

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 163-23, 108-00-00

County Rooks

SE NE SW Sec. 5 Twp. 10s Rge. 16 X East West

Operator: License # 5011

1650 Ft. North from Southeast Corner of Section

Name: Viking Resources, Inc.

2970 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Address 105 South Broadway  
Suite 1040

Lease Name Collins Well # 5

City/State/Zip Wichita, KS 67202-4224

Field Name Couger West

Producing Formation Arbuckle LMC

Purchaser: Koch

Elevation: Ground 1970 KB 1978

Operator Contact Person: James B. Devlin

Total Depth 3502 PBTD 3460

Phone ( 316 ) 262-2502

Contractor: Name: Mallard JV, Inc.

License: 4958

Wellsite Geologist: Robert C. Patton

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If **OWO**: old well info as follows:

Operator: \_\_\_\_\_

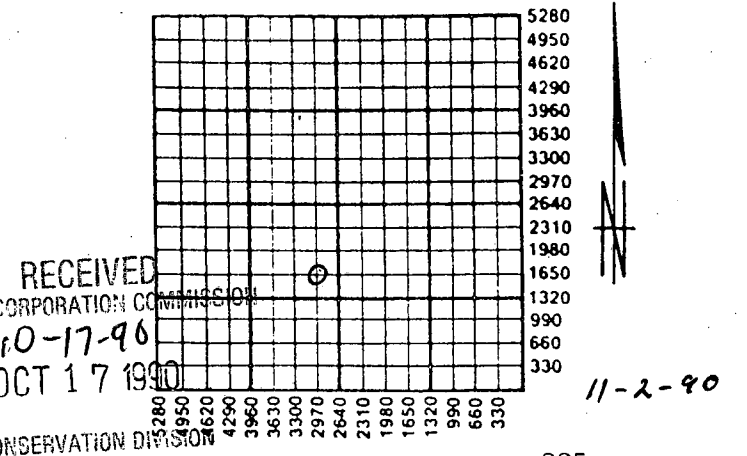
Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

9-6-90 9-12-90 10-5-90  
Spud Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 225 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 3498

feet depth to surface w/ 675 775 sx cmt.

**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas, 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

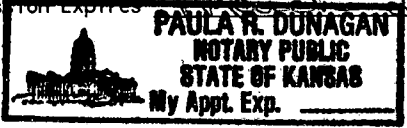
Signature James B. Devlin

Title JAMES B. DEVLIN - PRESIDENT Date 10-10-90

Subscribed and sworn to before me this 10<sup>th</sup> day of OCTOBER, 19 90.

Notary Public Paula R. Dunagan

Date Commission Expires February 2, 1993



**K.C.C. OFFICE USE ONLY**

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Drillers Timelog Received

**Distribution**

KCC  SWD/Rep  NGPA

KGS  Plug  Other (Specify)

ORIGINAL

SIDE TWO

Operator Name Viking Resources, Inc. Lease Name Collins Well # 5  
 East County Rooks  
Sec. 5 Twp. 10S Rge. 16  West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets.)  
Samples Sent to Geological Survey  Yes  No  
Cores Taken  Yes  No  
Electric Log Run  Yes  No  
(Submit Copy.)

Formation Description		
Name	Top	Bottom
Anhydrite	1169	(+809)
B. Anhydrite	1203	(+775)
Topeka	2860	(-882)
Plattsmouth	3048	(-1070)
Heebner	3088	(-1110)
Lansing	3128	(-1150)
Stark	3329	(-1351)
Arbuckle	3496	(-1518)
RTD & LTD	3502	(-1524)

CASING RECORD  New  Used  
Report all strings set-conductor, surface, intermediate, production, etc.

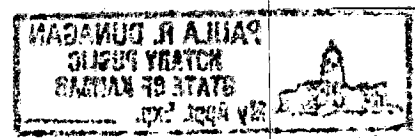
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	20	225	60/40 Poz	350	amulab
Production	7 7/8	5 1/2	14	3497	ASC	175	2% gel, 3% cc 10% salt, 3/4-1% GFR-2
					ATL	250	1/4# Floseal, 3/4-1% % CFR-2

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
Shots Per Foot	Specify Footage of Each Interval Perforated		
4	3139-42	750 gal NA, communicated all zones retreat w/ 250 gal 28% 300# plugging material, 750 gal 28% 300# plugging material, 1000 gal 28% swab all zones together, 22 BOPH POP	
4	3166-70		
4	3183-86		

TUBING RECORD Size 2 7/8 Set At 3410 Packer At None Liner Run  Yes  No

Date of First Production \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_  
Estimated Production Per 24 Hours Oil 80 Bbls. Gas 0 Mcf Water 0 Bbls. Gas-Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
METHOD OF COMPLETION  Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_



MALLARD JV, INC.  
P.O. BOX 1009  
McPHERSON, KS 67460

ORIGINAL

DRILLERS' LOG

OPERATOR: VIKING RESOURCES, INC.  
105 S. BROADWAY, SUITE 1040  
WICHITA, KS 67202-4224

WELL: COLLINS #5  
API#: 15-163-23,108

COMMENCED: SEPTEMBER 6, 1990

LOCATION: SE NE SW

COMPLETED: SEPTEMBER 12, 1990

1650 Ft. FSL, 2970 Ft. FEL

TOTAL DEPTH: 3502 Ft.

SEC. 5 TWP. 10 S RGE. 16 W

ELEVATION: 1970 Ft. G.L.

COUNTY: ROOKS

1978 Ft. K.B.

\*\*\*\*\*

Ran Casing - Arbuckle Formation

REMARKS:

Cut 12 1/4" hole to 223' and ran 5 joints 8-5/8" x 20# x 215' surface casing. Set at 225' and cemented with 140 sacks 60/40 Pozmix, 2% gel, 3% cc. Cement did circulate. P.D. at 5:15 a.m. 9-7-90.

Drilled 7-7/8" hole to 3502' R.T.D., ran electric log, and ran 95 joints 5 1/2" x 14# x 3497' production casing. Set at 3497' and cemented with 175 sacks ASC, 10% salt, 3/4% CFR-2; and 250 sacks ATL, 1/4# floseal per sack, 3/4% CFR-2. P.D. at 2:30 a.m. 9-12-90. Released and held.

RECEIVED  
STATE CORPORATION COMMISSION

OCT 17 1990

CONSERVATION DIVISION

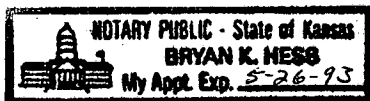
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STATE OF KANSAS )  
COUNTY OF MCPHERSON ) SS:

I, Dick Hess of MALLARD JV, INC. hereby certify that this is a true and correct copy of the log of the Collins #5 well as reflected by the files of Mallard JV, Inc.

  
Dick Hess

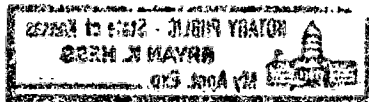
Subscribed and sworn to before me this 20th day of September, 1990.



  
NOTARY PUBLIC

ORIGINAL

Don Butcher  
has temperature  
survey.



ORIGINAL

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC. N<sup>o</sup> 9023

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-24-90	Sec.	5	Twp.	10 <sup>s</sup>	Range	16 <sup>w</sup>	Called Out	8:30 A.M.	On Location	10:45 A.M.	Job Start	11:15 A.M.	Finish	12:30 P.M.	
Lease	Collins	Well No.	5	Location				Collins 2E1N 3/4 E	County	Rooks	State	Ks.				

Contractor		Owner	
Type Job	Squeeze Back Side	Same	
Hole Size	7 7/8"	T.D.	3502'
Csg.	5 1/2"	Depth	3497'
Csg. Size	8 7/8"	Depth	232'
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.		Shoe Joint	
Press Max.	600 #	Minimum	
Meas Line		Displace	
Perf.			

Charge To	Viking Resources, Inc.
Street	105 S. Broadway #1040
City	Wichita, KS
State	KS
Zip	67202-4229
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	(Signature)
<b>CEMENT</b>	
Amount Ordered	250 sks @ 65¢/sk = 162.50

### EQUIPMENT

Pumptrk	No. 191	Cementer	Gary H.
		Helper	Wayne Mc
Pumptrk	No.	Cementer	
		Helper	
		Driver	Glen C.
Bulktrk	#212	Driver	

Consisting of	1/4 # of Floscol 1 sk. @ 2 sks/hul	
Common	163 sks @ 5.00/sk	815.00
Poz. Mix	87 sks @ 2.25/sk	195.75
Gel.	9 sks @ 6.75/sk	60.75
Chloride		
Quicks	Floscol - 63 # @ 60¢/116	37.80
Hulls	2 sks @ 14.00/sk	28.00
Sales Tax		
Handling	2.90 @/sk. (250 sks)	225.00
Mileage	2.03 @/sk./mi. (10 mi)	75.00
Sub Total		1437.30
Total		

DEPTH of Job		
Reference:	#5 Pumptruck - squeeze	360.00
	#14 mileage @ 2.00/mi.	20.00
Sub Total		380.00
Tax		
Total		

Floating Equipment Thanks

Remarks: Down annulus (8 7/8" csg), at 600 # max. pressure, mixed 2 sks hulls with 250 sks cement, and shut in at 300 #.

OGT 22 1990

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

483-2627, Russell, Kansas  
316-793-5861, Great Bend, Kansas

# ALLIED CEMENTING CO., INC. No. 9429

Home Office P. O. Box 31 Russell, Kansas 67665

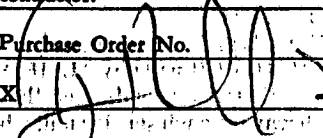
*new*

Date	9-12-90	Sec.	5	Twp.	10	Range	16	Called Out	7:30 PM	On Location	1:00 AM	Finish	2:30 AM
Lease	Collins	Well No.	#5	Location	Colwell 2E 1N	County	Rooks	State	Kansas				
Contractor	Mallard Drilg				Owner	SAME							
Type Job	Production												
Hole Size	7 7/8		T.D.	3502									
Csg.	5 1/2		Depth	3497									
Tbg. Size			Depth										
Drill Pipe			Depth										
Tool			Depth										
Cement Left in Csg.	24'		Shoe Joint	24'									
Press Max.	1000		Minimum										
Meas Line	X		Displace										
Perf.													

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish  
cement and helper to assist owner or contractor to do work as listed.

Charge To **VIKING RESOURCE**  
Street **105 S. Broadway #1040**  
City **Wichita** State **Kan 67202-4224**

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. 

Amount Ordered **500 GAL CEMENT**  
**175 ASC 10% Salt 340 10% C/P**  
**250 ATL - 1/4 FB Seal 340 10% C/P**

### EQUIPMENT

No.	Cementer	<b>R. DAVIS</b>
Pumptrk <b>153</b>	Helper	<b>GERALD</b>
No.	Cementer	
Pumptrk	Helper	
<b>155</b>	Driver	<b>DAW</b>
Bulktrk <b>213</b>	Driver	<b>DAW</b>

Consisting of	Common	150	SKS @	5.00	750.00
	Poz. Mix	100	SKS @	2.25	225.00
	Gel.	22	SKS - 29(17)	5.25	114.75
	ASC	175	SKS @	7.00	1,225.00
	Salt	16	SKS	4.75	76.00
	WFR-2	28	IBS @	4.00	112.00
	500 Gal WFR-2			214 per	105.00
	63 IBS Flo-Seal				37.00
Handling	90¢				382.50
Mileage	3¢				140.25

### DEPTH of Job

Reference:	Pumptruck	8.33.00
	@ 2.00 PER MILE	22.00
	5 1/2 Plus	43.00
	Sub Total	
	Tax	
	Total	903.00

Sub Total	
Total	<del>3,168.30</del>

Floating Equipment **3,168.30**

Remarks:

Float Held

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

3-2627, Russell, Kansas

16-793-5861, Great Bend, Kansas

# ALLIED CEMENTING CO., INC. No. 9258

Home Office P. O. Box 31

Russell, Kansas 67665

New

9-6-90	Sec. 5	Twp. 10	Range 16	Called Out 8:30 PM	On Location 12:00 AM	Job Start 4:45 AM	Finish 5:15 AM
Collins		Well No. #5	Location CODRILL 3E 1N 1/2 E intc		County ROOKS	State KANSAS	

Contractor	Mallard Drilling Rig #1
Job	SURFACE
Size	12 1/4
Depth	224'
Size	8 5/8 20#
Depth	223'
Depth	
Depth	
Shoe Joint	
Minimum	
Displacement	13 1/2" <u>OK</u>

Owner	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Charge To	VIKING RESOURCES
Street	105 S. Broadway # 1000
City	Wichita
State	Kansas 67202
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	<i>Ray Tehelch</i>
<b>CEMENT</b>	
Amount Ordered	140 SK 60/40 270 gal 3% CC

### EQUIPMENT

No.	Cementor	<i>Alma</i>
#177	Helper	<i>Will</i>
No.	Cementor	
	Helper	
	Driver	<i>Mark</i>
	Driver	

Consisting of		
Common	84 SKS @ 5.00	420.00
Poz. Mix	56 SKS @ 2.25	126.00
Gel.	3 SKS @ 1.75	N/C
Chloride	4 SKS @ 20.00	80.00
Quickset		
RECEIVED STATE CORPORATION COMMISSION		
Sales Tax		

DEPTH of Job		
Reference:	Pump TRUCK chrg	360.00
	2.00 per mile	22.00
8 5/8	WOODEN Plug	40.00
	Sub Total	
	Tax	
	Total	422.00

Handling	.90 PER SK	126.00
Mileage	CONSERVATION DIVISION 11 mile @ .03 PER TON MILE	46.20
	Sub Total	
	Total	798.20
Floating Equipment		

Cement Circulated

*Thanks*