



CERTIFIED DRILLERS LOG

15.009.05838.0000

Company: National Associated Petroleum Company Lease: Hagen #1
 Contractor: H & H Drilling Company Location: NE NE NW
 27-20-11W
 Barton County, Kansas
 Commenced: 11-14-50
 Completed: 11-25-50 Casing Record:
 178' 8-5/8" cem. 5/150 gax.
 Elevation: 1764 D.F.
 Potential: D&A

FORMATION	DEPTH	REMARKS
Sand	0-135	
Blue shale	135-178	
Shale	178-515	
Anhydrite	515-523	
Shale & Shell	523-1301	
Shale	1301-1477	Trip @ 1317'
Ft Riley Lime	1477-1520	
Lime & Shale	1520-1718	
Lime	1718-1742	
Lime & Shale	1742-1829	
Lime	1829-1898	
Shale & Lime	1898-2095	Trip @ 1900'
Shale	2095-2345	
Shale & Lime	2345-2631	
Lime	2631-2703	Circ. @ 2649'
Shale & Lime	2703-2757	Trip @ 2703'
Lime & Shale	2757-2802	Circ. @ 2764'
Lime	2802-2872	Trip @ 2869'
Shale & Lime	2872-2906	
Lime	2906-2920	
Shale	2920-2924	
Lime	2924-2962	
Lime	2962-3019	
Shale	3019-3058	Trip @ 3054' SIM - OK
Lime	3058-3235	Circ. @ 3070' & 3102' & 3157' & 3205'
Shale & Lime	3235-3344	Circ. @ 3253'
Lime	3344-3378	Circ. @ 3378'
Total Depth (Rotary Bushing)	3378	

DST #1 3062-3107, open 1 hour, recovered 273' salt water.
 DST #2 3182-3190, open 35 minutes, recovered 20' mud.

Tops:	
Neobner	2918 -1154
Brown Lime	3043 -1279
Lansing	3062 -1298
Arbuckle	3325 -1559
Total Depth	3378

I hereby certify that this is a true and correct copy of the above log, to the best of my knowledge.

STATE OF KANSAS }
 COUNTY OF SEDGWICK }

NOV 20 1950
 PLUGGING
 FILE SEC 27 T 20 R 11 W
 PAGE 45 LINE 5

Subscribed and sworn to before me this 20th day of November 1950.

Georgia L. Land
 Notary Public

My Commission Expires May 13, 1953