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Mai Oil Operations
Fischer #1
NE-NE-NE (330'FNL & 330')FEL
Section 30-21s-12w
Stafford County, Kansas

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5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: March 16, 2017
Completed: March 22, 2017
Elevation: 1869' K.B., 1867' D.F., 1861' G.L.
Casing program: Surface; 8 5/8" @ 658'
Production, 5 1/2" @ 3656'
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 three (3) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Eli Wireline Services, Dual Induction, Compensated Density/Neutron and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	679	+1190
Base Anhydrite	701	+1168
Heebner	3116	-1247
Toronto	3135	-1266
Douglas	3151	-1282
Brown Lime	3246	-1377
Lansing	3260	-1391
Base Kansas City	3279	-1610
Viola	3483	-1614
Simpson Shale	3500	-1631
Arbuckle	3553	-1683
Rotary Total Depth	3660	-1791
Log Total Depth	3659	-1790

(All tops and zones corrected to Electric Log Measurement)

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

TOPEKA SECTION

2843-3115' No shows of oil and/or gas was noted in the drilling of the Topeka Section (see attached Geologist Report/Sample Log)

TORONTO SECTION

3135-3143' Limestone, tan, cream, finely crystalline, poor visible porosity, chalky, light black spotty stain, no shows of oil and no odor in fresh samples.

LANSING SECTION

3260-3270' Limestone, cream, white, finely crystalline, poor visible porosity, no shows.

3276-3283' Limestone, white/cream, tan, scattered pinpoint type porosity, few chalky, trace brown and black stain, trace of free oil and questionable odor in fresh samples.

3293-3303' Limestone, tan, cream, oomoldic, scattered vuggy and oomoldic type porosity, black stain, show of free oil (dead appearing) and faint odor in fresh samples.

3316-3321' Limestone, cream/white, finely crystalline, poor developed pinpoint porosity, trace spotty brown stain.

3328-3333' Limestone, cream, gray, finely crystalline, poor visible porosity, no show of free oil and no odor in fresh samples.

3344-3352' Limestone; white/cream, finely crystalline, scattered visible porosity, trace brown stain, weak show of free oil and faint odor in fresh samples.

3382-3390' Limestone, tan, oomoldic, good oomoldic to vuggy type porosity, brown spotty stain, show of free oil and faint odor.

3400-3408' Limestone, tan, buff, finely crystalline, poor visible porosity, no shows.

3418-3426' Limestone; tan, cream, finely crystalline, poor visible porosity, golden brown stain.

3442-3450' Limestone, white, cream, granular, fossiliferous, poor visible porosity, chalky; no shows.

3463-3470' Limestone, cream, white, finely crystalline, chalky; few oolitic, trace brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 3369-3485

Times: 30-30-30-30

**Blow: Strong; Gas to surface 5 mins.
Gas gauged as follows:**

Initial Flow

	Gas to Surface
5 mins	
10 mins	10,260 cfgpd
20 mins	18,490 cfgpd
30 mins	20,360 cfgpd

Final Flow

10 mins	16,620 cfgpd
22 mins	22,230 cfgpd
30 mins	24,100 cfgpd

**Recovery: 217' oil cut gassy muddy water
(20% gas; 10% oil; 35% water; 35% mud)**

Pressures:

ISIP	736	psi
FSIP	694	psi
IFP	84-103	psi
FFP	102-120	psi
HSH	1666-1643	psi

VIOLA SECTION

3483-3500' Chert, white, opaque, yellow, few orange; poor to fair vuggy type porosity, light brown stain, show of free oil and faint odor in fresh samples.

ARBUCKLE SECTION

3552-3556' Dolomite, tan, brown, oomoldic, fair vuggy to oomoldic porosity, good brown stain and saturation, show free oil and strong odor in fresh samples.

Drill Stem Test #2 3495-3556

Times: 30-30-45-45

Blow: Strong

**Recovery: 1726' gas in pipe
134' mud cut gassy oil
(10% gas; 60% oil; 30% mud)
62' gassy oil
124' oil cut muddy water
(5% oil; 85% water; 10% mud)**

Pressures:

ISIP	1209	psi
FSIP	1209	psi
IFP	38-85	psi
FFP	73-154	psi
HSH	1736-1693	psi

Mai Oil Operations
Fischer #1
NE-NE-NE (330'FNL & 330')FEL
Section 30-21s-12w
Stafford County, Kansas

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3556-3570' Dolomite, tan; brown, finely crystalline, sucrosic; good pinpoint inter-crystalline porosity, good stain and saturation; show of free oil and strong odor in fresh samples.

Drill Stem Test #3 **3564-3570**

Times: 15-15-30-30

Blow: Strong

Recovery: 155' gas in pipe
217' oil cut muddy water
(10% oil; 60%water; 30% mud)

Pressures: ISIP 1244 psi
FSIP 1245 psi
IFP 72-101 psi
FFP 107-111 psi
HSH 1751-1727 psi

3581-3590' Dolomite, white, finely crystalline, sucrosic, fair inter-crystalline to vuggy porosity, trace stain, trace of free oil and strong odor in fresh samples.

35901-3600' Dolomite, white, finely crystalline, poor to fair inter-crystalline porosity, trace brown stain, trace of free oil and strong odor in fresh samples.

3600-3620' Dolomite, tan, medium crystalline, sucrosic, poor to fair inter-crystalline to vuggy type porosity, few dense, trace brown stain, show of free oil and strong odor in fresh samples, plus iron pyrite.

3620-3640' Dolomite, white, cream, poor to fair vuggy to inter-crystalline type porosity, black stain, no free oil and strong odor.

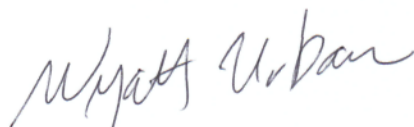
3640-3660' Dolomite, white, finely crystalline, poor inter-crystalline porosity, no stain, no show of oil and strong odor in fresh sample.

Rotary Total Depth 3660 (-1791)
Log Total Depth 3659 (-1790)

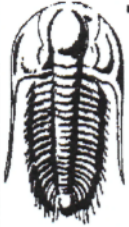
Recommendations:

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

Respectfully yours,



Wyatt Urban
Petroleum Geologist



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc
 8411 Preston Rd Suite 800
 Dallas TX 75225+5520
 ATTN: Wyatt Urban

30-21S-12W Stafford,KS
Fischer #1
 Job Ticket: 64810 **DST#: 1**
 Test Start: 2017.03.20 @ 13:58:00

GENERAL INFORMATION:

Formation: **Lower Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:32:30
 Time Test Ended: 19:20:30

Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72

Interval: **3369.00 ft (KB) To 3485.00 ft (KB) (TVD)**
 Total Depth: 3485.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1869.00 ft (KB)
 1861.00 ft (CF)
 KB to GR/CF: 8.00 ft

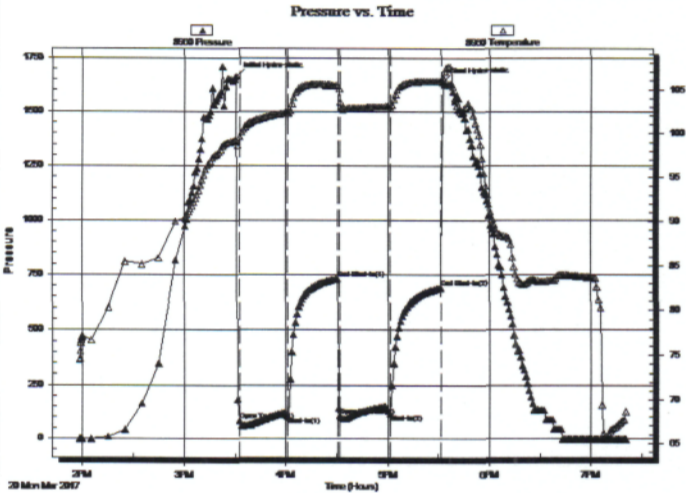
Serial #: 8960

Outside

Press@RunDepth: 690.36 psig @ 3482.20 ft (KB)
 Start Date: 2017.03.20 End Date: 2017.03.20
 Start Time: 13:58:05 End Time: 19:20:29

Capacity: 8000.00 psig
 Last Calib.: 2017.03.20
 Time On Btm: 2017.03.20 @ 15:30:30
 Time Off Btm: 2017.03.20 @ 17:32:30

TEST COMMENT: IFP 30 Minutes BOB in 18 seconds Gas to surface in 5 minutes
 ISI 30 Minutes No blow back
 FFP 30 Minutes Blow at BOB at open
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.53	99.14	Initial Hydro-static
2	83.63	99.60	Open To Flow (1)
31	103.89	102.29	Shut-In(1)
60	731.78	105.40	End Shut-In(1)
62	105.89	103.57	Open To Flow (2)
91	117.37	103.01	Shut-In(2)
121	690.36	105.92	End Shut-In(2)
122	1639.35	106.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
217.00	GOCMW Oil 10% Gas 20% Mud 35% Wa3.04-5%	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	13.00	10.26
Last Gas Rate	0.13	50.00	24.10
Max. Gas Rate	0.13	50.00	24.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc
8411 Preston Rd Suite 800
Dallas TX 75225+5520
ATTN: Wyatt Urban

30-21S-12W Stafford,KS
Fischer #1
Job Ticket: 64810 **DST#: 1**
Test Start: 2017.03.20 @ 13:58:00

Tool Information

Drill Pipe:	Length: 3361.00 ft	Diameter: 3.80 inches	Volume: 47.15 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: 55000.00 lb
			<u>Total Volume: 47.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3369.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	116.20 ft			
Tool Length:	144.20 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3346.00	
Hydraulic tool	5.00			3351.00	
Jars	6.00			3357.00	
Safety Joint	2.00			3359.00	
Top Packer	5.00			3364.00	
Packer	5.00			3369.00	28.00 Bottom Of Top Packer
Anchor	14.00			3383.00	
Change Over Sub	1.00			3384.00	
Drill Pipe	95.20			3479.20	
Change Over Sub	1.00			3480.20	
Recorder	1.00	8648	Inside	3481.20	
Recorder	1.00	8960	Outside	3482.20	
Bullnose	3.00			3485.20	116.20 Anchor Tool

Total Tool Length: 144.20



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DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc
8411 Preston Rd Suite 800
Dallas TX 75225+5520
ATTN: Wyatt Urban

30-21S-12W Stafford,KS
Fischer #1
Job Ticket: 64810 **DST#: 1**
Test Start: 2017.03.20 @ 13:58:00

Mud and Cushion Information

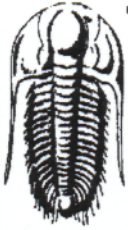
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	26000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
217.00	GOCMV Oil 10% Gas 20% Mud 35% Water	3.044

Total Length: 217.00 ft Total Volume: 3.044 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Recovery Resistivity .280 ohms @ 72 deg



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DRILL STEM TEST REPORT

GAS RATES

Mai Oil Operations Inc
8411 Preston Rd Suite 800
Dallas TX 75225+5520
ATTN: Wyatt Urban

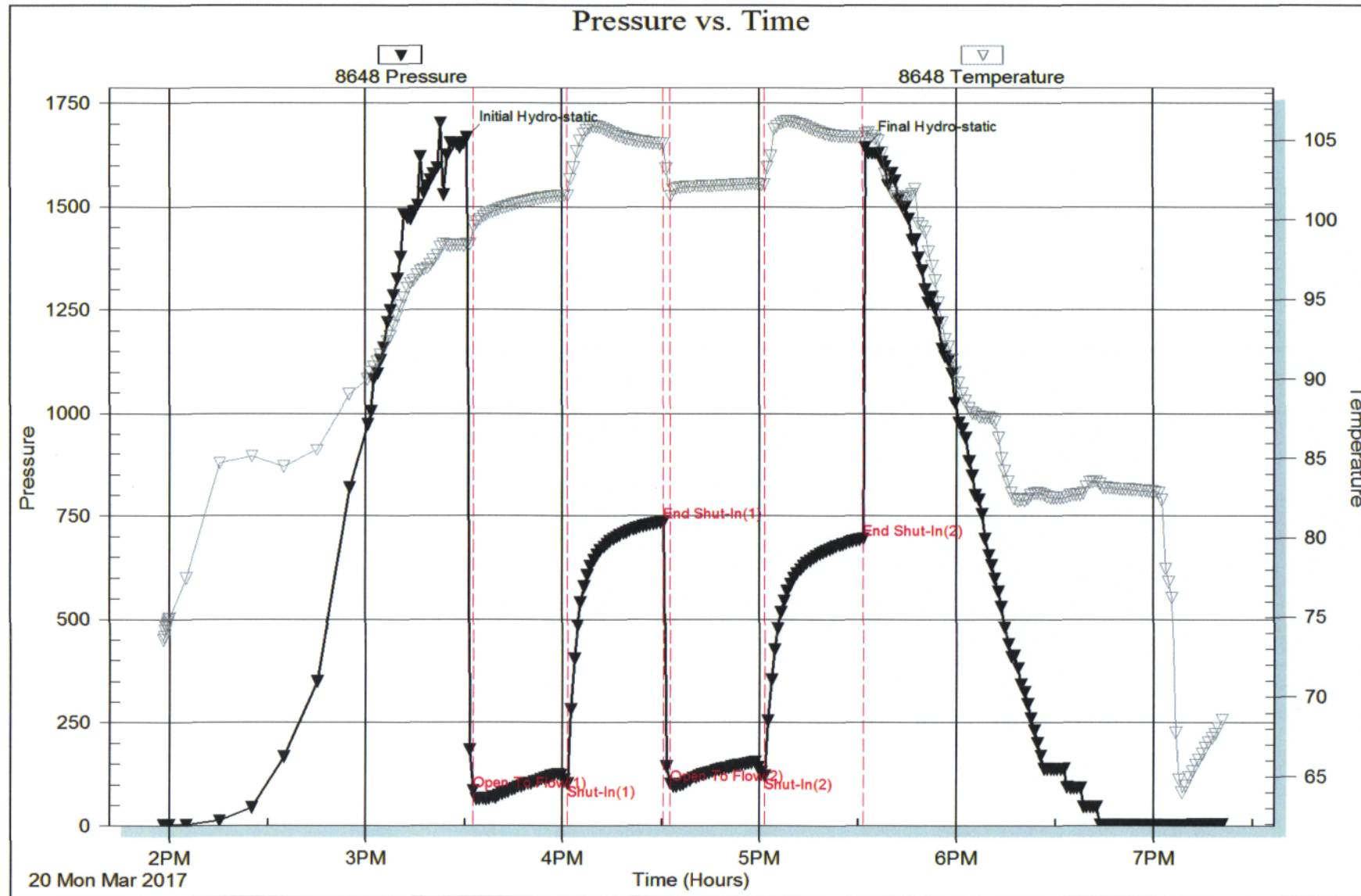
30-21S-12W Stafford,KS
Fischer #1
Job Ticket: 64810 **DST#: 1**
Test Start: 2017.03.20 @ 13:58:00

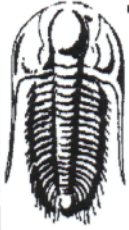
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.13	13.00	10.26
1	20	0.13	35.00	18.49
1	30	0.13	40.00	20.36
2	10	0.13	30.00	16.62
2	20	0.13	45.00	22.23
2	30	0.13	50.00	24.10





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 ATTN: Wyatt Urban

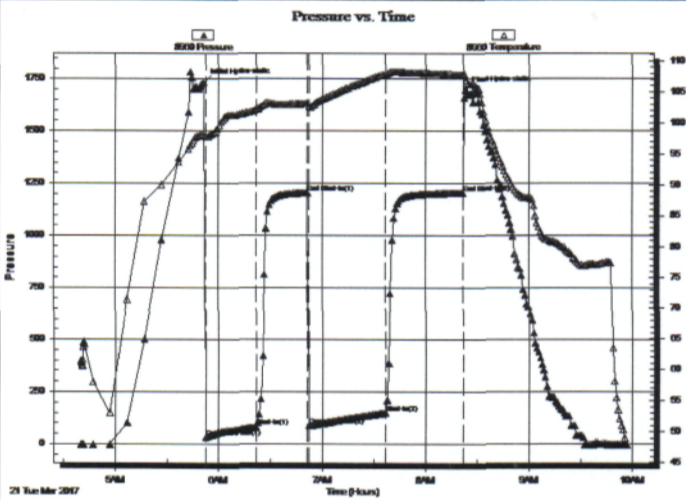
30-21S-12W Stafford,KS
Fischer #1
 Job Ticket: 64811 **DST#: 2**
 Test Start: 2017.03.21 @ 04:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:52:30
 Time Test Ended: 09:57:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Interval: **3495.00 ft (KB) To 3556.00 ft (KB) (TVD)**
 Total Depth: 3556.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1869.00 ft (KB)
 1861.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8960 Outside
 Press@RunDepth: 1205.46 psig @ 3553.25 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.21 End Date: 2017.03.21 Last Calib.: 2017.03.21
 Start Time: 04:40:05 End Time: 09:56:59 Time On Btm: 2017.03.21 @ 05:51:30
 Time Off Btm: 2017.03.21 @ 08:23:00

TEST COMMENT: IFP 30 Minutes BOB in 2 minutes
 ISI 30 Minutes Blow back built to 3"
 FFP 30 Minutes BOB in 5 1/2 minutes
 FSI 30 Minutes Blow back built to BOB



PRESSURE SUMMARY

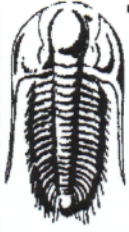
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.98	98.12	Initial Hydro-static
1	32.81	97.76	Open To Flow (1)
30	81.72	102.10	Shut-In(1)
60	1205.76	103.05	End Shut-In(1)
61	89.26	102.68	Open To Flow (2)
105	150.53	107.88	Shut-In(2)
151	1205.46	107.76	End Shut-In(2)
152	1694.56	107.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCMW Oil 5% Mud 10% Water 85%	1.74
62.00	EOG Emulsified Oil 30% Gas 70%	0.87
134.00	GMCO Gas 10% Mud 30% Oil 60%	1.88
0.00	1726' 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 Suite 800
Dallas TX 75225+5520
ATTN: Wyatt Urban

30-21S-12W Stafford,KS
Fischer #1
Job Ticket: 64811 **DST#: 2**
Test Start: 2017.03.21 @ 04:40:00

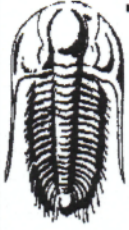
Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 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: 44000.00 lb
			<u>Total Volume: 48.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3495.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.25 ft			
Tool Length:	89.25 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3472.00	
Hydraulic tool	5.00			3477.00	
Jars	6.00			3483.00	
Safety Joint	2.00			3485.00	
Top Packer	5.00			3490.00	
Packer	5.00			3495.00	28.00 Bottom Of Top Packer
Anchor	23.00			3518.00	
Change Over Sub	1.00			3519.00	
Drill Pipe	31.25			3550.25	
Change Over Sub	1.00			3551.25	
Recorder	1.00	8648	Inside	3552.25	
Recorder	1.00	8960	Outside	3553.25	
Bullnose	3.00			3556.25	61.25 Anchor Tool

Total Tool Length: 89.25



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DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

30-21S-12W Stafford,KS

8411 Preston Rd Suite 800
Dallas TX 75225+5520

Fischer #1

Job Ticket: 64811

DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.03.21 @ 04:40:00

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:

22000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	SOCMW Oil 5% Mud 10% Water 85%	1.739
62.00	EOG Emulsified Oil 30% Gas 70%	0.870
134.00	GMCO Gas 10% Mud 30% Oil 60%	1.880
0.00	1726' GIP	0.000

Total Length: 320.00 ft Total Volume: 4.489 bbl

Num Fluid Samples: 0

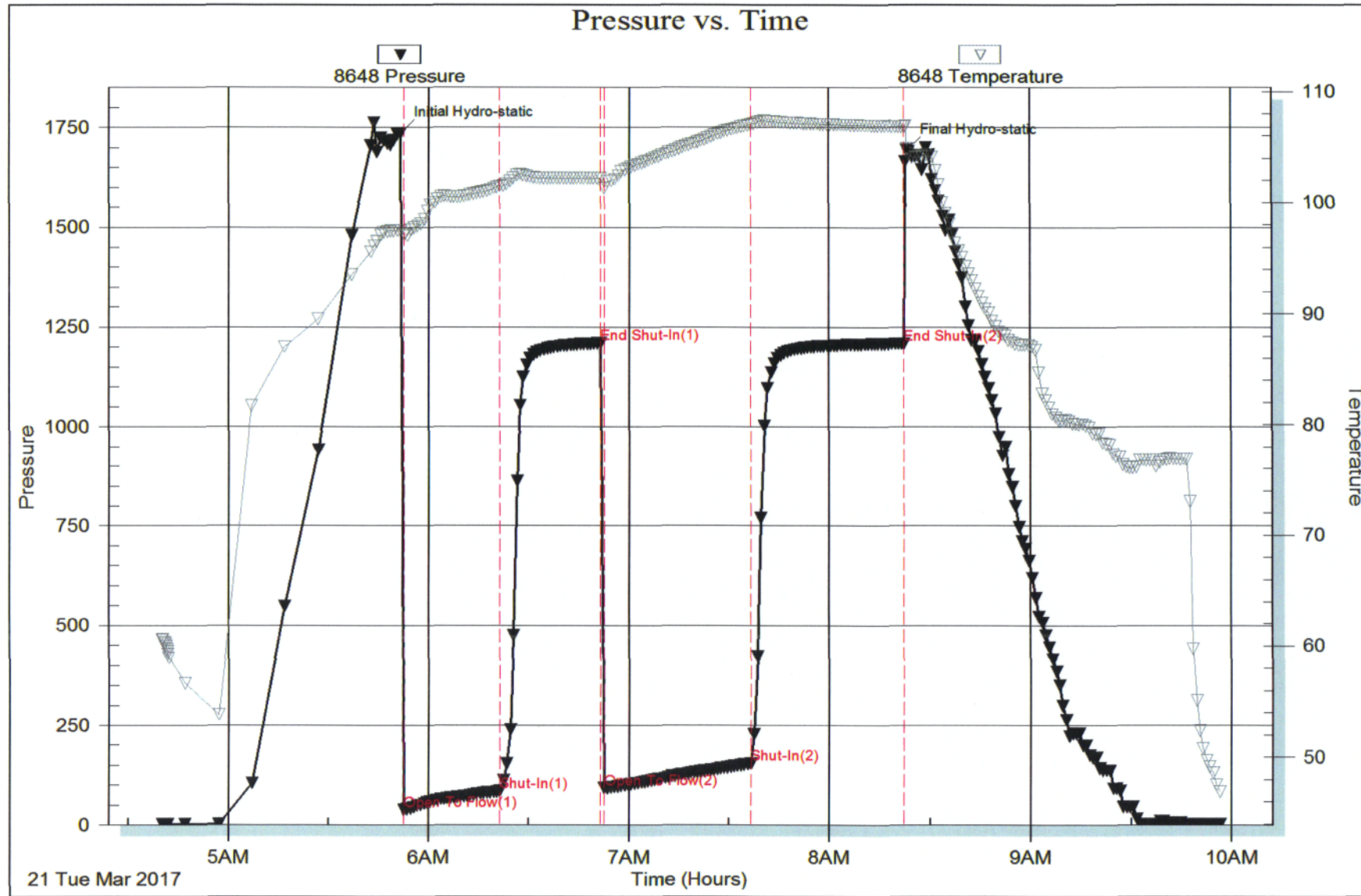
Num Gas Bombs: 0

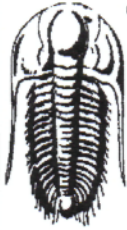
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .38 ohms @ 54 deg





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DRILL STEM TEST REPORT

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 ATTN: Wyatt Urban

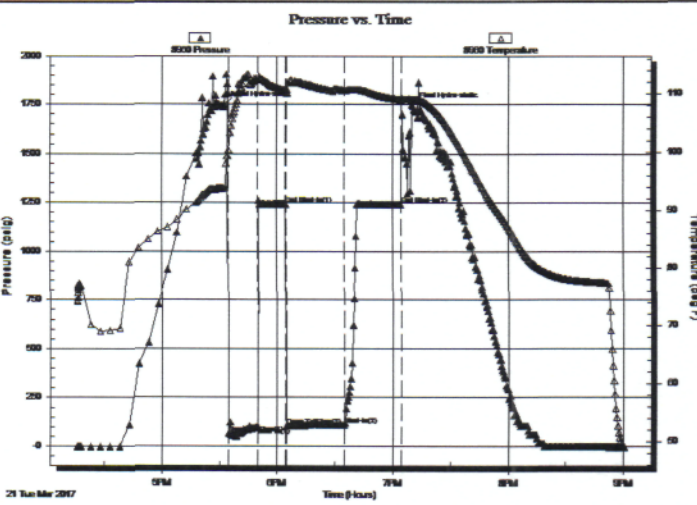
30-21S-12W Stafford,KS
Fischer #1
 Job Ticket: 64812 **DST#: 3**
 Test Start: 2017.03.21 @ 16:16:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:35:00
 Time Test Ended: 21:00:00
 Interval: **3564.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 1869.00 ft (KB)
 1861.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8960 **Outside**
 Press@RunDepth: 1241.93 psig @ 3567.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.21 End Date: 2017.03.21 Last Calib.: 2017.03.21
 Start Time: 16:16:05 End Time: 20:59:59 Time On Btm: 2017.03.21 @ 17:32:30
 Time Off Btm: 2017.03.21 @ 19:10:30

TEST COMMENT: IFP 15 Minutes BOB in 4 1/2 minutes w ith surging
 ISI 15 Minutes Light surface blow back
 FFP 30 Minutes Blow built to 3" in 10 minutes then occasional surge throughout
 FSI 30 Minutes Light surface blow back



PRESSURE SUMMARY

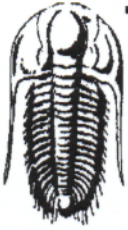
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.81	93.84	Initial Hydro-static
3	67.05	100.35	Open To Flow (1)
18	99.44	112.55	Shut-In(1)
32	1243.65	110.67	End Shut-In(1)
33	104.54	110.10	Open To Flow (2)
63	107.85	110.52	Shut-In(2)
92	1241.93	108.93	End Shut-In(2)
98	1739.94	109.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
217.00	OCMW Oil 10% Mud 30% Water 60%	3.04
0.00	155' 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 Suite 800
Dallas TX 75225+5520
ATTN: Wyatt Urban

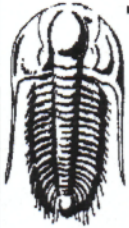
30-21S-12W Stafford,KS
Fischer #1
Job Ticket: 64812 **DST#: 3**
Test Start: 2017.03.21 @ 16:16:00

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 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:	85000.00 lb
			<u>Total Volume: 49.83 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3564.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3542.00	
Hydraulic tool	5.00			3547.00	
Jars	5.00			3552.00	
Safety Joint	2.00			3554.00	
Top Packer	5.00			3559.00	
Packer	5.00			3564.00	27.00 Bottom Of Top Packer
Anchor	1.00			3565.00	
Recorder	1.00	8648	Inside	3566.00	
Recorder	1.00	8960	Outside	3567.00	
Bullnose	3.00			3570.00	6.00 Anchor Tool
Total Tool Length:	33.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc
8411 Preston Rd Suite 800
Dallas TX 75225+5520
ATTN: Wyatt Urban

30-21S-12W Stafford,KS
Fischer #1
Job Ticket: 64812 **DST#: 3**
Test Start: 2017.03.21 @ 16:16:00

Mud and Cushion Information

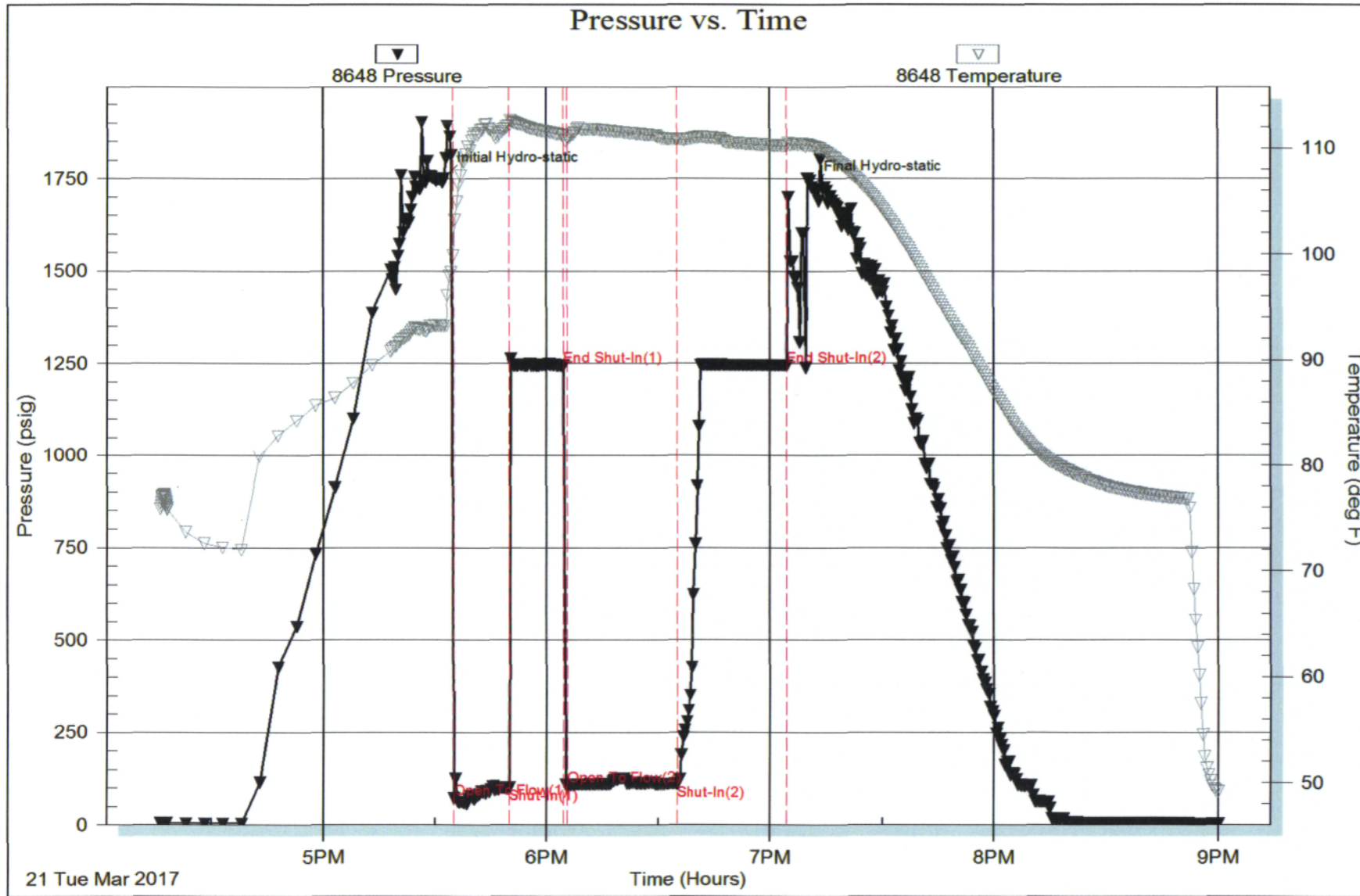
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	25000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
217.00	OCMV Oil 10% Mud 30% Water 60%	3.044
0.00	155' GIP	0.000

Total Length: 217.00 ft Total Volume: 3.044 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Recovery Resistivity .343 ohms @ 53 deg



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. 1682

Date	3-22-17	Sec.	30	Twp.	21	Range	12	County	Stafford	State	Ks	On Location		Finish	5:15 PM		
Lease								Fischer		Well No.		1					
Contractor								Southwind		3		Owner					
Type Job								Longstring				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.					
Hole Size								7 7/8"		T.D.		3660'		Charge To		Main oil operations	
Csg.								5 1/2" 144# New		Depth		3656'		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.								20.85'		Shoe Joint		20.85'		Cement Amount Ordered			
Meas Line										Displace		88 1/2 BCS		New gel mud OK 45			
EQUIPMENT												Common					
Pumptrk								16		No. Cementer				Poz. Mix			
										Helper		Trevin					
Bulktrk								3		No. Driver				Gel.			
										Driver		Dug					
Bulktrk								P.U.		No. Driver				Calcium			
										Driver		Rick					
JOB SERVICES & REMARKS												Hulls					
Remarks:												Salt					
Rat Hole												Flowseal					
Mouse Hole												Kol-Seal					
Centralizers								1-10				Mud CLR 48					
Baskets								pipe on bottom break circulation				CFL-117 or CD110 CAF 38					
D/V or Port Collar								plum'd 1000 gal mud clean				Sand					
48 plug								Rat hole set 25' cement 5%				Handling					
Casing								set 1500 gal cement 5%				Mileage					
1000 gal								mud clean				FLOAT EQUIPMENT					
+ Displaced								w/ 88 1/2 BCS				Guide Shoe					
Released + held												Centralizer					
												10					
												Baskets					
												AFU Inserts					
												Float Shoe					
												Latch Down					
												Pumptrk Charge					
												Mileage					
												Tax					
												Discount					
												Total Charge					
X Signature								Kend									