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MGRRE_LithStripLog_HAWES, M. A. ESTATE 1_21057084110000

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P# 8411

STATE Michigan	COMPANY Carothers	WELL NO.
COUNTY Gratiot	FARM Hawes Est.	
BLOCK Summer	SURVEY N$\frac{1}{2}$ NW NE	
SEC. 17		3323
T. 11N	R. 4W	TOTAL DEPTH
		CONTRACTOR
		COMMENCED 2-20-41
		COMPLETED 4-4-41
ALTITUDE 793	REMARKS Samples by Jack Mortensen	
PRODUCTION D&A		

CASING RECORD

	10"	411
	8 $\frac{1}{2}$ "	839
20"	6 $\frac{3}{4}$ "	1337
15 $\frac{1}{2}$ "	5 $\frac{1}{8}$ "	3263
12 $\frac{1}{2}$ "		
SHOT	QUARTS	BETWEEN

FORM 394 - For sale by Ross-Martin Co., Tulsa

	St. 1055-62	
	M 1072	
	MRR 1141-1289	
	Sun 2344	
	Be 2364	
	Ant 2380	
	JF 2775	
	TL 2794	
	Dun 3285	
	W - 1085	
	75' wtr. 2912-27	
	2740	
	Scum Oil 3296	
	200' w/hr. 3316-	
	23	
	TD 3323	
	D&A	
	2780	
	sample tops	
	Br. Ls. 989	
	St. 1055-59	
	Mar: 1072	
	M.R.R 1102	2800
	Dark RR 1145	
	DM below	
	1298	
	Above 1310	
	" " " "	
		20
	Gray shale.	
		40
	Dark gray lms.; Gray chert.	
	Dark gray lms.; chert; some lt. lms.	60
	" " " " " " " "	
	Very cherty gray to lt gray lms.	80
	6000 REEF ZONE.	
	Very lt. gray to white, granular	
	fossiliferous; calcitic; Sphalitic	
	" " " " " "	2900
	" " " " " "	
	" " " " " "	20
	Gray Brown lms.	
	" " " "	40
	Gray Brown lms. somewhat fossiliferous; little chert.	
	" " " "	60
	" " " "	
	" " " "	80
	Dark gray brown to	3000
	Brown fossiliferous lms.	
	" " " "	20
	" " " "	40
	" " " "	
	" " " "	60
	" " " "	
	" " " "	80
	Dark gray shaly lms. fossils.	3200
	" " " "	
	Dark gray shaly lms.	
	Dark gray shaly lms. fossiliferous	20
	Dark gray fossil lms.	
	Very fossiliferous gray shale	40
	Gray shale	
	" " " "	60
	somewhat dolomitic granular sh.	
	Gray shale	
	Dark gray shale; fossils; pyrite	80
	Dark brown to lt brown lms.	
	lt gray lms.; large embedded dol.	3300
	shals. Algal numerous. porous.	
	Buff brown yellow dol.; some an. dol.	20
	Buff xline dol.	
		40
		60
		80
		3400