



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

Biggs #2

8411 Preston Road
Suite 800
Dallas, TX. 75225
ATTN: Kitt Noah

21-17s-15w-Barton, KS

Job Ticket: 39032 DST#: 1

Test Start: 2010.08.14 @ 12:59:17

GENERAL INFORMATION:

Formation: LKC-"B"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:31:45
Time Test Ended: 17:40:45

Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 32

Interval: 3309.00 ft (KB) To 3328.00 ft (KB) (TVD)
Total Depth: 3328.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2025.00 ft (KB)
2017.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6755

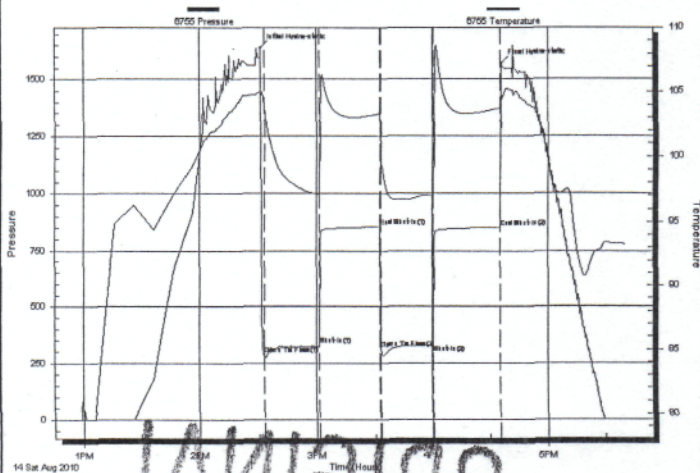
Inside

Press@RunDepth: 329.11 psig @ 3310.00 ft (KB)
Start Date: 2010.08.14 End Date: 2010.08.14
Start Time: 12:59:17 End Time: 17:40:45

Capacity: 8000.00 psig
Last Calib.: 2010.08.14
Time On Btm: 2010.08.14 @ 14:31:15
Time Off Btm: 2010.08.14 @ 16:36:00

TEST COMMENT: IFP-Strong, BOB on Open, Gas To Surface in 2 Min., Gauging Gas
ISI-Dead
FFP-Strong, BOB in 2 Min., Gauging Gas
FSI-Blow back Built to 1"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.09	105.02	Initial Hydro-static
2	286.54	103.86	Open To Flow (1)
31	329.11	97.14	Shut-In(1)
62	854.94	103.28	End Shut-In(1)
62	314.29	99.11	Open To Flow (2)
90	329.29	96.92	Shut-In(2)
124	851.95	103.72	End Shut-In(2)
125	1568.94	104.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Watery Mud-20%W-80%M	1.12

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	95.00	1708.81
Last Gas Rate	0.75	100.00	1786.91
Max. Gas Rate	0.75	100.00	1786.91



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8411 Preston Road
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Dallas, TX. 75225
ATTN: Kitt Noah

Biggs #2

21-17s-15w-Barton, KS

Job Ticket: 39033

DST#: 2

Test Start: 2010.08.15 @ 03:10:58

GENERAL INFORMATION:

Formation: LKC-"E-F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:49:13

Time Test Ended: 09:27:28

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3361.00 ft (KB) To 3392.00 ft (KB) (TVD)

Total Depth: 3392.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2025.00 ft (KB)

2017.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 33.56 psig @ 3364.00 ft (KB)

Start Date: 2010.08.15

End Date:

2010.08.15

Start Time: 03:11:00

End Time:

09:27:28

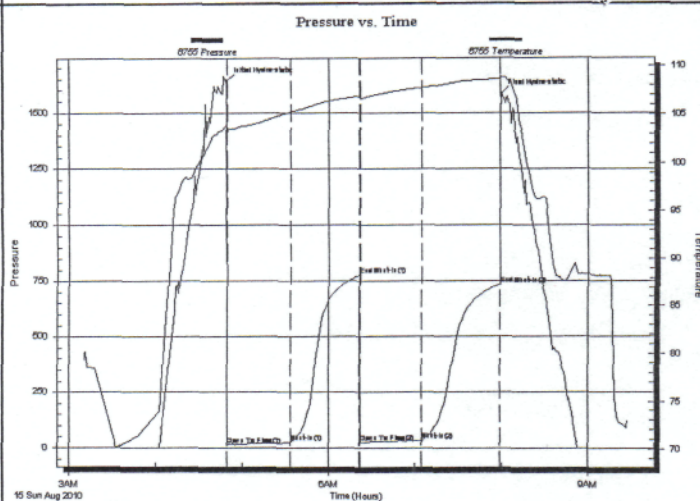
Capacity: 8000.00 psig

Last Calib.: 2010.08.15

Time On Btm: 2010.08.15 @ 04:48:58

Time Off Btm: 2010.08.15 @ 07:59:43

TEST COMMENT: IFP-Fair Blow ,Built to 8"
ISI-Dead
FFP-Fair Blow ,Built to 6"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.38	103.85	Initial Hydro-static
1	13.77	102.91	Open To Flow (1)
45	25.06	105.22	Shut-In(1)
93	777.20	106.85	End Shut-In(1)
93	25.35	106.58	Open To Flow (2)
136	33.56	107.77	Shut-In(2)
190	735.90	108.64	End Shut-In(2)
191	1582.47	108.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	VSOCWM-5%O-20%W-75%M	0.70
0.00	70' Gas In Pipe	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

Biggs #2

8411 Preston Road
Suite 800
Dallas, TX. 75225
ATTN: Kitt Noah

21-17s-15w-Barton, KS

Job Ticket: 39034

DST#: 3

Test Start: 2010.08.15 @ 21:57:04

GENERAL INFORMATION:

Formation: LKC-"H-J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:46:19

Time Test Ended: 02:23:34

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3436.00 ft (KB) To 3492.00 ft (KB) (TVD)

Reference Elevations: 2025.00 ft (KB)

Total Depth: 3492.00 ft (KB) (TVD)

2017.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 15.02 psig @ 3471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.15

End Date:

2010.08.16

Last Calib.:

2010.08.16

Start Time: 21:57:06

End Time:

02:23:34

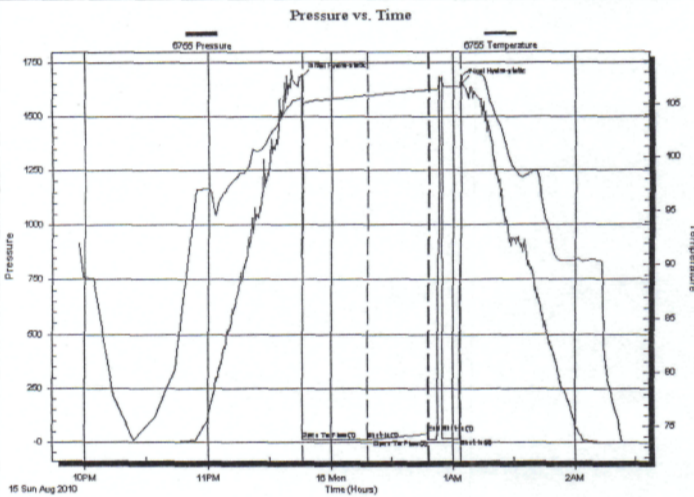
Time On Btm:

2010.08.15 @ 23:45:49

Time Off Btm:

2010.08.16 @ 01:04:04

TEST COMMENT: IFP-Surface Blow ,Died in 14 Min.
ISI-Dead
Dead,Flush Tool,Still Dead,Pull Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.45	105.61	Initial Hydro-static
1	13.06	104.83	Open To Flow (1)
33	15.02	105.80	Shut-In(1)
62	42.80	106.33	End Shut-In(1)
63	14.38	106.31	Open To Flow (2)
78	16.91	106.63	Shut-In(2)
79	1656.32	107.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.14

Gas Rates

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

Rock Samples Included

MAI OIL OPERATIONS, INC.

Geological Report

Biggs #2
105'S & 145'E NW NE SE SW
Section 21-17S-15W
Barton County, Kansas

Kitt Noah
Petroleum Geologist
551 W. Ness . Valley Center, Kansas . 67147
316.755.0058
Kansas Licensed Geologist #229

Biggs #2 Summary

OPERATOR: Mai Oil Operations, Inc.

WELL: Biggs #2

LOCATION: 105'S & 145'E NW NE SE SW
(1000'FS & 2240'FW)
Section 21-17S-15W
Barton County, Kansas
API #15-009-25,455

FIELD: Wildcat

CONTRACTOR: Southwind Drilling Company – Rig #3

DRILLING COMMENCED: August 9, 2010

DRILLING COMPLETED: August 17, 2010

DRILLING TIME: One (1) foot drilling time was recorded from 1000' to 1100' and 2950' to TD.

SAMPLES: Samples were saved and examined from 2950' to TD.

ELEVATION: 2017 Ground Level 2025 Kelly Bushing

MEASUREMENTS: All depths measured from **2025 KB**

CASING RECORD: 8 5/8" Surface set @ 1060' with 350 sxs. 60/40 poz
5 1/2" Production set @ 3653' with 160 sxs.

FORMATION TESTING: Trilobite Testing Co., Inc. - Hays
Jason McLemore, Tester

MUD: Mudco/Service Mud Co., Inc. – chemical mud
Mud Up Depth: 2900'
Rick Hughes/Gary Schmidtberger, Mud Engineer

OPEN HOLE LOGS: Superior Wireline Services: CDNL, DIL, Micro
Jeff Groneweg, Logging Engineer

TOTAL DEPTH: RTD 3660 LTD 3660

PRODUCTION: Saltwater Disposal Well

Biggs #2 Drilling Report

Mai Oil Operations, Inc.

KB: 2025

Biggs #2

GL: 2017

105'S & 145'E NW NE SE SW

(1000'FS & 2240'FW)

Section 21-17S-15W

Barton County, Kansas

#15-009-25,455

GALATIA SOUTH PROJECT

Reference Well A: Mai Biggs #1 App NW NW SE SW Section 21-17S-15W

Reference Well B: Mai Gerard Axman #1 App SE NW NW NW Section 28-17S-15W

All depths corrected to log measurements.

<u>SAMPLE TOPS</u>				<u>ELECTRIC LOG TOPS</u>			
		<u>A:</u>	<u>B:</u>			<u>A:</u>	<u>B:</u>
Anhydrite	1056 (+969)	flat	+2	Anhydrite	1056 (+969)	flat	+2
B/Anhydrite	1078 (+947)	+4	+7	B/Anhydrite	1077 (+948)	+5	+8
Topeka	3007 (-982)	-1	+14	Topeka	3006 (-981)	flat	+15
Heebner	3241 (-1216)	-1	+16	Heebner	3240 (-1215)	flat	+17
Toronto	3252 (-1227)	flat	+20	Toronto	3252 (-1227)	flat	+20
Lansing	3299 (-1274)	-2	+16	Lansing	3299 (-1274)	-2	+16
Mun Creek	3440 (-1415)	-2	+15	Mun Creek	3441 (-1416)	-3	+14
B/KC	3538 (-1513)	-3	+13	B/KC	3538 (-1513)	-3	+13
Arbuckle	3598 (-1573)	-37	-28	Arbuckle	3598 (-1573)	-37	-28
RTD	3660 (-1635)			LTD	3660 (-1635)		

Sample Shows and Drill Stem Tests:

Plattsmouth 50' zn:

Circulate 3195'

Limestone, cream-gray; fossiliferous; isolated vugular porosity; slightly dolomitic; 3-4 pieces dark brown saturated stain – appears tite in dry sample; fair show of free oil – possible show of gas on break; slight questionable odor.

Toronto:

Circulate 3270'

Limestone, cream; fossiliferous and oolitic; poor to fair interparticle porosity; medium to dark brown spotty stain; 1 rare piece saturated stain; slight show of free oil; slight odor.

Lansing "A":

Limestone, cream; slightly fossiliferous; poor interparticle porosity – predominantly dense; few pieces light brown spotty edge stain; very slight show of free oil; no odor.

Lansing "B":

Circulate 3328'

DST #1

Limestone, cream; fossiliferous and oolitic; some suboolitic; pelletoid; fair interparticle porosity; light golden brown subsaturated stain; slight show of free oil – some gas on break; slight odor. *Odor increasing in 40" circulation sample: fair gassy odor...*

DST #1:

Trilobite Testing Co., Inc. - Hays

Lansing "B"

Jason McLemore; Tester

3309-3328

1st Op: BOB Immediately; GTS in 2"; Gas Sample Taken

Ga 1,786.91 MCFD/100psi/3/4" orifice

No Blowback

2nd Op: BOB 2"

Ga 1,786.91 MCFD/100psi/3/4" orifice

1" Blowback

Rec:

GTS

75' WM (20%W, 80%M)

IFP: 329-374#/30"

ISIP: 855#/30"

FFP: 314-329#/30"

FSIP: 852#/30"

Pipe Strap at 3328': .11 Board Long

Lansing "C":

Circulate 3345'

Limestone, cream-tan; very oolitic; dolomitic; fair oolitic porosity; light brown isolated spotty stain –oolitic porosity predominantly barren; very slight show of free oil; fair gassy odor.

Lansing "Upr F":

DST #2

Limestone, tan; fossiliferous; very oolitic; pelletoid; poor interparticle porosity; mealy and subchalky; medium to dark brown subsaturated stain; slight show of free oil; slight to fair odor.

Lansing "Lwr F":

Circulate 3392'

DST #2

Limestone, cream; fossiliferous and oolitic; dolomitic; poor to fair interparticle and pinpoint porosity; medium to dark brown saturated stain; slight to fair show of free oil; fair gassy odor; scattered pieces white chert.

DST #2:

Trilobite Testing Co., Inc. - Hays

Lansing "E-F"

Jason McLemore; Tester

3361-3392

1st Op: Fair Bldg 8"

No Blowback
2nd Op: Fair Bldg 6”

No Blowback

Rec:

70’ GIP

50’ VSOCWM (5%O,20%W, 75%M)

IFP: 14-25#/45”

ISIP: 777#/45”

FFP: 25-34#/45”

FSIP: 736#/45”

Lansing “G”:

Circulate 3402’

Limestone, white; fossiliferous and oolitic; dolomitic; poor to fair oolitic porosity; scattered pieces with medium brown spotty to subsaturated stain; good show of free oil; fair gassy odor; abundant pieces barren oolitic porosity in 40” and 60” circulation sample.

Lansing “H”:

Circulate 3456’

DST #3

Limestone, cream; fossiliferous and slightly oolitic; poor to scattered fair interparticle porosity; few pieces very light brown spotty stain; very slight show of free oil; slight to fair gassy odor.

Lansing “I”:

Circulate 3475’

DST #3

Limestone, cream; very oolitic; poor to fair interparticle porosity; very dark heavy asphaltic subsaturated stain – appears chalky in dry; heavy tar on break; fair to good gassy odor.

Lansing “J”:

Circulate 3492’

DST #3

Limestone, cream; few scattered pieces oolitic porosity; poor interparticle porosity; very dark brown subsaturated to saturated stain; slight show of free oil; slight odor.

DST #3:

Trilobite Testing Co., Inc. - Hays

Lansing “H-J”

Jason McLemore; Tester

3436-3492

1st Op: Weak Surface; Died 14”

No Blowback

2nd Op: Dead; Flush Tool; No Help; Pulled Test

Rec:

10’ Mud

IFP: 13-15#/30”

ISIP: 43#/30”

FFP: 14-17#/10”

FSIP: Not Taken

Lansing "K":

Limestone, cream; very oolitic; isolated vugular porosity; poor interparticle porosity; 1-2 pieces very light brown spotty stain; very slight show of free oil; no odor.

No shows in Arbuckle...barren and pyritic.

5 ½" production casing will be run for completion as saltwater disposal well...

FINAL REPORT

Respectfully submitted,

Kitt Noah
Petroleum Geologist



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.#. 20-2886107

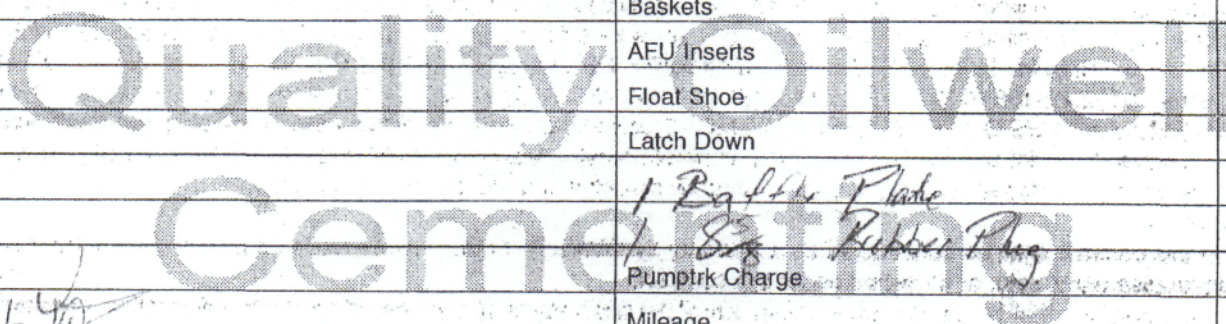
Phone 785-483-2025
Cell 785-324-1041

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

No. 4181

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-10-10	21	17	15	Barton	Kansas		5:00 PM
Lease <i>Biggs</i>	Well No. <i>2</i>		Location <i>Contia 2W 5S 3E N1W</i>				
Contractor <i>Southwind Drilling Rig 3</i>	Owner			To Quality Oilwell Cementing, Inc.			
Type Job <i>Surface</i>	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 <i>12 1/4</i>	T.D. <i>1060</i>		Charge To <i>Man Oil Operations</i>				
Csg. <i>88 23 1/2</i>	Depth <i>1060</i>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg.	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <i>64 3/4</i>		Cement Amount Ordered <i>350 60/40 32CC 2 1/2 gal</i>				
EQUIPMENT							
Pumptrk <i>1</i>	No.	Cementor	Common				
		Helper <i>Steve</i>					
Bulktrk <i>10</i>	No.	Driver	Poz: Mix				
		Driver <i>Brandon</i>					
Bulktrk	No.	Driver	Gel.				
		Driver <i>Ricky</i>					
JOB SERVICES & REMARKS							
Remarks:			Calcium				
Rat Hole			Hulls				
Mouse Hole			Salt				
Centralizers			Flowseal				
Baskets			Kol-Seal				
D/V or Port Collar			Mud CLR 48				
			CFL-117 or CD110 CAF 38				
			Sand				
			Handling				
			Mileage				
			FLOAT EQUIPMENT				
			Guide Shoe				
			Centralizer				
			Baskets				
			AFU Inserts				
			Float Shoe				
			Latch Down				
			<i>1 Baller Plate</i>				
			<i>1 8" Rubber Plug</i>				
			Pumptrk Charge				
			Mileage				
			Tax				
			Discount				
			Total Charge				
X Signature <i>[Signature]</i>							

Cement did Circulate



Mike [Signature]
[Signature]

ALLIED CEMENTING CO., LLC. 041859

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

DATE <u>8-17-10</u>	SEC. <u>21</u>	TWP. <u>17</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00am</u>	JOB FINISH <u>8:45am</u>
LEASE <u>Biggs</u>	WELL# <u>2</u>		LOCATION <u>Galatia 2 West to Rd 120</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>South 130th Rd 1/2 East North into</u>				

CONTRACTOR Southwind Drilling Rig #3
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 T.D. 3660'
 CASING SIZE 86jts 5 1/2 14# DEPTH 3653'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 21.30'
 CEMENT LEFT IN CSG. 21.30
 PERFS. Insert @ 3631.7'
 DISPLACEMENT 88.6 Bbl

EQUIPMENT

PUMP TRUCK CEMENTER Jahn Roberts
 # 398 HELPER Richard TWS
 BULK TRUCK
 # 410 DRIVER Daniel TWS
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Ran 86jts 5 1/2 14# casing 3653' insert
@ 3631.7' Plug ratihole w/ 30 sks cement
Pump 1000 gal WFR-2 Mix 130 sk cement
displace plug w/ 88 Bbl H₂O.
Land plug @ 1600psi
Float Did Hold.
Thanks!

CHARGE TO: Ma Oil Operations
 STREET _____
 CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment

OWNER _____
 CEMENT
 AMOUNT ORDERED 160 60/40 10% Salt 2% Gel 4% FI
1000 WFR-2
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____
 TOTAL _____

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 MANIFOLD _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

5 1/2 PLUG & FLOAT EQUIPMENT

AFU Float Shoe @ _____
Latch down Plug @ _____
9-Turbolizers @ _____
 _____ @ _____