

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

KCC

MAY 06 2003

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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>1-15-03</u>	<u>1-17-03</u>	<u>4-1-03</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 107-23695-00-00
County: Linn
 - - - - Sec. 13 Twp. 22 S. R. 21 East West
330 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: Weber Well #: 13-24
Field Name: Critzer
Producing Formation: _____
Elevation: Ground: 975' Kelly Bushing: _____
Total Depth: 880' Plug Back Total Depth: 870'
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 ALT II WHM 2-7-07
(Data must be collected from the Reserve Pit)
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. 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: _____
Title: VP, Project Development Date: 5-6-03
Subscribed and sworn to before me this 6th day of May, 2003
Notary Public: Rhonda 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

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Side Two

ORIGINAL

Operator Name: Meritage KCM Exploration, LLC Lease Name: Weber Well #: 13-24
 Sec. 13 Twp. 22 S. R. 21 East West County: Linn

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	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Log</th> <th style="text-align: left;">Formation (Top), Depth and Datum</th> <th style="text-align: left;">Sample</th> </tr> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Altamont Lime</td> <td>296</td> <td>+679</td> </tr> <tr> <td>Excello Shale</td> <td>474</td> <td>+501</td> </tr> <tr> <td>Bevier</td> <td>547</td> <td>+428</td> </tr> <tr> <td>Rowe</td> <td>766</td> <td>+209</td> </tr> <tr> <td>Riverton</td> <td>794</td> <td>+181</td> </tr> </tbody> </table> <p style="text-align: center; font-size: 2em; font-weight: bold; margin-top: 10px;">KCC MAY 06 2003 CONFIDENTIAL</p>	Log	Formation (Top), Depth and Datum	Sample	Name	Top	Datum	Altamont Lime	296	+679	Excello Shale	474	+501	Bevier	547	+428	Rowe	766	+209	Riverton	794	+181
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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#	22'	Portland	4	
Production	7-7/8"	5-1/2"	15.5#	876'	Thick Set	120	8# Gilsonite/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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	361'-364'	250 gallons 15% Fe HCl w/1% KCl water	
4	397'-399'	treated w/biocide. .25 ppg sand 20/40.	
4	427.5'-429.5'		
4	459.5'-462.5'		
4	476'-481'		

TUBING RECORD	Size 2-7/8"	Set At 797'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. De-watering		Producing Method <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

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled _____
(If vented, Sumit ACO-18.) Other (Specify) _____

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Meritage KCM Exploration, LLC
Weber 13-24
Section 13-T22S-R21E
Linn County

KCC

MAY 06 2003

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Shots Per Foot	Perforation Record	Acid, Fracture, Cement Squeeze Record	Depth
4	548'-550'	250 gallons 15% FE HCl w/1% KCl water treated w/biocide. .25 ppg sand 20/40.	
4	569'-573'		
4	579.5'-581.5'		
4	629'-630.5'		
4	679'-681'		
4	765.5'-767.5'		
4	794.5'-797'		

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

16208795751

MOKAT Drilling

Apr 17 03 07:59P

ORIGINAL

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Operator MERITAGE	Well No. 13-24	Lease WEBER	Loc. 1/4 1/4 1/4	Sec. 13	Twp. 22	Rge. 21
County LINN	State KS	Type/Well	Depth 875'	Hours	Date Started 1-15-03	Date Completed 1-17-03

Job No.	Casing Used	Bit Record				Coring Record						
Driller TOOTIE	Cement Used 4 SACKS	Bit No.	Type	size	From	To	Bit No.	type	Size	From	To	% Rec.
Driller	Rig No. #1			7 7/8"								
Driller	Hammer No.											

Formation Record

From	To	Formation	From	To	Formation	From	To	Formation	From	To	Formation
0	8	OVERBURDEN	477	480	COAL (WET)	810		LIGHT OIL SHOW			
8	57	LIME	480	549	SHALE						
57	63	SHALE	549	552	COAL			T.D. 875'			
63	82	LIME			GAS TEST (NO GAS)						
82	85	SHALE	552	570	SHALE						
85	108	LIMEY SHALE	570	572	COAL						
108	290	SANDY SHALE	572	584	SHALE						
290	293	LIME	584	585	COAL						
293	296	SHALE	585	589	SHALE						
296	305	LIME	589	591	COAL						
305	310	SHALE	591	604	SHALE						
310	330	SANDY SHALE	604	605	COAL						
330	332	COAL	605	613	SHALE						
332	362	SHALE	613	614	COAL						
362	364	COAL	614	631	SHALE						
364	378	LIME	631	633	COAL						
378	394	SHALE	633	664	SHALE						
394	398	LIME	664	667	COAL						
398	429	SHALE	667	681	SHALE						
429	430	COAL	681	683	COAL						
430	434	SHALE	683	686	SHALE						
434	439	LIME	686	689	BLK SHALE, COAL						
439	443	SHALE	689	764	SHALE						
443	456	LIME	764	767	COAL						
456	458	SHALE	767	780	SHALE						
458	459	COAL	780	782	COAL						
459	460	SHALE	782	784	SHALE						
460	462	COAL	784	787	COAL						
462	465	SHALE	787	805	SHALE						
465	470	LIME	805	875	LIME MISS						
470	477	SHALE	814		GAS TEST 4 # ON 1/8" CHOKE						

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ORIGINAL

MAY 06 2003

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BLUE STAR
ACID SERVICE, INC.

PO Box 103
Eureka, Kansas 67045

Cementing Ticket
and Invoice Number

N^o 4224

Date 1-18-03	Customer Order No.	Sec.	Twp.	Range	Truck Called Out	On Location 10:45 am	Job Began 12:00 p.m.	Job Completed 1:15 p.m.
Owner Meritage KCM Exploration		Contractor Hurricane Well Service			Charge To Meritage KCM Exploration			
Mailing Address 1600 Broadway, Suite 1360		City Denver			State CO 80202			
Well No. & Form Webber 13-24		Place			County LYNN		State Kansas	
Depth of Well 880'	Depth of Job 876'	Casing (New) Size 5 1/2"	Weight	Size of Hole 7 7/8"	Cement Left in casing by	Request (Necessity) 6 feet		
Kind of Job Longstring > P.B. in 870'					Drillpipe	(Rotary) Air	Truck No. #2	
					Tubing	Cable		

Price Reference No.	#1
Price of Job	665.00
Second Stage	
Mileage	191.25
Other Charges	
Total Charges	856.25

Remarks Safety Meeting - Rig up to 5 1/2" casing, break circulation with fresh water. Pumped 10 Bbl. Gel Flush, circulate on well bringing Gel ground to condition Hole. Pumped 10 Bbl. Dye water Mixed 120 sks Thickset cement w/ 8" P/SK of Gilsomite at 13.4 P/GAL. Shutdown, washout pump & lines - Release Plug Displace Plug with 21 Bbls fresh water at 2 BPM Final Pumping at 300 PSI - Bumped Plug to 700 PSI check float - float held - close casing in with 0 PSI Good cement returns = 9 Bbl slurry = 30 sks cement

Cementer Brad Butler
 Helper Meati - Jim
 District Eureka
 State Kansas
 Job complete - Teardown

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

x Michael Baylo
 agent of contractor or operator

"Thank you"

Sales Ticket for Materials Only