

SIDE TWO

Operator Name Timberline Oil & Gas Lease Name Knop Well# 13 SEC 29 TWP. 26 RGE. 12 East West

County Pratt

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

Name Top Bottom

Viola 4110' 4156'
 Arbuckle 4262' 4370' R.T.D.

	Top	Bottom
Sand, Gravel, Clay	0	197
Red Beds	197	706
Anhydrite	706	723
Red Beds, shale	723	1746
shale, lime	1746	4260
Arbuckle (Dolo)	4260	4370 R.T.D.

RELEASED

APR 20 1987

FROM CONFIDENTIAL

CASING RECORD <input checked="" 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	12 1/4"	8 5/8"	24	338' KB	60/40 Poz	250 sx	2% Gel, 3% CC
Production	7 7/8"	5 1/2"	14	4368' KB plus--	60/40 Poz ASC	200 sx 50 sx	2% CC, 4% Gilsomite
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	4110-40			500 gal 15% HCl 60,000 # 20/40 sand gelled 2% KCl frac.			4110-40
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing method					
12-19-85		<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	Gas-Oil Ratio	Gravity		
	25 Bbls	200 MCF	0 Bbls	8000 CFPB	45°		

Disposition of gas: vented sold used on lease

METHOD OF COMPLETION
 open hole perforation other (specify)

PRODUCTION INTERVAL
 4110'-40'

Dually Completed.
 Commingled