

ORIGINAL

FORM MUST BE TYPED

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 9855
Name: Grand Mesa Operating Co.
Address 200 E. First St., Ste 307
Wichita Ks 67202

Purchaser:
Operator Contact Person: Ronald N. Sinclair

Phone (316) 265-3000

Contractor: Name: Mallard J V, Inc.

License: 4958

Wellbore Geologist: Larry Friend

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSV, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

11-6-96 11-13-96 11-13-96
Spud Date Date Reached TD Completion Date

API NO. 15- 135-239560000

County Ness

C - NW - SE Sec. 19 Twp. 17 Rng. 24 X E
W

2080 Feet from SW (circle one) Line of Section

1980 Feet from SW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Schaben Well # 6-19

Field Name Kielman No

Producing Formation None

Elevation: Ground 2383 KB 2388

Total Depth 4358' PSTD _____

Amount of Surface Pipe Set and Cemented at 257.90 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/ _____ sk cnt.

Drilling Fluid Management Plan D&A JH 12-24-97
(Data must be collected from the Reserve Pit)

Chloride content 4,000 ppm Fluid volume 100 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. Rng. E/W

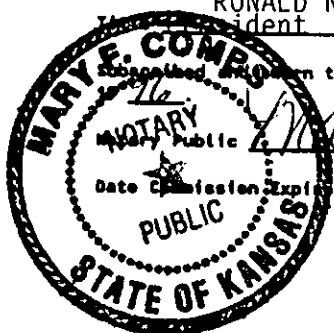
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 Ronald N. Sinclair
Ident _____ Date 11/19/96

Subscribed and sworn to before me this 19th day of November



Mary F. Combs
Notary Public
Date Commission Expires 8/25/00 (788)

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Form ACD-1 (7-91)

11-20-1996

ORIGINAL

SIDE TWO

Operator Name Grand Mesa Operating Co. Lease Name Schaben Well # 6-19

Sec. 19 Twp. 17 Rge. 24 East West
County Ness

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1644'	+744
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Base Anhydrite	1678'	+710
List All E.Logs Run:		Heebner	3698'	-1310
NONE		Lansing	3739'	-1351
		B/Kansas City	4028'	-1640
		Fort Scott	4239'	-1851
		Cherokee Shale	4266'	-1878
		Mississippi	4339'	-1951

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#	257.90		165	60/40 Poz; 2% Gel 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

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

Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
<u>D&A</u>					
Estimated Production Per 24 Hours	Oil <u>N/A</u> Bbls.	Gas <u>N/A</u> Mcf	Water <u>N/A</u> Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Coamingled

Production Interval _____



JOB LOG HAL-2013-C

CUSTOMER Grand mesa WELL NO. 6-19 LEASE schalben JOB TYPE PTA TICKET NO. 104123

START TIME RATE VOLUME PUMPS PRESSURE(PSI) DESCRIPTION OF OPERATION AND MATERIALS
NO. (BPM) (BBL)(GAL) TUBING CASING

6:45 ON Location
Rig pulling Pipe
Held safety meetings
ORIGINAL

19:52 3 3
18 3
19 Pump 3 BBL water
mix cement
Pump 1 BBL water
Pump 16 BBL mud
20:00 35 Shut down

20:40 3 26 28
900 FT 90 SK
Pump 3 BBL water
mix cement
Disp 2 BBL water
Shut down

2:00 3 18 19
300 FT 50 SK
Pump 3 BBL water
mix cement
Disp. 1 BBL
Shut down

2:05 3 1/2
40 FT 10 SK
mix push plug down 40 FT
mix cement
Shut down
Pump 5 BBL slurry
IN Rat Hole 15 SK
Pump 3 1/2 BBL slurry
IN Mouse Hole
wash up Truck
Rack up

Job Complete

Thank you fac-orig - Nick

STATE OF KANSAS RECEIVED
CONSERVATION DIVISION
Wichita, Kansas
11-13-96

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

9563

Well Name & No. Schaben # 6-19 Test No. 1 Date 11-12-96
 Company Grand Mesa Operating Company Zone Tested Mississippian
 Address 300 E. First Street Wichita, KS 67202 Elevation 2388 KB 2383 GL
 Co. Rep / Geo. Larry Friend Cont. Mallard # Est. Ft. of Pay Por. %
 Location: Sec. 19 Twp. 17^S Rge. 24^W Co. Neosho State KS.
 No. of Copies Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 4283 - 4350 Initial Str Wt./Lbs. 58000 Unseated Str Wt./Lbs. 60,000
 Anchor Length 67' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4278 Tool Weight 1,600
 Bottom Packer Depth 4283 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4350 Wt. Pipe Run Drill Collar Run XH 248'
 Mud Wt. 9.4 LCM Vis. 46 WL 9.2 Drill Pipe Size 4 1/2" XH Ft. Run 4045'
 Blow Description IF: Surface blow built to 4" @ 25 mins. decreased to 3"
ISI: No return.
FF: Weak return stayed steady @ 1/4" throughout.
FSI: No return.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP				
<u>338'</u>	<u>60'</u>	<u>248'</u>	<u>90'</u>	%gas	%oil	%water	%mud
Rec. <u>90'</u>	Feet Of <u>SGDCM</u>	<u>10</u>	%gas <u>15</u>	%oil <u> </u>	%water <u>75</u>	%mud <u> </u>	
Rec. <u>248'</u>	Feet Of <u>GDCM</u>	<u>25</u>	%gas <u>25</u>	%oil <u> </u>	%water <u>50</u>	%mud <u> </u>	
Rec. <u> </u>	Feet Of <u> </u>		%gas <u> </u>	%oil <u> </u>	%water <u> </u>	%mud <u> </u>	

BHT 116° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud	<u>2213</u>	<u>2158</u>	PSI	Recorder No. <u>13339</u>	T-Started <u>1705</u>
(B) First Initial Flow Pressure	<u>135</u>	<u>43</u>	PSI	(depth) <u>4245</u>	T-Open <u>1847</u>
(C) First Final Flow Pressure	<u>176</u>	<u>137</u>	PSI	Recorder No. <u>2341</u>	T-Pulled <u>2217</u>
(D) Initial Shut-in Pressure	<u>849</u>	<u>816</u>	PSI	(depth) <u>4285</u>	T-Out <u>0015</u>
(E) Second Initial Flow Pressure	<u>218</u>	<u>146</u>	PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>218</u>	<u>161</u>	PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure	<u>729</u>	<u>705</u>	PSI	Initial Opening <u>45</u>	Test <u> </u>
(H) Final Hydrostatic Mud	<u>2143</u>	<u>2120</u>	PSI	Initial Shut-in <u>60</u>	Jars <u> </u>
	<u>AK-1 / Alp.</u>			Final Flow <u>45</u>	Safety Joint <u>X</u>
				Final Shut-in <u>60</u>	Straddle <u> </u>
					Circ. Sub <u>X</u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elect. Rec. <u>X Demo.</u>
					Other <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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.

Approved By
 Our Representative Rod Steinkirk

TOTAL PRICE \$

RECEIVED
 STATE DEPARTMENT OF REVENUE
 DIVISION
 WICHITA, KANSAS
 11/16/96

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

9564

Well Name & No. Schaben #6-19 Test No. 2 Date 11-13-96
 Company Grand Mesa Operating Company Zone Tested Mississippian
 Address 200 E. First Street Wichita, KS 67202 Elevation 2388 KB 2383 GL
 Co. Rep / Geo. Larry Friend Cont. Mallard #2 Est. Ft. of Pay Por. %
 Location: Sec. 19 Twp. 17E Rge. 24W Co. Ness State KS
 No. of Copies Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 4341 - 4358 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 17' Wt. Set Lbs. 28,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4336 Tool Weight 1,800
 Bottom Packer Depth 4341 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4358 Wt. Pipe Run Drill Collar Run XII 216'
 Mud Wt. 9.4 LCM Vis. 46 WL 92 Drill Pipe Size 4 1/2" XH Ft. Run 4137' ~~4135'~~
 Blow Description IF: Weak surface blow built to 0"
ISI: No return blow.
FF: Surface blow stayed steady @ 1/4" throughout.
FSI: No return blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>60'</u> Feet Of <u>FO</u>	<u> </u>	<u>5</u> %gas <u>95</u> %oil	<u> </u> %water <u> </u> %mud
Rec. <u>90</u> Feet Of <u>GOCM</u>	<u> </u>	<u>5</u> %gas <u>15</u> %oil	<u> </u> %water <u>80</u> %mud
Rec. <u>60'</u> Feet Of <u>GOMCW</u>	<u> </u>	<u>5</u> %gas <u>10</u> %oil	<u>45</u> %water <u>40</u> %mud
Rec. <u>120'</u> Feet Of <u>MW</u>	<u> </u>	<u> </u> %gas <u> </u> %oil	<u>85</u> %water <u>15</u> %mud
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u> %gas <u> </u> %oil	<u> </u> %water <u> </u> %mud

BHT 122° °F Gravity 34 °API D@ 42° °F Corrected Gravity 35.8 °API
 RW .24 @ 70° °F Chlorides 30,000 ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud	<u>2183</u> <u>2191</u> PSI	Recorder No. <u>13339</u>	T-Started <u>0712</u>
(B) First Initial Flow Pressure	<u>52</u> <u>36</u> PSI	(depth) <u>4353</u>	T-Open <u>0854</u>
(C) First Final Flow Pressure	<u>104</u> <u>123</u> PSI	Recorder No. <u>2341</u>	T-Pulled <u>1223</u>
(D) Initial Shut-in Pressure	<u>829</u> <u>873</u> PSI	(depth) <u>4343</u>	T-Out <u>1430</u>
(E) Second Initial Flow Pressure	<u>135</u> <u>181</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>145</u> <u>161</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure	<u>799</u> <u>824</u> PSI	Initial Opening <u>45</u>	Test <u> </u>
(H) Final Hydrostatic Mud	<u>2153</u> <u>2161</u> PSI	Initial Shut-in <u>60</u>	Jars <u> </u>

AK-1 / Alp.

Final Flow 45 Safety Joint X
 Final Shut-in 60 Straddle
 Circ. Sub X NIC
 Sampler
 Extra Packer
 Elect. Rec. X
 Other
 TOTAL PRICE \$

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Approved By Larry Friend
 Our Representative Red Steinbrink

RECEIVED
 STATE CONSERVATION COMMISSION
 NOV 20 1996
 CONSERVATION DIVISION
 Wichita, Kansas