

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

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

CONFIDENTIAL

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. _____
1-17-03 1-20-03 3-28-03
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 107-23696-00-00
County: Linn
e2 - nw. ne Sec. 13 Twp. 22 S. R. 21 East West
4600 feet from (S) / N (circle one) Line of Section
1750 feet from (E) / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Brown Well #: 13-31
Field Name: Blue Mound
Producing Formation: _____
Elevation: Ground: 976' Kelly Bushing: _____
Total Depth: 855' Plug Back Total Depth: 844'
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.
ALT II WITHIN 12-26-06

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____
Location of fluid disposal if hauled off site: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____
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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: _____
Title: VP, Project Development Date: 5-2-03
Subscribed and sworn to before me this 2nd day of May
2003
Notary Public: Pranda Deiner
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: Brown Well #: 13-31
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 [] Yes [x] No
Samples Sent to Geological Survey [] Yes [x] No
Cores Taken Yes [x] No
Electric Log Run [x] Yes No
List All E. Logs Run:
High Resolution Compensated Density Neutron
Dual Induction SFL/GR

Table with columns: Log Name, Formation (Top), Depth, Datum, Sample. Rows include Mulberry Coal, Pawnee Lime, Bevier Coal, Weir-Pitt Coal, Riverton Coal.

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CASING RECORD table with columns: Purpose of String, Size Hole Drilled, Size Casing Set, Weight Lbs./ Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives.

ADDITIONAL CEMENTING / SQUEEZE RECORD table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

PERFORATION RECORD - Bridge Plugs Set/Type table with columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record, Depth.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run. Includes De-watering and Estimated Production Per 24 Hours.

Disposition of Gas, METHOD OF COMPLETION, Production Interval. Includes checkboxes for Vented, Sold, Used on Lease, Open Hole, Perf., Dually Comp., Commingled, Other.

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ORIGINAL

Meritage KCM Exploration, LLC
Brown 13-31
Section 13-T22S-R21E
Linn County

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Shots Per Foot	Perforation Record	Acid, Fracture, Cement Squeeze Record	Depth
4	527.5' - 531.5'	250 gallons 15% FE HCl w/1% KCl water treated w/biocide. .25 ppg sand 20/40.	
4	567' - 569'		
4	593.5' - 596'		
4	643.5' - 646'		
4	766' - 770'		

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CONSERVATION DIVISION
WICHITA, KS

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ORIGINAL

BLUE STAR
ACID SERVICE, INC.

CONFIDENTIAL
Box 103
Eureka, Kansas 67045

Cementing Ticket
and Invoice Number

No 4208

Date 1-22-03	Customer Order No.	Sect. 13	Twp. 22S	Range 21E	Truck Called Out 11:30 AM	On Location 1:20 PM	Job Began 2:40 PM	Job Completed 2:45 PM
Owner Meritage KCM Exploration, LLC		Contractor Hurricane Well Service			Charge To Meritage KCM Exploration, LLC			
Mailing Address 1600 Broadway Suite 1360		City Denver			State Co. 80202			
Well No. & Form Brown # 13-31		Place		County LINN		State KS		
Depth of Well 855'	Depth of Job 850'	Casing <input checked="" type="radio"/> New <input type="radio"/> Used	Size 5 1/2	Weight	Size of Hole Amt. and Kind 7 7/8 115 SKS	Cement Left in casing by	Request Necessity 6' feet	
Kind of Job Longstring				P.B.T.D. 844'		Drillpipe	<input checked="" type="radio"/> Rotary <input type="radio"/> Cable	Truck No. #12

Price Reference No.	# 1
Price of Job	665.00
Second Stage	
Mileage	857 191.25
Other Charges	
Total Charges	856.25

Remarks Safety Meeting: Rig up to 5 1/2 Casing. Pump 10 Bbl fresh water. Pump 10 Bbl Gel Flush. Brought GCL to SURFACE. Pump 10 Bbl Dye water. Mixed 115 SKS Thick Set Cement with 8# Gilsomite per/sk @ 13.4 # per/bal. wash out Pump & Lines. Shut down. Release Plug. Displace with 20 Bbl Fresh water. Final Pumping Pressure 300 PSI. Bump Plug to 800 PSI. Check float. float held. Shut casing in @ 0 PSI. Good Cement Returns to SURFACE = 7 BBL Slurry = 37 SKS. Job Complete. Rig down.

Cementer Kevin McCoy
Helper Mike, Rick

District EUREKA

State KS

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

Thank you

M. R. Taylor
Agent of contractor or operator

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CONSERVATION DIVISION
WICHITA, KS

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

P. 5

16208795751

MOKAT Drilling

Apr 17 03 07:59

ORIGINAL

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Operator	MERITAGE	Well No.	13-31	Lease	BROWN	Loc.	1/4 1/4 1/4	Sec.	13	Twp.	32S	Rge.	21E
County	LINN	State	KS	Type/Well		Depth	855'	Hours		Date Started	1-17-03	Date Completed	1-20-03

Job No.	Casing Used	Bit Record						Coring Record					
		Bit No.	Type	size	From	To	Bit No.	type	Size	From	To	% Rec.	
	21' 6" 8 5/8"			7 7/8"									
Driller	Cement Used												
TOOTIE	4 SACKS												
Driller	Rig No.												
	#1												
Driller	Hammer No.												

Formation Record

From	To	Formation	From	To	Formation	From	To	Formation	From	To	Formation
0	6	OVERBURDEN	420	423	BLK SHALE						
6	23	LIME	423	428	SHALE						
23	30	SHALE	428	434	LIME						
30	49	LIME	434	440	SHALE						
49	54	SHALE	440	510	SANDY SHALE						
54	70	LIME	510	512	COAL						
70	75	SHALE	512	527	SHALE						
75	82	LIME	527	530	BLK SHALE						
82	232	SANDY SHALE	530	531	COAL						
232	233	BLK SHALE, COAL	531	553	SHALE						
233	242	SHALE	553	554	COAL						
242	246	LIME	554	567	SHALE						
246	252	SHALE	567	568	COAL						
252	256	LIME	568	594	SHALE						
256	261	SHALE	594	596	COAL						
261	272	LIME	596	645	SHALE						
272	282	SANDY SHALE	645	647	COAL						
282	299	SHALE	647	743	SHALE						
299	300	COAL	743	746	SAND (OIL SHOW)						
300	323	SHALE	746	766	SHALE						
323	325	COAL	766	769	COAL						
325	329	SHALE	769	775	SHALE						
329	342	LIME			GAS TEST (NO GAS)						
342	355	SHALE	775	855	LIME MISS.						
355	360	LIME									
360	361	BLK SHALE, COAL			T.D. 855'						
361	390	SHALE									
390	400	LIME									
400	406	SHALE									
406	417	LIME									
417	420	SHALE									

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