

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 9855
Name: Grand Mesa Operating Company
Address: 200 E. First St., Ste 307
City/State/Zip: Wichita, KS 67202
Purchaser: N/A
Operator Contact Person: Ronald N. Sinclair
Phone: (316) 265-3000
Contractor: Name: WW Drilling, LLC
License: 33575
Wellsite Geologist: Robert Petersen

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 31 2007

CONSERVATION DIVISION
WICHITA, KS

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to Enhr./SWD

Plug Back Plug Back Total Depth

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Enhr.?) Docket No. _____

01/15/07	01/22/07	01/23/07
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 195-22417-00-00

County: Trego

NW SW SE SW Sec. 20 Twp. 15 S. R. 22 East West

635 feet from S N (circle one) Line of Section

1435 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: June-Ruff Well #: 1-20

Field Name: Wildcat

Producing Formation: None

Elevation: Ground: 2288' Kelly Bushing: 2293'

Total Depth: 4368' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at 5jts @ 208' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan PA AIT NH 0-18-08
(Data must be collected from the Reserve Pit)

Chloride content 6,800 ppm Fluid volume 800 bbls

Dewatering method used Evaporation & Backfill

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License No.: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature] RONALD N. SINCLAIR

Title: President Date: January 29, 2007

Subscribed and sworn to before me this 29TH day of JANUARY

20 07
Notary Public: [Signature]
PHYLLIS E. BREWER

PHYLLIS E. BREWER
Notary Public - State of Kansas
My Appt. Expires 2-21-07

Date Commission Expires: JULY 21, 2007

KCC Office Use ONLY
N Letter of Confidentiality Received
If Denied, Yes Date: _____
Wireline Log Received
Geologist Report Received
UIC Distribution

544

Operator Name: Grand Mesa Operating Company Lease Name: June-Ruff Well #: 1-20
 Sec. 20 Twp. 15 S. R. 22 East West County: Trego

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy) List All E. Logs Run: Dual Induction Log, Comp. Den./Neutron PE Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%; text-align: center;">Top</td> <td style="width:20%; text-align: center;">Datum</td> </tr> <tr> <td>Stone Corral</td> <td style="text-align: center;">1640</td> <td style="text-align: center;">+ 653</td> </tr> <tr> <td>Bs/Stone Corral</td> <td style="text-align: center;">1678</td> <td style="text-align: center;">+ 615</td> </tr> <tr> <td>Heebner</td> <td style="text-align: center;">3655</td> <td style="text-align: center;">-1362</td> </tr> <tr> <td>Lansing</td> <td style="text-align: center;">3692</td> <td style="text-align: center;">-1399</td> </tr> <tr> <td>B/KC</td> <td style="text-align: center;">3975</td> <td style="text-align: center;">-1682</td> </tr> <tr> <td>Pawnee</td> <td style="text-align: center;">4056</td> <td style="text-align: center;">-1763</td> </tr> <tr> <td>Ft Scott</td> <td style="text-align: center;">4150</td> <td style="text-align: center;">-1857</td> </tr> <tr> <td>Cherokee Sh</td> <td style="text-align: center;">4164</td> <td style="text-align: center;">-1871</td> </tr> <tr> <td>Cherokee Sd</td> <td style="text-align: center;">4233</td> <td style="text-align: center;">-1940</td> </tr> <tr> <td>Mississippian</td> <td style="text-align: center;">4252</td> <td style="text-align: center;">-1959</td> </tr> <tr> <td>Gilmore City</td> <td style="text-align: center;">4326</td> <td style="text-align: center;">-2033</td> </tr> </table>	Name	Top	Datum	Stone Corral	1640	+ 653	Bs/Stone Corral	1678	+ 615	Heebner	3655	-1362	Lansing	3692	-1399	B/KC	3975	-1682	Pawnee	4056	-1763	Ft Scott	4150	-1857	Cherokee Sh	4164	-1871	Cherokee Sd	4233	-1940	Mississippian	4252	-1959	Gilmore City	4326	-2033
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23#	208'	Common	160SX	3% CC, 2% Gel.

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	4368'	60/40 Poz Mix	190SX	6% Gel, 1/4#SX Flocele

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	RECEIVED KANSAS CORPORATION COMMISSION JAN 31 2007 CONSERVATION DIVISION WICHITA, KS		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
---------------	------	--------	-----------	--

Date of First, Resumerd Production, SWD or Enhr.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	_____

ALLIED CEMENTING CO., INC.

Federal Tax I.D. #

26308

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

SERVICE POINT:

Ness City

DATE <i>1-15-07</i>	SEC. <i>20</i>	TWP. <i>15</i>	RANGE <i>22</i>	CALLED OUT	ON LOCATION <i>8:45 PM</i>	JOB START <i>10:30 PM</i>	JOB FINISH <i>11:15 PM</i>
LEASE <i>June Ruff</i>	WELL # <i>1-20</i>	LOCATION <i>283 Hwy N to MM#127, 7 1/2 east to</i>			COUNTY <i>Jrego</i>	STATE <i>Kansas</i>	
OLD OR <u>NEW</u> (Circle one)		<i>curve, SW 1 mile, 1 south, 3/4 west</i>					

CONTRACTOR *W W Drilling*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *209'*

CASING SIZE *8 5/8* DEPTH *208'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *12.5 BBLs*

OWNER *Grand Mesa Operating Company*

CEMENT AMOUNT ORDERED *160 ccs Common*

3% cc 2% GEL

COMMON	<i>160 ccs</i>	@	<i>10.65</i>	<i>1704.00</i>
POZMIX		@		
GEL	<i>3 cc</i>	@	<i>16.65</i>	<i>49.95</i>
CHLORIDE	<i>SAL</i>	@	<i>46.60</i>	<i>233.00</i>
ASC		@		
HANDLING	<i>168 cc</i>	@	<i>1.90</i>	<i>319.20</i>
MILEAGE	<i>168 cc 09</i>		<i>26</i>	<i>393.12</i>
TOTAL				<i>2699.27</i>

EQUIPMENT CONSERVATION DIVISION
WICHITA, KS

Ness

PUMP TRUCK CEMENTER *J. D. Drilling*

224 HELPER *Jim Weighous*

BULK TRUCK DRIVER *Don Dugan*

DRIVER

REMARKS:

Ran 8 5/8 casing to bottom circ w/ rig mud. Hook up to pump truck & mixed 160 ccs common 3% cc 2% gel. Shut down change valves over, release 8 5/8 FW & displace with 12.5 BBLs fresh H₂O. Cement did circulate. Shut in manifold.

SERVICE

DEPTH OF JOB	<i>208'</i>			
PUMP TRUCK CHARGE				<i>85.00</i>
EXTRA FOOTAGE	<i>26</i>	@	<i>6.00</i>	<i>156.00</i>
MILEAGE		@		
MANIFOLD		@		
TOTAL				<i>971.00</i>

CHARGE TO: *Grand Mesa Operating Co.*

STREET *200 E. First St. Ste. 307*

CITY *Wichita* STATE *Kansas* ZIP *67202*

PLUG & FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			
TOTAL				

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE *X Kyle Binder-Knecht*

X Kyle Binder-Knecht
PRINTED NAME

Thanks

ALLIED CEMENTING CO., INC.

Federal Tax I.D.#

26272

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

SERVICE POINT:

Neosho City

DATE <u>1-22-07</u>	SEC. <u>20</u>	TWP. <u>15</u>	RANGE <u>22</u>	CALLED OUT <u>4:00pm</u>	ON LOCATION <u>7:30pm</u>	JOB START <u>10:00pm</u>	JOB FINISH <u>11:00pm</u>
LEASE <u>Buff</u>	WELL # <u>1-20</u>	LOCATION <u>4+147 6N 2W+2 1W</u>	COUNTY <u>Trego</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/25 1W 1/4N.</u>				

CONTRACTOR W-W Drilling #6
 TYPE OF JOB Rotary Plug
 HOLE SIZE 7 7/8 T.D. 4368
 CASING SIZE 8 7/8 DEPTH 209
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER Grand Mesa Oper.
 CEMENT AMOUNT ORDERED
190 60/40 60/100
1/4" #7 1/2 Seal man sk
 COMMON 114 apl. @ 10.65 1214.10
 POZMIX 76 apl. @ 5.80 440.80
 GEL 10 apl. @ 16.65 166.50
 CHLORIDE @
 ASC @
Red Seal 48 # @ 2.00 96.00
 @
 @
 @
 @
 @
 @
 @
 @
 @
 HANDLING 202.44 @ 1.90 383.80
 MILEAGE 32 09 208.46 581.76
 TOTAL 2881.96

EQUIPMENT

PUMP TRUCK CEMENTER MIKE
 # 224 HELPER J. W. Simpson
 BULK TRUCK
 # 341 DRIVER Frank
 BULK TRUCK
 # DRIVER

REMARKS:

<u>1675' e 25' sk</u>	RECEIVED KANSAS CORPORATION COMMISSION JAN 31 2007 CONSERVATION DIVISION WICHITA, KS
<u>750 - 100</u>	
<u>275 - 40</u>	
<u>40 - 10</u>	
<u>RH - 15</u>	

Thanks

SERVICE

DEPTH OF JOB 1675
 PUMP TRUCK CHARGE @ 15.00
 EXTRA FOOTAGE @
 MILEAGE 32 @ 6.00 192.00
 MANIFOLD @
 @
 @
 @
 TOTAL 1007.00

CHARGE TO: Grand Mesa Oper.
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

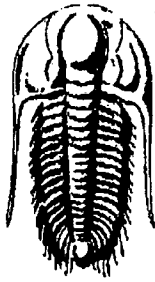
8 7/8
Day Hole @ 35.00 35.00
 @
 @
 @
 @
 TOTAL 35.00

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX
 TOTAL CHARGE
 DISCOUNT IF PAID IN 30 DAYS

SIGNATURE [Signature]

Hyle Hinderknecht
 PRINTED NAME



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

200 E First St Ste 307
Wichita KS 67202

ATTN: Bob Peterson

20 15S 22W Trego KS

June Ruff #1-20

Start Date: 2007.01.20 @ 18:10:05

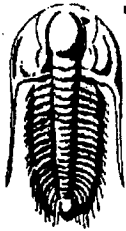
End Date: 2007.01.21 @ 02:47:15

Job Ticket #: 27484 DST #: 1

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

June Ruff #1-20

200 E First St Ste 307
Wichita KS 67202

20 15S 22W Trego KS

Job Ticket: 27484

DST#: 1

ATTN: Bob Peterson

Test Start: 2007.01.20 @ 18:10:05

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:57:15

Time Test Ended: 02:47:15

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **4158.00 ft (KB) To 4241.00 ft (KB) (TVD)**

Total Depth: 4241.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2293.00 ft (KB)

2288.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8320**

Inside

Press@RunDepth: 35.08 psig @ 4163.00 ft (KB)

Start Date: 2007.01.20

End Date:

2007.01.21

Capacity: 7000.00 psig

Last Calib.: 2007.01.21

Start Time: 18:10:07

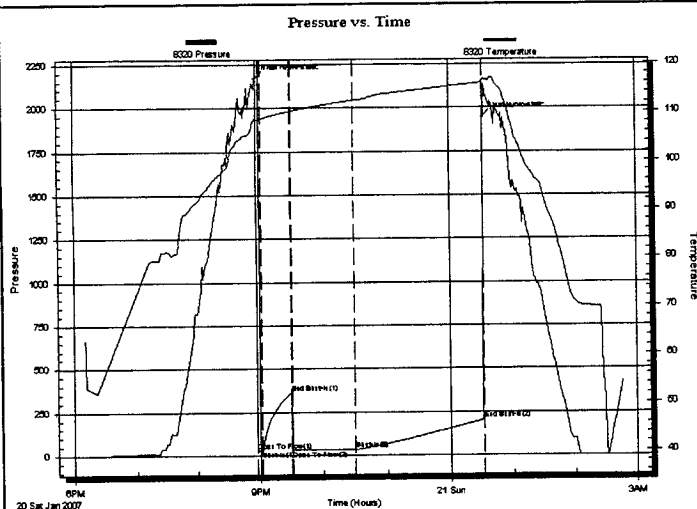
End Time:

02:47:15

Time On Btm: 2007.01.20 @ 20:56:55

Time Off Btm: 2007.01.21 @ 00:31:54

TEST COMMENT: IFP Weak blow built to 2"
ISI Weak surface blow back throughout
FFP Weak 1.5" blow throughout
FSI Weak surface blow back died in 20 min



PRESSURE SUMMARY

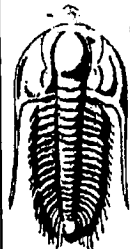
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.11	108.95	Initial Hydro-static
1	27.02	108.60	Open To Flow (1)
5	29.63	108.53	Shut-In(1)
34	363.77	110.10	End Shut-In(1)
34	31.27	110.07	Open To Flow (2)
94	35.08	112.33	Shut-In(2)
215	202.72	115.85	End Shut-In(2)
215	1942.52	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/ scum of Oil	0.10

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

June Ruff #1-20

200 E First St Ste 307
Wichita KS 67202

20 15S 22W Trego KS

Job Ticket: 27484

DST#: 1

ATTN: Bob Peterson

Test Start: 2007.01.20 @ 18:10:05

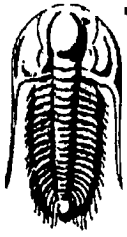
Tool Information

Drill Pipe:	Length: 4002.00 ft	Diameter: 3.82 inches	Volume: 56.73 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 158.00 ft	Diameter: 2.25 inches	Volume: 0.78 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 57.51 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	4158.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	111.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Jars	5.00			4146.00	
Safety Joint	2.00			4148.00	
Packer	5.00			4153.00	28.00 Bottom Of Top Packer
Packer	5.00			4158.00	
Stubb	1.00			4159.00	
Perforations	4.00			4163.00	
Recorder	0.00	8320	Inside	4163.00	
Blank Spacing	62.00			4225.00	
Perforations	13.00			4238.00	
Recorder	0.00	3351	Inside	4238.00	
Bullnose	3.00			4241.00	83.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

June Ruff #1-20

200 E First St Ste 307
Wichita KS 67202

20 15S 22W Trego KS

Job Ticket: 27484

DST#: 1

ATTN: Bob Peterson

Test Start: 2007.01.20 @ 18:10:05

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/ scum of Oil	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

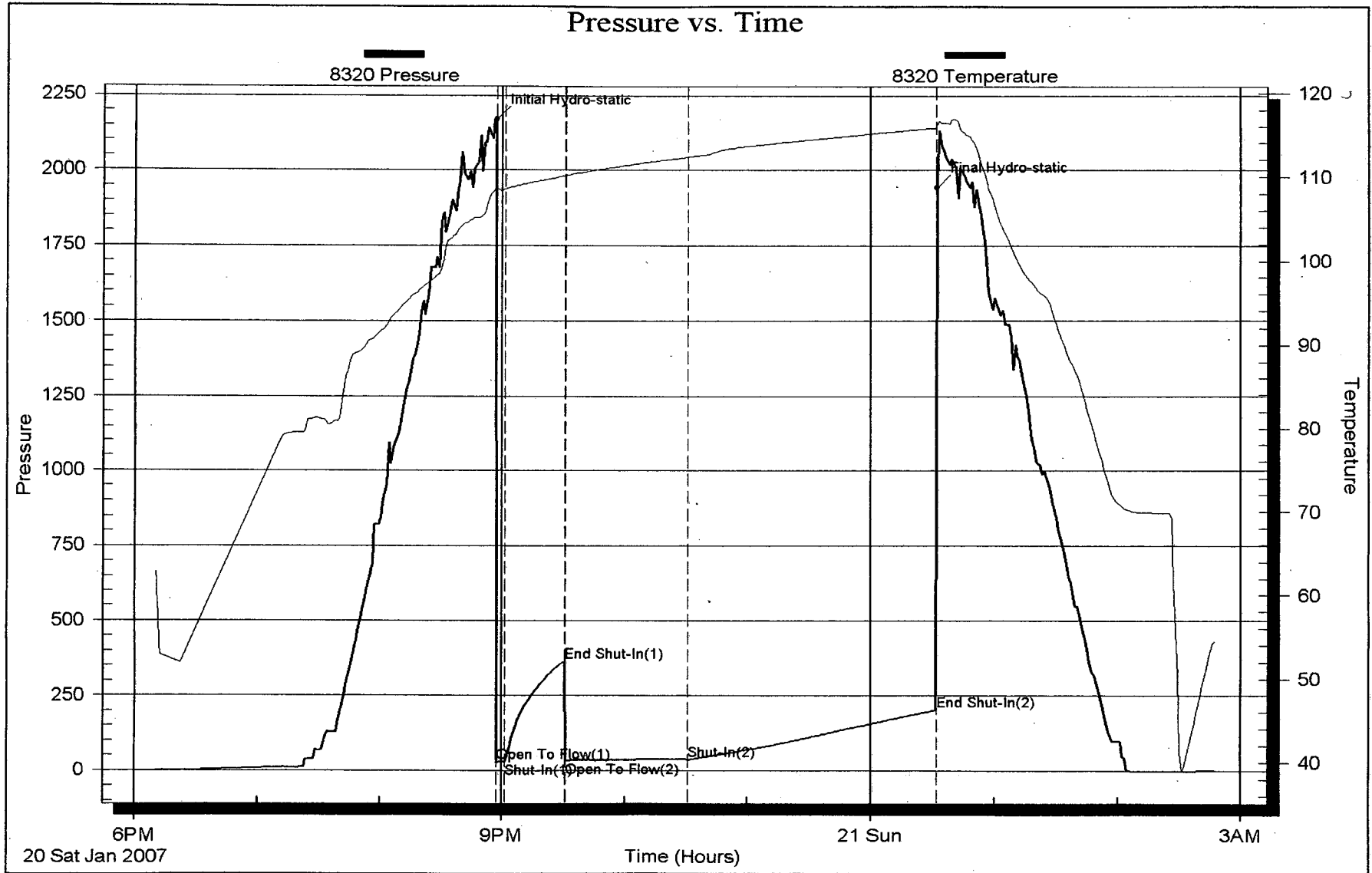
Num Gas Bombs: 0

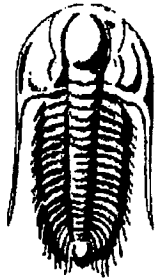
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

200 E First St Ste 307
Wichita KS 67202

ATTN: Bob Peterson

20 15S 22W Trego KS

June Ruff #1-20

Start Date: 2007.01.21 @ 09:31:21

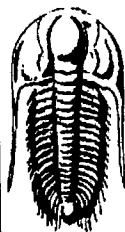
End Date: 2007.01.21 @ 17:40:51

Job Ticket #: 27485 DST #: 2

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

June Ruff #1-20

200 E First St Ste 307
Wichita KS 67202

20 15S 22W Trego KS

Job Ticket: 27485 **DST#: 2**

ATTN: Bob Peterson

Test Start: 2007.01.21 @ 09:31:21

GENERAL INFORMATION:

Formation: **Lower Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:37:21

Time Test Ended: 17:40:51

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **4157.00 ft (KB) To 4250.00 ft (KB) (TVD)**

Reference Elevations: 2293.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

2288.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 230.95 psig @ 4162.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.01.21 End Date: 2007.01.21

Last Calib.: 2007.01.21

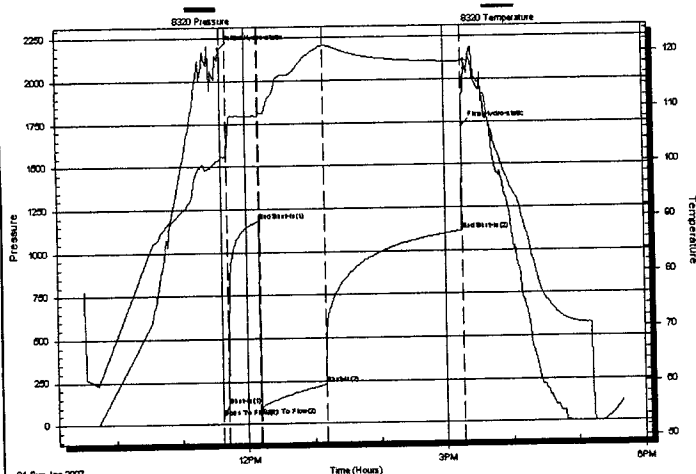
Start Time: 09:31:23 End Time: 17:40:51

Time On Btm: 2007.01.21 @ 11:37:01

Time Off Btm: 2007.01.21 @ 15:15:11

TEST COMMENT: IFP Blow built to 8"
ISI Weak surface blow back throughout
FFP BOB in 11.5 min
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

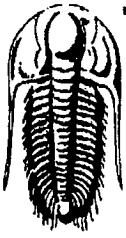
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.49	100.65	Initial Hydro-static
1	38.93	100.40	Open To Flow (1)
6	107.30	102.10	Shut-In(1)
34	1180.28	108.61	End Shut-In(1)
35	98.13	108.63	Open To Flow (2)
94	230.95	121.30	Shut-In(2)
218	1113.65	118.16	End Shut-In(2)
219	1725.34	118.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	VSOCM 2%O 98%M	0.22
240.00	MJD w/ scum of Oil	2.36
180.00	MW 50%W 50%M	2.55

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

June Ruff #1-20

200 E First St Ste 307
Wichita KS 67202

20 15S 22W Trego KS

Job Ticket: 27485

DST#: 2

ATTN: Bob Peterson

Test Start: 2007.01.21 @ 09:31:21

Tool Information

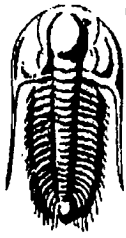
Drill Pipe:	Length: 4010.00 ft	Diameter: 3.82 inches	Volume: 56.84 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 158.00 ft	Diameter: 2.25 inches	Volume: 0.78 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 57.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	39.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	4157.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	93.00 ft				
Tool Length:	121.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4130.00		
Shut In Tool	5.00			4135.00		
Hydraulic tool	5.00			4140.00		
Jars	5.00			4145.00		
Safety Joint	2.00			4147.00		
Packer	5.00			4152.00	28.00	Bottom Of Top Packer
Packer	5.00			4157.00		
Stubb	1.00			4158.00		
Perforations	4.00			4162.00		
Recorder	0.00	8320	Inside	4162.00		
Blank Spacing	62.00			4224.00		
Perforations	23.00			4247.00		
Recorder	0.00	3351	Inside	4247.00		
Bullnose	3.00			4250.00	93.00	Bottom Packers & Anchor

Total Tool Length: 121.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

June Ruff #1-20

200 E First St Ste 307
Wichita KS 67202

20 15S 22W Trego KS

Job Ticket: 27485

DST#: 2

ATTN: Bob Peterson

Test Start: 2007.01.21 @ 09:31:21

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:

16000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	VSOCM 2%O 98%M	0.221
240.00	MUD w/ scum of Oil	2.356
180.00	MW 50%W 50%M	2.552

Total Length: 465.00 ft

Total Volume: 5.129 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

