Martin K. Dubois

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September 28, 1984

GEOLOGIC REPORT
Jennings Drilling Company
#2 Frey
40'NW of C SW SW NW 18-85-22E
Leavenworth County, Kansas

Daily Progress:

9-24	Move on, rig up, set 7" surface casing @ 44"
9-25	Drill out beneath surface @ 3:00 a.m.
9-26	820' drilling
9-27	TD 1320' @ 6:30 a.m., ran open hole logs, set 4 1/2" production casing
	@ 1280'

Service Companies:

Contractor: McGown Drilling Company

Logging: Great Guns

Cementing: Consolidated Cement

Formation Tops (E-Log):

	JDC #2 Frey SW SW NW 18-8S-22E	Structural Relation to REMCO #1 Hentzelman SE SE NE
Formations	GL 858	13-8S-21E
B. Kansas City	469 (+389)	+2
Cherokee	715 (+143)	+3
Coal Marker	1078 (-220)	+4
Cherokee SS.	1090 (-232)	+2
Upper McLouth SS.	1162 (-304)	-1
Lower McLouth SS.	1196 (-338)	+1
Burgess SS.	1242 (-384)	+9
Miss. St. Louis	1260 (-402)	+20
Miss. Spergen	1271 (-413)	
RTD	1302 (-444)	

Oil Shows (E-Log Depths):

1090-1098	Lower Cherokee Sandstones								
1107-1118	Sandstone,	white,	fine	grain	ied,	well	sorted,	well	rounded,
	quartzose, p	oor por	osity,	no i	floure	scenc	e, trace	of c	ut, trace
	of tarry oil								

1162-1176

Upper McLouth Sandstone

Sandstone, fine grained, subrounded, well sorted, quartzose, good porosity, good show of free gassy oil, good cut, circulated oil on pits.

1196-1224

Lower McLouth Sandstone

Sandstone, fine grained, subrounded, well sorted, good porosity, good cut, good show free gassy oil, circulated oil on pits.

1242-1260

Burgess Sandstone

Sandstone, fine to medium grained, subangular, moderately sorted, fair to good porosity, slight show of very heavy tarry oil.

Summary and Recommendation:

Production casing was set to further test shows of oil in both the upper and lower McLouth sandstones. It is recommended to perforate the Lower McLouth sandstone from 1202 (-344) to 1214 (-356), electric log depths. The Upper McLouth sandstone should remain behind pipe at this time. Eventually, the upper sand should be perforated from 1170 (-312) to 1174 (-316). The recommended perforation intervals for both sands should be below the gas cap encountered in nearby wells.

Respectfully Submitted,

Daniel T. Johnson

Geologist

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DRILLING PROGNOSIS

WELL NAME:_	Jennings	Drilling	Co.	#2 F	rey	DATE:	9/6/84	
LOC.: Appx	SW SW NW	18-8S-22I	Ξ			ELEV .:	860 GL	(Est)
PROPOSED T.	D.:_ 1300'					D DATE:		
Formation Haskel Lansing Cherokee Coal Marker U. McLouth L. McLouth Burgess Miss. TD	<u>Depth</u> 49 147 717	Drill Sampl TD. Mud T Maint Remar	es:_ Use ype: ain: ks:_	Chem Vis. Mix 1	0' washed saings' sampleical 34-36 Wt. 1/2 sks. ca	amples fe box Mud Mud 9.4 Wt austic,	Up: 105	0' to 50 14 sks soda
	*				nathin, gel	for 34-	-36 Vis	(appx. 20 sks.
		Gas D	etec	tor:_	None			
<pre>Hole Size (*set 7" in</pre>	first lim	50'* nestone)	rui	n. Co	Open hole lompensated Neuction	eutron-I	Density,) 0428 (offc)
Geologist:_					Stop P			1480 (home)
Daily Drill	ing Repor	ts:Call	Joh:	n Jenn	ings 913-842	2-0817 ((home) d	or
	wntime, ar				pth of all o			
(after muc	dup).							
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