

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

**ORIGINAL**

**KCC**

Operator: License # 9855  
Name: Grand Mesa Operating Company **AUG 05 2004**  
Address: 200 E. First St., Ste 307  
City/State/Zip: Wichita, KS 67202  
Purchaser: NCRA  
Operator Contact Person: Ronald N. Sinclair  
Phone: (316) 265-3000  
Contractor: Name: Mallard JV., Inc. **AUG 06 2004**  
License: 4958  
Wellsite Geologist: Pat Deenihan **KCC WICHITA**

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Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  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. \_\_\_\_\_

06/05/04 06/12/04 06/12/04  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 195-22256-00-00  
County: Trego  
N/2 SW SW SE Sec. 21 Twp. 15 S. R. 22  East  West  
540 feet from S N (circle one) Line of Section  
2310 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Ruff Well #: 1-21  
Field Name: Wildcat

Producing Formation: Cherokee Sand  
Elevation: Ground: 2228' Kelly Bushing: 2233'  
Total Depth: 4300' Plug Back Total Depth: 4259'  
Amount of Surface Pipe Set and Cemented at 5 jts 8 5/8" @ 229 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.

**ALT II WITH 11-29-06**

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content N/A ppm Fluid volume 6800 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: James P. Reilly /JAMES P. REILLY

Title: Secretary Date: August 4, 2004

Subscribed and sworn to before me this 4th day of August

Notary Public: Phyllis E. Brewer

Date Commission Expires: July 21, 2007 316

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 Distribution  
**PHYLLIS E. BREWER**  
Notary Public - State of Kansas  
My Appt. Expires 7-21-07



Operator Name: Grand Mesa Operating Company Lease Name: Ruff Well #: 1-21  
 Sec. 21 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  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

DI Log/Dual Comp. Poro. Log/  
 Borehole Comp. Sonic Log

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Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Stone Corral	1583	+ 650
Heebner	3593	-1360
Lansing	3631	-1398
B/KC	3910	-1677
Pawnee	3987	-1754
Ft. Scott	4076	-1843
Cherokee Sd	4154	-1921
Mississippian	4208	-1975
Gilmore City	4244	-2011

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"	20#	229'	Common	165SX	2% Gel, 3% CC
Production	7 7/8"	5 1/2"	14#	4298'	AA-2	130 SX	10% Salt, 5% Calseal
							.8% FLA 322, .25 Cell Flake

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 type="checkbox"/> Plug Off Zone <input checked="" type="checkbox"/> <b>Protect fresh water</b>	0-1607	A-Con	250 SX	3% CC, .25 Cell Flake, 2% Calseal, 2% Metsolite beads

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
4	4154-4164	4 SPF, 32 gram exp. gun	
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		<b>KCC WICHITA</b>	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"	4229'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method			
July 13, 2004	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	125		0	

Disposition of Gas **METHOD OF COMPLETION** Production Interval **4154-64**

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
 (If vented, Submit ACO-18.)  Other (Specify) \_\_\_\_\_

# ALLIED CEMENTING CO., INC.

17905

20 15.  
.0652  
15.3374

Federal Tax I.D.# [REDACTED]

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

SERVICE POINT:

Mass City

DATE <u>6-5-04</u>	SEC. <u>21</u>	TWP. <u>15</u>	RANGE <u>22w</u>	CALLED OUT <u>11:00 am</u>	ON LOCATION <u>1:00 pm</u>	JOB START <u>3:15pm</u>	JOB FINISH <u>3:45pm</u>
LEASE <u>Ruff</u>	WELL # <u>1-21</u>	LOCATION <u>East of Brownell to Cedar Bluff</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			Rd north to m/m 2 - West + South into				

CONTRACTOR Mallard Drlg  
 TYPE OF JOB Surface Pipe  
 HOLE SIZE 12 1/4 T.D. 229  
 CASING SIZE 8 5/8 DEPTH 229  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. approx 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 14 BBls

OWNER Grand Mesa Oper.  
 CEMENT  
 AMOUNT ORDERED 165 sx common  
3% c/c + 2% gel

COMMON <u>165 net</u>	@	<u>7.65</u>	<u>1262.25</u>
POZMIX _____	@		
GEL <u>3 qt</u>	@	<u>11.00</u>	<u>33.00</u>
CHLORIDE <u>Salt</u>	@	<u>30.00</u>	<u>150.00</u>
ASC _____	@		
RECEIVED _____	@		
AUG 06 2004 _____	@		
KCC WICHITA _____	@		
HANDLING <u>173 net</u>	@	<u>1.25</u>	<u>216.25</u>
MILEAGE <u>173 net OS</u>	@	<u>20</u>	<u>173.00</u>
TOTAL			<u>1831.50</u>

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EQUIPMENT  
 PUMP TRUCK CEMENTER Jack  
 # 224 HELPER Jim  
 BULK TRUCK  
 # 342 DRIVER Don  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Run 5 jts of 8 5/8 csg - cement with  
165 sx cement - Displace plug with  
14 BBls of fresh water - Cement  
Did Circ.

Thanks

CHARGE TO: Grand Mesa Operating Co.  
 STREET 200 E. First St. Suite 307  
 CITY Wichita STATE KS ZIP 67202

SERVICE

DEPTH OF JOB <u>229'</u>			
PUMP TRUCK CHARGE _____			<u>570.00</u>
EXTRA FOOTAGE _____	@		
MILEAGE <u>20</u>	@	<u>4.00</u>	<u>80.00</u>
TOTAL			<u>600.00</u>

PLUG & FLOAT EQUIPMENT

MANIFOLD _____	@		
<u>1-8 5/8 Wood</u>	@	<u>45.00</u>	<u>45.00</u>
TOTAL			<u>45.00</u>

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]

lyle Juergens  
 PRINTED NAME



INVOICE NO.		Subject to Correction		<b>FIELD ORDER</b> 8678	
Date	6-12-04	Lease	Ruff	Well #	1-21
Customer ID		County	Trego	State	KS
Grand Mesa Oper Comp		Depth	D.V. @ 1607'	Formation	TP = 4300' 14ppf
		Casing	5 1/2	Casing Depth	4300
		Customer Representative	Dale Jewett	Treater	D. Scott
		TD	4303	Shoe Joint	44. -
		Job Type	Longstring New Well		

CHARGE

AFE Number \_\_\_\_\_ PO Number \_\_\_\_\_

Materials Received by **X Dale Jewett**

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D205	130ski	AA-2 Common				
D201	250ski	A-Con Common				
C195	99 Lbi	FLA-322				
C221	677 Lbi	Salt fine				
C194	90 Lbi	Cellflake				
C310	705 Lbi	Calcium Chloride				
C302	500 gali	mud flush				
F251	1 Cg	Stage Tool 5 1/2 in				
F101	16cu	Centralizers "				
F211	1 Cg	Float Shoe "				
F181	1 Cg	L.D. Plug & Baffle "				
F121	1 Cg	Cmt Basket				
F292	15 Cg	Rotating Scratchers 75 ft				
E100	1 Cg	Trk mi / way 120 mi				
E107	380ski	Cmt Serv Chg				
E104	2148+m	Bulk Delv Chg				
R209	1 Cg	Pump Charge				
E101	1 Cg	Pickup mi / way 120 mi				
R701	1 Cg	Cmt Head Rental				
R702	1 cu	Csg Swivel				
				DISCOUNTED PRICE = 15,198.20		

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# TREATMENT REPORT

Customer ID		Date	
Customer Grand Mesa Oper		6-12-04	
Lease Ruff	Lease No.	Well # 1-21	

Field Order # 8678	Station Pratt KS	Casing 5 1/2	Depth 4300	County Trego	State KS
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Type Job Longstring new well	Formation	Legal Description 21-155-22w
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PIPE DATA		PERFORATING DATA		1st FLUID USED		TREATMENT RESUME		
Casing Size 3 1/2	Tubing Size P87D	Shots/Ft 1.44	ppg 15.0	Acid 130 ski AA-2 1090 Salt	Rate	Press 2000	ISIP	
Depth 4236	Depth P87D	From	To	Pre Pad 8% FLA-322 14 C.F.	Max	5 Min.		
Volume 103.8	Volume	From	To	Pad 2nd stage	Min	10 Min.		
Max Press 2000	Max Press	From 2.8	To 11.8	Frac 250 ski A-Con 390 C.F.	Avg 14 C.F.	15 Min.		
Well Connection	Annulus Vol. D.V. @ 1607'	From	To	Flush 12 Bbli mud flush	HHP Used	Annulus Pressure		
Plug Depth	Packer Depth	From	To		Gas Volume	Total Load		

Customer Representative Dale Jewitt	Station Manager Dave Autry	Treater D. Scott
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Service Units	118	46	57	38	76
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Notes
2400					Bottom Stage Service Log Page 1 of 2 On Loc w/ Trki Safety mtg
					<b>KCC</b> AUG 05 2004 <b>CONFIDENTIAL</b>
0404	200		5	5	H2O Spacer
0405	200		12	5	St mud flush
0408	200		5	5	H2O spacer
0416	300		33.3	4.5	mix cmt @ 15.0 ppg 130 ski
0425	Ø		10	5	Close In + Wash Pump/line
0428	100		64.6	6.8	Load 1st Stage L.D. Plug
0435	100		39.2	5.0	St Disp w/H2O
0443	300		85.0	5.0	85 Bbli Disp out Lift Cmt
0446	1250		103.8	Ø	Plug Down 2psi Test Csg
0448	Ø				Release psi float held
					Good Circ Thru Job
					Rotated Csg During Job
					Continued next page

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# TREATMENT REPORT

Customer ID		Date	
Customer <i>Grand Mesa Oper</i>		<i>6-12-04</i>	
Lease <i>Ruff</i>		Lease No.	Well # <i>1-21</i>

Field Order # <i>8678</i>	Station	Casing	Depth	County	State
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Type Job	Formation	Legal Description
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PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

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Customer Representative	Station Manager	Treater
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Service Units								
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Notes
					2nd Stage Service Log Page 2 of 2
<i>0455</i>					<i>Drop Opening Device</i>
<i>0500</i>	<i>800</i>		<i>2</i>	<i>1</i>	<i>Open Stage Tool</i>
					<i>Circ w/ Rig 2 hrs</i>
<i>0753</i>	<i>200</i>		<i>5</i>	<i>5</i>	<i>H2O Spacer</i>
<i>0764</i>	<i>200</i>		<i>134</i>	<i>4.5</i>	<i>Mix Cmt @ 11.8 ppg 250 ski</i>
					<del><i>Close in &amp; Wash Pump &amp; Line</i></del>
<i>0723</i>	<i>100</i>			<i>5.0</i>	<i>Release Closing Plug</i>
<i>0723</i>	<i>100</i>			<i>5.0</i>	<i>St Disp w/H2O</i>
<i>0734</i>	<i>1500</i>		<i>39.2</i>	<i>0</i>	<i>Plug Down + psi Test Close Tool</i>
<i>0735</i>	<i>0</i>				<i>Release psi Held</i>
					<i>Circ 8 Bbli cmt = 17 ski!</i>
					<i>Good Circ Thru Job</i>
					<i>Jet @ 15 min Good Cmt</i>
					<i>Plug R.H. &amp; M.H. w/ 10ski A-Pon</i>
					<i>Job Complete</i>
					<i>Thank you</i>
					<i>Scotty</i>

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STATE CORPORATION COMMISSION OF KANSAS, CONSERVATION DIVISION

PRODUCTIVITY TEST  
BARREL TEST

OPERATOR Grand Mesa Operating Co. LOCATION OF WELL 490FSL-2310FEL  
 LEASE 1-21 Ruff OF SEC. 21 T 15 R 22  
 WELL NO. 1-21 COUNTY Lea  
 FIELD \_\_\_\_\_ PRODUCING FORMATION Cherokee Sand  
 Date Taken 7-21-04 Date Effective 7-21-04  
 Well Depth 4303' Top Prod. Form 4154 Perfs 4154-64  
 Casing: Size 5 1/2" Wt. 14# Depth 4298 Acid \_\_\_\_\_  
 Tubing: Size 2 3/8" Depth of Perfs \_\_\_\_\_ Gravity 3.5  
 Pump: Type RWTC Bore 2" x 1 1/2" x 14" Purchaser NCRB  
 Well Status Pumping  
 Pumping, flowing, etc.

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TEST DATA

Permanent \_\_\_\_\_ Field \_\_\_\_\_ Special \_\_\_\_\_  
 Flowing \_\_\_\_\_ Swabbing \_\_\_\_\_ Pumping \_\_\_\_\_

STATUS BEFORE TEST:

PRODUCED CONFIDENTIAL HOURS

SHUT IN \_\_\_\_\_ HOURS

DURATION OF TEST \_\_\_\_\_ HOURS 11 MINUTES 35 SECONDS

GAUGES: WATER \_\_\_\_\_ INCHES \_\_\_\_\_ PERCENTAGE

OIL \_\_\_\_\_ INCHES \_\_\_\_\_ PERCENTAGE

GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) 125

WATER PRODUCTION RATE (BARRELS PER DAY) 0

OIL PRODUCTION RATE (BARRELS PER DAY) 125 PRODUCTIVITY

STROKES PER MINUTE 5 3/4"

LENGTH OF STROKE 86 INCHES

REGULAR PRODUCING SCHEDULE 24 HOURS PER DAY.

COMMENTS \_\_\_\_\_

WITNESSES:

Michael J. Maier  
FOR STATE

Don Winter  
FOR OPERATOR

FOR OFFSET

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