

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

CONFIDENTIAL

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. \_\_\_\_\_

<u>10-07-03</u>	<u>10-08-03</u>	<u>10-13-03</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 003-24234-00-00  
County: Anderson  
NE NE Sec. 34 Twp. 19 S. R. 19  East  West  
990 feet from S / N (circle one) Line of Section  
860 feet from E / W (circle one) Line of Section

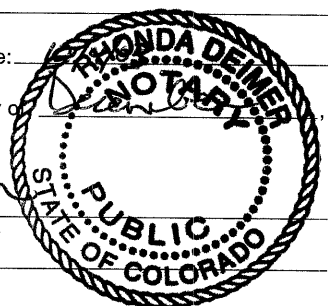
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Lankard Well #: 34-41  
Field Name: FCBCA  
Producing Formation: Cherokee Coals  
Elevation: Ground: 992' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1215' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 22 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 of W&W 4-28-07*  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. S DEC 09 2003 East West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_  
KANSAS CORPORATION COMMISSION  
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: [Handwritten Signature]  
Title: Production MGR Date: \_\_\_\_\_  
Subscribed and sworn to before me this 4th day of \_\_\_\_\_  
2003  
Notary Public: Pronda 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

X

Operator Name: Meritage KCM Exploration, LLC Lease Name: Lankard Well #: 34-41  
 Sec. 34 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Log	Formation (Top), Depth and Datum	Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	Yes <input checked="" type="checkbox"/> No	Mulberry	668	+324
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Anna Shale	702	+290
List All E. Logs Run:		Mulky	777	+215
High Resolution Compensated Density Neutron		Bevier	849	+136
Dual Induction SFL/GR		Fleming	892	+100
Gamma Ray Neutron CCL				

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#	22'	Portland	4	
Production	7-7/8"	5-1/2"	17#	1211'	Thick Set	185	8# Kol Seal/sk

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				

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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	382' - 385'	Frac with 1,014 bbls Lightning 15 Gel and	
4	418' - 421'	99,200# 10/20 sand.	
4	595' - 597'		
4	668' - 670'		
4	702' - 704'		

TUBING RECORD		Size	Set At	Packer At	Liner Run	Yes	<input checked="" type="checkbox"/> No
		2-7/8"	1182'	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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Meritage KCM Exploration, LLC  
Lankard 34-41  
Section 34-T19S-R19E  
Anderson County

<b>Shots Per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Cement Squeeze Record</b>	<b>Depth</b>
4	751' - 753'	fracture	
4	777' - 779'	fracture	
4	850' - 852'	fracture	
4	863' - 865.5'	fracture	
4	891' - 893'	fracture	
4	905.5' - 907.5'	fracture	
4	954' - 956'	fracture	
4	1077' - 1079'	fracture	
4	1111' - 1114'	fracture	
4	1118' - 1120'	fracture	
4	1123' - 1125'	fracture	
4	1139' - 1141'	fracture	

Air Drilling  
Specialist  
Oil and Gas Wells



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



P.O. Box 590  
Caney, KS 67333

Operator <b>MERITAGE KCM EXPLORATION LLC</b>		Well No. <b>34-41</b>	Lease <b>LANKARD</b>	Loc. <b>1/4 1/4 1/4</b>	Sec. <b>34</b>	Twp. <b>19</b>	Rge. <b>19E</b>					
County <b>ANDERSON</b>		State <b>KS</b>	Type/Well	Depth <b>1215'</b>	Hours	Date Started <b>10-07-03</b>	Date Completed <b>10-08-03</b>					
Job No.	Casing Used <b>22' 3" OF 8 5/8"</b>	Bit Record			Coring Record							
Driller <b>TOOTIE</b>	Cement Used	Bit No.	Type	size	From	To	Bit No.	type	Size	From	To	% Rec.
Driller	Rig No. <b>1</b>			<b>7 7/8"</b>								
Driller	Hammer No.											

**Formation Record**

From	To	Formation	From	To	Formation	From	To	Formation	From	To	Formation
0	7	OVERBURDEN	435	450	SANDY SHALE / SAND	846	848	COAL ?			
7	10	LIME	450	475	SHALE	848	851	SHALE			
10	21	SAND	475	495	SANDY SHALE / SAND	851	854	COAL ?			
21	23	LIME	495	500	SHALE	854	890	SHALE			
23	25	BLACK SHALE / COAL	500	510	SAND	890	893	COAL ?			
25	33	LIME	510	530	SANDY SHALE	893	972	SHALE			
33	41	SHALE	530	565	SHALE	972	975	COAL			
41	68	LIME	565	595	SANDY SHALE / SAND	975	995	SANDY / SANDY SHALE			
68	82	SHALE	595	597	BLACK SHALE	995	998	COAL			
82	84	LIME	597	603	SANDY SHALE	998	1020	GREY SHALE			
84	90	SHALE	603	608	LIME	1020	1024	COAL / BLACK SHALE			
90	91	LIME	608	614	SHALE	1024	1037	GREY SHALE			
91	232	SHALE / SANDY SHALE	614	623	LIME	1037	1039	COAL OR BLACK SHALE			
232	257	LIME	623	626	BLACK SHALE	1039	1077	GREY SHALE			
257	278	SANDY SHALE / SHALE	626	628	SHALE	1077	1079	COAL / BLACK SHALE			
278	286	LIME	628	669	SANDY SHALE	1079	1111	GREY SHALE			
286	288	SHALE	669	672	COAL / BLACK SHALE	1111	1114	COAL			
288	290	COAL	672	676	SHALE	1114	1120	GREY SHALE			
290	324	SANDY SHALE / SHALE	676	680	LIME	1120	1125	BLACK SHALE / COAL			
324	341	LIME	680	699	SHALE	1125	1131	GREY SHALE			
341	348	SHALE	699	703	LIME	1131	1135	SAND			
348	378	LIME	703	721	SHALE	1135	1137	COAL			
378	384	SHALE	721	739	LIME	1137	1152	SHALE			
384	386	BLACK SHALE / COAL	739	745	BLACK SHALE	1152	1159	LIME / SAND MISSISSIPPI			
386	392	SANDY SHALE	745	748	GREY SHALE	1159	1215	LIME			
392	417	LIME	748	754	LIME / LIMEY SHALE						
417	420	SHALE	754	760	BLACK SHALE			T.D. 1215'			
420	423	BLACK SHALE / COAL	760	778	GREY SHALE						
423	426	LIME	778	782	BLACK SHALE						
426	427	SHALE	782	790	SAND						
427	435	LIME	790	846	SHALE						

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**BLUE STAR  
ACID SERVICE, INC.**

PO Box 103  
Eureka, Kansas 67045

Cementing Ticket  
and Invoice Number

**No 5017**

Date 11-2-03	Customer Order No.	Sec.	Twp.	Range	Truck Called Out	On Location 10:45am	Job Began 11:30am	Job Completed 2:45pm
Owner Meritage KCM Explorations		Contractor Hurricane Well Serv.			Charge To Meritage KCM Explorations			
Mailing Address 115 North Oak		City Garnett			State Ks. 66032			
Well No. & Form Lookheed 34-41		Place		County Anderson		State Kansas		
Depth of Well 1215	Depth of Job 1203	Casing (New) Size 5 7/8" (Used) Weight 19 lb	Size of Hole Amt. and Kind of Cement 165 sks		Cement Left in casing by		Request (Necessity) 6 feet	
Kind of Job Longstring > PBTD 1197'					Drillpipe		Rotary Cable	
					Tubing		Truck No. #25	

Price Reference No. \_\_\_\_\_  
 Price of Job 665.00  
 Second Stage \_\_\_\_\_  
 Mileage M/L  
 Other Charges \_\_\_\_\_  
 Total Charges 665.00

Remarks Safety Meeting: Rig up to casing, wash casing down to 1204'  
Pumped 300 lbs Gel Flush, circulate gel around to condition hole  
Rig up cement Head, Drop ball to Trip Tasset, Pumped 18 Bbls Dry water  
Mixed 165 sks Thick Set cement w/ KOL-SEAL 8# PVSK  
(First 30 sks at 12.5 lb PV/GAL, Tailend w/ 135 sks at 13.4 lb PV/GAL)  
Shutdown, washout Pump & Lines, Release Plug  
Displace Plug with 27 3/4 Bbls. Circulate water at 2 BPM  
Final pumping at 650 PST - Pumped Plug to 1100 PST  
Check Float - Float Hold - Close casing in w/ 0 PSI  
Good cement returns to Surface w/ 9 Bbl slurry = 29 sks cement  
Job complete - Tear down

Cementer Brad Butler  
 Helper Rick - Troy - John  
 District Eureka State Kansas  
 The above job was done under supervision of the owner, operator, or his agent whose signature appears below.  
Brad Butler  
 Agent of contractor or operator

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