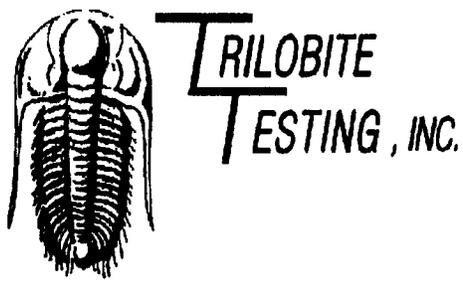


Jud



DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum, Inc.**
525 S. Main
Kingman, KS 67068

ATTN: John Messenger

19 29S 6W Kingman KS

JIM #1-19

Start Date: 2009.07.29 @ 22:55:00
End Date: 2009.07.30 @ 08:23:49
Job Ticket #: 35097 DST #: 1

15-095-22193

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Messenger Petroleum, Inc.

JIM #1-19

19 29S 6W Kingman KS

DST # 1

Mississippian

2009.07.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

Job Ticket: 35097

DST#: 1

ATTN: John Messenger

Test Start: 2009.07.29 @ 22:55:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:34:10

Time Test Ended: 08:23:49

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4150.00 ft (KB) To 4160.00 ft (KB) (TVD)**

Total Depth: 4160.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1560.00 ft (KB)

1552.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352 Inside

Press@RunDepth: 113.43 psig @ 4151.00 ft (KB)

Start Date: 2009.07.29

End Date:

2009.07.30

Capacity: 7000.00 psig

Last Calib.: 2009.07.30

Start Time: 22:55:02

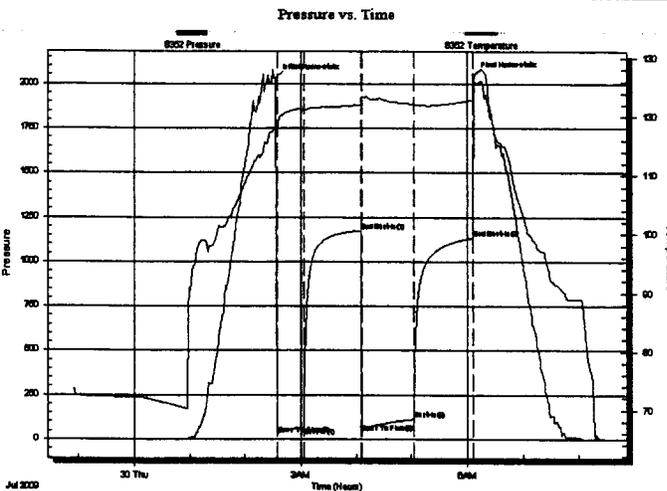
End Time:

08:23:49

Time On Btm: 2009.07.30 @ 02:33:10

Time Off Btm: 2009.07.30 @ 06:07:00

TEST COMMENT: IF: Strong blow, BOB 10 seconds. GTS 30 minutes.
IS: Bled off, no blow back.
FF: Strong blow, BOB immediately.
FS: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.58	118.19	Initial Hydro-static
1	27.55	118.06	Open To Flow (1)
30	67.57	121.27	Shut-in(1)
92	1174.30	122.07	End Shut-in(1)
94	40.70	123.34	Open To Flow (2)
150	113.43	122.24	Shut-in(2)
213	1132.58	122.90	End Shut-in(2)
214	2049.50	126.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSWCM 2%o 12%w 86%o	0.32
65.00	OSWCM 2%o 20%w 78%o	0.32
65.00	OSMCW 2%o 10%o 88%w	0.32

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	15.00	46.64
Last Gas Rate	0.25	48.00	98.99
Max. Gas Rate	0.25	48.00	98.99



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

Job Ticket: 35097

DST#: 1

ATTN: John Messenger

Test Start: 2009.07.29 @ 22:55:00

Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 220.00 ft	Diameter: 2.25 inches	Volume: 1.08 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4150.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	30.00 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			4135.00	
Hydraulic tool	5.00			4140.00	
Packer	5.00			4145.00	20.00 Bottom Of Top Packer
Packer	5.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	8352	inside	4151.00	
Recorder	0.00	6799	inside	4151.00	
Perforations	4.00			4155.00	
Bullnose	5.00			4160.00	10.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

Job Ticket: 35097

DST#: 1

ATTN: John Messenger

Test Start: 2009.07.29 @ 22:55:00

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:

29000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OSWCM 2%o 12%w 86% <i>m</i>	0.320
65.00	OSWCM 2%o 20%w 78% <i>m</i>	0.320
65.00	OSMCW 2%o 10% <i>m</i> 88% <i>w</i>	0.320

Total Length: 195.00 ft Total Volume: 0.960 bbl

Num Fluid Samples: 1

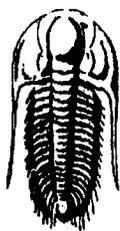
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW=.26ohm@64degF=29000ppmChl



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

ATTN: John Messenger

Job Ticket: 35097

DST#: 1

Test Start: 2009.07.29 @ 22:55:00

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.25	15.00	46.64
2	5	0.25	15.00	46.64
2	10	0.25	20.00	54.57
2	15	0.25	23.00	59.33
2	20	0.25	27.00	65.68
2	25	0.25	31.00	72.02
2	30	0.25	34.00	76.78
2	35	0.25	38.00	83.13
2	40	0.25	41.00	87.89
2	45	0.25	44.00	92.65
2	50	0.25	46.00	95.82
2	55	0.25	48.00	98.99

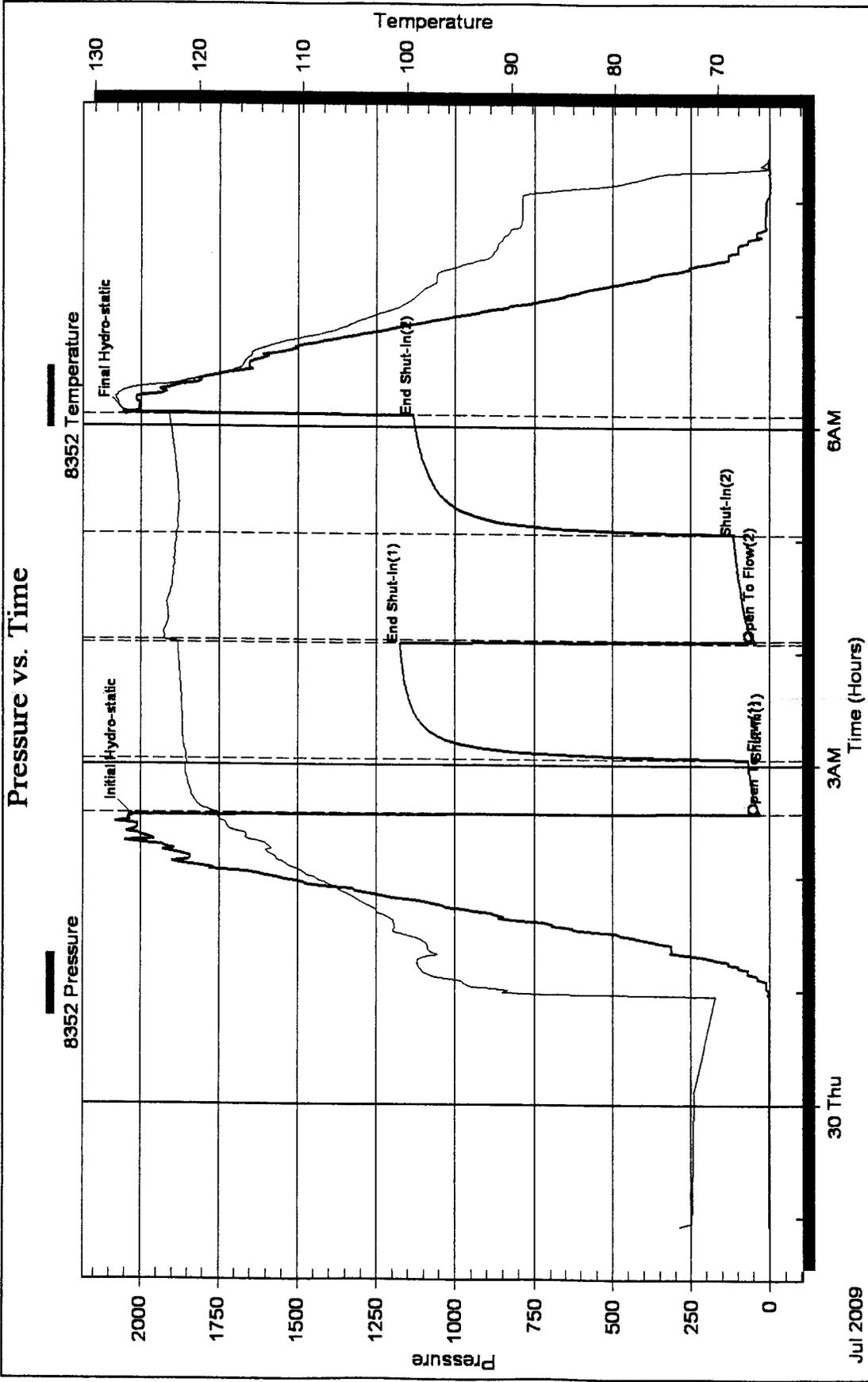
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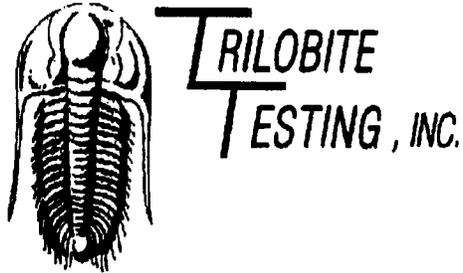
Inside

Messenger Petroleum, Inc.

19 29S 6W Kingman KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum, Inc.**

525 S. Main
Kingman, KS 67068

ATTN: John Messenger

19 29S 6W Kingman KS

JIM #1-19

Start Date: 2009.07.30 @ 15:35:00

End Date: 2009.07.31 @ 00:10:49

Job Ticket #: 35098 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Messenger Petroleum, Inc.

JIM #1-19

19 29S 6W Kingman KS

DST # 2

Mississippian

2009.07.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

Job Ticket: 35098

DST#: 2

ATTN: John Messenger

Test Start: 2009.07.30 @ 15:35:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:36:30

Time Test Ended: 00:10:49

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4160.00 ft (KB) To 4178.00 ft (KB) (TVD)**

Reference Elevations: 1560.00 ft (KB)

Total Depth: 4178.00 ft (KB) (TVD)

1552.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8352 Inside

Press@RunDepth: 142.04 psig @ 4161.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.07.30

End Date:

2009.07.31

Last Calib.: 2009.07.31

Start Time: 15:35:02

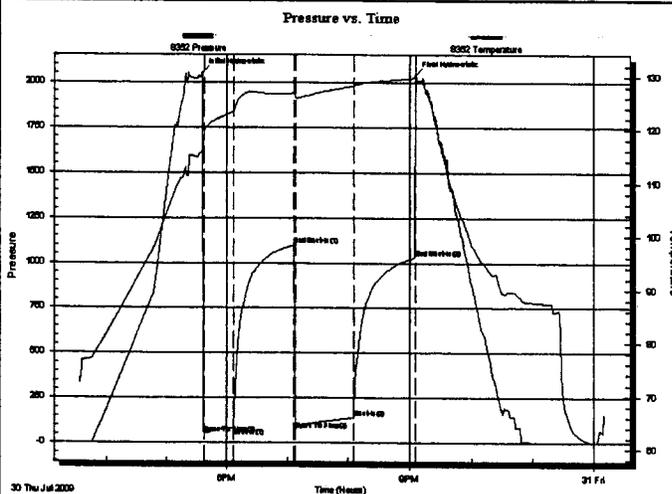
End Time:

00:10:49

Time On Btrr: 2009.07.30 @ 17:35:10

Time Off Btrr: 2009.07.30 @ 21:05:39

TEST COMMENT: IF: Strong blow, BOB 25 seconds.
IS: Bled off, GTS while bleeding off, no blow back.
FF: Strong blow, BOB immediately, gauge gas.
FS: Bled off, blowback built to 9" in bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.01	116.06	Initial Hydro-static
2	50.97	119.49	Open To Flow (1)
31	83.95	123.31	Shut-In (1)
92	1096.93	126.79	End Shut-In (1)
93	72.59	125.96	Open To Flow (2)
151	142.04	128.17	Shut-In (2)
210	1029.70	129.68	End Shut-In (2)
211	2041.10	130.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	W 100%w	0.64
60.00	SMOCW 5% _m 5% _o 90% _w	0.30
110.00	HGCMOW 40% _g 15% _m 20% _w 25% _o	1.27
50.00	GCWOCM 20% _g 10% _w 25% _o 45% _m	0.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	9.00	37.12
Max. Gas Rate	0.25	9.00	37.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

Job Ticket: 35098 **DST#: 2**

ATTN: John Messenger

Test Start: 2009.07.30 @ 15:35:00

Tool Information

Drill Pipe:	Length: 3952.00 ft	Diameter: 3.80 inches	Volume: 55.44 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 220.00 ft	Diameter: 2.25 inches	Volume: 1.08 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 56.52 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4160.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			4145.00	
Hydraulic tool	5.00			4150.00	
Packer	5.00			4155.00	20.00 Bottom Of Top Packer
Packer	5.00			4160.00	
Stubb	1.00			4161.00	
Recorder	0.00	8352	Inside	4161.00	
Recorder	0.00	6799	Inside	4161.00	
Perforations	12.00			4173.00	
Bullnose	5.00			4178.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

Job Ticket: 35098 **DST#: 2**

ATTN: John Messenger

Test Start: 2009.07.30 @ 15:35:00

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:

95000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	W 100%w	0.639
60.00	SMOCW 5% _m 5% _o 90% _w	0.295
110.00	HGCMOW 40% _g 15% _m 20% _w 25% _o	1.270
50.00	GCWOCM 20% _g 10% _w 25% _o 45% _m	0.701

Total Length: 350.00 ft Total Volume: 2.905 bbl

Num Fluid Samples: 0

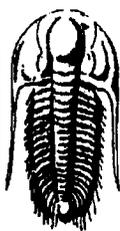
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.09ohm@65degF=95000ppmCl



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Messenger Petroleum, Inc.

JIM #1-19

525 S. Main
Kingman, KS 67068

19 29S 6W Kingman KS

ATTN: John Messenger

Job Ticket: 35098 DST#: 2
Test Start: 2009.07.30 @ 15:35:00

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.25	5.00	30.78
2	5	0.25	5.00	30.78
2	10	0.25	6.00	32.36
2	15	0.25	6.00	32.36
2	20	0.25	7.00	33.95
2	25	0.25	7.00	33.95
2	30	0.25	8.00	35.54
2	35	0.25	8.00	35.54
2	40	0.25	8.00	35.54
2	45	0.25	9.00	37.12
2	50	0.25	9.00	37.12
2	55	0.25	9.00	37.12

Serial #: 8352

Inside

Messenger Petroleum, Inc.

19 29S 6W Kingman KS

DST Test Number: 2

