

TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Oper.

Davidson "A" #1

8411 Preston Rd.
Ste. 800
Dallas TX 75225+5520
ATTN: Kitt Noah

5-16s-11w Barton, KS

Job Ticket: 039998

DST#: 1

Test Start: 2010.12.08 @ 03:01:05

GENERAL INFORMATION:

Formation: LKC "A-C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:50

Time Test Ended: 09:19:29

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 2966.00 ft (KB) To 3017.00 ft (KB) (TVD)

Total Depth: 3017.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1833.00 ft (KB)

1825.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352

Outside

Press@RunDepth: 50.55 psig @ 2973.00 ft (KB)

Start Date: 2010.12.08

End Date:

2010.12.08

Capacity: 8000.00 psig

Last Calib.: 2010.12.08

Start Time: 03:01:05

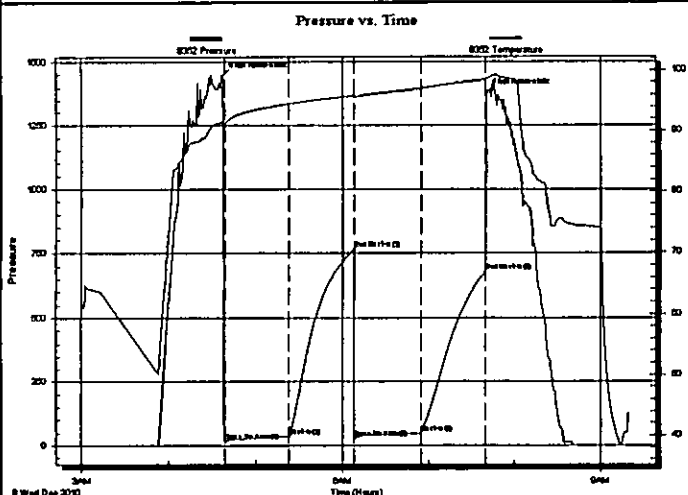
End Time:

09:19:29

Time On Btm: 2010.12.08 @ 04:36:40

Time Off Btm: 2010.12.08 @ 07:40:09

TEST COMMENT: IF: BOB, 1 min.
IS: No Return
FF: BOB, Immediately
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1442.76	91.42	Initial Hydro-static
3	19.00	91.26	Open To Flow (1)
47	37.16	94.48	Shut-In(1)
92	765.09	95.83	End Shut-In(1)
92	30.16	95.56	Open To Flow (2)
138	50.55	97.03	Shut-In(2)
184	680.47	98.37	End Shut-In(2)
184	1374.29	98.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	Gassy Mud	0.63
0.00	715' GP	0.00

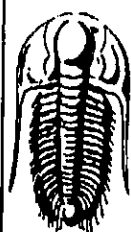
Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMc/d)
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RECEIVED

APR 18 2011

KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Oper.

8411 Preston Rd.
Ste. 800
Dallas TX 75225+5520
ATTN: Kitt Noah

Davidson "A" #1

5-16s-11w Barton, KS

Job Ticket: 039999

DST#: 2

Test Start: 2010.12.08 @ 17:40:05

GENERAL INFORMATION:

Formation: LKC: "F-G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:57:30

Time Test Ended: 23:57:29

Interval: 3048.00 ft (KB) To 3071.00 ft (KB) (TVD)

Total Depth: 3071.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Reference Elevations: 1833.00 ft (KB)

1825.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352

Outside

Press@RunDepth: 568.49 psig @ 3049.00 ft (KB)

Start Date: 2010.12.08

End Date:

2010.12.08

Capacity: 8000.00 psig

Last Calib.: 2010.12.09

Start Time: 17:40:05

End Time:

23:57:29

Time On Btm: 2010.12.08 @ 18:55:30

Time Off Btm: 2010.12.08 @ 22:00:29

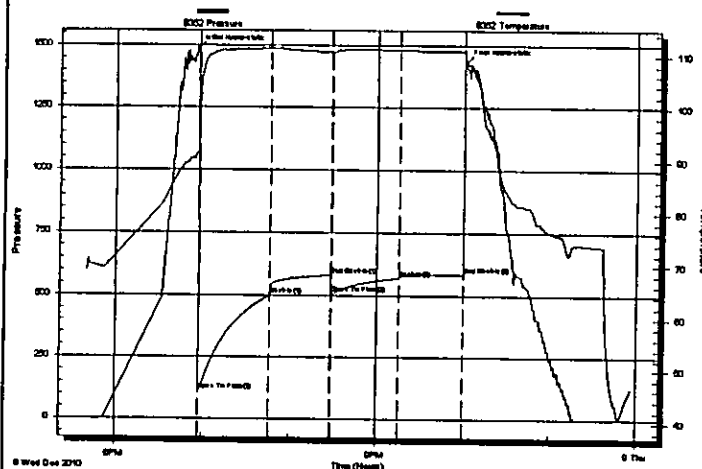
TEST COMMENT: IF: BOB, 1 Min.

IS: No Return

FF: BOB, 3 Min.

FS: No Return

Pressure vs. Time



PRESSURE SUMMARY

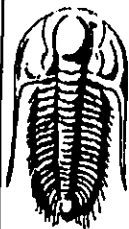
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1484.43	91.49	Initial Hydro-static
2	112.94	100.89	Open To Flow (1)
51	498.16	111.33	Shut-In (1)
93	579.41	110.64	End Shut-In (1)
93	504.83	110.59	Open To Flow (2)
140	568.49	111.04	Shut-In (2)
185	584.91	110.77	End Shut-In (2)
185	1431.17	108.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	M m=100%	0.15
1177.00	W w=100%	16.23
0.00	101' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMc/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Oper.

8411 Preston Rd.
Ste. 800
Dallas TX 75225+5520
ATTN: Kitt Noah

Davidson "A" #1

5-16s-11w Barton, KS

Job Ticket: 040000

DST#: 3

Test Start: 2010.12.09 @ 19:05:05

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:32:10

Time Test Ended: 01:06:39

Interval: 3257.00 ft (KB) To 3312.00 ft (KB) (TVD)

Total Depth: 3312.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Reference Elevations: 1833.00 ft (KB)

1825.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352

Outside

Press@RunDepth: 34.69 psig @ 3263.00 ft (KB)

Start Date: 2010.12.09

End Date:

2010.12.10

Start Time: 19:05:05

End Time:

01:06:40

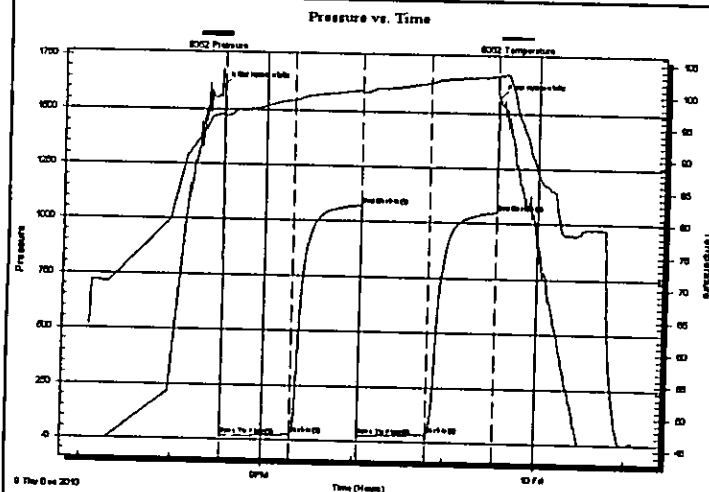
Capacity: 8000.00 psig

Last Calib.: 2010.12.10

Time On Btm: 2010.12.09 @ 20:30:30

Time Off Btm: 2010.12.09 @ 23:33:59

TEST COMMENT: IF: Weak Blow, 2 inch
IS: No Return
FF: Weak Blow, Half inch
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.45	96.58	Initial Hydro-static
2	16.73	96.17	Open To Flow (1)
48	24.91	98.82	Shut-In(1)
93	1072.94	100.57	End Shut-In(1)
93	27.54	100.03	Open To Flow (2)
138	34.69	101.97	Shut-In(2)
183	1050.50	103.09	End Shut-In(2)
184	1574.12	103.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GMO g=15% m=40% o=45%	0.49
15.00	GO g=20% o=80%	0.21
0.00	62' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcfd)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Oper.

8411 Preston Rd.
Ste. 800
Dallas TX 75225+5520
ATTN: Kitt Noah

Davidson "A" #1

5-16s-11w Barton, KS

Job Ticket: 041526

DST#: 4

Test Start: 2010.12.10 @ 06:09:05

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:43:20

Time Test Ended: 12:48:59

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3312.00 ft (KB) To 3317.00 ft (KB) (TVD)

Total Depth: 3317.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1833.00 ft (KB)

1825.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352

Outside

Press@RunDepth: 330.25 psig @ 3314.00 ft (KB)

Start Date: 2010.12.10

End Date:

2010.12.10

Start Time: 06:09:05

End Time:

12:48:59

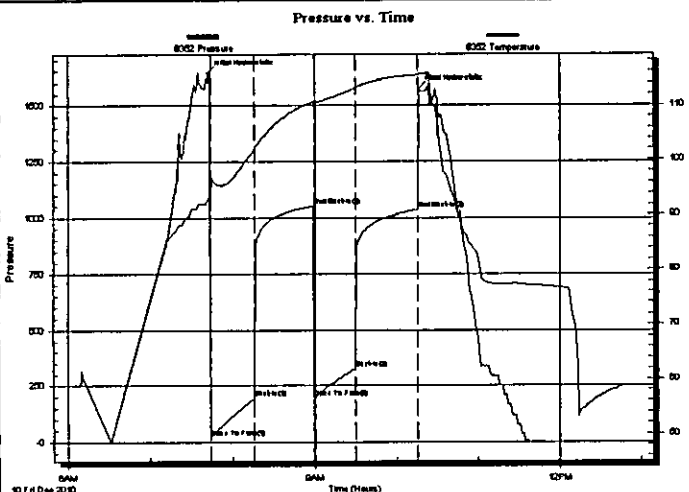
Capacity: 8000.00 psig

Last Calib.: 2010.12.10

Time On Btm: 2010.12.10 @ 07:41:40

Time Off Btm: 2010.12.10 @ 10:16:10

TEST COMMENT: IF: BOB, 4 min
IS: No Return
FF: BOB, 5 Min.
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.85	92.67	Initial Hydro-static
2	20.98	92.54	Open To Flow (1)
34	194.44	101.91	Shut-In (1)
78	1052.48	110.60	End Shut-In (1)
78	197.29	110.23	Open To Flow (2)
108	330.25	113.01	Shut-In (2)
154	1035.37	115.33	End Shut-In (2)
155	1572.34	115.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCMM o=5% w=35% m=60%	0.87
450.00	SOSW o=2% w=98%	6.31
62.00	HOCMM o=20% m=10% w=70%	0.87
62.00	HOCMM o=20% w=30% m=50%	0.87
15.00	CO o=100%	0.21

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)
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**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 03999815177

Well Name & No. DAVIDSON "A" #1 Test No. 1 Date 12-8-10
Company MAI Oil OPER. Elevation 1833 KB 1825 GL
Address 8411 PRESTON RD. STE 800 DALLAS TX 75225+5320
Co. Rep / Geo. Kitt North Rig Southwind #3
Location: Sec. 5 Twp. 16S Rge. 11W Co. BARTON State Ks

Interval Tested 2966-3017 Zone Tested LKC A-C
Anchor Length 51 Drill Pipe Run 2915 Mud Wt. 9.0
Top Packer Depth 2961 Drill Collars Run 61.59 Vis 58
Bottom Packer Depth 2966 Wt. Pipe Run 0 WL 7.2
Total Depth 3017 Chlorides 1800 ppm System LCM N/A

Blow Description IF: BOB 1min,
IS: NO Return
FF: BOB, Immediately
FS: NO Return

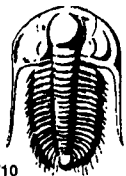
Rec <u>715</u>	Feet of <u>61P</u>	%gas	%oil	%water	%mud
Rec <u>85</u>	Feet of <u>Gassy Mud</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 85' BHT 98 Gravity 1125 API RW 150 @ 120 RT °F Chlorides 1800 ppm
(A) Initial Hydrostatic 1442 ☒ Test 1125 T-On Location 0225
(B) First Initial Flow 19 ☐ Jars 0301
(C) First Final Flow 37 ☐ Safety Joint 0438
(D) Initial Shut-In 765 ☐ Circ Sub 0738
(E) Second Initial Flow 30 ☐ Hourly Standby 0919
(F) Second Final Flow 50 ☒ Mileage 120 RT 150 Comments
(G) Final Shut-In 680 ☐ Sampler
(H) Final Hydrostatic 1374 ☐ Straddle ☐ Ruined Shale Packer

Initial Open 45 ☐ Shale Packer ☐ Ruined Packer
Initial Shut-In 45 ☐ Extra Packer ☐ Extra Copies
Final Flow 45 ☐ Extra Recorder Sub Total 08
Final Shut-In 45 ☐ Day Standby Total 1275
☐ Accessibility MP/DST Disc't

Sub Total 1275
Approved By [Signature] Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 0399994

4/10

Well Name & No. DAVIDSON "A" #1 Test No. 2 Date 12-08-10
 Company MAI Oil opera Elevation 1833 KB 1825 GL
 Address 8411 Preston Rd STE 800 Dallas TX 75225 + 5520
 Co. Rep / Geo. Kitt Noah Rig Southwind #3
 Location: Sec. 5 Twp. 16S Rge. 11W Co. Barton State Ks

Interval Tested 3048-3071 Zone Tested LKC "F-B"
 Anchor Length 23 Drill Pipe Run 2978 Mud Wt. 9.1
 Top Packer Depth 3043 Drill Collars Run 61.79 Vis 52
 Bottom Packer Depth 3048 Wt. Pipe Run 0 WL 8.8
 Total Depth 3071 Chlorides 2200 ppm System LCM N/A

Blow Description IF: BOB, 1min.
IS: No Return
FP: BOB, 3min.
FS: NO Return

Rec <u>101</u>	Feet of <u>GIP</u>	%gas	%oil	%water	%mud
Rec <u>1177</u>	Feet of <u>W</u>	%gas	%oil	<u>100</u> %water	%mud
Rec <u>31</u>	Feet of <u>M</u>	%gas	%oil	%water	<u>100</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

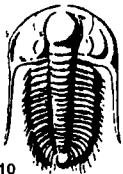
Rec Total 1208' BHT 110° Gravity _____ API RW .085@ 43 °F Chlorides 190,000 ppm
 (A) Initial Hydrostatic 1484 ☒ Test 1125 T-On Location 1738
 (B) First Initial Flow 112 ☐ Jars _____ T-Started 1740
 (C) First Final Flow 438 ☐ Safety Joint _____ T-Open 1857
 (D) Initial Shut-In 579 ☐ Circ Sub _____ T-Pulled 2157
 (E) Second Initial Flow 504 ☐ Hourly Standby _____ T-Out 2357
 (F) Second Final Flow 568 ☒ Mileage 120 RT 150 Comments _____
 (G) Final Shut-In 584 ☐ Sampler _____
 (H) Final Hydrostatic 1431 ☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1275
 MP/DST Disc't _____

Approved By Kitt Noah Sub Total 1275 Our Representative Chad R

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 040000

Well Name & No.

DAVIDSON "A" #1

Test No.

3

Date

12-9-10

Company

Mai Oil Oper.

Elevation

1833

KB

1825

GL

Address

8411 Preston Rd Ste 800 Dallas TX 75225-5520

Co. Rep / Geo.

Kitt Noah

Rig

Southwind #3

Location: Sec.

5

Twp.

16S

Rge.

11W

Co.

BARTON

State

Ks.

Interval Tested

3257-3312

Zone Tested

Arbuckle

Anchor Length

55'

Drill Pipe Run

3249

Mud Wt.

9.2

Top Packer Depth

3252

Drill Collars Run

0

Vis

54

Bottom Packer Depth

3257

Wt. Pipe Run

0

WL

9.2

Total Depth

3312

Chlorides

6800

ppm System

LCM

N/A

Blow Description

IF: Weak blow, 2"

IS: ~~Weak~~ No Return

FF: Weak blow, 2"

FS: No Return

Rec

62

Feet of

GIP

%gas

%oil

%water

%mud

Rec

15

Feet of

GO

20%gas

80%oil

%water

%mud

Rec

35

Feet of

GMO

15%gas

45%oil

%water

40% mud

Rec

Feet of

%gas

%oil

%water

%mud

Rec

Feet of

%gas

%oil

%water

%mud

Rec Total

50'

BHT

103

Gravity

39

API RW

@

°F

Chlorides

ppm

(A) Initial Hydrostatic

1610

☒ Test

1125

T-On Location

1900

(B) First Initial Flow

16

☐ Jars

T-Started

1905

(C) First Final Flow

26

☐ Safety Joint

T-Open

2033

(D) Initial Shut-In

1072

☐ Circ Sub

T-Pulled

2333

(E) Second Initial Flow

27

☐ Hourly Standby

T-Out

0107

(F) Second Final Flow

34

☒ Mileage

120 RT 150

Comments

(G) Final Shut-In

1050

☐ Sampler

(H) Final Hydrostatic

1574

☐ Straddle

☐ Ruined Shale Packer

Initial Open

45

☐ Shale Packer

☐ Ruined Packer

Initial Shut-In

45

☐ Extra Packer

☐ Extra Copies

Final Flow

45

☐ Extra Recorder

Sub Total

8

Final Shut-In

45

☐ Day Standby

Total

1275

☐ Accessibility

MP/DST Disc't

Sub Total

1275

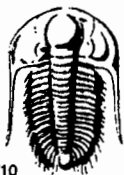
Approved By

Kitt Noah

Our Representative

Andy Car

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041526

Well Name & No. DAVIDSON "A" #1 Test No. 4 Date 12-10-10
 Company MAI OIL OPER. Elevation 1833 KB 1825 GL
 Address 8411 PRESTON RD STE 800 DALLAS TX 75225-5520
 Co. Rep / Geo. KIT NOBLE Rig SOUTHWIND #3
 Location: Sec. 5 Twp. 16S Rge. 11W Co. BARTON State Ks

Interval Tested 3312-3317 Zone Tested DEBUCKLE
 Anchor Length 5' Drill Pipe Run 3317 Mud Wt. 9.2
 Top Packer Depth 3307 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3312 Wt. Pipe Run 0 WL 9.2
 Total Depth 3317 Chlorides 6800 ppm System LCM 2#

Blow Description IF: BOB, 4min
IS: NO RETURN
FP: BOB, 5min
FS: NO RETURN

Rec <u>15'</u>	Feet of <u>CO</u>	%gas <u>100</u>	%oil <u>0</u>	%water <u>0</u>	%mud <u>0</u>
Rec <u>62'</u>	Feet of <u>HOCWM</u>	%gas <u>20</u>	%oil <u>30</u>	%water <u>50</u>	%mud <u>0</u>
Rec <u>62'</u>	Feet of <u>HOCmw</u>	%gas <u>20</u>	%oil <u>70</u>	%water <u>10</u>	%mud <u>0</u>
Rec <u>450</u>	Feet of <u>SOSW</u>	%gas <u>2</u>	%oil <u>98</u>	%water <u>0</u>	%mud <u>0</u>
Rec <u>62</u>	Feet of <u>OCWM</u>	%gas <u>5</u>	%oil <u>35</u>	%water <u>60</u>	%mud <u>0</u>

Rec Total 650 BHT 115 Gravity 1125 API RW 0 @ 0 °F Chlorides 0 ppm

(A) Initial Hydrostatic 1640 ☒ Test 1125 T-On Location 0550
 (B) First Initial Flow 20 ☐ Jars 0609
 (C) First Final Flow 194 ☐ Safety Joint 0745
 (D) Initial Shut-In 1052 ☐ Circ Sub 1015
 (E) Second Initial Flow 197 ☐ Hourly Standby 1250
 (F) Second Final Flow 330 ☒ Mileage 120 RT 150
 (G) Final Shut-In 1035 ☐ Sampler 0
 (H) Final Hydrostatic 1572 ☐ Straddle 0

Initial Open 30 ☐ Shale Packer 0 ☐ Ruined Shale Packer 0
 Initial Shut-In 45 ☐ Extra Packer 0 ☐ Ruined Packer 0
 Final Flow 30 ☐ Extra Recorder 0 ☐ Extra Copies 0
 Final Shut-In 45 ☐ Day Standby 0 Sub Total 0
☐ Accessibility 0 Total 1275

Sub Total 1275 MP/DST Disc't 0

Approved By KIT NOBLE Our Representative Andy Car

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