

DRILLERS' WELL LOG

DATE COMMENCED: July 13, 1983  
 DATE COMPLETED: July 20, 1983

National Development Co.  
 CRISSMAN #1  
 C N/2 S/2 SW  
 Sec. 1, T13S, R18W  
 Ellis County, Ks.

ELEVATION: 2097 K.B.

0 - 1344' Surface Soil, Shale  
 1344 - 1383' Anhydrite  
 1383 - 3346' Shale & Lime  
 3346 - 3608' Lime & Shale  
 3608 - 3685' Dolomite  
 3685' RTD

FORMATION DATA

Anhydrite	1344'
Queen Hill	3221'
Heebner	3300'
Toronto	3321'
Lansing	3346'
Arbuckle	3608'
RTD	3685'

Surface Pipe: Set new 8-5/8"  
 20# pipe @ 207' w/140 sacks  
 60/40 pozmix, 2% gel 3% cc.

Production Pipe: Set 5 1/2", 14#  
 @ 3684' w/100 sacks 60/40  
 pozmix, 8% salt 2% gel.

A F F I D A V I T

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD					
Amount and kind of material used				Depth interval treated	
300 Sacks of 50/50 Cement for Backside Squeeze				<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b>                      STATE CORPORATION COMMISSION                      SEP 15 1983                      CONSERVATION DIVISION                      Wichita, Kansas                 </div>	
Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
8/23/83		Pumping			
Estimated Production-I.P.	Oil	Gas	Water	Gas-oil ratio	
	25 bbls.	---	20 %	5 bbls	---
Disposition of gas (vented, used on lease or sold)			Perforations		
Sold					