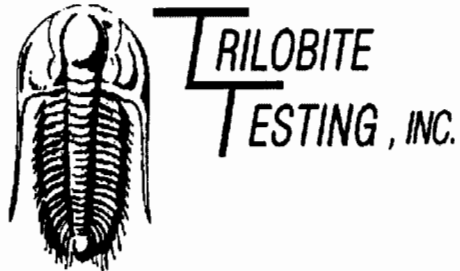


JA



DEC 05 2002
KCO

Grand Mesa Operating Co

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co**

200 E 1st St Ste 307
Wichita, Ks 67202

ORIGINAL

ATTN: Ronald Sinclair

9-18-24-Ness-KS

Potter #1-9

Start Date: 2002.11.25 @ 21:36:18

End Date: 2002.11.26 @ 04:55:48

Job Ticket #: 16717 DST #: 1

Potter #1-9

9-18-24-Ness-KS

DST # 1

Cong/Miss

2002.11.25

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating Co
200 E 1st St Ste 307
Wichita, Ks 67202
ATTN: Ronald Sinclair

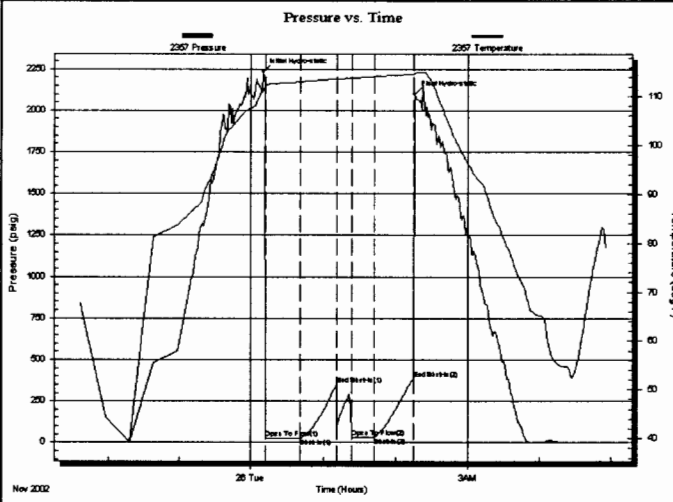
Potter #1-9
9-18-24-Ness-KS
Job Ticket: 16717 **DST#: 1**
Test Start: 2002.11.25 @ 21:36:18

GENERAL INFORMATION:

| | |
|---|---------------------------------------|
| Formation: Cong/Miss | Test Type: Conventional Straddle |
| Deviated: No Whipstock: ft (KB) | Tester: Dan Bangle |
| Time Tool Opened: 00:12:18 | Unit No: 21 |
| Time Test Ended: 04:55:48 | Reference Elevations: 2306.00 ft (KB) |
| Interval: 4285.00 ft (KB) To 4355.00 ft (KB) (TVD) | 2297.00 ft (CF) |
| Total Depth: 4450.00 ft (KB) (TVD) | KB to GR/CF: 9.00 ft |
| Hole Diameter: 7.88 inches | Hole Condition: Good |

| | | |
|--|------------------------|-------------------------------------|
| Serial #: 2357 | Inside | Capacity: 7000.00 psig |
| Press@RunDepth: 30.62 psig @ 4292.00 ft (KB) | Start Date: 2002.11.25 | Last Calib.: 2002.11.26 |
| Start Time: 21:36:23 | End Date: 2002.11.26 | Time On Btm: 2002.11.26 @ 00:09:48 |
| | End Time: 04:55:47 | Time Off Btm: 2002.11.26 @ 02:15:18 |

TEST COMMENT: F-Weak 1/2" blow decaying to 1/4"
FF-No blow
Times-30-30-30-30



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 2231.25 | 111.29 | Initial Hydro-static |
| 3 | 24.87 | 112.17 | Open To Flow (1) |
| 31 | 27.60 | 112.98 | Shut-In(1) |
| 61 | 349.71 | 113.61 | End Shut-In(1) |
| 74 | 28.34 | 113.78 | Open To Flow (2) |
| 92 | 30.62 | 114.08 | Shut-In(2) |
| 125 | 386.66 | 114.59 | End Shut-In(2) |
| 126 | 2099.25 | 114.69 | Final Hydro-static |

| Recovery | | |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 15.00 | DM | 0.21 |
| | | |
| | | |
| | | |
| | | |

| Gas Rates | | | |
|-----------|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
| | | | |
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co

Potter #1-9

200 E 1st St Ste 307
Wichita, Ks 67202

9-18-24-Ness-KS

Job Ticket: 16717

DST#: 1

ATTN: Ronald Sinclair

Test Start: 2002.11.25 @ 21:36:18

Tool Information

| | | | |
|------------------------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe: Length: 4267.00 ft | Diameter: 3.80 inches | Volume: 59.85 bbl | Tool Weight: 2800.00 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: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 65000.00 lb |
| | Total Volume: 59.85 bbl | | Tool Chased 0.00 ft |
| Drill Pipe Above KB: 10.00 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: 4285.00 ft | | | Final 50000.00 lb |
| Depth to Bottom Packer: 4355.00 ft | | | |
| Interval between Packers: 70.00 ft | | | |
| Tool Length: 195.00 ft | | | |
| Number of Packers: 3 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|------------------|-------------|------------|----------|------------|----------------|-------------------------|
| C.O. Sub | 1.00 | | | 4258.00 | | |
| S.I. Tool | 5.00 | | | 4263.00 | | |
| HMV | 5.00 | | | 4268.00 | | |
| Jars | 5.00 | | | 4273.00 | | |
| Safety Joint | 2.00 | | | 4275.00 | | |
| Packer | 5.00 | | | 4280.00 | 28.00 | Bottom Of Top Packer |
| Packer | 5.00 | | | 4285.00 | | |
| Stubb | 1.00 | | | 4286.00 | | |
| Perforations | 5.00 | | | 4291.00 | | |
| C.O. Sub | 1.00 | | | 4292.00 | | |
| Recorder | 0.00 | 2357 | Inside | 4292.00 | | |
| Blank Spacing | 32.00 | | | 4324.00 | | |
| C.O. Sub | 1.00 | | | 4325.00 | | |
| Recorder | 0.00 | 13254 | Outside | 4325.00 | | |
| Perforations | 26.00 | | | 4351.00 | | |
| Blank Off Sub | 1.00 | | | 4352.00 | | |
| Extension Sub | 3.00 | | | 4355.00 | 70.00 | Tool Interval |
| Packer | 2.00 | | | 4357.00 | | |
| Recorder | 0.00 | 13248 | Outside | 4357.00 | | |
| Anchor | 95.00 | | | 4452.00 | 97.00 | Bottom Packers & Anchor |

Total Tool Length: 195.00

DEC 05 2002
KCOV 103



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co

Potter #1-9

200 E 1st St Ste 307
Wichita, Ks 67202

9-18-24-Ness-KS

Job Ticket: 16717

DST#: 1

ATTN: Ronald Sinclair

Test Start: 2002.11.25 @ 21:36:18

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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 15.00 | DM | 0.210 |

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

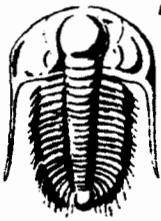
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

TNN #5257
\$1695

No 16717

Test Ticket

Well Name & No. POTTER #1-9 Test No. 1 Date 11-25-02
 Company Grand Mesa Operating Co. Zone Tested Conq/Miss
 Address 200 E. 1ST ST. STE 307, WICHITA, KS. 67202 Elevation 2306 KB 2397 GL
 Co. Rep / Geo. Wes Hansen Cont. Duke #4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 9 Twp. 18 Rge. 24 Co. Ness State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4285 - 4355 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000
 Anchor Length 70' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 4285 Tool Weight 2800
 Bottom Packer Depth 4355 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4450 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM _____ Vis. 49 WL 10 Drill Pipe Size 4.125 X H Ft. Run 4267
 Blow Description F.F. Weak 1/2" blow decreasing to 1/4"

F.F. No blow

Recovery — Total Feet 15 GIP _____ Ft. in DC _____ Ft. in DP 15
 Rec. 15 Feet Of D.M. %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. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 114 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4200 ppm System

| | AK-1 | Alpine | | | | |
|----------------------------------|------|-------------|-----|---------------------------|-----------------------|--------------|
| (A) Initial Hydrostatic Mud | | <u>2231</u> | PSI | Recorder No. <u>2357</u> | T-On Location | <u>20:00</u> |
| (B) First Initial Flow Pressure | | <u>24</u> | PSI | (depth) <u>4292</u> | T-Started | <u>21:36</u> |
| (C) First Final Flow Pressure | | <u>27</u> | PSI | Recorder No. <u>13254</u> | T-Open | <u>00:10</u> |
| (D) Initial Shut-In Pressure | | <u>349</u> | PSI | (depth) <u>4325</u> | T-Pulled | <u>02:10</u> |
| (E) Second Initial Flow Pressure | | <u>28</u> | PSI | Recorder No. <u>13248</u> | T-Out | <u>04:55</u> |
| (F) Second Final Flow Pressure | | <u>30</u> | PSI | (depth) _____ | T-Off Location | <u>6:00</u> |
| (G) Final Shut-in Pressure | | <u>386</u> | PSI | Initial Opening <u>30</u> | Test | <u>800</u> |
| (Q) Final Hydrostatic Mud | | <u>2099</u> | PSI | Initial Shut-in <u>30</u> | Jars <u>X</u> | <u>200</u> |
| | | | | Final Flow <u>30</u> | Safety Joint <u>X</u> | <u>50</u> |
| | | | | Final Shut-in <u>30</u> | Straddle <u>X</u> | <u>250</u> |

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Approved By Wes Hansen
Our Representative Dan Bangle

Circ. Sub _____
 Sampler _____
 Extra Packer X 150
 Elec. Rec. X 150
 Mileage 65 65
 Other 1 hr Standby 1065
 TOTAL PRICE \$ 1695

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

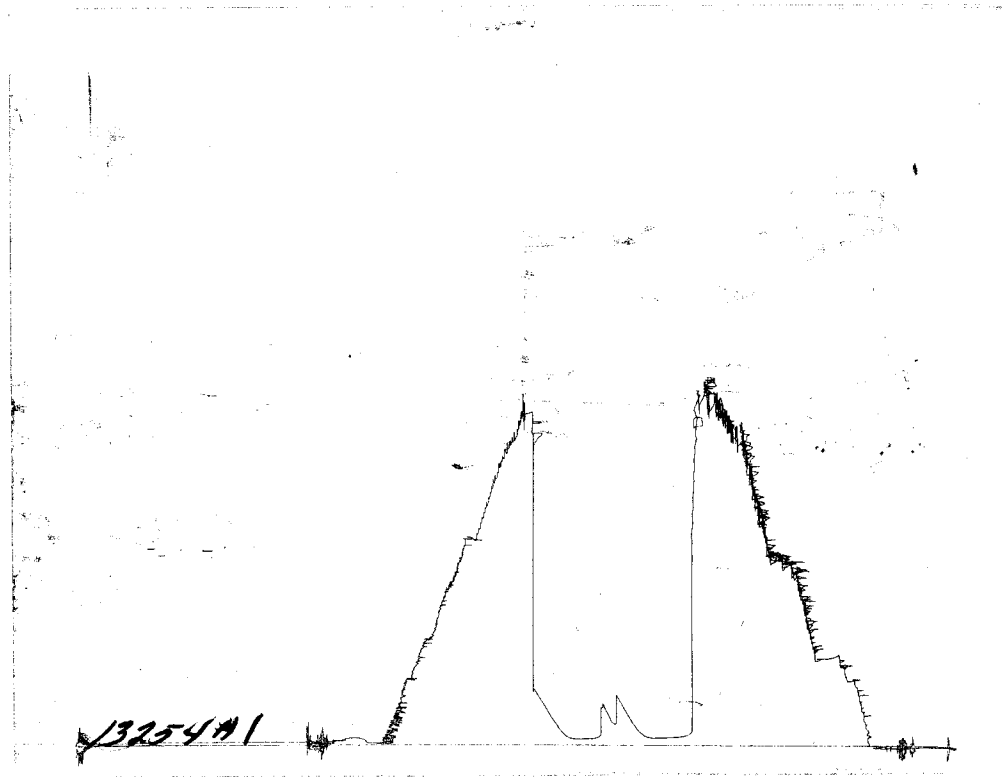


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

