

Operator Name: Ritchie Exploration, Inc. Lease Name: Phelps 16BC Well #: 1
 Sec. 16 Twp. 13S S. R. 31 East West County: Gove

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

List All E. Logs Run:

Dual Induction Log
 Compensated Density/Neutron Log

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

SEE ATTACHED

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CASING RECORD <input type="checkbox"/> New <input checked="" 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	23	225	common	170	3%cc, 2% gel

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		Acid, Fracture, Shot, Cement Squeeze Record		Depth
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)		

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumerd Production, SWD or Enhr.		Producing Method <input type="checkbox"/> Flowing <input 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 (If vented, Submit ACO-18.)
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____
 Production Interval _____

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#1 Phelps 16BC
2500' FSL & 1150' FWL
140' S & 160' E of E/2 W/2 W/2 Section 16-13S-31W
Gove County, Kansas
API# 15-063-21674-0000
Elevation: 2943' GL: 2953' KB

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Sample Tops		Ref.	Well
Anhydrite	2464'	+489	-20
B/Anhydrite	2486'	+467	-19
Heebner	3977'	-1024	-8
Lansing	4021'	-1068	-10
Lansing "C"	4054'	-1101	-9
Muncie Shale	4166'	-1213	-7
Lansing "J"	4235'	-1282	-5
Stark Shale	4252'	-1299	-7
BKC	4322'	-1369	-10
Pawnee	4462'	-1509	-16
Cherokee Shale	4545'	-1592	-20
Johnson	4589'	-1636	-20
Mississipian	4661'	-1708	-43
RTD	4730'	-1777	

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