

SIDE TWO

Operator Name Graves Drilling Co., Inc. Lease Name Garten Well# 3 SEC 11 TWP 32S RGE 12 East West

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Red bed & shale 0 - 455
 Red bed 455 - 1658
 Shale & lime 1658 - 4335
 Rotary Total Depth 4335

Name	Top	Bottom
Elgin Shale	3337	(-187)
Heebner	3507	(-204)
Lower Douglas Sand	3644	(-18)
Lansing	3682	(-221)
Stark	4069	(-260)
Mississippi	4253	(-278)
LTD	4319	(-285)

TUBING RECORD size 2" set at 4247' packer at None		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First Production 11-20-84	Producing method <input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)		
Estimated Production Per 24 Hours	Oil	Gas	Water
	60 Bbls	40,000 MCF	00 Bbls
	Gas-Oil Ratio 16-1		Gravity 32°

Disposition of gas: vented sold used on lease

METHOD OF COMPLETION: open hole perforation other (specify)

Dually Completed. Commingled

PRODUCTION INTERVAL

CASING RECORD <input type="checkbox"/> new <input type="checkbox"/> used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	size hole drilled	size casing set (in O.D.)	weight lbs/ft.	setting depth	type of cement	# sacks used	type and percent additives
Surface Production	12 1/4"	8-5/8"	23#	476'	common	280 sx.	2% Gel, 3% CC
	7-7/8"	4-1/2"	10.5#	4333'	surefill	125	500 gal. mud sweep ahead

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
2 Hots	4263' to 4268' & 4274' to 4282'	1500 gals. 7 1/2% mud acid fraced with 20,000# of 20-40; 10,000# of 10-20 and 11,250# of 8-12 sand & of frac fluid	1380 bbls.