

SIDE ONE

md

Form ACO-1 (5-86)

SIDE TWO

Operator NameBlackhawk Exploration, Inc..... Lease Name.....Neuman-Ludeman..... Well #.....1.....

Sec.....25..... Twp.....33S..... Rge.....6..... ☐ East
☒ West County.....Harper.....

WELL LOG

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
 Samples Sent to Geological Survey ☐ Yes ☐ No
 Cores Taken ☐ Yes ☐ No

DST #1
 4457-4466 - open 1 hr
 Recovered: 90' gas, 35' mud
 SIP: 80#/60#
 FP: 0#/0#
 DST #2
 4464-4474/ open 1 hr
 Recovered: 135' sli gas & oil cut mud
 FSIP 250#
 FP 0#/30#

Formation Description

☒ Log ☐ Sample

Name	Top	Datum Bottom
Stelnaker	3513	-2208
Kansas City	3786	-2481
Base Kansas City	3954	-2649
Marmaton	4257	-2952
Miss-Chert	4455	-3150
Miss- Lime	4484	-3179
Rotary T.D.	4522	-3217
Sample	4523	-3218

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
Rod Casing	7.778	5.5"	.....	4523	common	325	w/1/4# flow seal/sx
Tubing	.....	2"	EUE	4508	.....	.....	.....
Tubing	.....	2"	EUE	3830	.....	.....	.....

PERFORATION RECORD			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
Shots Per Foot	Specify Footage of Each Interval Perforated	.....	500 gal 15% ne mud	.....	3805-08
2	3805-3808	.....	acid, reacidized w/1000	.....	.....
.....	.....	.....	gal 28% NE acid	.....	.....
.....					
.....					

TUBING RECORD				Liner Run ☐ Yes ☒ No	
Size	Set At	Packer at	.....	.....	.....
2"	3830	3850	.....	.....	.....

Date of First Production	Producing Method				
5-9-87	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....				

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
11	TSTM/to None	60	.....	.....	.....
.....	Bbls	MCF	Bbls	CFPB	.....

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented
☐ Sold
☒ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)

3805-08.....

☐ Dually Completed
☐ Commingled

