

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**

Operator: License # 33138  
Name: Meritage KCM Exploration, LLC  
Address: 1600 Broadway, Suite 1360  
City/State/Zip: Denver, Colorado 80202  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Jeff Vaughan  
Phone: (303) 832-7463  
Contractor: Name: MOKAT  
License: 5831  
Wellsite Geologist: Larry Weis

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. \_\_\_\_\_

9-23-03	9-24-03	10-29-03
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 003-24228-00-00  
County: Anderson  
NE NE Sec. 27 Twp. 19 S. R. 19  East  West  
800 feet from S N (circle one) Line of Section  
800 feet from E / W (circle one) Line of Section

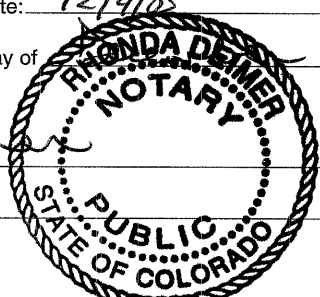
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Buzzard Well #: 27-41  
Field Name: FCBCA  
Producing Formation: Cherokee Coals  
Elevation: Ground: 975' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1189' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 20 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**  
(Data must be collected from the Reserve Pit) *Act II With 4-25-07*  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: **RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: **DEC 09 2003**  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. \_\_\_\_\_ East West  
County: \_\_\_\_\_ Docket No.: **CONSERVATION DIVISION WICHITA, KS**

**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: Larry Weis  
Title: Production Mgr. Date: 12/4/03  
Subscribed and sworn to before me this 4th day of \_\_\_\_\_, 2003  
Notary Public: Pranda Deimer  
Date Commission Expires: 2-18-2005



**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: Meritage KCM Exploration, LLC Lease Name: Buzzard Well #: 27-41  
 Sec. 27 Twp. 19 S. R. 19  East  West County: Anderson

**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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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 <i>(Submit Copy)</i>  List All E. Logs Run:  High Resolution Compensated Density Neutron Dual Induction SFL/GR Gamma Ray Neutron CCL	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Log Name</th> <th style="text-align: left;">Formation (Top), Depth and Datum</th> <th style="text-align: left;">Sample Datum</th> </tr> </thead> <tbody> <tr> <td>Mulberry</td> <td>640</td> <td>+335</td> </tr> <tr> <td>Little Osage Shale</td> <td>720</td> <td>+255</td> </tr> <tr> <td>Fleming</td> <td>863</td> <td>+112</td> </tr> <tr> <td>Scammon</td> <td>911</td> <td>+64</td> </tr> <tr> <td>Weir Pitt</td> <td>929</td> <td>+46</td> </tr> </tbody> </table>	Log Name	Formation (Top), Depth and Datum	Sample Datum	Mulberry	640	+335	Little Osage Shale	720	+255	Fleming	863	+112	Scammon	911	+64	Weir Pitt	929	+46
Log Name	Formation (Top), Depth and Datum	Sample Datum																	
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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"	32#	20'	Portland	4	
Production	7-7/8"	5-1/2"	17#	1185'	Thick Set	165	8# Coal Seal/sk
							1/8# Flocele/sk

ADDITIONAL CEMENTING / SQUEEZE RECORD				RECEIVED KANSAS CORPORATION COMMISSION Type and Percent Additives <b>DEC 09 2003</b> CONSERVATION DIVISION WICHITA, KS
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	
<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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	639' - 642'	Broke down perms with 15% HCl acid.	
4	818' - 820'	Frac w/ 2,147 bbls water and 37,530#	
4	832' - 834'	10/20 sand.	
4	863' - 865'		
4	879' - 881'		

TUBING RECORD		Size	Set At	Packer At	Liner Run	Yes	<input checked="" type="checkbox"/> No
		2-7/8"	1150'	N/A			
Date of First, Resumed Production, SWD or Enhr.		Producing Method					
De-watering		Flowing		<input checked="" type="checkbox"/> Pumping		Gas Lift Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

*(If vented, Sumit ACO-18.)*

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KANSAS CORPORATION COMMISSION

DEC 09 2003

CONSERVATION DIVISION  
WICHITA, KS

Meritage KCM Exploration, LLC  
Buzzard 27-41  
Section 27-T19S-R19E  
Anderson County

<b>Shots Per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Cement Squeeze Record</b>	<b>Depth</b>
4	899.5' – 901.5'	fracture	
4	910.5' – 912.5'	fracture	
4	1029' – 1031'	fracture	
4	1067' – 1069'	fracture	
4	1101.5' – 1104'	fracture	
4	1108' – 1110.5'	fracture	
4	1114' – 1116'	fracture	
4	1130' – 1132.5'	fracture	

Air Drilling  
Specialist  
Oil and Gas Wells



**M.O.K.A.T. DRILLING**  
Office Phone: (620) 879-5377



P.O. Box 560  
Caney, KS 67333

P.4

Operator	MERITAGE KCM EXPLORATION LLC	Well No.	27-41	Lease	BUZZARD	Loc.	1/4	1/4	1/4	Sec.	27	Twp.	19	Rge.	19E
		County	ANDERSON	State	KS	Type/Well		Depth	1189'	Hours		Date Started	9-23-03	Date Completed	9-24-03

Job No.	Casing Used 20' 3" OF 8 5/8"	Bit Record					Coring Record								
		Bit No.	Type	size	From	To	Bit No.	type	Size	From	To	% Rec.			
Driller	Cement Used			7 7/8"											
Driller	Rig No. 1														
Driller	Hammer No.														

**Formation Record**

From	To	Formation	From	To	Formation	From	To	Formation	From	To	Formation
0	3	OVERBURDEN	578	583	SANDY SHALE	913	922	RED SHALE			
3	5	LIME	583	600	LIME	922	952	GREY SHALE			
5	8	SHALE	600	606	SANDY LIME	952	975	SAND WATER			
8	51	LIME	606	610	SAND / SANDY SHALE	975	1046	SHALE			
51	60	SANDY SHALE / SHALE	610	643	SANDY SHALE	1046	1048	COAL			
60	212	SHALE	643	645	COAL	1048	1071	SHALE			
212	214	LIME	645	648	SHALE	1071	1073	COAL			
214	216	SHALE	648	660	LIME	1073	1104	SHALE			
216	235	LIME	660	673	SHALE	1104	1107	COAL			
235	251	SHALE	673	675	LIME	1107	1113	SHALE			
251	252	COAL	675	678	BLACK SHALE / COAL	1113	1115	COAL			
252	258	SHALE	678	700	GREY SANDY SHALE/SAND	1115	11132	SHALE			
258	260	LIME	700	720	SHALE	1132	1133	COAL			
260	302	SHALE	720	724	LIME	1133	1150	SHALE			
302	316	LIME	724	726	LIMEY SHALE	1150	1189	LIME MISSISSIPPI			
316	325	SHALE	726	727	BLACK SHALE / COAL						
325	355	LIME WATER	727	740	GREY SHALE			T D 1189'			
355	358	GREY SHALE	740	745	BLACK SHALE						
358	362	BLACK SHALE	745	820	GREY SHALE						
362	369	GREY SHALE	820	821	BLACK SHALE / COAL						
369	391	LIME	821	834	GREY SHALE						
391	396	BLACK SHALE	834	836	COAL						
396	398	LIME	836	862	GREY SHALE						
398	400	SHALE	862	864	COAL						
400	408	LIME	864	878	SHALE						
408	450	SHALE	878	881	COAL						
450	465	SAND WATER	881	885	GREY SHALE						
465	475	SANDY SHALE	885	887	COAL						
475	573	SHALE	887	903	GREY SHALE						
573	575	BLACK SHALE	903	904	COAL						
575	578	LIME	904	913	GREY SHALE						

16208795751

MOKAT Drilling

Sep 30 03 11:00a

CONSERVATION DIVISION  
WICHITA KS

DEC 09 2003

RECEIVED  
KANSAS CORPORATION COMMISSION

OCT 21 2003

**BLUE STAR  
ACID SERVICE, INC.**

PO. Box 103  
Eureka, Kansas 67045

Cementing Ticket  
and Invoice Number

**Nº 4972**

Date <b>10-1-03</b>	Customer Order No.	Sect	Twp.	Range	Truck Called Out <del>1830</del>	On Location <b>12:45 pm</b>	Job Began <b>1:30 pm</b>	Job Completed <b>5:00 pm</b>
Owner <b>Meritage KCM Exploration</b>		Contractor <b>Hurricane Well Serv</b>			Charge To <b>Meritage KCM Exploration</b>			
Mailing Address <b>115 North Oak</b>		City <b>Garnett</b>			State <b>Ks. 66032</b>			
Well No. & Form <b>Buzzard 27-41</b>		Place <b>Anderson</b>			County <b>Anderson</b>			
Depth of Well <b>1189'</b>		Depth of Job <b>1185'</b>		Casing (New) Size <b>5 1/2"</b>	Size of Hole Amt. and Kind of Cement <b>7 1/2" 165 SKS.</b>	Cement Left in casing by	Request Necessity <b>6'</b> feet	
Kind of Job <b>Longstring &gt; P.B.T.D. 1179'</b>		Drillpipe		Tubing		Truck No. <b>#25</b>		

Price Reference No.	
Price of Job	<b>665.00</b>
Second Stage	
Mileage	<b>N/C</b>
Other Charges	
Total Charges	<b>665.00</b>

Remarks **Safety Meeting: Rig up to casing, wash casing to 1189'**  
**Pumped 400lbs Gel Flush, circulate on well for 30 mins to**  
**condition hole shutdown - cut off casing & weld on collar**  
**set pipe at 1185' (4' off bottom). Rig up Cement Head - Drop ball**  
**to set insert. Pumped 18 Bbls Dye water Mixed 165 SKS Thickset**  
**cement w/ KOL-SEAL & 1/2" 1/2" & Floccula Yell 1/2" SK**  
**(First 80 SKS at 12.5 lb P/GAL, Tailend with 85 SKS at 13.4 lb P/GAL)**  
**Shutdown - wash out pump & lines - Release Plug**  
**Displace Plug with 2 7/8 Bbls Biocide water at 2 RPM.**  
**Final pumping at 600 PSI - Pumped Plug to 1000 PSI**  
**check float - float held - close in 10 PSI - Good cement to top 2 Bbl slurry = 25 SK**

Cementer **Brad Butter**  
 Helper **Troy - Jim - John**

District **Eureka** State **Kansas**  
 Agent of contractor or operator **Mary Anne**

The above job was done under supervision of the owner, operator, or his agent whose signature appears below.

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 WICHITA, KS