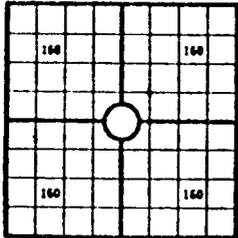


OPERATOR John O. Farmer, Inc.  
 ADDRESS Box 352, Russell, Kansas 67665

FORMATION RECORD

Give detailed description and thickness of all formation drilled through, contents of sand, whether dry, water, oil or gas.

640 Acres  
N



Locate well correctly

COUNTY Rush, SEC. 4, TWP. 16S, RGE. 20W  
 COMPANY OPERATING John O. Farmer, Inc.  
 OFFICE ADDRESS Box 352, Russell, Ks.  
 DRILLING STARTED 9/12/1972 DRILLING FINISHED 9/20, 1972  
 DATE OF FIRST PRODUCTION \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 WELL LOCATED NW 1/4 SW 1/4 NE 1/4, North of South  
 Line and \_\_\_\_\_ ft. East of West Line of Quarter Section  
 Elevation (Relative to sea level) DERRICK FLOOR 2189 GROUND 2191  
 CHARACTER OF WELL (Oil, gas or dryhole) dryhole

OIL OR GAS SANDS OR ZONES

Name	From	To	Name	From	To
			4		
			5		
			6		

Perforating Record If Any

Shot Record

Formation	From	To	No. of Shots	Formation	From	To	Size of Shot

CASING RECORD

Amount Set						Amount Pulled		Packer Record			
Size	Wt.	Thds.	Make	Ft.	In.	Ft.	In.	Size	Length	Depth Set	Make

Liner Record: Amount \_\_\_\_\_ Kind \_\_\_\_\_ Top \_\_\_\_\_ Bottom \_\_\_\_\_

CEMENTING AND MUDDING

Size	Amount Set		Sacks Cement	Chemical		Method of Cementing	Amount	Mudding Method	Results (See Note)
	Ft.	In.		Gal.	Make				
8-5/8"	2	12'	140	sx.	cement				

Note: What method was used to protect sands if outer strings were pulled? \_\_\_\_\_

NOTE: Were bottom hole plugs used? \_\_\_\_\_ If so, state kind, depth set and results obtained \_\_\_\_\_

TOOLS USED

Rotary Tools were used from 0 feet to R.T.D. Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Type Rig Rotary

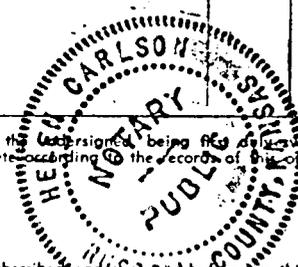
INITIAL PRODUCTION TEST

Describe initial test: whether by flow through tubing or casing or by pumping \_\_\_\_\_

Amount of Oil Production \_\_\_\_\_ bbls. Size of choke, if any \_\_\_\_\_ Length of test \_\_\_\_\_ Water

Production \_\_\_\_\_ bbls. Gravity of oil \_\_\_\_\_ Type of Pump if pump is used, describe \_\_\_\_\_

Formation	Top	Bottom	Formation	Top	Bottom
Shale	212	780			
Shale sand	780	890			
Sand	890	1100			
Shale shells	1100	1439			
Anhydrite	1439	1705			
Shale shells	1705	2050			
Shale lime	2050	3290			
Lime shale	3290	3485			
Lime	3495	3885			
Lime chert	3885	4045			
			Sample tops		Top
			Topeka		3214'
			Heebner		3501'
			Toronto		3522'
			Lansing		3545'
			B/Kansas city		3801'
			Marmaton chert		3869'
			Cherokee		3935'
			Conglomerate		3946'
			Reagan		4012'
			Granite Wash		4030'
			Rotary T.D.		4045'



John O. Farmer  
 Name and title of representative of company  
 President  
 Subscribed and signed to before me this 25th day of September, 1972  
Helen Carlson  
 Notary Public

My Commission expires 2-15-75

4-16-20w

NW 1/4 NE 1/4 4-16-20W  
 TWP 16S, RGE. 20W  
 SEC. 4  
 COUNTY RUSH  
 WELL NO. 15-165-20, 448  
 KANSAS NATURAL SOCIETY LOCK  
 503 W. 13th St., Lawrence, Kansas  
 OCT 18 1972