To: KC Prod., #22
Assoc. Oil & Gas
Well File

WELL RECORD

Well No. 12 Farm Woodward Producer GRA, Inc.

Location 560' S N L 1500' E W L NW 1/4 Sec. 13 Twp. 25 S Rg. 21 E

Elevation State Kansas County Bourbon

Kind (Oil, Gas, Water, Dry Hole) Contractor Ace-Hi Exploration Co.

Producing formation Top Bottom

Shot with qts. from to

Packer Set at Kind Size

Liner from to Perforated from to

LOG

Thickness	Strata	Depth	Thickness	Strata	Depth
5'	Soil & clay	5'	35'	Sh.&sdy.sh	721'
132	Lime	137			
16	Shale	153			
7	Shale	160			
23	Lime	183			
117	Shale	300			
8	Lime	308			
84	Shale	392			
22	Lime	414			
47	Shale	460			
16	Lime	477			
8	Shale	485			
5	Lime	490			
15	Sdy. sh.gr.	515			
120	Shale	635			
10	Sdy. sh. sl. gas odor	645			
	Core # 1 (645'-671')				
14½	Gas sand	659½			
9½	Lam. sd.&sh.	669			
2	Oil sand	671			
	Core #2 (671'-686')				
3	Lam.sd.&sh.	674			
6	Oil sand	680			
6	Shale	686			

Total Depth 721'

Open Hole

Casing 8 5/8" at 25'

Casing at

Casing 4 1/2" at 721

Cement -to top by Hallibuston

Tubing

Rods

Additional Information

All measurements taken from ground level.

Date Completed 1-17-66 O. K.

Superintendent