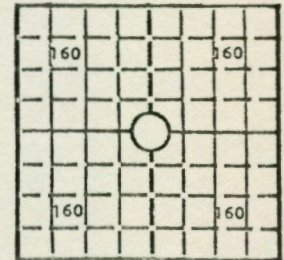


DRILLERS LOG

API No. 15 - 205 - 20,453
County Number

Loc. _____

County Wilson

640 Acres
N

Locate well correctly

Elev.: Gr. _____

DF _____ KB _____

Operator

John T. Davis

Address

212 E. Locust Independence, Kansas 67301

Well No.

P-17 E-14

Lease Name

Umbarger

Footage Location

950

feet from (N) (S) line

470

feet from (E) (W) line SW/4

Principal Contractor

Dobbie Drilling Co.

Geologist

Spud Date

5-11-78

Total Depth

677'

P.B.T.D.

Date Completed

5-12-78

Oil Purchaser

CASING RECORD

Report of all strings set—surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
SURFACE	9"	6 1/2"		20'			
PRODUCTION	4 3/4"	2"		677'			

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
Top Soil	0	2	Shale	336	397			
Clay	2	5	Lime	397	400			
Shale	5	10	Lime/Shale	400	413			
Sand	10	13	Lime	413	417			
Lime	13	18	Shale	417	429			
Shale	18	19	Lime	429	438			
Lime	19	21	Shale/Sand	438	440			
Shale	21	24	Sand	440	458			
Sand	24	82	Shale	458	535			
Shale	82	97	Lime	535	538			
Sand	97	110	Sandy/Shale	538	544			
Lime	110	111	Lime	544	559			
Shale	111	138	Sand/Shale	559	567			
Lime	138	140	Shale	567	608			
Shale	140	143	Lime	608	629			
Lime	143	220	Shale	629	636			
Shale/Lime	220	224	Lime	636	643			
Lime	224	226	Shale	643	648			
Shale	226	245	Lime	648	650			
Lime	245	248	Shale	650	656			
Shale	248	257	Sand	656	677			
Lime	257	276						
Shale	276	281						
Lime	281	336						