

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date _____

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 786-0839

Mai Oil Operations Inc.
Bayer #1
NW-SW-SE-S (347' FSL & 1310' FEL)
Section 28-10s-13w
Barton County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: August 10, 2018
Completed: August 16, 2018
Elevation: 1897' K.B., 1895' D.F., 1889' G.L.
Casing program: Surface; 8 5/8" @ 656'
Production, 5 1/2" @ 3594'
Sample: Samples saved and examined 2800' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2800' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Eli; Dual Induction; Compensated Density/Neutron Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	745	+1152
Base Anhydrite	768	+1129
Heebner	3148	-1251
Toronto	3166	-1269
Douglas	3184	-1287
Brown Lime	3267	-1369
Lansing	3278	-1381
Base Kansas City	3499	-1602
Conglomerate	3520	-1623
Erosional Arbuckle	3558	-1661
Solid Arbuckle	3572	-1675
Rotary Total Depth	3600	-1703
Log Total Depth	3600	-1703

(All tops and zone(s) corrected to Electric Log Measurements)

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

TOPEKA SECTION

2914-2928' Limestone, tan, brown; finely crystalline, scattered porosity; trace brown stain, no free oil and no odor in fresh samples.

- 3006-3020' Limestone, cream, tan; fossiliferous, pinpoint type porosity, brown stain, no free oil and no odor in fresh samples.
- 3096-3100' Limestone, tan; buff; fair porosity, trace black stain, no free oil and no odor in fresh samples.
- 3128-3132' Limestone, tan, brown, chalky, few fossiliferous, poor to fair vuggy type porosity, trace questionable brown stain, no show of free oil and no odor; plus tan chert.

TORONTO SECTION

- 3166-3176' Limestone, tan, buff, poor visible porosity, trace brown stain, no show of free oil and no odor in fresh samples.

LANSING SECTION

- 3278-3290' Limestone, cream, chalky; poorly developed vuggy type porosity, trace spotty light brown stain, no show of free oil and no odor in fresh samples.
- 3302-3310' Limestone, cream, tan, few fossiliferous; chalky, scattered vuggy type porosity, trace brown and black stain, few with golden brown and dark brown stain, show of free oil and faint odor in fresh samples.
- 3322-3326' Limestone, white, cream, fine and medium crystalline, scattered porosity, trace brown and black stain, show of free oil (dead appearing) and fair odor in fresh samples.
- 3330-3336' Limestone, cream, white, finely crystalline, fossiliferous; fair porosity, trace black and brown stain, show of free oil and faint odor in fresh samples.
- 3339-3343' Limestone, cream, tan, finely crystalline, poor visible porosity; trace light brown edge stains; no show of free oil and no odor in fresh samples.
- 3346-3354 Limestone, tan, finely crystalline, scattered vuggy porosity; golden brown stain and saturation, show of free oil and faint odor in fresh samples.

Drill Stem Test #1

3288-3355

Times: 30-30-30-30

Blow: Strong

**Recovery: 170' gas in pipe
140' oil and gas cut mud
(10% gas; 15% oil; 75% mud)
190' Muddy water**

**Pressures: ISIP 773 psi
FSIP 719 psi
IFP 37-107 psi
FFP 112-169 psi
HSH 1627-1571 psi**

- 3362-3370' Limestone, tan; oomoldic, good scattered oomoldic porosity, dark brown stain; show of free oil and faint odor in fresh samples.

- 3370-3390' Limestone, tan; buff finely crystalline, few fossiliferous, cherty; poor visible porosity, no shows.
- 3406-3416' Limestone, tan, oomoldic; chalky; good oomoldic porosity, dark brown to black stain, show of free oil and faint odor in fresh samples.
- 3423-3430' Limestone, cream, tan, oolitic, oomoldic, chalky, poorly developed oomoldic and vuggy type porosity, golden brown stain, show of free oil and faint odor in fresh samples.
- 3434-3444' Limestone, white, cream, scattered vuggy type porosity; trace black stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #2

3397-3458

Times: 30-30-30-30

Blow: Strong

**Recovery: 1640' gas in pipe
445' gassy muddy oil
(55% oil; 30% gas; 15% mud)**

**Pressures: ISIP 880 psi
FSIP 853 psi
IFP 41-135 psi
FFP 150-213 psi
HSH 1665-1636 psi**

- 3456-3461' Limestone, as above, oomoldic/oolitic, good oomoldic porosity, trace brown stain, show of free oil and strong odor in fresh samples.
- 3487-3500' Limestone, white, cream; fair vuggy type porosity, trace black stain; show of free oil and faint odor in fresh samples.

CONGLOMERATE SECTION

- 3520-3558' Varied colored cherts in matrix of varied colored shales, no shows.

EROSIONAL ARBUCKLE SECTION

- 3558-3573' Dolomite, tan, brown; finely crystalline; poor porosity; trace black stain, no free oil and questionable odor.

SOLID ARBUCKLE SECTION

- 3573-3580' Dolomite, tan, brown; finely crystalline; scattered porosity, trace spotty black stain, no free oil and fair odor in fresh samples.
- 3580-3590' Dolomite, tan, sucrosic, fair porosity; trace black to brown stain, trace of free oil and faint odor in fresh samples.
- 3590-3600' Dolomite, tan, brown, finely crystalline, poorly developed porosity, trace brown stain, show of free oil and fair odor in fresh samples.

Mai Oil Operations Inc.
Bayer #1
NW-SW-SE-S (347' FSL & 1310' FEL)
Section 28-10s-13w
Barton County, Kansas

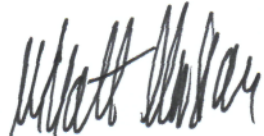
Page 4

Rotary Total Depth	3600 (-1703)
Log Total Depth	3600 (-1703)

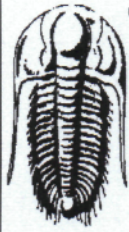
Recommendations:

5 ½" production casing was set and cemented on the Mai Oil Operations, Inc., Bayer #1.

Respectfully yours,



Wyatt Urban
Petroleum Geologist



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.
8411 Preston Rd. Ste. 800
Dallas, TX 75225
ATTN: Wyatt Urban

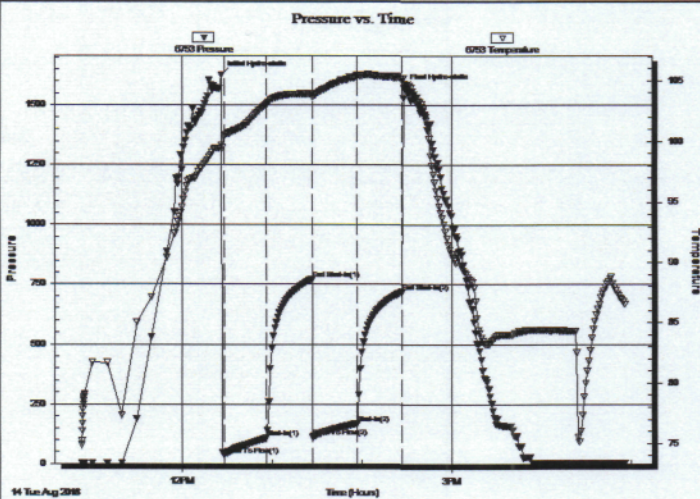
28-20S-13W Barton,KS
Bayer #1
Job Ticket: 63137 **DST#: 1**
Test Start: 2018.08.14 @ 10:52:20

GENERAL INFORMATION:

Formation: **LKC "A-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:27:50
Time Test Ended: 16:56:20
Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan Lonsdale
Unit No: 73
Interval: **3288.00 ft (KB) To 3355.00 ft (KB) (TVD)**
Total Depth: 3355.00 ft (KB) (TVD)
Reference Elevations: 1897.00 ft (KB)
1889.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GRVCF: 8.00 ft

Serial #: 6753 **Inside**
Press@RunDepth: 168.96 psig @ 3289.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.08.14 End Date: 2018.08.14 Last Calib.: 2018.08.14
Start Time: 10:52:25 End Time: 16:56:19 Time On Btm: 2018.08.14 @ 12:25:50
Time Off Btm: 2018.08.14 @ 14:28:20

TEST COMMENT: 30- IF- BOB 1 min. Built to 50.75"
30- IS- Slowly built to 1.5" then slowly died back to 1"
30- FF- BOB 6 mins. Built to 29"
30- FS- Slowly built to 5" then slowly died back to 4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.85	99.68	Initial Hydro-static
2	36.76	100.38	Open To Flow (1)
31	106.70	103.07	Shut-In(1)
61	773.16	103.93	End Shut-In(1)
62	111.54	103.64	Open To Flow (2)
91	168.96	105.42	Shut-In(2)
121	718.73	105.23	End Shut-In(2)
123	1571.44	104.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	MV, 25%M 75%W	2.69
140.00	GOCM, 10%G 15%O 75%M	1.98
0.00	170' 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 Rd. Ste. 800
Dallas, TX 75225
ATTN: Wyatt Urban

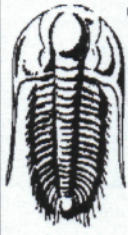
28-20S-13W Barton,KS
Bayer #1
Job Ticket: 63137 **DST#: 1**
Test Start: 2018.08.14 @ 10:52:20

Tool Information

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.82 inches	Volume: 46.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 41000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3288.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3269.00	
Shut In Tool	5.00			3274.00	
Hydraulic tool	5.00			3279.00	
Packer	5.00			3284.00	20.00 Bottom Of Top Packer
Packer	4.00			3288.00	
Stubb	1.00			3289.00	
Recorder	0.00	6753	Inside	3289.00	
Recorder	0.00	6771	Outside	3289.00	
Perforations	29.00			3318.00	
Change Over Sub	1.00			3319.00	
Drill Pipe	32.00			3351.00	
Change Over Sub	1.00			3352.00	
Bullnose	3.00			3355.00	67.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations, Inc.

28-20S-13W Barton,KS

8411 Preston Rd. Ste. 800
Dallas, TX 75225

Bayer #1

Job Ticket: 63137

DST#: 1

ATTN: Wyatt Urban

Test Start: 2018.08.14 @ 10:52:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	MW, 25%M 75%W	2.693
140.00	GOCM, 10%G 15%O 75%M	1.985
0.00	170' GIP	0.000

Total Length: 330.00 ft Total Volume: 4.678 bbl

Num Fluid Samples: 0

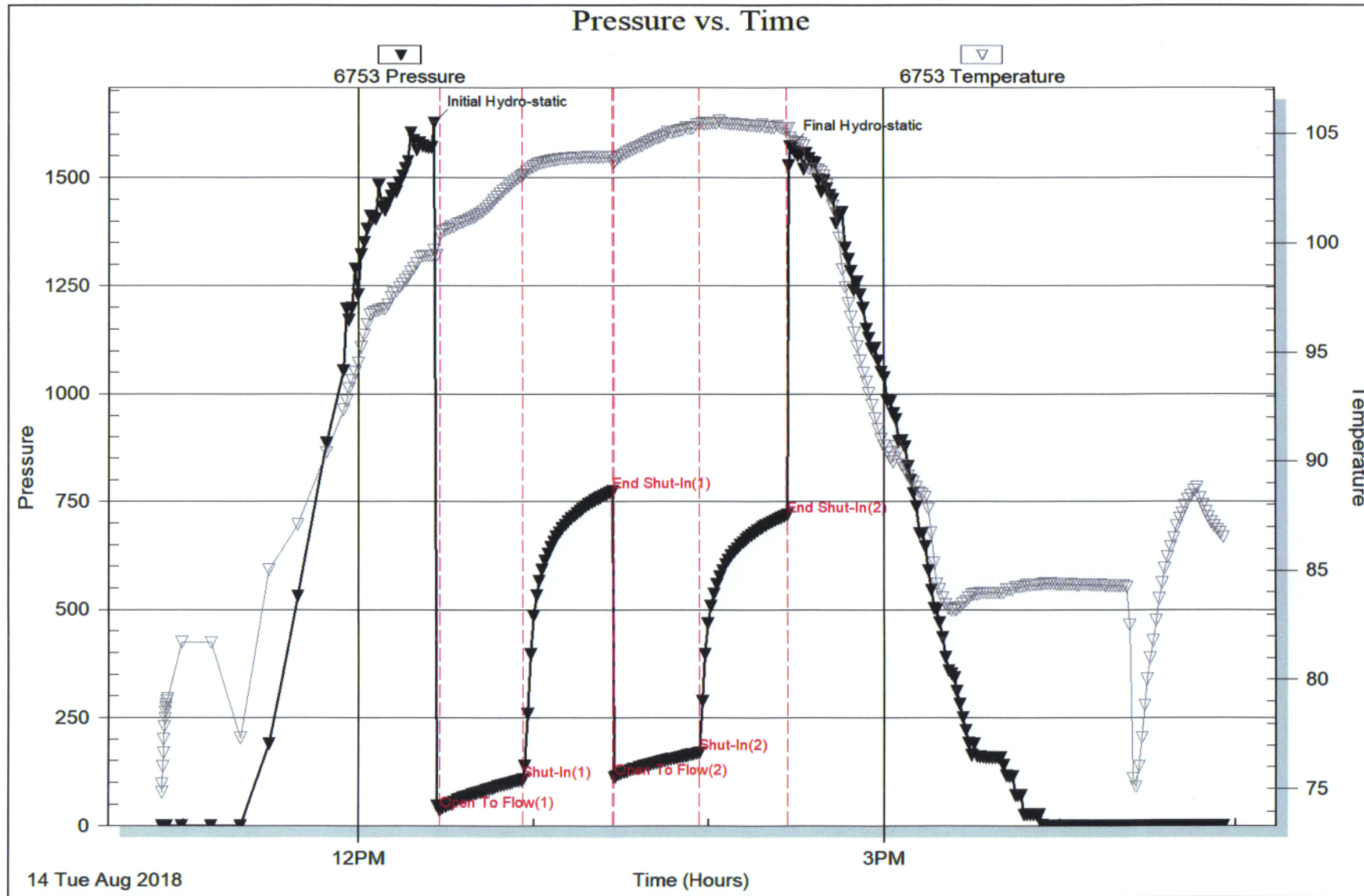
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .07@76deg





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.
 8411 Preston Rd. Ste. 800
 Dallas, TX 75225
 ATTN: Wyatt Urban

28-20S-13W Barton,KS
Bayer #1
 Job Ticket: 63138 **DST#: 2**
 Test Start: 2018.08.15 @ 03:17:46

GENERAL INFORMATION:

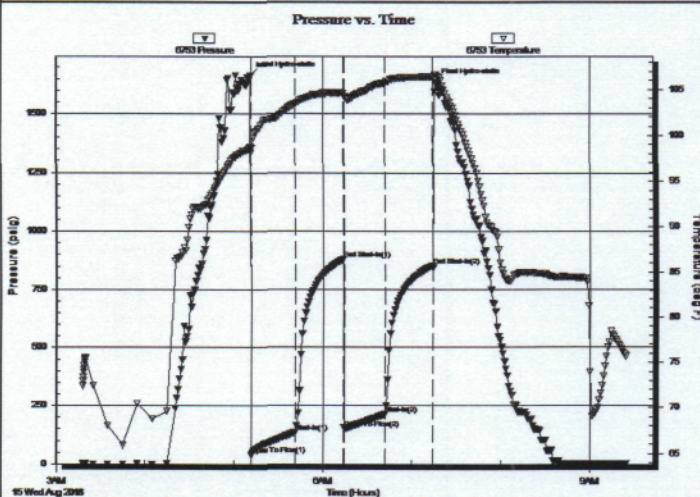
Formation: **LKC "H-J"**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **05:11:46**
 Tester: **Brannan Lonsdale**
 Time Test Ended: **09:24:46**
 Unit No: **73**
 Interval: **3397.00 ft (KB) To 3458.00 ft (KB) (TVD)**
 Reference Elevations: **1897.00 ft (KB)**
 Total Depth: **3458.00 ft (KB) (TVD)**
1889.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **8.00 ft**

Serial #: 6753

Inside

Press@RunDepth: **212.58 psig @ 3398.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2018.08.15** End Date: **2018.08.15** Last Calib.: **2018.08.15**
 Start Time: **03:17:51** End Time: **09:24:45** Time On Btm: **2018.08.15 @ 05:11:16**
 Time Off Btm: **2018.08.15 @ 07:15:46**

TEST COMMENT: 30- IF- BOB 2 mins. Built to 88"
 30- IS- BOB 21 mins. Built to 14"
 30- FF- BOB 2 mins. Built to 51"
 30- FS- BOB 7 mins. Built to 24"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.02	98.77	Initial Hydro-static
1	41.00	98.12	Open To Flow (1)
30	135.46	103.41	Shut-In(1)
63	880.27	104.56	End Shut-In(1)
64	149.79	104.22	Open To Flow (2)
91	212.58	105.70	Shut-In(2)
123	853.30	106.40	End Shut-In(2)
125	1635.69	106.64	Final Hydro-static

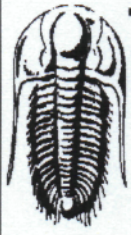
Recovery

Length (ft)	Description	Volume (bbl)
445.00	GMCO, 30%G 15%M 55%O	6.31
0.00	1640' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations, Inc.

28-20S-13W Barton,KS

8411 Preston Rd. Ste. 800
Dallas, TX 75225

Bayer #1

Job Ticket: 63138

DST#: 2

ATTN: Wyatt Urban

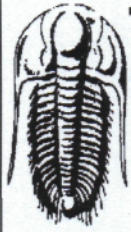
Test Start: 2018.08.15 @ 03:17:46

Tool Information

Drill Pipe:	Length: 3381.00 ft	Diameter: 3.82 inches	Volume: 47.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3397.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3378.00	
Shut In Tool	5.00			3383.00	
Hydraulic tool	5.00			3388.00	
Packer	5.00			3393.00	20.00 Bottom Of Top Packer
Packer	4.00			3397.00	
Stubb	1.00			3398.00	
Recorder	0.00	6753	Inside	3398.00	
Recorder	0.00	6771	Outside	3398.00	
Perforations	24.00			3422.00	
Change Over Sub	1.00			3423.00	
Drill Pipe	31.00			3454.00	
Change Over Sub	1.00			3455.00	
Bullnose	3.00			3458.00	61.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations, Inc.

28-20S-13W Barton,KS

8411 Preston Rd. Ste. 800
Dallas, TX 75225

Bayer #1

Job Ticket: 63138

DST#: 2

ATTN: Wyatt Urban

Test Start: 2018.08.15 @ 03:17:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
445.00	GMCO, 30%G 15%M 55%O	6.308
0.00	1640' GIP	0.000

Total Length: 445.00 ft Total Volume: 6.308 bbl

Num Fluid Samples: 0

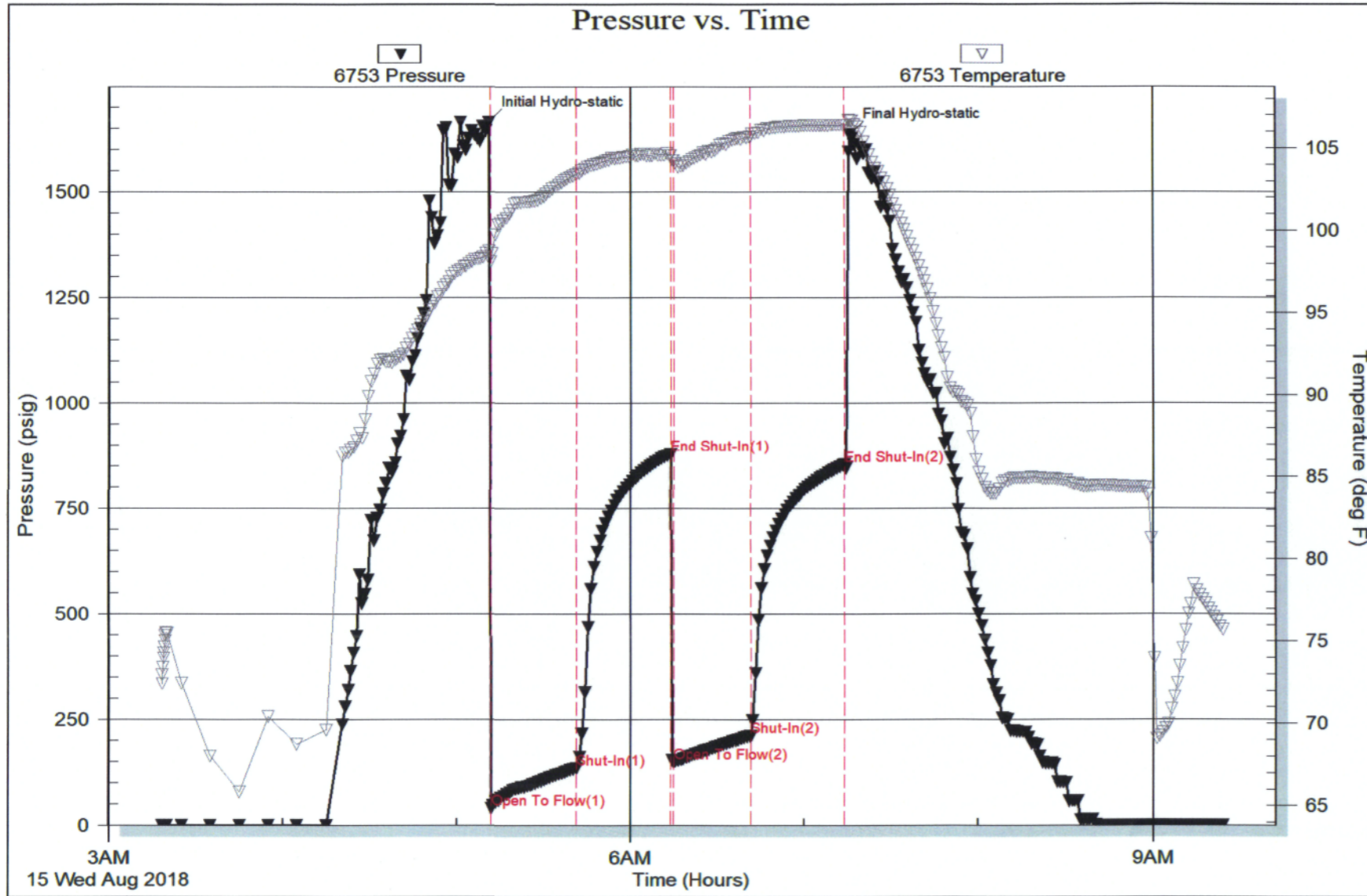
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



QUALITY OILWELL CEMENTING, INC.

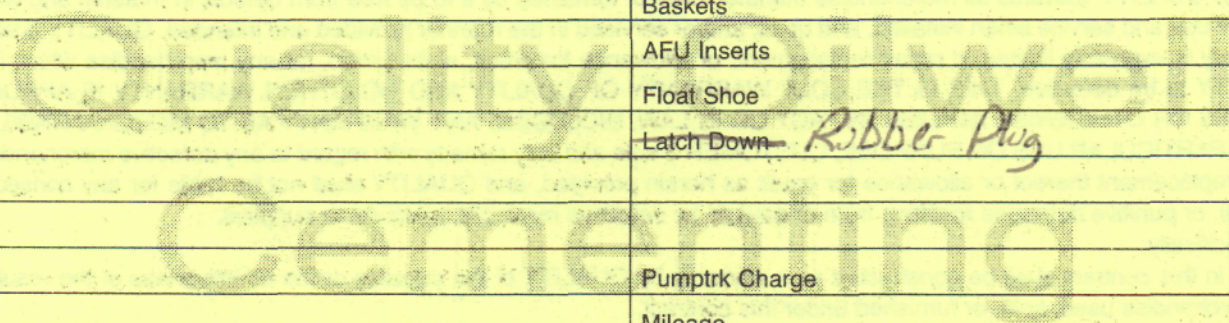
Federal Tax I.D.# 20-2886107

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

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

No. 887

Date	8-1-18	Sec.	28	Twp.	20	Range	13	County	Barber	State	KS	On Location	7:15 AM
Lease								Well No.		Location			
Bayer								L		Cora Bend 65 1/2 W Vinto			
Contractor								Owner		To Quality Oilwell Cementing, Inc.			
Southwind #3										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								Charge To		mai Oil			
Surface													
Hole Size				T.D.				Street					
12 1/4				656									
Csg.				Depth				City					
8 5/8				655				State					
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.					
Tool				Shoe Joint				Cement Amount Ordered					
								450 60/40 4 1/2 CC 2/CEL					
Cement Left in Csg.				Displace				42 # FO					
25'				40 BCL									
EQUIPMENT													
Pumptrk		No.		Cementer		Helper		Common					
17				Sing				Poz. Mix					
Bulktrk		No.		Driver		Driver		Gel.					
				Davis									
Bulktrk		No.		Driver		Driver		Calcium					
13				Tony									
JOB SERVICES & REMARKS													
Remarks:								Salt					
Rat Hole								Flowseal					
Mouse Hole								Kol-Seal					
Centralizers								Mud CLR 48					
Baskets								CFL-117 or CD110 CAF 38					
DV or Port Collar								Sand					
8 5/8 on bottom. Est Circulation								Handling					
m x 45000 & Displace								Mileage					
Cement Circulation?								FLOAT EQUIPMENT 8 5/8					
								Guide Shoe					
								Centralizer					
								Baskets					
								AFU Inserts					
								Float Shoe					
								Latch Down Rubber Plug					
								Pumptrk Charge					
								Mileage					
								Tax					
								Discount					
X Signature								Total Charge					
Jay Kruer													



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. 925

Date	8-16-18	Sec.	28	Twp.	20	Range	13	County	Barton	State	Ks	On Location		Finish	1:15 pm
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Lease	Bayer		Well No.	1	Owner	N/Intro
-------	-------	--	----------	---	-------	---------

Contractor	Southwind			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	Longstring			Charge To		
Hole Size	7 7/8"	T.D.	3600'	Main oil operations		

Csg.	5 1/2" 14# New	Depth	3598'	Street		
Tbg. Size		Depth		City		
Tool		Depth		State		

Cement Left in Csg.	25.64'	Shoe Joint	25.64'	The above was done to satisfaction and supervision of owner agent or contractor.		
Meas Line		Displace	87 BCS	Cement Amount Ordered 160 60/40 10% Salt 2% Gel 1/4# Fl ₆ Seal		

EQUIPMENT

Pumptrk	15 No.	Cementer	Brett	Common		
		Helper		Poz. Mix		
Bulktrk	15 No.	Driver	Jack	Gel.		
Bulktrk	p.u. No.	Driver	Rick	Calcium		

JOB SERVICES & REMARKS

Remarks:	Hulls		
Rat Hole	Salt		
Mouse Hole	Flowseal		
Centralizers	Kol-Seal		
Baskets	Mud CLR 48		
D/V or Port Collar	CFL-117 or CD110 CAF 38		
plug Rothole w/ 30sx, Hook to 5 1/2"	Sand		
Casing + mix, 130sx Cement, shut down	Handling		
Wash pump + lines, Displaced plug w/ 87 BCS. Released + held.	Mileage		

FLOAT EQUIPMENT

Lift pressure	700 #	Guide Shoe	
Land plug to	1500 #	Centralizer	9
		Baskets	
		AFU Inserts	
		Float Shoe	1
		Latch Down	1

	Pumptrk Charge	
	Mileage	

	Tax	
	Discount	
X Signature	Total Charge	