

Operator Name Amoco Production Company Lease Name Pirtle G.U. Well # 3H1

Sec. 31 Twp. 30S Rge. 38 X East X West County Grant

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	<u> </u> Yes <u>X</u> No	Formation Description <u>X</u> Log <u> </u> Sample		
Samples Sent to Geological Survey	<u> </u> Yes <u>X</u> No			
Cores Taken	<u> </u> Yes <u>X</u> No			
Surface Hole	0 - 655	Name	Top	Bottom
Red Bed, Sand & Clay	655 - 1296	Chase	2411'	2695'
Glorietta Sand	1296 - 1438			
Anyhprite & Shale	1438 - 2013			
Shale	2013 - 2460			
Lime & Shale	2460 - 2820			
Shale	2820 - 3110			

CASING RECORD <u>X</u> New <u> </u> 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	12-1/4"	8-5/8"	24#	653'	Lite "C"	203	2% CC Flo-Cel
					Class "C"	135	2% CC Flo-C
Production	7-7/8"	5-1/2"	15.5#	3109'	Lite "C"	450	Cello-Flake
					Class "C"	300	Cello-Flake

PERFORATION RECORD		ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4 JSPF	2411'-2460'	Water Frac, 190,541 gals	2411'-2695'
4 JSPF	2485'-2511'		
4 JSPF	2554'-2579'		
4 JSPF	2597'-2626'		
4 JSPF	2687'-2695'		

TUBING RECORD	Size	Set At	Packer at	Liner Run	<u> </u> Yes <u>X</u> No
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Date of First Production	Producing Method
12/7/88	<u>X</u> Flowing <u> </u> Pumping <u> </u> Gas Lift <u> </u> Other (explain)

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	Bbls	334 MCF	Bbls	CFPB	

METHOD OF COMPLETION		Production Interval
Disposition of gas: <u> </u> Vented <u> </u> Open Hole <u>X</u> Perforation	<u>X</u> Solid <u> </u> Other (specify)	2411'-2695'
<u> </u> Used on Lease	<u> </u> Dually Completed	
	<u> </u> Commingled	