



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Marexco, Inc
 PO Box 21598
 Oklahoma City, Ok 73156
 ATTN: Larry Nicholson

28 14s 29w Gove, Ks
Lundgren #32-28
 Job Ticket: 64450 **DST#: 2**
 Test Start: 2019.01.05 @ 13:39:00

GENERAL INFORMATION:

Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:31:45
 Time Test Ended: 20:19:45
 Interval: **3724.00 ft (KB) To 3742.00 ft (KB) (TVD)**
 Total Depth: 3742.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2611.00 ft (KB)
 2606.00 ft (CF)
 KB to GR/CF: 5.00 ft

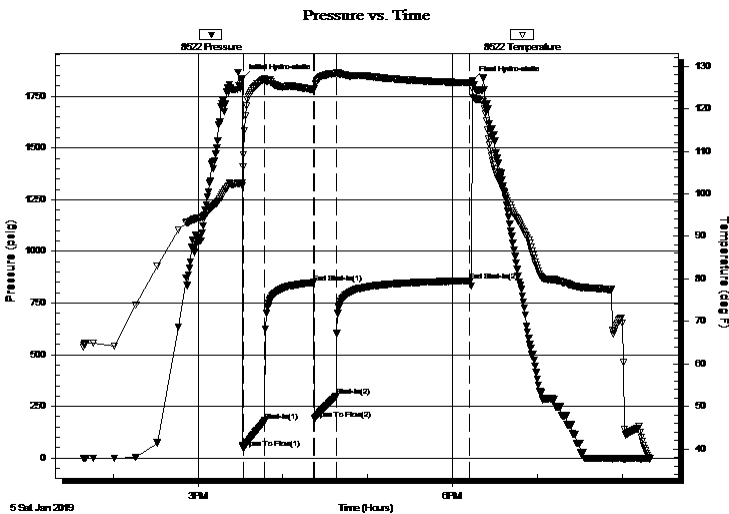
Serial #: 8522

Inside

Press@RunDepth: 299.03 psig @ 3725.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.05 End Date: 2019.01.05 Last Calib.: 2019.01.05
 Start Time: 13:39:05 End Time: 20:19:44 Time On Btm: 2019.01.05 @ 15:31:00
 Time Off Btm: 2019.01.05 @ 18:14:00

TEST COMMENT: 15- IF: BOB @ 2 min. built to 39".
 30- IS: 2" return.
 15- FF: BOB @ 2 min. built to 34".
 90- FSI: 4 1/2" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1836.11	102.62	Initial Hydro-static
1	48.98	106.30	Open To Flow (1)
17	179.73	127.06	Shut-In(1)
51	849.14	124.46	End Shut-In(1)
52	190.29	124.75	Open To Flow (2)
67	299.03	128.43	Shut-In(2)
161	857.68	126.10	End Shut-In(2)
163	1824.03	124.69	Final Hydro-static

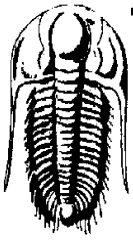
Recovery

Length (ft)	Description	Volume (bbl)
450.00	mcw 2m 98w (oil spots)	6.31
100.00	omcw 10o 5m 85w	1.40
50.00	oil 100o	0.70
0.00	90' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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 Job Ticket: 64450 **DST#: 2**
 Test Start: 2019.01.05 @ 13:39:00

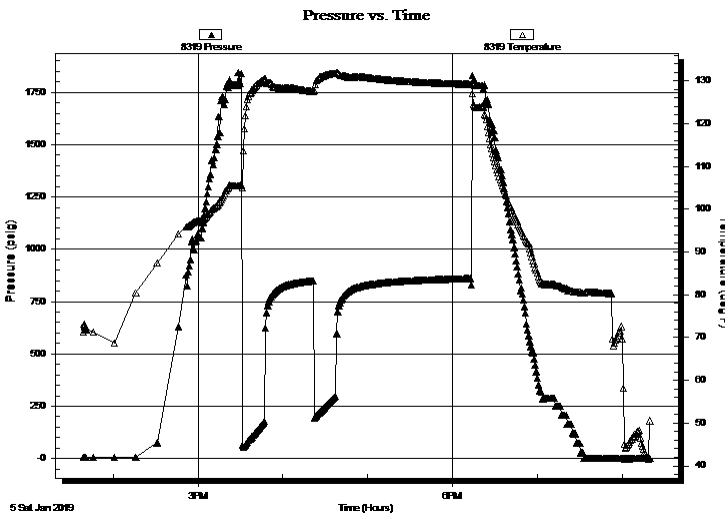
GENERAL INFORMATION:

Formation: LKC D	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Bradley Walter
Time Tool Opened: 15:31:45	Unit No: 78
Time Test Ended: 20:19:45	Reference Elevations: 2611.00 ft (KB)
Interval: 3724.00 ft (KB) To 3742.00 ft (KB) (TVD)	2606.00 ft (CF)
Total Depth: 3742.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 8319	Outside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3725.00 ft (KB)		Last Calib.: 2019.01.05
Start Date: 2019.01.05	End Date: 2019.01.05	Time On Btm:
Start Time: 13:39:05	End Time: 20:19:44	Time Off Btm:

TEST COMMENT: 15- IF: BOB @ 2 min. built to 39".
 30- IS: 2" return.
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 90- FS: 4 1/2" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
450.00	mcw 2m 98w (oil spots)	6.31
100.00	omcw 10o 5m 85w	1.40
50.00	oil 100o	0.70
0.00	90' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Marexco, Inc
PO Box 21598
Oklahoma City, Ok 73156
ATTN: Larry Nicholson

28 14s 29w Gove, Ks
Lundgren #32-28
Job Ticket: 64450 **DST#: 2**
Test Start: 2019.01.05 @ 13:39:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 42000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	mcw 2m 98w (oil spots)	6.312
100.00	omcw 10o 5m 85w	1.403
50.00	oil 100o	0.701
0.00	90' GIP	0.000

Total Length: 600.00 ft Total Volume: 8.416 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .269 @ 45f = 42000ppm

Serial #: 8522

Inside

Marexco, Inc

Lundgren #32-28

DST Test Number: 2

Pressure vs. Time

