



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mar-Lou Oil Company LLC

34-16s-12w Barton, KS

PO Box 218
Wilson, KS 67490-0218

Jenisch #6

Job Ticket: 61960

DST#: 1

ATTN: Roger Fisher

Test Start: 2015.11.19 @ 11:02:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:47:16

Time Test Ended: 19:28:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

Interval: **3341.00 ft (KB) To 3368.00 ft (KB) (TVD)**

Total Depth: 3368.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1905.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6838

Inside

Press@RunDepth: 1013.84 psig @ 3364.00 ft (KB)

Start Date: 2015.11.19

End Date: 2015.11.19

Capacity: 8000.00 psig

Last Calib.: 2015.11.19

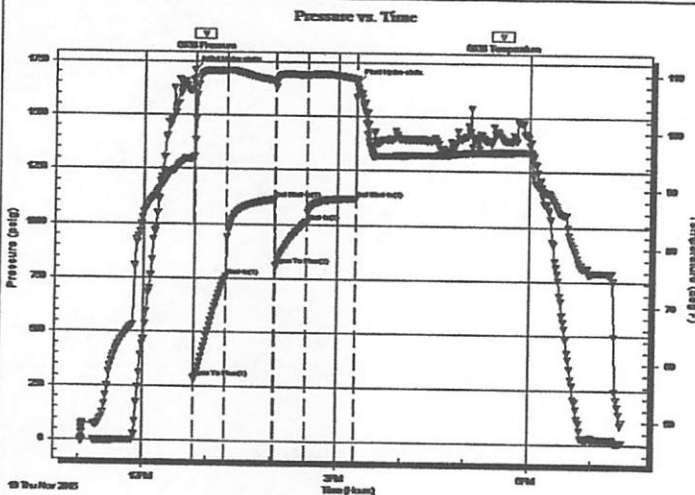
Start Time: 11:02:01

End Time: 19:28:31

Time On Btm: 2015.11.19 @ 12:46:31

Time Off Btm: 2015.11.19 @ 15:18:16

TEST COMMENT: IFF 30 Minutes Strong blow /Blow built to bottom of bucket in 35 seconds
 ISI 45 Minutes No blow back
 FFP 30 Minutes Strong blow /Blow built to bottom of bucket in 40 seconds
 FSI 45 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.72	95.36	Initial Hydro-static
1	289.06	98.22	Open To Flow (1)
30	760.13	110.33	Shut-In(1)
76	1112.30	108.66	End Shut-In(1)
76	812.48	108.27	Open To Flow (2)
106	1013.84	109.72	Shut-In(2)
151	1120.34	109.12	End Shut-In(2)
152	1657.43	107.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2674.00	SMCGO Mud 2% Gas 18% Oil 80%	37.51
126.00	Emuls WOCM Water 10% Oil 40% Mud	51.77

Gas Rates

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

DRILL STEM TEST REPORT



WILCOX
ESTING, INC.

Well Name: 34-166-15W Barton, KS
 Operator: Jensen #8
 Test Start: 2018.11.19 @ 11:05:00
 Test End: 2018.11.19 @ 12:00:00
 Well Depth: 3800.00 ft (TVD)
 Well Type: Conventional Bottom Hole (Initial)

GENERAL INFORMATION

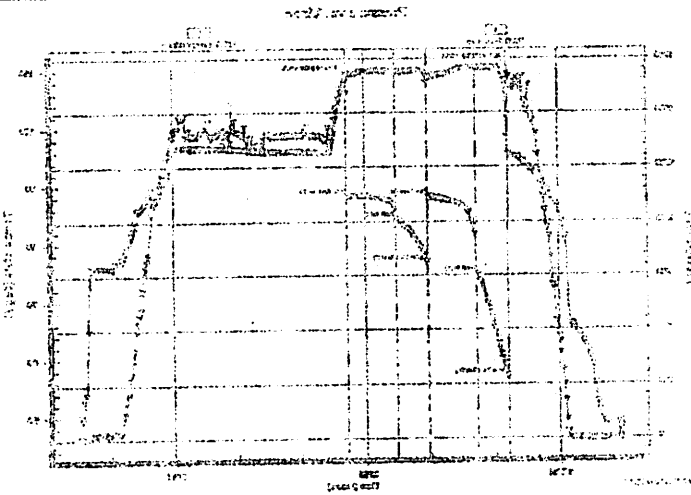
Well Name: 34-166-15W Barton, KS
 Operator: Jensen #8
 Test Start: 2018.11.19 @ 11:05:00
 Test End: 2018.11.19 @ 12:00:00
 Well Depth: 3800.00 ft (TVD)
 Well Type: Conventional Bottom Hole (Initial)

Well Name: 34-166-15W Barton, KS
 Operator: Jensen #8
 Test Start: 2018.11.19 @ 11:05:00
 Test End: 2018.11.19 @ 12:00:00
 Well Depth: 3800.00 ft (TVD)
 Well Type: Conventional Bottom Hole (Initial)

TEST COMMENT:
 151 48 Minutes No flow back
 151 48 Minutes Stand flow back to bottom of hole in 40 seconds
 151 48 Minutes No flow back

PRESSURE SUMMARY

Time (min)	Pressure (psig)	Annotation
0	4709.73	Initial Right static
1	389.08	Open To Flow (1)
30	780.18	Shut-in (1)
78	1113.90	End Shut-in (1)
79	815.48	Open To Flow (2)
109	1018.94	Shut-in (2)
181	1150.81	End Shut-in (2)
183	1837.71	Final Hydro-static



Gas Ratios

Gas Ratio (1)	Gas Ratio (2)	Gas Ratio (3)

Recovery

Time (min)	Recovery (%)	Notes
183	100	Final Hydro-static
181	100	End Shut-in (2)
109	100	Shut-in (2)
79	100	Open To Flow (2)
78	100	End Shut-in (1)
30	100	Shut-in (1)
1	100	Open To Flow (1)
0	100	Initial Right static



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mar-Lou Oil Company LLC

34-16s-12w Barton,KS

PO Box 218
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Jenisch #6

ATTN: Roger Fisher

Job Ticket: 61960

DST#: 1

Test Start: 2015.11.19 @ 11:02:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:47:16

Time Test Ended: 19:28:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

Interval: **3341.00 ft (KB) To 3368.00 ft (KB) (TVD)**

Total Depth: 3368.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1905.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **6663** **Outside**

Press@RunDepth: 1124.72 psig @ 3365.00 ft (KB)

Start Date: 2015.11.19 End Date: 2015.11.19

Start Time: 11:02:00 End Time: 19:27:52

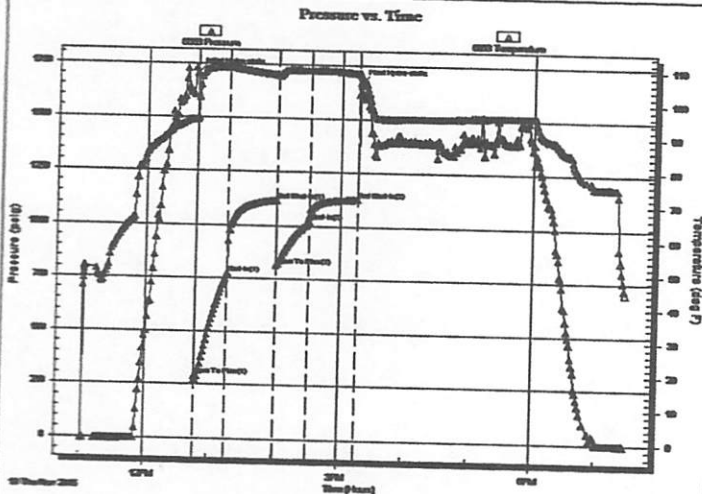
Capacity: 8000.00 psig

Last Calib.: 2015.11.19

Time On Btm: 2015.11.19 @ 12:45:52

Time Off Btm: 2015.11.19 @ 15:17:37

TEST COMMENT: IFP 30 Minutes Strong blow /Blow built to bottom of bucket in 35 seconds
ISI 45 Minutes No blow back
FFP 30 Minutes Strong blow /Blow built to bottom of bucket in 40 seconds
FSI 45 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.07	94.50	Initial Hydro-static
1	290.96	94.36	Open To Flow (1)
31	774.71	109.57	Shut-in(1)
75	1116.37	107.78	End Shut-in(1)
76	813.48	107.65	Open To Flow (2)
106	1019.69	109.14	Shut-in(2)
150	1124.72	108.38	End Shut-in(2)
152	1670.58	107.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2674.00	SMCGO Mud 2% Gas 18% Oil 80%	37.51
126.00	Emuls WOCM Water 10% Oil 40% Mud	51.77

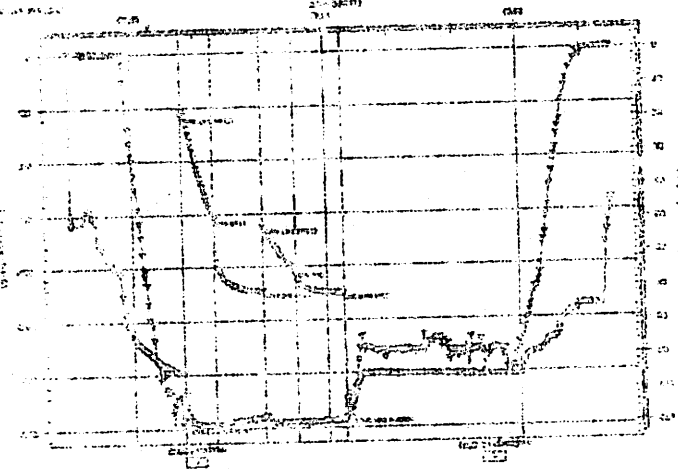
Gas Rates

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

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DATE (MM/DD)	TIME (MM/SS)	BY (NAME)

000 Piles



125	1010 08	101 98	Open to flow (1)
120	1150 05	108 98	Open to flow (1)
109	1010 08	100 98	Open to flow (1)
10	1030 08	102 98	Open to flow (1)
10	1140 05	103 98	Open to flow (1)
10	1030 05	103 98	Open to flow (1)
10	1030 05	103 98	Open to flow (1)
10	1030 05	103 98	Open to flow (1)
10	1030 05	103 98	Open to flow (1)

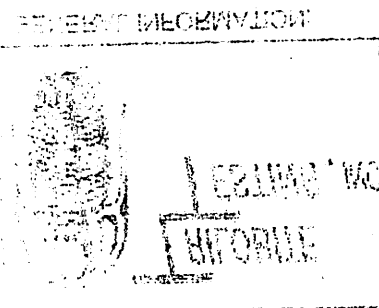
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TEST COMMENTS:
 1. All channels OK
 2. All channels OK
 3. All channels OK
 4. All channels OK

DATE	3012 14 50	TIME	14 50	BY	XXXX
TEST NO.	000000	TEST DATE	3012 14 50	TEST TIME	14 50
TESTER	XXXX	TESTER	XXXX	TESTER	XXXX

TEST RESULTS:

Channel 1	OK	Channel 2	OK
Channel 3	OK	Channel 4	OK
Channel 5	OK	Channel 6	OK



DATE: 3012 14 50 @ 1870 12
 TEST NO.: 000000
 TESTER: XXXX
 BY: XXXX
TEST REPORT



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Mar-Lou Oil Company LLC

34-16s-12w Barton,KS

PO Box 218
Wilson, KS 67490-0218

Jenisch #6

Job Ticket: 61960

DST#: 1

ATTN: Roger Fisher

Test Start: 2015.11.19 @ 11:02:00

Tool Information

Drill Pipe:	Length: 3328.00 ft	Diameter: 3.80 inches	Volume: 46.68 bbl	Tool Weight: 2000.00 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: 51000.00 lb
			<u>Total Volume: 46.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3341.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3326.00	
Hydraulic tool	5.00			3331.00	
Top Packer	5.00			3336.00	
Packer	5.00			3341.00	20.00 Bottom Of Top Packer
Anchor	22.00			3363.00	
Recorder	1.00	6838	Inside	3364.00	
Recorder	1.00	6663	Outside	3365.00	
Bullnose	3.00			3368.00	27.00 Anchor Tool

Total Tool Length: 47.00



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FLUID SUMMARY

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PO Box 218
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Jenisch #6

Job Ticket: 61960

DST#: 1

ATTN: Roger Fisher

Test Start: 2015.11.19 @ 11:02:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2674.00	SMCGO Mud 2% Gas 18% Oil 80%	37.509
126.00	Emuls WOCM Water 10% Oil 40% Mud 50%	1.767

Total Length: 2800.00 ft Total Volume: 39.276 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: