.30 @ 09:09:59

Job Ticket #: 41637 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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DRILL STEM TEST REPORT

Herman Loeb LLC
PO Box 838
Lawrenceville IL 62439
ATTN: George Payne

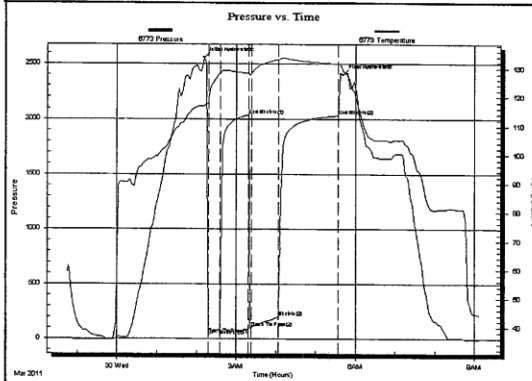
Lohman B-9
3 35S 12W Barber KS
Job Ticket: 41637 DST#: 2
Test Start: 2011.03.29 @ 22:44:44

GENERAL INFORMATION:

Formation: **Misner**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:18:29
Time Test Ended: 09:09:59
Test Type: Conventional Bottom Hole
Tester: Chris Staats
Unit No: 34
Interval: **5140.00 ft (KB) To 5162.00 ft (KB) (TVD)**
Reference Elevations: 1419.00 ft (KB)
Total Depth: 5162.00 ft (KB) (TVD) 1409.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 6773 Inside
Press@RunDepth: 200.79 psig @ 5140.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.29 End Date: 2011.03.30 Last Calib.: 2011.03.30
Start Time: 22:44:49 End Time: 09:09:59 Time On Btm: 2011.03.30 @ 02:10:59
Time Off Btm: 2011.03.30 @ 05:40:59

TEST COMMENT: IF: Strong blow BOB 3 min
IS: No blow back
FS: Strong blow BOB 20 min
IS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2556.74	117.00	Initial Hydro-static
8	40.84	119.59	Open To Flow (1)
25	87.32	128.39	Shut-In(1)
68	2033.00	128.39	End Shut-In(1)
72	101.97	128.14	Open To Flow (2)
113	200.79	133.14	Shut-In(2)
203	2029.38	131.75	End Shut-In(2)
210	2401.51	129.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	620' GIP	0.00
122.00	m oil spots 80% w 20% m	1.71
240.00	w 100%	3.37

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman Loeb LLC

Lohman B-9

PO Box 838
Lawrenceville IL 62439

3 35S 12W Barber KS

Job Ticket: 41637 **DST#: 2**

ATTN: George Payne

Test Start: 2011.03.29 @ 22:44:44

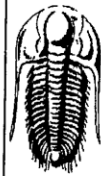
Tool Information

Drill Pipe:	Length: 5136.00 ft	Diameter: 3.80 inches	Volume: 72.04 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: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 72.04 bbl		Tool Chased 2.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	5140.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5113.00	
Shut In Tool	5.00			5118.00	
Hydraulic tool	5.00			5123.00	
Jars	5.00			5128.00	
Safety Joint	3.00			5131.00	
Packer	4.00			5135.00	28.00 Bottom Of Top Packer
Packer	5.00			5140.00	
Recorder	0.00	8166	Outside	5140.00	
Recorder	0.00	6773	Inside	5140.00	
Perforations	19.00			5159.00	
Bullnose	3.00			5162.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



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DRILL STEM TEST REPORT

FLUID SUMMAR

Herman Loeb LLC
PO Box 838
Lawrenceville IL 62439
ATTN: George Payne

Lohman B-9
3 35S 12W Barber KS
Job Ticket: 41637 DST#: 2
Test Start: 2011.03.29 @ 22:44:44

Mud and Cushion Information

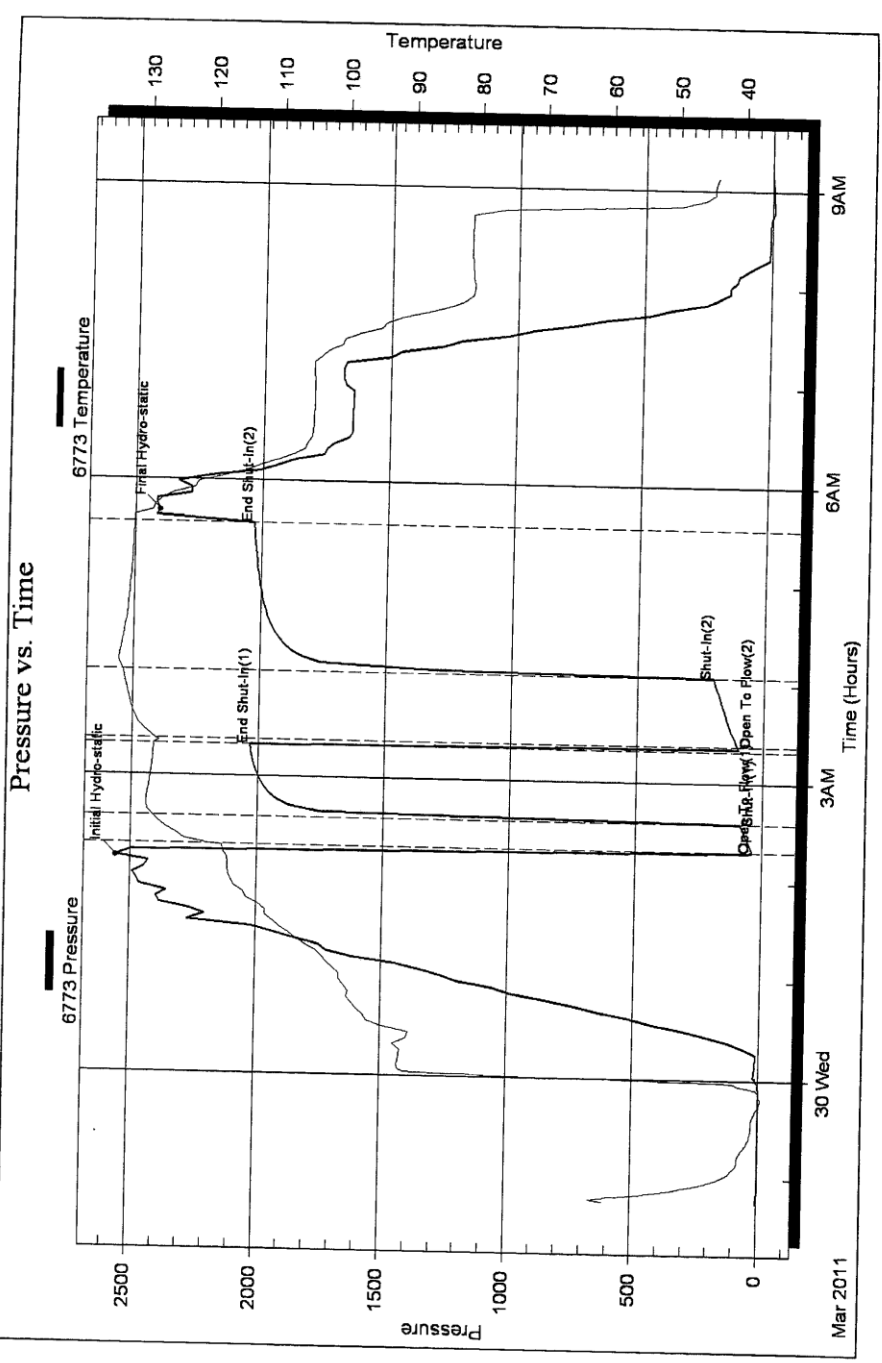
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	11000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	620' GIP	0.000
122.00	m oil spots 80% w 20% m	1.711
240.00	w 100%	3.367

Total Length: 362.00 ft Total Volume: 5.078 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW 1.12 @ 46F = 11000 chlorides





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 31 2011

Test Ticket

NO. 041636

Well Name & No. LOHmann #B-9 BY: _____ Test No. 1 Date 3-28-11
 Company Herman Loeb LLC Elevation 1419 KB 1409 GL _____
 Address PO Box 838 Lawrenceville IL 62439
 Co. Rep / Geo. Mike Maune Rig Val #2
 Location: Sec. 3 Twp. 35s Rge. 12w Co. Barber State KS

Interval Tested 4775 - 4820 Zone Tested MISS
 Anchor Length 45' Drill Pipe Run ~~4770~~ 4763 Mud Wt. 9.1
 Top Packer Depth 4770 Drill Collars Run 0 Vis 45
 Bottom Packer Depth 4775 Wt. Pipe Run 0 WL 8.4
 Total Depth 4820 Chlorides 5500 ppm System LCM 5#

Blow Description IF: Weak blow 1 1/2 15min
ISI: NO blow back
FF: weak blow 1"
FST: NO blow back

Sec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>DRUG mud</u>			<u>100</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sec Total 15' BHT 120 Gravity NA API RW NC @ _____ °F Chlorides 5500 ppm

A) Initial Hydrostatic <u>2363</u>	<input checked="" type="checkbox"/> Test <u>1225</u>	T-On Location <u>1:30</u>
B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>1:38</u>
C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>5:34</u>
D) Initial Shut-In <u>550</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>10:45</u>
E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby <u>1hr 100'</u>	T-Out <u>00:30</u>
F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>110 miles 13750</u>	Comments _____
G) Final Shut-In <u>430</u>	<input type="checkbox"/> Sampler _____	
H) Final Hydrostatic <u>2208</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 15
 Initial Shut-In 45
 Initial Flow 60
 Initial Shut-In 120

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1781.50

Approved By Michael K Maune Our Representative Chris [Signature]

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041637

RECEIVED
APR 01 2011

Well Name & No. Lohman B-9 BY: _____ Test No. 2 Date 3-29-11
 Company Herman LOEB LLC Elevation 1419 KB 1409 GL _____
 Address PO Box 838 Lawrenceville IL 62439
 Co. Rep / Geo. Mike Maue / George Payne Rig Val Energy #2
 Location: Sec. 3 Twp. 35S Rge. 12W Co. Barber State KS

Interval Tested S140 - S162 Zone Tested Misner
 Anchor Length 22' Drill Pipe Run ~~5136~~ 5136 Mud Wt. 9.2
 Top Packer Depth S135 Drill Collars Run 0 Vis 49
 Bottom Packer Depth S140 Wt. Pipe Run 0 WL 9.0
 Total Depth S162 Chlorides 3500 ppm System LCM 4#

Flow Description IF: STRong blow BOB 3min
ISI: NO blow back
FF: STRong blow BOB 20min
FSL: NO blow back

Sec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>GTP 620'</u>				
<u>122'</u>	<u>MWOSPOTS</u>		<u>80</u>	<u>20</u>	
<u>240</u>	<u>W</u>		<u>100</u>		
_____	Feet of _____	%gas	%oil	%water	%mud
_____	Feet of _____	%gas	%oil	%water	%mud

Sec Total 342 BHT 113 Gravity _____ API RW 1.12 @ 46 °F Chlorides 11,000 ppm

- A) Initial Hydrostatic 2556 Test 1325 T-On Location 21:30
- B) First Initial Flow 41 Jars 250 T-Started ~~22:49~~ 22:49
- C) First Final Flow 87 Safety Joint 75 T-Open 2:18
- D) Initial Shut-In 2033 Circ Sub _____ T-Pulled 6:40
- E) Second Initial Flow 102 Hourly Standby 1.5 hrs 150 T-Out 10:00
- F) Second Final Flow 201 Mileage 110 miles 137.50 Comments _____
- G) Final Shut-In 2029 Sampler _____
- H) Final Hydrostatic 2401 Straddle _____ Ruined Shale Packer _____

- Shale Packer _____ Ruined Packer _____
- Extra Packer _____ Extra Copies _____
- Extra Recorder _____ Sub Total 8
- Day Standby _____ Total 1937.50
- Accessibility _____ MP/DST Disc't _____
- Sub Total 1937.50

Approved By Michael K. Maue Our Representative Cheri Stant

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