

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>10-04-03</u>	<u>10-07-03</u>	<u>10-10-03</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 003-24231-00-00
County: Anderson
_____ - _____ - nw - ne Sec. 34 Twp. 19 S. R. 19 East West
990 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: Lankard Well #: 34-31
Field Name: FCBCA

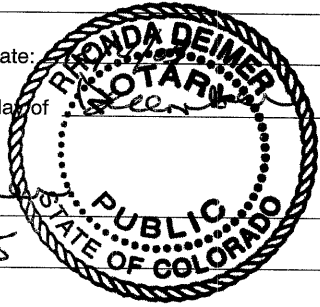
Producing Formation: Cherokee Coals
Elevation: Ground: 992' Kelly Bushing: _____
Total Depth: 1220' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 20 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) *ALT II WWM 4-25-07 RECEIVED*
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: DEC 09 2003
Operator Name: _____ CONSERVATION DIVISION
Lease Name: _____ WICHITA, KS 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]
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

Operator Name: Meritage KCM Exploration, LLC Lease Name: Lankard Well #: 34-31
 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 (Attach Additional Sheets) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 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 (Submit Copy) List All E. Logs Run: High Resolution Compensated Density Neutron Dual Induction SFL/GR Gamma Ray Cement Bond/VDL CCL	Log Formation (Top), Depth and Datum Sample Name Top Datum Mulberry 663 +329 Anna Shale 697 +295 Mulky 772 +220 Bevier 840 +152 Fleming 884 +108
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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#	1211'	Thick Set	165	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
		Amount	Kind	
4	381.5' - 383.5'	Broke down perms with 15% HCl acid.		
4	411' - 413.5'	Frac w/ 1,870 bbls water and 42,700#		
4	589' - 591'	10/20 sand.		
4	662.5' - 665.5'			
4	697' - 699'			

CONSERVATION DIVISION
 WICHITA, KS

TUBING RECORD		Size	Set At	Packer At	Liner Run	Yes	<input checked="" type="checkbox"/> No
		2-7/8"	1139'	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 34-31
Section 34-T19S-R19E
Anderson County

Shots Per Foot	Perforation Record	Acid, Fracture, Cement Squeeze Record	Depth
4	745.5' – 747.5'	fracture	
4	769' – 771'	fracture	
4	840' – 842'	fracture	
4	884' – 886'	fracture	
4	898' – 900'	fracture	
4	1038' – 1040'	fracture	
4	1050.5' – 1052.5'	fracture	
4	1076.5' – 1078.5'	fracture	
4	1110' – 1113'	fracture	
4	1115.5' – 1118.5'	fracture	
4	1120.5' – 1122.5'	fracture	
4	1124' – 1126'	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 **MERITAGE KCM EXPLORATION LLC** Well No. **34-31** Lease **LANKARD** Loc. **1/4 1/4 1/4** Sec. **34** Twp. **19** Rge. **19E**

County **ANDERSON** State **KS** Type/Well _____ Depth **1220'** Hours _____ Date Started **10-04-03** Date Completed **10-07-03**

Job No.	Casing Used 20' OF 8 5/8"	Bit Record						Coring Record						
		Bit No.	Type	size	From	To	Bit No.	type	Size	From	To	% Rec.		
Driller TOOTIE	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	8	OVERBURDEN	429	432	SHALE	1078	1110	SHALE			
8	20	LIME	432	445	SAND	1110	1113	COAL			
20	24	BLACK SHALE	445	457	SANDY SHALE	1113	1152	SHALE / SANDY SHALE			
24	32	LIME	457	477	SAND	1152	1220	LIME MISSISSIPPI			
32	43	SHALE	477	495	SAND / SANDY SHALE						
43	72	LIME	495	602	SANDY SHALE			T.D. 1220'			
72	83	SHALE	602	604	LIME						
83	84	LIME	604	610	SANDY SHALE						
84	90	SHALE	610	619	LIME						
90	120	SANDY SHALE / SAND	619	622	SHALE						
120	220	SANDY SHALE / SHALE	622	624	LIME						
220	254	LIME	624	663	SANDY SHALE / SAND						
254	258	SHALE	663	666	COAL						
258	259	BLACK SHALE	666	672	SHALE						
259	271	GREY SHALE	672	678	LIME						
271	272	COAL	678	682	SHALE						
272	277	SANDY SHALE / SAND	682	686	LIME						
277	285	LIME	686	695	SHALE						
285	295	RED SHALE	695	698	LIME						
295	323	GREY SHALE	698	702	BLACK SHALE						
323	337	LIME	702	730	GREY SHALE						
337	341	SHALE	730	747	LIME / SHALE						
341	378	LIME	747	752	BLACK SHALE						
378	381	SANDY SHALE	752	757	LIME						
381	384	BLACK SHALE	757	765	LIMEY SHALE / LIME						
384	390	SANDY SHALE	765	884	SHALE						
390	410	LIME	884	885	COAL						
410	415	BLACK SHALE	885	980	SHALE						
415	419	GREY SHALE	980	1005	SAND / SANDY SHALE						
419	428	LIME	1005	1076	SHALE						
428	429	BLACK SHALE	1076	1078	COAL / BLACK SHALE						

CONSERVATION DIVISION
WICHITA, KS

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OCT 21 2003

BLUE STAR ACID SERVICE, INC.

PO Box 103
Eureka, Kansas 67045

Cementing Ticket
and Invoice Number

Nº 5016

Date <u>10-8-03</u>	Customer Order No.	Sec.	Twp.	Range	Truck Called Out	On Location <u>10:30 AM</u>	Job Began <u>10:45 AM</u>	Job Completed <u>12:15 PM</u>
Owner <u>Mor. Tays KCM Exploration</u>			Contractor <u>Harrison's Well Serv</u>			Charge To <u>Mor. Tays KCM Exploration</u>		
Mailing Address <u>115 North Oak</u>			City <u>Garnett</u>			State <u>Ks. 66032</u>		
Well No. & Form <u>Lon Kard 31</u>		Place <u>74-X</u>		County <u>Anderson</u>		State <u>Kansas</u>		
Depth of Well <u>1320'</u>	Depth of Job <u>1217'</u>	Casing (New) (Used)	Size <u>5 1/2"</u>	Weight <u>17lb</u>	Size of Hole Amt. and Kind of Cement <u>165 sks</u>	Cement Left in casing by	Request Necessity <u>6</u> feet	
Kind of Job <u>Logging > PBTD 1211'</u>			Drillpipe		(Rotary) Cable		Truck No. <u>#25</u>	

Price Reference No. _____
 Price of Job 665.00
 Second Stage _____
 Mileage n/c
 Other Charges _____
 Total Charges 665.00

Remarks Safety Meeting: Rig up to casing, wash casing down to 1215'
Pumped 300 lbs Gel Flush, circulate Gel around to condition hole
Rig up cement Head, Drop ball to Trip Tasset, Pumped 18 Bbls Dye cement
Mixed 165 sks Thick set cement w/ KOL-SEAL 8# water
(First 80 sks at 12-5 1/2" hole, 85 sks at 13-9 1/2" hole)
Shut down, washout pump & lines - Release Plug
Displace Plug with 28 Bbls Brine water at 280PM
Final pumping at 650 PSI - Bumped Plug to 1100 PSI
check float - float held - close casing w/ 0 PSI
Good cement returns to surface w/ 10 Bbl slurry = 32 sks cement
Job complete - hard down

Cementer Brad Butler
 Helper Rick Troy - Jim 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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