

#4 Location: Near the center of the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 3 Township 29 South, Range 10 East.

ELK DRILLING CO., INC.

HOWARD, KANSAS

Morrow & Co., Operators

Well No. 4-- Dunkleburg-- Input--

May 1954.

Completed 6-7-1954

soil	21	shale	800
gravel	24	lime	808
shale	42	shale	815
lime	55	Big line	938 RFW 840-860
shale	70	shale	1100-steel line
lime	78	gas cap	1110
shale	88	shale	1117
lime	97	lime	1121
shale	102	shale	1140
lime	113	lime	1144
shale	118	shale	1151
lime	120	lime	1161
shale	127	shale	1170
red rock	140	lime shells	1185 reduced 8 to 7"
lime	147	lime	1286 1193
shale	156	shale, black	1288-casing spot 1288+
sandy shale	170	cap rock, dark	
shale, blue	183	lime	1290- S.L. 1289+
lime	190	lime	1295
shale	198	sand, oil	1297 $\frac{1}{2}$
lime	210	sand	1318
shale	320	shale	1320
sand 2-BW	343		
shale	395		
lime, hard	403		
shale, black	405		
lime	418		
red rock	460		
shale	475		
lime	488		
shale	496		
red rock	501		
shale	512		
red rock	517		
shale	530		
lime	532		
shale	573		
sand 2-BW	602		
shale	678		
lime	685		
shale	700		
sand	712		
red rock	720		
shale	736		
lime	758		
shale	770		
lime	773		
sand	780		

shot from 1295 to 1318' w $\frac{1}{2}$ th
52 qts.
cemented with 24 sacks

Casing record.

Casing record-

12"	40' 5" Puller
10"	348' 6" "
8"	730' 1"-sack accougel Puller
5"	1238' 6" "

3 joint 6 in cemented with 5
SK cement for surface

RECEIVED
STATE CORPORATION COMMISSION
SEP 27 1974
CONSERVATION DIVISION
Wichita, Kansas