Office (620) 588-4250

Mai Oil Operations D&D Unit #1 W/2-NW-NW-SW (2310' FSL & 252' FWL) Section 16-20s-22w Ness County, Kansas

Page 1

## 5 1/2" Production Casing Set

.Contractor:	Southwind Drilling Co. (rig #3)
Commenced:	May 16, 2017
Completed:	May 23, 2017
Elevation:	2217' K.B., 2215' D.F., 2209' G.L.
Casing program:	Surface; 8 5/8" @ 263' Production, 5 ½" @ 4449'
Sample:	Samples saved and examined 3500' to the Rotary Total Depth.
Sample: Drilling time:	Samples saved and examined 3500' to the Rotary Total Depth. One (1) foot drilling time recorded and kept 3500' to the Rotary Total Depth.
-	
Drilling time:	One (1) foot drilling time recorded and kept 3500' to the Rotary Total Depth.

Formation	Log Depth	Sub-Sea Datum
Anhydrite	1436	+781
Base Anhydrite	1473	+744
Heebner	3705	-1488
Toronto	3719	-1502
Lansing	3754	-1537
Stark	4010	-1793
Base Kansas City	4078	-1861
Marmaton	4121	-1904
Pawnee	4201	-1984
Ft Scott	4274	-2057
Cherokee Shale	4295	-2078
Mississippian "Osage"	4356	-2139
Rotary Total Depth	4450	-2233
Log Total Depth	4450	-2233

(All tops and zones corrected to Electric Log Measurement)

Res. Claflin (620) 587-3444

Mai Oil Operations D&D Unit #1 W/2-NW-NW-SW (2310' FSL & 252' FWL) Section 16-20s-22w Ness County, Kansas

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## SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

# **TOPEKA THROUGH LANSING SECTION**

3600-4078' There were several zones of well-developed porosity encountered in the Drilling of the Topeka, Toronto and Lansing/Kansas City Sections but no shows of oil and/or gas was noted (see attached Geologist report/sample log.

### MARMATON SECTION

4121-4131'	Limestone, tan, finely crystalline, slightly cherty (dense)
4138-4146'	Limestone, white, gray, slightly fossiliferous, chalky, poor porosity, no shows.
4150-4170'	Limestone, as above, maroon, tinted, chalky; no shows.
4180-4199'	Limestone, white and gray, cherty in part, poor porosity, no shows.

#### PAWNEE SECTION

- 4201-4230' Limestone, tan, gray, finely crystalline, chalky (dense)
- 4230-4266' Limestone, as above, poorly developed porosity, no shows..

## FT SCOTT SECTION

- 4279-4280' Limestone, white and gray; few fossiliferous, chalky, trace gray stain, no show of free oil and questionable odor in fresh samples.
- 4280-4296' Limestone, as above, no shows.

#### **CHEROKEE SECTION**

4300-4318' Limestone, gray, white, chalky, poor visible porosity, no shows.

#### **MISSISSIPPIAN SECTION**

4356-4364' Chert; white, boney, translucent, few semi-tripolitic, brown and gray stain, plus dolomite, white, gray, finely crystalline, scattered pinpoint porosity, brown stain, show of free oil and faint odor.

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	Drill Stem T	est #1 4378-4365	
	Times:	30-30-30-45	
	Blow:	Surface	
	Recovery:	30' slightly oil cut mud (2% oil; 98% mud)	
	Pressures:	ISIP 377 psi FSIP 675 psi IFP 13-16 psi FFP 16-22 psi HSH 2110-2070 psi	
4366-4373'	Chert; and d in fresh sam	olomite, as above, brown stain, show of free oil and fair odor ples.	
	Drill Stem T	est #2 4318-4373	
	Times:	30-30-30-45	
	Blow:	Weak	
	Recovery:	75' oil cut mud pipe (10% oil; 90% mud))	
	Pressures:	ISIP 1289 psi FSIP 1341 psi IFP 14-33 psi FFP 40-53 psi HSH 2137-2106 psi	
4373-4379'	stain, plus de	, cream, fresh; few semi-tripolitic, golden brown to brown olomite, white, gray and tan, finely crystalline, pinpoint type y type porosity, brown stain, show of free oil and faint odor in es.	
	Drill Stem T	Test #3 4317-4379'	
	Times:	30-30-45-60	
	Blow:	Good	
	Recovery:	124' gas in pipe 124' clean oil 558' muddy oil (50% oil; 50% mud))	
	Pressures:	ISIP 1372 psi FSIP 1371 psi IFP 28-189 psi FFP 192-276 psi HSH 2165-2064 psi	

Mai Oil Operations D&D Unit #1 W/2-NW-NW-SW (2310' FSL & 252' FWL) Section 16-20s-22w Ness County, Kansas

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4379-4390'	Chert; as above, good porosity, fair brown/golden brown stain and saturation, show of free oil and fair odor in fresh samples.
4390-4406'	Chert and dolomite, as above, decreasing stain; trace of free oil and faint odor.
4406-4416'	Limestone, tan, fossiliferous in part, dolomitic, dense.
4416-4430'	Dolomite, white, cream, sucrosic, glauconitic, plus white/cream, boney to translucent chert, few fossiliferous, no shows.
4430-4450'	Dolomite and chert, as above.

Rotary Total Depth4450Log Total Depth4450

# **Recommendations:**

The 5 1/2" production casing was set and cemented on Mai Oil Operations Inc., D&D Unit #1.

Respectfully yours,

4 re M C 100 (James C.\Musgrove Petroleum Geologist



	DRILL STEM TES	T REPO	ORT				
And the second s	Mai Oil Operation Inc.		16-2	205-220	V Ness,KS		
	8411 Preston Road Suite 800 Dallas TX 75225+5520			D Unit # Ticket: 64		DST#:1	
	ATTN: Jim Musgrove				)17.05.21 @		
GENERAL INFORMATION:							
Formation: Mississippi   Deviated: No Whipstock:   Time Tool Opened: 12:37:30   Time Test Ended: 16:52:30	ft (KB)		Test Test Unit	er:	Conventional Ken Sw inney 72		e (Initial)
Interval:4318.00 ft (KB) To4365Total Depth:4365.00 ft (KB) (TVDHole Diameter:7.88 inchesHole C	))		Refe	erence Be KB t	evations: o GR/CF:	2217.00 2209.00 8.00	ft (CF)
Serial #: 8960   Outside     Press@RunDepth:   674.79 psig @     Start Date:   2017.05.21     Start Time:   10:31:05     TEST COMMENT:   IFP 30 Minutes Sun ISI 30 Minutes No	End Date: End Time: rface blow died in 5 minutes blow back	2017.05.21 16:52:29	Capacity: Last Calit Time On I Time Off	o.: Btm: 2	2017.05.21 @ 2017.05.21 @		psig
FFP 30 Minutes No FSI 45 Minutes N Pressure vs. Tim		died in 1 minu					
PARSME VS. AM	Tropy were as a second	Time (Min.) 0 3 32 63 64 92 138 139	Pressure (psig) 2108.31 13.53 15.99 376.61 16.45 22.16 674.79 2068.48	Temp (deg F) 106.67 105.99 106.74 107.51 107.32 108.22	Open To Fl Shut-In(1) End Shut-In Open To Fl Shut-In(2) End Shut-In	n o-static ow (1) n(1) ow (2) n(2)	
Length (ft) Description	Volume (bbl)			Ga: Choke (i	s Rates	re (psig) Gar	s Rate (Mcf/d)
30.00 VSOCM Oil 2% Mud 98%	0.15				2017.05.23		

NC. 8411 I Dallas	r: 0.00 in r: 2.25 in r: 6.75 in	Suite 800 20 re ches Volume: ches Volume: ches Volume: Total Volume:	0.00 bbl 1.77 bbl 57.46 bbl 4303.00 4308.00 4308.00 4313.00 4318.00 4327.00 4328.00	Weight set on Pack	DST#:1 1 @ 10:31:00 2000.00 lb ker: 20000.00 lb 0.00 ft al 62000.00 lb al 62000.00 lb
ft Diameter ft Diameter ft Diameter ft Diameter ft Diameter ft ft ft ft ft ft Diameter <b>Length (ft)</b> 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	TX 75225+55 Jim Musgrov r: 3.80 in r: 0.00 in r: 2.25 in	20 /e ches Volume: ches Volume: Total Volume:	0.00 bbl 1.77 bbl 57.46 bbl 4303.00 4308.00 4308.00 4313.00 4318.00 4327.00 4328.00	Job Ticket: 64781 Test Start: 2017.05.24 Tool Weight: Weight set on Pack Weight to Pull Loos Tool Chased String Weight: Initia Fina	2000.00 lb xer: 20000.00 lb 0.00 ft al 62000.00 lb al 62000.00 lb
ATTN: ft Diameter ft Diameter ft Diameter ft ft ft ft Diameter <b>Length (ft)</b> 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	: Jim Musgrov r: 3.80 in r: 0.00 in r: 2.25 in r: 6.75 in	re ches Volume: iches Volume: Total Volume:	0.00 bbl 1.77 bbl 57.46 bbl 4303.00 4308.00 4308.00 4313.00 4318.00 4327.00 4328.00	Test Start: 2017.05.21	2000.00 lb xer: 20000.00 lb 0.00 ft al 62000.00 lb al 62000.00 lb
ft Diameter ft Diameter ft Diameter ft ft ft ft Diameter <b>Length (ft)</b> 5.00 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	r: 3.80 in r: 0.00 in r: 2.25 in r: 6.75 in	ches Volume: ches Volume: ches Volume: Total Volume:	0.00 bbl 1.77 bbl 57.46 bbl 4303.00 4308.00 4308.00 4313.00 4318.00 4327.00 4328.00	I Tool Weight: I Weight set on Pack I Weight to Pull Loos I Tool Chased String Weight: Initia Fina	2000.00 lb ker: 20000.00 lb 0.00 ft al 62000.00 lb al 62000.00 lb
ft Diameter ft Diameter ft ft ft Diameter Diameter Length (ft) 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	r: 0.00 in r: 2.25 in r: 6.75 in	ches Volume: ches Volume: Total Volume: ches	0.00 bbl 1.77 bbl 57.46 bbl 4303.00 4308.00 4308.00 4313.00 4318.00 4327.00 4328.00	Meight set on Pack Weight to Pull Loos Tool Chased String Weight: Initia Fina	xer: 20000.00 lb e: 72000.00 lb 0.00 ft al 62000.00 lb
ft Diameter ft Diameter ft ft ft Diameter Diameter Length (ft) 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	r: 0.00 in r: 2.25 in r: 6.75 in	ches Volume: ches Volume: Total Volume: ches	0.00 bbl 1.77 bbl 57.46 bbl 4303.00 4308.00 4308.00 4313.00 4318.00 4327.00 4328.00	Meight set on Pack Weight to Pull Loos Tool Chased String Weight: Initia Fina	xer: 20000.00 lb e: 72000.00 lb 0.00 ft al 62000.00 lb al 62000.00 lb
ft Diameter ft ft ft Diameter <b>Length (ft)</b> 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	r: 2.25 in r: 6.75 in	ches Volume: Total Volume: ches	1.77 bbl 57.46 bbl 4303.00 4308.00 4313.00 4318.00 4327.00 4328.00	Weight to Pull Loos Tool Chased String Weight: Initia Fina	e: 72000.00 lb 0.00 ft al 62000.00 lb al 62000.00 lb
ft ft ft Diameter Length (ft) 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	r: 6.75 in	Total Volume:	57.46 bbl Depth (ft) 4303.00 4308.00 4313.00 4318.00 4327.00 4328.00	Tool Chased String Weight: Initia Fina	0.00 ft al 62000.00 lb al 62000.00 lb
ft ft ft Diameter <b>Length (ft)</b> 5.00 5.00 5.00 9.00 1.00 31.16 1.00		ches	<b>Depth (ft)</b> 4303.00 4308.00 4313.00 4318.00 4327.00 4328.00	String Weight: Initia Fina Accum. Lengths	al 62000.00 lb al 62000.00 lb
ft ft Diameter <b>Length (ft)</b> 5.00 5.00 5.00 9.00 1.00 31.16 1.00			4303.00 4308.00 4313.00 4318.00 4327.00 4328.00	Fina Accum. Lengths	al 62000.00 lb
ft ft Diameter <b>Length (ft)</b> 5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00			4303.00 4308.00 4313.00 4318.00 4327.00 4328.00	Accum. Lengths	
ft Diameter Length (ft) 5.00 5.00 5.00 9.00 1.00 31.16 1.00			4303.00 4308.00 4313.00 4318.00 4327.00 4328.00		Bottom Of Top Packer
Diameter Length (ft) 5.00 5.00 5.00 9.00 1.00 31.16 1.00			4303.00 4308.00 4313.00 4318.00 4327.00 4328.00		Bottom Of Top Packer
Length (ft) 5.00 5.00 5.00 9.00 1.00 31.16 1.00			4303.00 4308.00 4313.00 4318.00 4327.00 4328.00		Bottom Of Top Packer
5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	Serial No.	Position	4303.00 4308.00 4313.00 4318.00 4327.00 4328.00		Bottom Of Top Packer
5.00 5.00 5.00 5.00 9.00 1.00 31.16 1.00	Serial No.	Position	4303.00 4308.00 4313.00 4318.00 4327.00 4328.00		Bottom Of Top Packer
5.00 5.00 9.00 1.00 31.16 1.00			4308.00 4313.00 4318.00 4327.00 4328.00	20.00	Bottom Of Top Packer
5.00 5.00 9.00 1.00 31.16 1.00			4313.00 4318.00 4327.00 4328.00	20.00	Bottom Of Top Packer
5.00 9.00 1.00 31.16 1.00			4318.00 4327.00 4328.00	20.00	Bottom Of Top Packer
9.00 1.00 31.16 1.00			4327.00 4328.00	20.00	Bottom Of Top Packer
1.00 31.16 1.00			4328.00		
31.16 1.00					
1.00			4050 40		
			4359.16		
1 1 11 1	0254	haida	4360.16		
1.00	8354 8960	Inside Outside	4361.16 4362.16		
3.00	8960	Outside	4362.16	47.16	Anchor Too
			4365.16	47.16	Anchor Too
67.16	6				
			Ref. No: 64781		

RILOBITE	DRILL STEM TEST REPORT	FLUID SUMMARY
HILUBITE	Maí Oil Operation Inc.	16-20S-22W Ness,KS
TESTING , INC.		D&D Unit #1
	Dallas TX 75225+5520	Job Ticket: 64781 <b>DST#:1</b>
	ATTN: Jim Musgrove	Test Start: 2017.05.21 @ 10:31:00
Mud and Cushion Information		
Mud Type:Gel ChemMud Weight:9.00 lb/galViscosity:55.00 sec/qtWater Loss:7.98 in³Resistivity:ohm.mSalinity:4900.00 ppmFilter Cake:1.00 inches	Cushion Volume: Gas Cushion Type:	Oil API: deg API ft Water Salinity: ppm bbl psig
Recovery Information		
	Recovery Table	
Leng		Volume bbl
	30.00 VSOCM Oil 2% Mud 98%	0.148
Total Length:	30.00 ft Total Volume: 0.148 bbl	
Laboratory Nar Recovery Com		
Trilobite Testing, Inc	Ref. No: 64781	Printed: 2017.05.23 @ 13:36:51

RILOBITE	DRILL STEM TES	T REP	ORT				
	Mai Oil Operation Inc.		16-2	0S-22V	/Ness,KS		
	8411 Preston Road Suite 800 Dallas TX 75225+5520			<b>Unit #</b> ïcket: 64		DST#:2	
	ATTN: Jim Musgrove		Test	Start: 20	17.05.21 @		
GENERAL INFORMATION:							
Formation: <b>Mississippi</b> Deviated: No Whipstock: Time Tool Opened: 00:42:00 Time Test Ended: 05:00:00	ft (KB)		Test Teste Unit N	er: k	Conventional Ken Sw inney 72		e (Initial)
Interval:4318.00 ft (KB) To4373Total Depth:4373.00 ft (KB) (TVDHole Diameter:7.88 inchesHole C	))		Refer		vations: o GR/CF:	2217.00 2209.00 8.00	ft (CF)
Serial #: 8960OutsidePress@RunDepth:1340.45 psigStart Date:2017.05.21Start Time:22:56:05TEST COMMENT:IFP 30 Minutes	End Date: End Time:	2017.05.22 04:59:59 utes	Capacity: Last Calib. Time On B Time Off B	tm: 2	2 2017.05.22 @ 2017.05.22 @		psig
ISI 30 Minutes No	blow back Irface blow died in 9 minutes						
Pressure vs. Time	C 🔔 .				E SUMMA		
2280 2280 2780 2 780	Turpardur 90 93 93 93 93 93 93 93 93 93 93 93 93 93	Time (Min.) 0 1 31 61 62 91 138 139	Pressure (psig) 2136.70 16.11 36.30 1292.30 40.35 53.61 1340.45 2104.99		Open To Flo Shut-In(2)	static pw (1) (1) pw (2) (2)	
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (i	nches) Pressur	e (psig) Ga	s Rate (Mcf/d)
75.00 OCM Oil 10% Mud 90%	0.37						
Trilobite Testing, Inc	Ref. No: 64782			Printed:	2017.05.23	@ 13:33:24	

Mail Of Operation Inc.     16-20S-22VV Ness,KS       B411 Preston Road Suite 800 Dalas TX 75225+5520     8411 Preston Road Suite 800 Dalas TX 75225+5520     D&D Unit #1       Job Ticket: 64782     DST#:2       ATTN: Jim Musgrove     Test Start: 2017.05.21 @ 22:56:00       Tool Information     Diameter:     3.80 inches Volume:     0.00 bbl       Drill Pipe:     Length:     395.00 ft     Diameter:     2.25 inches Volume:     1.77 bbl       Drill Pipe Above KB:     19.00 ft     Diameter:     2.25 inches Volume:     1.77 bbl     Tool Chased     0.00 ft       Depth to Top Packer:     4318.00 ft     Total Volume:     57.29 bbl     Tool Chased     0.00 ft       Depth to Bottom Packer:     ft     Ital Volume:     57.29 bbl     Tool Chased     0.00 ft       Shut-In Tool     5.00     4303.00     String Weight: Initial 600000.00 lb     Final 600000.00 lb       Shut-In Tool     5.00     4303.00     Addition Packer     Addition Packer       Tool Comments: Ruined Packer     5.00     4318.00     20.00     Bottom Of To       Packer     5.00     4318.00     20.00     Bottom Of T	Dallas TX 75225+5520   Job Ticket     ATTN:   Jim Musgrove   Test Start     Tool Information   Diameter:   3.80 inches Volume:   55.52 bbl   Tool W     Heavy Wt. Pipe:   Length:   3958.00 ft   Diameter:   0.00 inches Volume:   0.00 bbl   Weight     Drill Pipe:   Length:   359.00 ft   Diameter:   2.25 inches Volume:   1.77 bbl   Weight     Drill Pipe Above KB:   19.00 ft   Diameter:   2.25 inches Volume:   57.29 bbl   Tool Cl     Depth to Top Packer:   4318.00 ft   Total Volume:   57.29 bbl   String fill     Depth to Bottom Packer:   ft   Interval betw een Packers:   55.16 ft   String fill     Number of Packers:   2   Diameter:   6.75 inches   Tool Comments: Ruined Packer	/eight: t set on Packer t set on Packer hased Weight: Initial	@ 22:56:00 2000.00 lb r: 20000.00 lb 74000.00 lb 0.00 ft 60000.00 lb
ATTN:     Jim Musgrove     Job Ticket:     64782     DST#:2       ATTN:     Jim Musgrove     Test Start:     2017.05.21 @ 22:56:00       Tool Information     Drill Pipe:     Length:     3958.00 ft     Diameter:     3.80 inches Volume:     55.52 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:     2000.00 lb       Drill Collar:     Length:     359.00 ft     Diameter:     2.25 inches Volume:     1.77 bbl     Weight to Pull Loose:     74000.00 lb       Drill Pipe Above KB:     19.00 ft     Total Volume:     57.29 bbl     Tool Chased     0.000.00 lb       Peth to Top Packer:     4318.00 ft     Diameter:     6.75 inches     Tool Length:     1.80 60000.00 lb       Tool Length:     75.16 ft     Tool Comments: Ruined Packer     5.00     4303.00       Hydraulic tool     5.00     4308.00     20.00     Bottom Of To       Shut-In Tool     5.00     4318.00     20.00     Bottom Of To       Anchor     17.00     4335.00	Job Ticket     ATTN: Jim Musgrove   Test Start     Tool Information     Drill Pipe:   Length: 3958.00 ft   Diameter:   3.80 inches Volume:   55.52 bbl   Tool W     Heavy Wt. Pipe:   Length:   0.00 ft   Diameter:   0.00 inches Volume:   0.00 bbl   Weight     Drill Collar:   Length:   359.00 ft   Diameter:   2.25 inches Volume:   1.77 bbl   Weight     Drill Pipe Above KB:   19.00 ft   Diameter:   2.25 inches Volume:   57.29 bbl   Tool Cl     Drill Pipe Above KB:   19.00 ft   Total Volume:   57.29 bbl   Tool Cl     Depth to Top Packer:   4318.00 ft   Depth to Bottom Packers:   55.16 ft   String Tool Cl     Interval betw een Packers:   55.16 ft   Tool Length:   75.16 ft     Number of Packers:   2   Diameter:   6.75 inches     Tool Comments: Ruined Packer   Viameter:   6.75 inches	/eight: t set on Packer t to Pull Loose: hased Weight: Initial	@ 22:56:00 2000.00 lb r: 20000.00 lb 74000.00 lb 0.00 ft 60000.00 lb
Tool Information     Drill Pipe:     Length:     3958.00 ft     Diameter:     3.80 inches Volume:     55.52 bbl     Tool Weight:     2000.00 lb       Heavy Wt. Pipe:     Length:     0.00 ft     Diameter:     0.00 inches Volume:     55.52 bbl     Weight set on Packer:     2000.00 lb       Drill Collar:     Length:     359.00 ft     Diameter:     2.25 inches Volume:     1.77 bbl     Weight set on Packer:     74000.00 lb       Drill Pipe Above KB:     19.00 ft     Total Volume:     57.29 bbl     Tool Chased     0.00 ft       Depth to Top Packer:     ft     Total Volume:     57.29 bbl     Total Chased     0.00 ft       Depth to Bottom Packer:     ft     Final     60000.00 lb     Final       Number of Packers:     2     Diameter:     6.75 inches     Final     60000.00 lb       Shut-In Tool     5.00     4303.00     4303.00     Packer     Packer     5.00     4318.00     20.00     Bottom Of To       Shut-In Tool     5.00     4318.00     20.00     Bottom Of To       Anchor     17.00     4335.00     Change	Tool Information     Drill Pipe:   Length: 3958.00 ft   Diameter:   3.80 inches Volume:   55.52 bbl   Tool W     Heavy Wt. Pipe:   Length:   0.00 ft   Diameter:   0.00 inches Volume:   0.00 bbl   Weight     Drill Collar:   Length:   359.00 ft   Diameter:   2.25 inches Volume:   1.77 bbl   Weight     Drill Pipe Above KB:   19.00 ft   Diameter:   2.25 inches Volume:   57.29 bbl   Tool Cl     Drill Pipe Above KB:   19.00 ft   Total Volume:   57.29 bbl   Tool Cl     Depth to Top Packer:   4318.00 ft   Ft   String Tool Length:   String Tool Length:     Tool Length:   75.16 ft   Tool Comments: Ruined Packer   6.75 inches   Tool Comments: Ruined Packer	/eight: t set on Packer t to Pull Loose: hased Weight: Initial	2000.00 lb r: 20000.00 lb 74000.00 lb 0.00 ft 60000.00 lb
Drill Pipe:     Length:     3958.00 ft     Diameter:     3.80 inches Volume:     55.52 bbl     Tool Weight:     2000.00 lb       Heavy Wit. Pipe:     Length:     359.00 ft     Diameter:     0.00 inches Volume:     0.00 bbl     Weight set on Packer:     2000.00 lb       Drill Collar:     Length:     359.00 ft     Diameter:     2.25 inches Volume:     1.77 bbl     Weight to Pull Loose:     74000.00 lb       Drill Pipe Above KB:     19.00 ft     Diameter:     710 lV olume:     57.29 bbl     Tool Chased     0.00 ft       Depth to Top Packer:     4318.00 ft     Total Volume:     57.29 bbl     Tool Chased     0.00 ft       Depth to Bottom Packer:     ft     Interval between Packers:     55.16 ft     String Weight: hitial     60000.00 lb       Number of Packers:     2     Diameter:     6.75 inches     Tool Comments: Ruined Packer     50.0     4303.00       Hydraulic tool     5.00     4308.00     20.00     Bottom Of To       Anchor     17.00     4335.00     20.00     Bottom Of To       Anchor     17.00     4336.00     20.00     Bo	Drill Pipe:Length:3958.00 ftDiameter:3.80 inches Volume:55.52 bblTool WHeavy Wt. Pipe:Length:0.00 ftDiameter:0.00 inches Volume:0.00 bblWeightDrill Collar:Length:359.00 ftDiameter:2.25 inches Volume:1.77 bblWeightDrill Pipe Above KB:19.00 ftDiameter:77.10 ftTool CollTool CollDepth to Top Packer:4318.00 ftFtFtString ftDepth to Bottom Packer:ftInterval betw een Packers:55.16 ftString ftTool Length:75.16 ftTool Comments: Ruined Packer6.75 inches	t set on Packer t to Pull Loose: hased Weight: Initial	r: 20000.00 lb 74000.00 lb 0.00 ft 60000.00 lb
Heavy Wt. Pipe:   Length:   0.00 ft   Diameter:   0.00 inches Volume:   0.00 bbl   Weight set on Packer:   2000.00 lb     Drill Collar:   Length:   359.00 ft   Diameter:   2.25 inches Volume:   1.77 bbl   Weight set on Packer:   74000.00 lb     Drill Pipe Above KB:   19.00 ft   Total Volume:   57.29 bbl   Total Chased   0.00 ft     Depth to Top Packer:   4318.00 ft   Total Volume:   57.29 bbl   Total Chased   0.00 ft     Depth to Bottom Packer:   ft   Interval betw een Packers:   55.16 ft   60000.00 lb   60000.00 lb     Tool Length:   75.16 ft   Number of Packer:   2   Diameter:   6.75 inches   6.75 inches     Tool Comments: Ruined Packer:   5.00   4303.00   4303.00   Final   60000.00 lb     Hydraulic tool   5.00   4318.00   20.00   Bottom Of To     Anchor   17.00   4335.00   Anchor   6000   6000     Packer   5.00   4318.00   20.00   Bottom Of To     Anchor   17.00   4335.00   Final   Final   Final   Final	Heavy Wt. Pipe:   Length:   0.00 ft   Diameter:   0.00 inches Volume:   0.00 bbl   Weight     Drill Collar:   Length:   359.00 ft   Diameter:   2.25 inches Volume:   1.77 bbl   Weight     Drill Pipe Above KB:   19.00 ft   Total Volume:   57.29 bbl   Tool Cl     Depth to Top Packer:   4318.00 ft   Depth to Bottom Packer:   ft     Interval betw een Packers:   55.16 ft   Tool Length:   75.16 ft     Number of Packers:   2   Diameter:   6.75 inches     Tool Comments:   Ruined Packer	t set on Packer t to Pull Loose: hased Weight: Initial	r: 20000.00 lb 74000.00 lb 0.00 ft 60000.00 lb
Drill Collar:Length:359.00 ftDiameter:2.25 inches Volume:1.77 bblWeight to Pull Loose:7400.00 lbDrill Pipe Above KB:19.00 ftTotal Volume:57.29 bblTool Chased0.00 ftDepth to Top Packer:4318.00 ftFinal60000.00 lbDepth to Bottom Packer:ftFinal60000.00 lbDepth to Bottom Packer:75.16 ftFinal60000.00 lbNumber of Packers:2Diameter:6.75 inchesTool Comments:Ruined Packers:2Diameter:6.75 inchesTool Comments:Sting Weight to Pull Loose:7400.00 lb60000.00 lbShut-In Tool5.004303.004308.00Hydraulic tool5.004318.0020.00Packer5.004318.0020.00Packer5.004335.00Change Over Sub1.004336.00Drill Fipe31.164367.16Change Over Sub1.004368.16Recorder1.008354In Rep1.004369.16	Drill Collar:   Length:   359.00 ft   Diameter:   2.25 inches Volume:   1.77 bbl   Weight     Drill Pipe Above KB:   19.00 ft   Total Volume:   57.29 bbl   Tool Cl     Depth to Top Packer:   4318.00 ft   Total Volume:   57.29 bbl   String T     Depth to Bottom Packer:   ft   Interval betw een Packers:   55.16 ft   Tool Length:   75.16 ft     Number of Packers:   2   Diameter:   6.75 inches   Tool Comments: Ruined Packer	t to Pull Loose: hased Weight: Initial	74000.00 lb 0.00 ft 60000.00 lb
Total Volume:57.29 bblTool Chased0.00 ftDerth to Top Packer:4318.00 ftString Weight:Initial60000.00 lbDepth to Bottom Packer:ftFinal60000.00 lbFinal60000.00 lbInterval betw een Packers:55.16 ftFinal60000.00 lbFinal60000.00 lbNumber of Packers:2Diameter:6.75 inchesFinal60000.00 lbTool Length:75.16 ftTool Chased20.00Final60000.00 lbShut-In Tool5.004303.004308.00FinalFinalFinalYdraulic tool5.004313.00FinalFinalFinalFinalFinalPacker5.004318.00FinalFinalFinalFinalFinalFinalAnchor17.004308.00FinalFinalFinalFinalFinalFinalAnchor17.004318.00FinalFinalFinalFinalFinalFinalAnchor11.004336.00FinalFinalFinalFinalFinalFinalFinalFinalFinalFinalFinalFinalFinalFinalFinalFinalShut-In Tool5.004308.00Final	Drill Pipe Above KB:   19.00 ft   Total Volume:   57.29 bbl   Tool Cl     Depth to Top Packer:   4318.00 ft   String T     Depth to Bottom Packer:   ft     Interval betw een Packers:   55.16 ft     Tool Length:   75.16 ft     Number of Packers:   2     Diameter:   6.75 inches     Tool Comments: Ruined Packer	hased Weight: Initial	0.00 ft 60000.00 lb
Drill Pipe Above KB:19.00 ftString Weight: Initial60000.00 lbDepth to Top Packer:4318.00 ftFinal60000.00 lbDepth to Bottom Packer:ftFinal60000.00 lbInterval betw een Packers:55.16 ftFinal60000.00 lbNumber of Packers:2Diameter:6.75 inchesTool DescriptionLength (ft)Serial No.PositionDepth (ft)Accum. LengthsShut-In Tool5.004303.004308.00FinalFinalHydraulic tool5.004313.00PackerFinalFinalPacker5.004318.0020.00Bottom Of ToAnchor17.004335.00Change Over Sub1.004368.16Pipe31.164367.16Ghange Over Sub1.004368.16Recorder1.008354Inside4369.16	Drill Pipe Above KB:19.00 ftStringDepth to Top Packer:4318.00 ftDepth to Bottom Packer:ftInterval betw een Packers:55.16 ftTool Length:75.16 ftNumber of Packers:2Diameter:6.75 inchesTool Comments: Ruined Packer	Weight: Initial	60000.00 lb
Depth to Top Packer:4318.00 ftFinal60000.00 lbDepth to Bottom Packer:ftInterval betw een Packers:55.16 ftTool Length:75.16 ftNumber of Packers:2Diameter:6.75 inchesTool Comments: Ruined PackerShut-In Tool5.004308.00Hydraulic tool5.004318.0020.00800Bottem Of TooPacker5.004318.00Packer5.004318.00Packer5.004335.00Change Over Sub1.004354In Pipe1.008354Inside Corder1.0083541.0083541.001.0	Depth to Top Packer: 4318.00 ft Depth to Bottom Packer: ft Interval betw een Packers: 55.16 ft Tool Length: 75.16 ft Number of Packers: 2 Diameter: 6.75 inches Tool Comments: Ruined Packer		
Depth to Bottom Packer:   ft     Interval betw een Packers:   55.16 ft     Tool Length:   75.16 ft     Number of Packers:   2   Diameter:   6.75 inches     Tool Comments: Ruined Packer   2   Diameter:   6.75 inches     Tool Description   Length (ft)   Serial No.   Position   Depth (ft)   Accum. Lengths     Shut-In Tool   5.00   4303.00   4308.00   4308.00   4308.00   4308.00     Ydraulic tool   5.00   4318.00   20.00   Bottom Of To     Packer   5.00   4335.00   4336.00   4336.00     Packer   5.00   4336.00   4367.16   4368.16     Change Over Sub   1.00   4368.16   4369.16   4369.16	Interval betw een Packers: 55.16 ft Tool Length: 75.16 ft Number of Packers: 2 Diameter: 6.75 inches Tool Comments: Ruined Packer		
Tool Length:75.16 ftNumber of Packers:2Diameter:6.75 inchesTool Comments: Ruined Packer2Diameter:6.75 inchesTool DescriptionLength (ft)Serial No.PositionDepth (ft)Accum. LengthsShut-In Tool5.004303.004308.00Hydraulic tool5.004318.0020.00Bottom Of ToPacker5.004335.004336.00Packer5.004336.0020.00Bottom Of ToAnchor17.004336.004336.00Drill Pipe31.164367.16Change Over Sub1.008354Inside4369.16	Tool Length:75.16 ftNumber of Packers:2Diameter:6.75 inchesTool Comments: Ruined Packer		
Number of Packers:2Diameter:6.75 inchesTool Comments: Ruined PackerLength (ft)Serial No.PositionDepth (ft)Accum. LengthsShut-In Tool5.004303.00Hydraulic tool5.004308.00Top Packer5.004313.00Packer5.004335.00Anchor17.004335.00Change Over Sub1.004367.16Drill Pipe31.164367.16Recorder1.008354Inside4369.16	Number of Packers: 2 Diameter: 6.75 inches Tool Comments: Ruined Packer		
Tool Comments: Ruined PackerTool DescriptionLength (ft)Serial No.PositionDepth (ft)Accum. LengthsShut-In Tool5.004303.00Hydraulic tool5.004308.00Top Packer5.004313.00Packer5.004318.00Packer5.004335.00Change Over Sub1.004367.16Change Over Sub1.004368.16Recorder1.008354Inside4369.16	Tool Comments: Ruined Packer		
Tool Description     Length (ft)     Serial No.     Position     Depth (ft)     Accum. Lengths       Shut-In Tool     5.00     4303.00     4308.00     4308.00     4313.00     6000000000000000000000000000000000000			
Packer     5.00     4318.00     20.00     Bottom Of To       Anchor     17.00     4335.00     4336.00     100 <t< th=""><th></th><th></th><th></th></t<>			
Hydraulic tool   5.00   4308.00     Top Packer   5.00   4313.00     Packer   5.00   4318.00   20.00   Bottom Of To     Anchor   17.00   4335.00   Change Over Sub   1.00   4367.16     Change Over Sub   1.00   4368.16   4369.16   1.00   1.00		Juis	
Top Packer     5.00     4313.00       Packer     5.00     4318.00     20.00     Bottom Of To       Anchor     17.00     4335.00     20.00     Bottom Of To       Change Over Sub     1.00     4336.00     4367.16     100     100     4368.16     100			
Anchor     17.00     4335.00       Change Over Sub     1.00     4336.00       Drill Pipe     31.16     4367.16       Change Over Sub     1.00     4368.16       Recorder     1.00     8354	Top Packer 5.00 4313.00		
Change Over Sub   1.00   4336.00     Drill Pipe   31.16   4367.16     Change Over Sub   1.00   4368.16     Recorder   1.00   8354   Inside   4369.16	Packer 5.00 4318.00 20.	.00	Bottom Of Top
Drill Pipe     31.16     4367.16       Change Over Sub     1.00     4368.16       Recorder     1.00     8354     Inside     4369.16	Anchor 17.00 4335.00		
Change Over Sub     1.00     4368.16       Recorder     1.00     8354     Inside     4369.16	Change Over Sub     1.00     4336.00		
Recorder 1.00 8354 Inside 4369.16			
	Change Over Sub 1.00 4368.16		
Recorder 1.00 8960 Outside 4370.16			
	Recorder 1.00 8960 Outside 4370.16		
Bullnose 3.00 4373.16 55.16 An	Bullnose 3.00 4373.16 55.	.16	Anch
Total Tool Length: 75.16	Total Tool Length: 75.16		

()A	RILOBITE	DRI	LL STEM TEST	REPORT	-		FLUID SU	JMMARY
「「	CONTRACTOR DE LA CONTRACTÓRIA DE LA	Mai Oil	Operation Inc.		16-20S-22	W Ness,KS		
	ESTING , INC		8411 Preston Road Suite 800		D&D Unit	#1		
		Dallas TX 75225+5520		Job Ticket:	64782	DST#:2		
		ATTN:	Jim Musgrove		Test Start: 2	2017.05.21 @ 2	2:56:00	
Mud and C	ushion Information							
Mud Type: 0 Mud Weight: Viscosity: Water Loss: Resistivity: Salinity: Filter Cake:	Gel Chem 9.00 lb/gal 55.00 sec/qt 7.98 in <sup>3</sup> ohm.m 4900.00 ppm 1.00 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressur	e:	ft bbl psig	Oil API: Water Salinity:		deg API ppm
Recovery I	nformation							
	[	41-	Recovery Table		14.1	7		
	Leng ft	lth	Description		Volume bbl			
		75.00	OCM Oil 10% Mud 90%		0.36	9		
	Total Length:	75	5.00 ft Total Volume:	0.369 bbl				
	Num Fluid Samp Laboratory Nan		Num Gas Bombs: Laboratory Location	0	Serial #	<i>‡</i> :		
	Recovery Com		Laboratory Locali					
Trilobite Te	estina Inc	P	Ref. No: 64782		Printe	d: 2017.05.23 @	13:33:25	
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Trilobite Testing, Inc

Ref. No: 64782

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