

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1333424
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1333424

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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JAMES C. MUSGROVE

Petroleum Geologist, LLC
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations
Clasen #2
SE-NW-NE (990' FNL & 1650' FEL)
Section 25-19s-13w
Barton County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: September 15, 2016
Completed: September 22, 2016
Elevation: 1838' K.B., 1836' D.F., 1830' G.L.
Casing program: Surface; 8 5/8" @ 682'
Production/Disposal; 5 1/2" @ 3462'
Sample: Samples saved and examined 2900' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2900' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were three (3) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Eli Wireline Services, Dual Induction, Compensated Density/Neutron Log and Micro Log

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	684	+1154
Base Anhydrite	705	+1133
Heebner	3021	-1183
Toronto	3037	-1183
Douglas	3053	-1199
Brown Lime	3132	-1215
Lansing	3146	-1294
Base Kansas City	3375	-1308
Conglomerate	3386	-1548
Conglomerate Chert	3421	-1583
Arbuckle	3434	-1596
Reagan Sand	3476	-1638
Granite Wash	3550	-1712
Granite	3625	-1787
Rotary Total Depth	3627	-1789
Log Total Depth	3525	-1687

Remarks: After Electric Logs were run, it was decided to drill additional footage.

(All tops and zones corrected to electric log measurements)

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

TOPEKA SECTION

2966-2974' Limestone, tan, oolitic/fossiliferous, chalky, fair porosity, spotty brown stain, no free oil and no odor in fresh samples.

TORONTO SECTION

3037-3050' Limestone, white/cream, dolomitic in part; slightly fossiliferous, trace black stain, no show of free and no odor.

LANSING SECTION

3146-3154' Limestone, gray, white, fossiliferous/oolitic, chalky, fair porosity, brown stain, show of free oil and good odor in fresh samples.

3161-3165' Limestone, tan, finely oolitic, fair porosity, fair stain and saturation, show of free oil and fair odor in fresh samples.

Drill Stem Test #1 **3125-3185**

Times: 45-30-45-60

Blow: Strong

Recovery: 465' gas in pipe
93' mud, scum of oil

Pressures: ISIP 330 psi
FSIP 438 psi
IFP 70-73 psi
FFP 69-74 psi
HSH 1547-1527 psi

3193-3201' Limestone, gray, medium crystalline, few fossiliferous, chalky in part; black (dead) stain, no show of free oil or odor in fresh samples.

3211-3216' Limestone, tan, oolitic, scattered porosity, brown stain/saturation, show of free oil and faint odor in fresh samples.

Drill Stem Test #2 **3186-3225**

Times: 30-30-45-45

Blow: Weak

Recovery: 55' gas in pipe
5' mud/show of oil

Pressures: ISIP 87 psi
FSIP 86 psi
IFP 21-17 psi
FFP 17-16 psi
HSH 1557-1545 psi

- 3229-3236' Limestone, tan, oomoldic, fair to good oomoldic porosity, brown spotty stain, one (1) piece, show of free oil and no odor in fresh samples.
- 3236-3250' Limestone, as above, no shows.
- 3283-3290' Limestone, cream, sub-oomoldic, poor to fair porosity, brown stain, show of free oil and no odor in fresh samples.
- 3297-3306' Limestone, cream, white, oolitic, fair porosity, gray and black stain, no show of free oil and no odor in fresh samples.
- 3317-3321' Limestone, white, gray, oomoldic, fair oomoldic porosity, poor brown stain, show of free oil and no odor in fresh samples.
- 3340-3346' Limestone, tan, white, fossiliferous, poor visible porosity, brown stain, trace of free oil and no odor in fresh samples.

Drill Stem Test #3 **3268-3360**

Times: 30-30-45-60

Blow: Strong; gas to surface 30 mins into final flow, TSTM

Recovery: 20' mud, show of oil
124' muddy gassy watery oil
(20% gas; 50% oil; 10% water; 20% mud)
186' muddy gassy watery oil
(30% gas; 40% oil; 15% water; 15% mud)

Pressures: ISIP 684 psi
FSIP 717 psi
IFP 90-103 psi
FFP 118-155 psi
HSH 1636-1593 psi

Mai Oil Operations
Clasen #2
SE-NW-NE (990' FNL & 1650' FEL)
Section 25-19s-13w
Barton County, Kansas

Page 4

CONGLOMERATE SECTION

- 3386-3400' Shale, red, sandy; plus brick red soft shale and white/yellow chert.
- 3400-3421' Shale, blue green, maroon sub-waxy; plus chert as above.
- 3421-3432' Chert; white/gray, boney, few weathered, black stain, no free oil and faint odor in fresh samples.

ARBUCKLE SECTION

- 3434-3450' Dolomite, cream, white, fine and medium crystalline, few cherty, few sandy, poor visible porosity, trace brown/black stain, no free oil and no odor in fresh samples.
- 3450-3460' Dolomite, as above, no shows, faint odor in fresh samples.
- 3460-3476' Dolomite, as above, dolomite, pink, sandy, slightly cherty, no shows.

REAGAN SAND

- 3476-3490' Sand, clear, glossy quartzite, very fined grained, rounded, fair sorting, fair to good intergranular porosity, no shows.
- 3490-3500' Sand, as above, dolomitic, no shows.
- 3500-3520' Sand, coarse grained, sub-rounded/rounded; trace pyrite, no shows.
- 3520-3530' Sand, as above, green tinted; few brown and beige in color, no shows.
- 3530-3550' Sand, as above, abundant loose unconsolidated quartz grains, no shows.

GRANITE WASH

- 3500-3580' Schist, quartz/biotite, black, dark black weathered in part; plus iron pyrite, no shows, loose unconsolidated quartz grains.
- 3580-3625' Schist, as above, no shows.

GRANITE

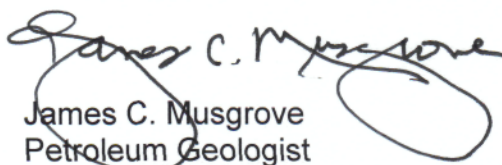
- 3625-3627' Quartz, biotite schist, plus trace, red/pink feldspar; no shows.

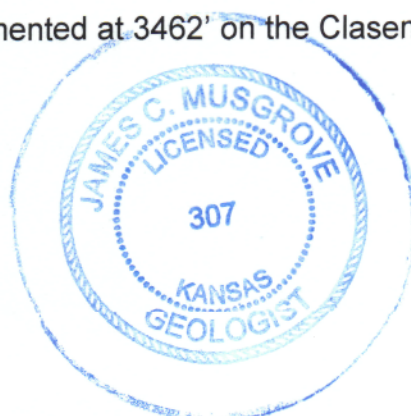
Rotary Total Depth 3625
Log Total Depth 3625

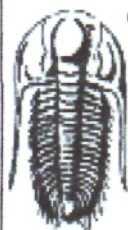
Recommendations:

The 5 ½" production/disposal casing was set and cemented at 3462' on the Clasen #2.

Respectfully yours,


James C. Musgrove
Petroleum Geologist





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc

25-19S-13W Barton,KS

8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

Clasen #2

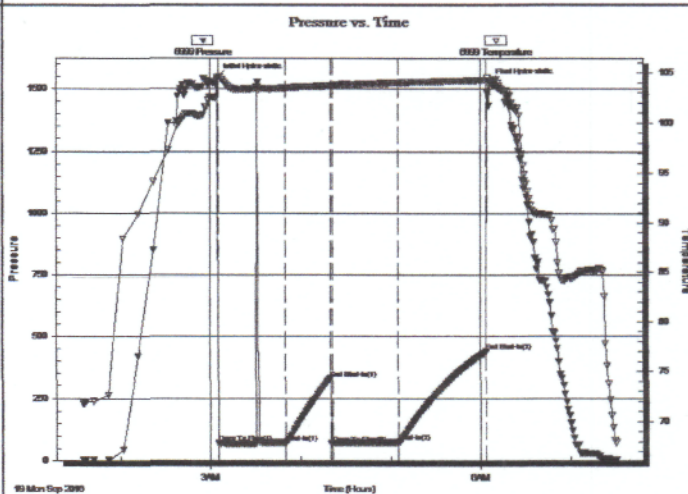
Job Ticket: 65120 **DST#: 1**
Test Start: 2016.09.19 @ 01:35:00

GENERAL INFORMATION:

Formation: **LKC A - C**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 03:05:30
Time Test Ended: 07:30:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72
Interval: **3125.00 ft (KB) To 3185.00 ft (KB) (TVD)**
Reference Elevations: 1838.00 ft (KB)
Total Depth: 3185.00 ft (KB) (TVD) 1830.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6999 Inside
Press@RunDepth: 74.48 psig @ 3180.72 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.09.19 End Date: 2016.09.19 Last Calib.: 2016.09.19
Start Time: 01:35:05 End Time: 07:30:29 Time On Btm: 2016.09.19 @ 03:04:30
Time Off Btm: 2016.09.19 @ 06:06:30

TEST COMMENT: IFP 45 minutes Surging build to BOB in 17 1/2 minutes/flush tool after 25 min/ no change
ISI 30 minutes No blow back
FFP 45 minutes Smooth built to BOB in 1 min then slow ed to match I.F. after 4 minutes
FSI 60 minutes No blow back



PRESSURE SUMMARY

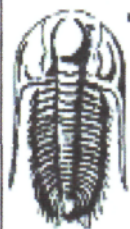
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1547.78	104.24	Initial Hydro-static
1	70.35	104.58	Open To Flow (1)
46	73.78	103.47	Shut-in(1)
76	330.01	103.69	End Shut-in(1)
77	69.57	103.71	Open To Flow (2)
121	74.48	104.01	Shut-in(2)
180	438.71	104.27	End Shut-in(2)
182	1527.75	104.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	Mud w with a skim of oil/ Mud 100%	1.30
0.00	465' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc
8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

25-19S-13W Barton,KS
Clasen #2
Job Ticket: 65120 **DST#: 1**
Test Start: 2016.09.19 @ 01:35:00

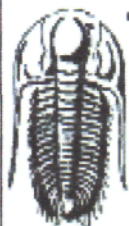
Tool Information

Drill Pipe:	Length: 3134.00 ft	Diameter: 3.80 inches	Volume: 43.96 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: 48000.00 lb
		Total Volume:	43.96 bbl	Tool Chased 15.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3125.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.72 ft			
Tool Length:	79.72 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Initial set 15 foot high/slide tool 10 foot after open to top of joint/picked up another joint/tool slid 5 foot before second open/ no slide after tool opened

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3110.00	
Hydraulic tool	5.00			3115.00	
Top Packer	5.00			3120.00	
Packer	5.00			3125.00	20.00 Bottom Of Top Packer
Anchor	5.00			3130.00	
Change Over Sub	1.00			3131.00	
Drill Pipe	31.72			3162.72	
Change Over Sub	1.00			3163.72	
Anchor	16.00			3179.72	
Recorder	1.00	6999	Inside	3180.72	
Recorder	1.00	8960	Outside	3181.72	
Bullnose	3.00			3184.72	59.72 Anchor Tool

Total Tool Length: 79.72



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc
8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

25-19S-13W Barton,KS
Clasen #2
Job Ticket: 65120 **DST#: 1**
Test Start: 2016.09.19 @ 01:35:00

Mud and Cushion Information

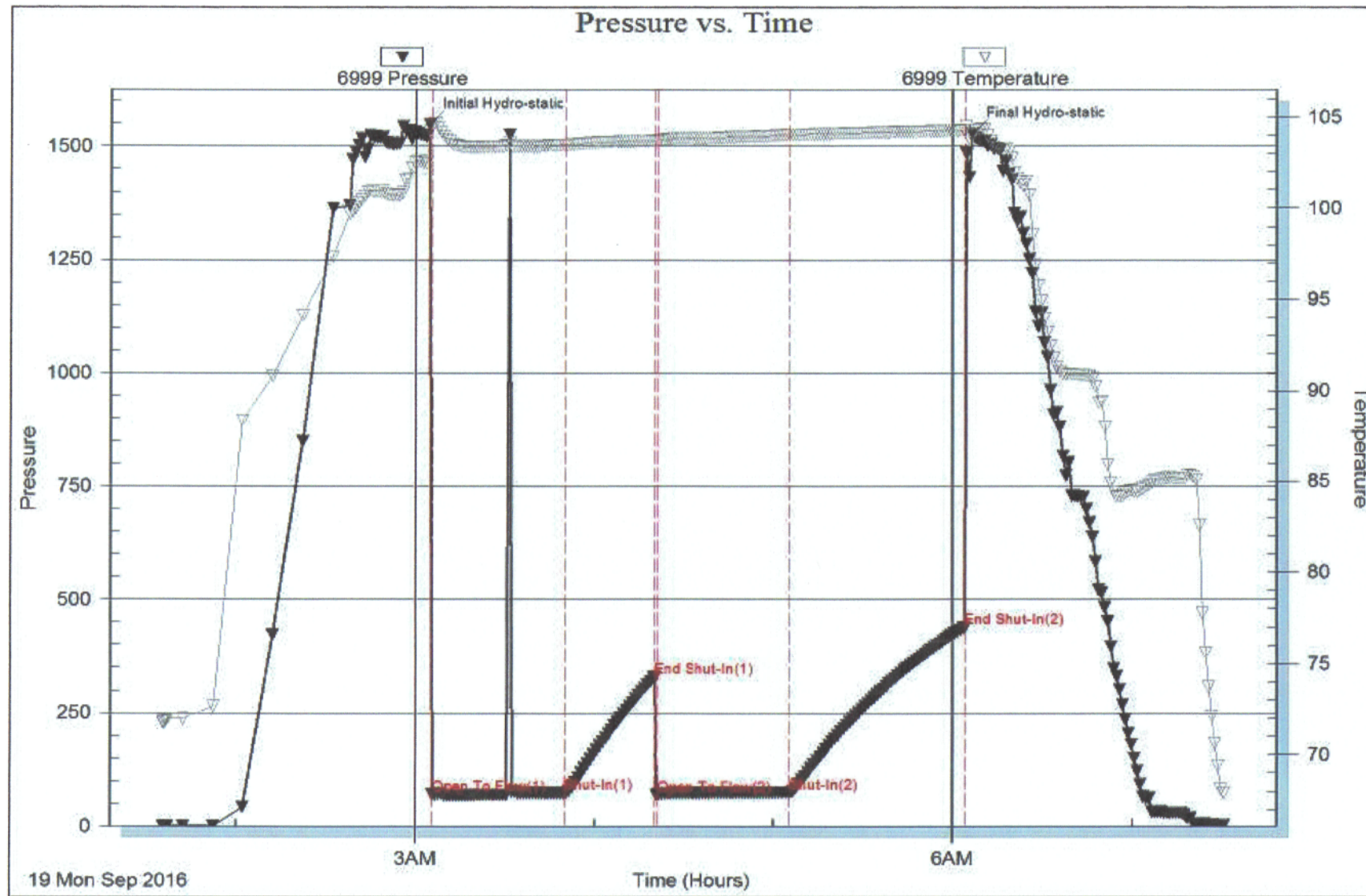
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 2.00 inches			

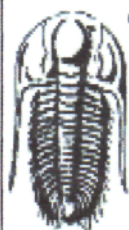
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	Mud with a skim of oil/ Mud 100%	1.305
0.00	465' GIP	0.000

Total Length: 93.00 ft Total Volume: 1.305 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc

25-19S-13W Barton,KS

8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

Clasen #2

Job Ticket: 65121

DST#: 2

Test Start: 2016.09.19 @ 13:38:00

GENERAL INFORMATION:

Formation: **LKC D - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:42:30

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3186.00 ft (KB) To 3225.00 ft (KB) (TVD)

Reference Elevations: 1838.00 ft (KB)

Total Depth: 3225.00 ft (KB) (TVD)

1830.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960 Outside

Press@RunDepth: 87.64 psig @ 3222.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.19

End Date:

2016.09.19

Last Calib.: 2016.09.19

Start Time: 13:38:05

End Time:

18:26:29

Time On Btm: 2016.09.19 @ 14:41:00

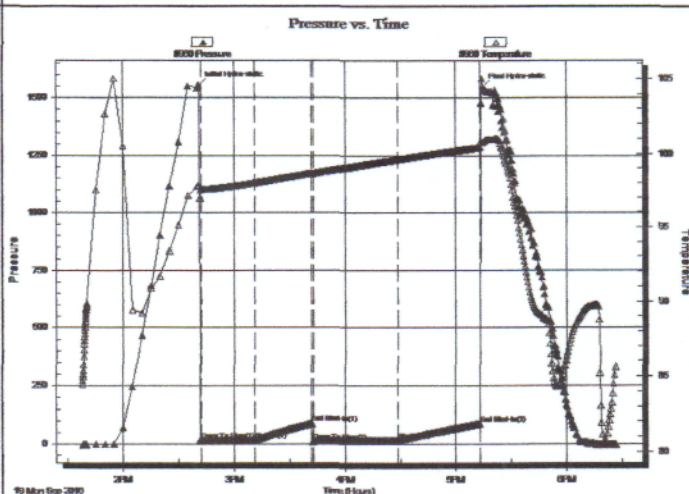
Time Off Btm: 2016.09.19 @ 17:14:30

TEST COMMENT: IFP 30 minutes Weak blow built to 3"

ISI 30 minutes No blow back

FFP 45 minutes Blow built to 5"

FSI 45 minutes No blow back



PRESSURE SUMMARY

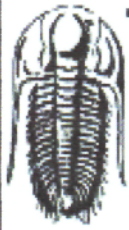
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.62	97.81	Initial Hydro-static
1	15.95	97.52	Open To Flow (1)
31	16.52	97.99	Shut-In(1)
61	89.13	98.66	End Shut-In(1)
62	13.18	98.62	Open To Flow (2)
108	16.54	99.58	Shut-In(2)
152	87.64	100.40	End Shut-In(2)
154	1544.64	100.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with show of oil in tool/Mud 100%	0.07
0.00	55 feet of gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc
8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

25-19S-13W Barton,KS
Clasen #2
Job Ticket: 65121 **DST#: 2**
Test Start: 2016.09.19 @ 13:38:00

Tool Information

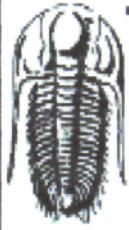
Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 44.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3186.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3171.00	
Hydraulic tool	5.00			3176.00	
Top Packer	5.00			3181.00	
Packer	5.00			3186.00	20.00 Bottom Of Top Packer
Anchor	34.00			3220.00	
Recorder	1.00	6999	Inside	3221.00	
Recorder	1.00	8960	Outside	3222.00	
Bullnose	3.00			3225.00	39.00 Anchor Tool

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc
8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

25-19S-13W Barton,KS
Clasen #2
Job Ticket: 65121 **DST#: 2**
Test Start: 2016.09.19 @ 13:38:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.16 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud with show of oil in tool/Mud 100%	0.070
0.00	55 feet of gas in pipe	0.000

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

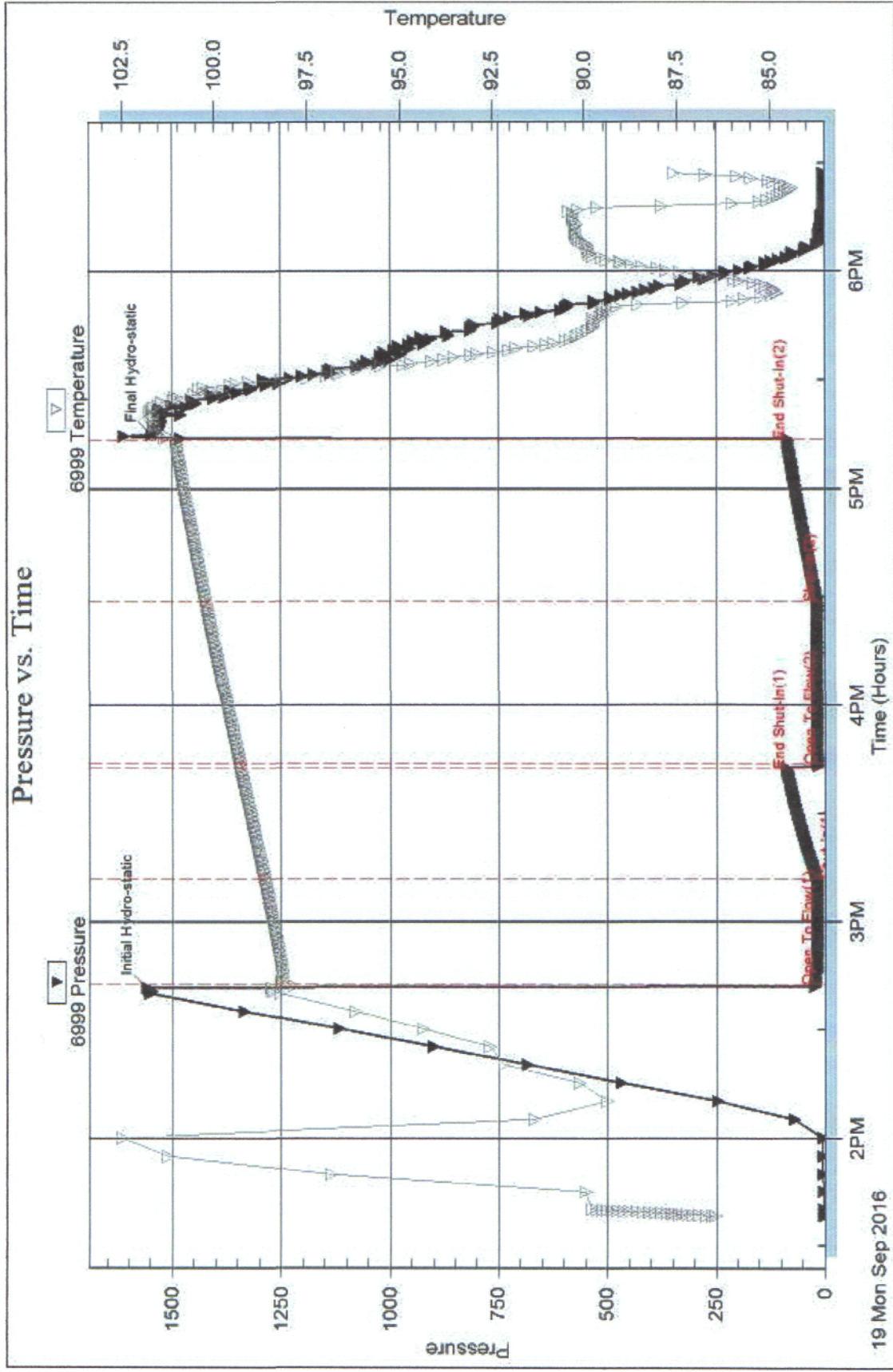
Serial #: 6999

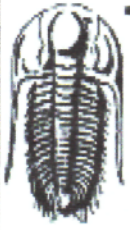
Inside

Mai Oil Operations Inc

Case #2

DST Test Number: 2





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Road
 Suite 800
 Dallas TX 75225+5520
 ATTN: Jim Musgrove

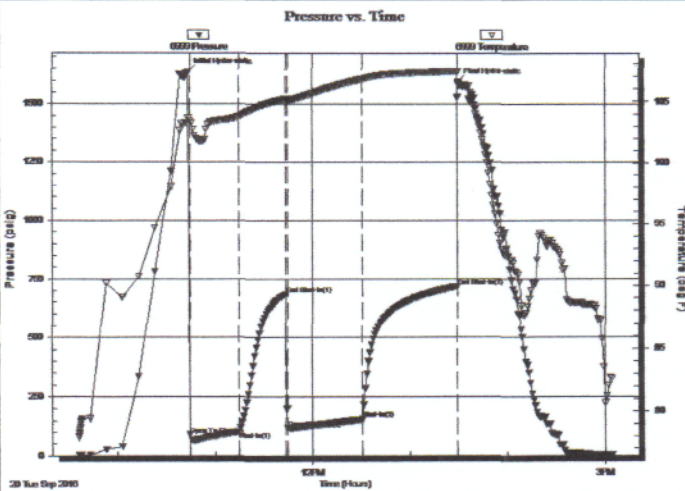
25-19S-13W Barton,KS
Clasen #2
 Job Ticket: 65122 **DST#: 3**
 Test Start: 2016.09.20 @ 09:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:44:30
 Time Test Ended: 15:05:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Interval: **3268.00 ft (KB) To 3360.00 ft (KB) (TVD)**
 Reference Elevations: 1838.00 ft (KB)
 Total Depth: 3360.00 ft (KB) (TVD) 1830.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6999 Inside
 Press@RunDepth: 155.65 psig @ 3355.49 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.20 End Date: 2016.09.20 Last Calib.: 2016.09.20
 Start Time: 09:36:05 End Time: 15:04:59 Time On Btm: 2016.09.20 @ 10:43:30
 Time Off Btm: 2016.09.20 @ 13:30:00

TEST COMMENT: IFP 30 minutes BOB in 1 minute
 ISI 30 minutes Blow back built to 5"
 FFP 45 minutes BOB in 1 min - GTS in 30 min - TSTM
 FSI 60 minutes BOB in 15 min



PRESSURE SUMMARY

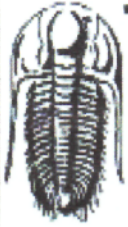
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.38	103.66	Initial Hydro-static
1	90.47	103.38	Open To Flow (1)
31	103.35	103.76	Shut-In(1)
60	684.91	105.18	End Shut-In(1)
62	118.18	105.10	Open To Flow (2)
107	155.65	106.78	Shut-In(2)
166	717.14	107.43	End Shut-In(2)
167	1593.74	106.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud with show of oil/Mud 100%	0.28
124.00	Water cut gassy muddy emulsified oil	1.74
0.00	Water 10% Gas 20% Mud 20% Oil 50%	0.00
186.00	Water and Mud cut Gassy Oil	2.61
0.00	Water 15% Mud 15% Gas 30% Oil 40%	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc
8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

25-19S-13W Barton,KS
Clasen #2
Job Ticket: 65122 **DST#: 3**
Test Start: 2016.09.20 @ 09:36:00

Tool Information

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 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: 43000.00 lb
			Total Volume: 45.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3268.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.49 ft			
Tool Length:	111.49 ft			
Number of Packers:	2	Diameter: 6.75 inches		

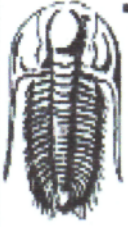
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3253.00	
Hydraulic tool	5.00			3258.00	
Top Packer	5.00			3263.00	
Packer	5.00			3268.00	20.00 Bottom Of Top Packer
Anchor	5.00			3273.00	
Change Over Sub	1.00			3274.00	
Drill Pipe	63.49			3337.49	
Change Over Sub	1.00			3338.49	
Anchor	16.00			3354.49	
Recorder	1.00	6999	Inside	3355.49	
Recorder	1.00	8960	Outside	3356.49	
Bullnose	3.00			3359.49	91.49 Anchor Tool

Total Tool Length: 111.49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc
8411 Preston Road
Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

25-19S-13W Barton,KS
Clasen #2
Job Ticket: 65122 **DST#: 3**
Test Start: 2016.09.20 @ 09:36:00

Mud and Cushion Information

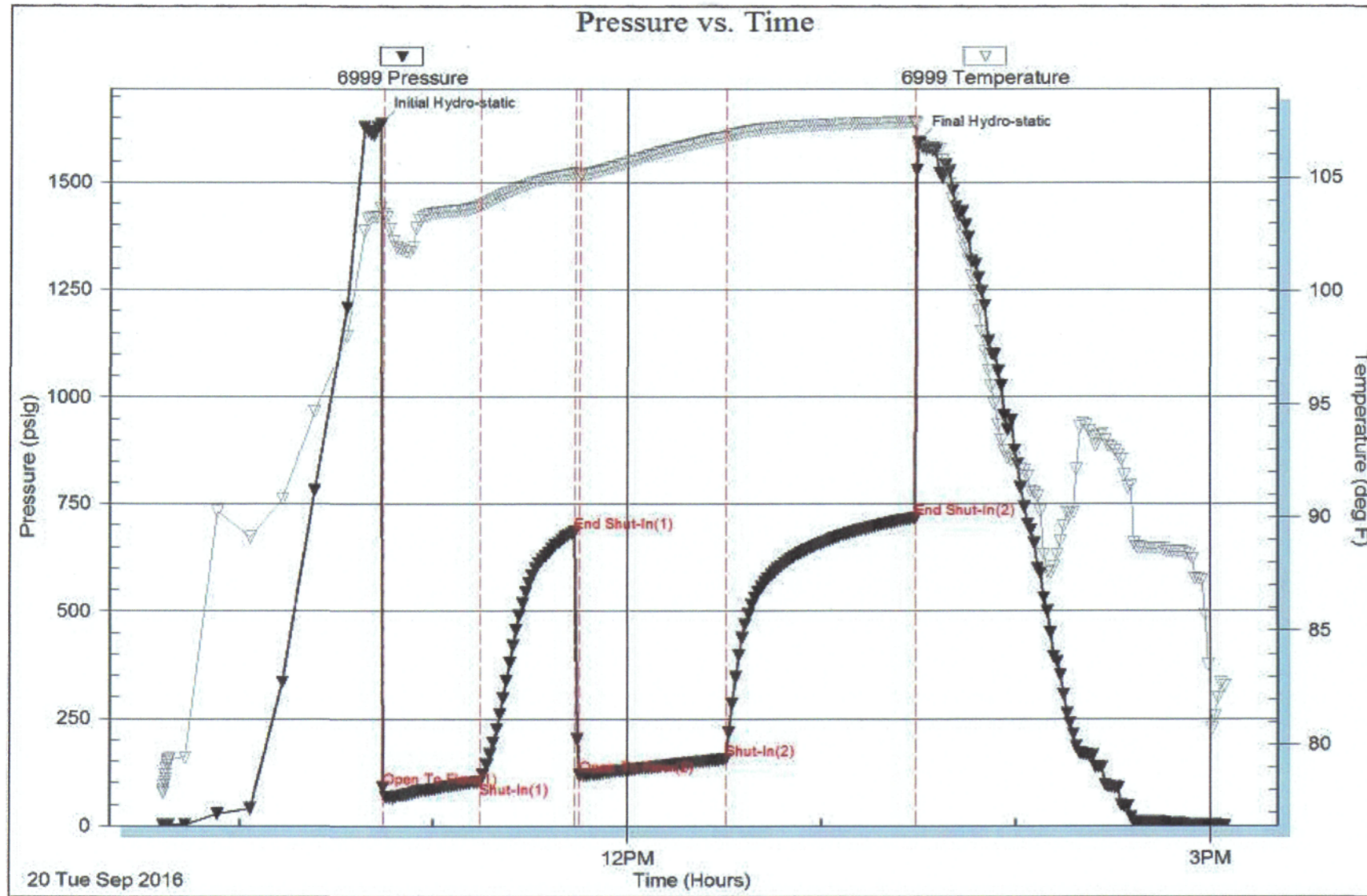
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud with show of oil/Mud 100%	0.281
124.00	Water cut gassy muddy emulsified oil	1.739
0.00	Water 10% Gas 20% Mud 20% Oil 50%	0.000
186.00	Water and Mud cut Gassy Oil	2.609
0.00	Water 15% Mud 15% Gas 30% Oil 40%	0.000

Total Length: 330.00 ft Total Volume: 4.629 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1776

Date	9-16-16	Sec.	25	Twp.	19	Range	13	County	Barton	State	KS	On Location		Finish	1:30 pm
Lease								Well No.		Owner					
Contractor								Well No.		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								T.D.		Charge To					
Hole Size								Depth		Street					
Csg.								Depth		City					
Tbg. Size								Depth		State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
Meas Line								Displace							
EQUIPMENT								Common							
Pumptrk	No.	Cementer													
		Helper													
Bulktrk	No.	Driver													
		Driver													
Bulktrk	No.	Driver													
		Driver													
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
8 5/8 on bottom for circulation								Handling							
Mix 380 lb of surface plug								Mileage							
Cement circulated								FLOAT EQUIPMENT							
								Guide Shoe 8 5/8 Rubber Plug							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
X Signature								Total Charge							

Quality Oilwell
Cementing

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3010

Date	9-22-16	Sec.	25	Twp.	19	Range	13	County	Barton	State	Ks	On Location		Finish	9:00 A-
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Lease Clasen Well No. 2 Location Great Bend, Ks - 2E, 1N, 1/2 W 5/4

Contractor Southwind #3 Owner To Quality Oilwell Cementing, Inc.
 Type Job Production You are hereby requested to rent cementing equipment and furnish
 cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 7/8" T.D. 3627' Charge To Ma^e oil operations

Csg. 5 1/2" 14# used Depth 3462' Street _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 28.10' Shoe Joint 28.10' Cement Amount Ordered 160 60% 100% Salt 2 1/2 gal

Meas Line _____ Displace 83 3/4 BLS 1/4# Flo-seal - 1000 gal Mud CLR 48

EQUIPMENT

Pumptrk	16	No.	Cementer		Common
			Helper	<u>Rick</u>	Poz. Mix
Bulktrk	9	No.	Driver	<u>Tom</u>	Gel.
Bulktrk	<u>P.U.</u>	No.	Driver	<u>Share</u>	Calcium

JOB SERVICES & REMARKS

Remarks: pipe on bottom break Circul Salt

Rat Hole pump 1000 gal mud Clear 48 Flowseal

Mouse Hole plug Pathhole w/ 30 sx Hook Kol-Seal

Centralizers 1-8 11-12 Mud CLR 48

Baskets 1 CFL-117 or CD110 CAF 38

D/V or Port Collar to 5 1/2" casing + mix 130s Sand

Cement, shut down wash pump + Handling

lines Released plug + Displaced Mileage

w/ 83 3/4 BLS

FLOAT EQUIPMENT

Released + held, Guide Shoe Packer shoe

Lift pressure #900 Centralizer 10

hand plug to #1600 Baskets 1 Caged

Set packer shoe w/ 1300# AFU Inserts

Landed 1/4 bbl early - had a well Float Shoe

valve leaking in 1-tank Latch Down 1

Signature Burt Horne Pumptrk Charge

Mileage _____ Tax _____

Discount _____

Total Charge _____

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Pat Apple, Chairman
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

February 08, 2017

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO-1
API 15-009-26151-00-00
CLASEN 2
NE/4 Sec.25-19S-13W
Barton County, Kansas

Dear Allen Bangert:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 09/15/2016 and the ACO-1 was received on February 08, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department