

KANSAS DRILLERS LOG

IMPORTANT
Kans. Geo. Survey request
samples on this well.

API No. 15 — 119 —
County

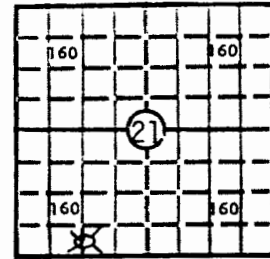
20,373
Number
WICHITA, BRANCH

S. 21 T. 32 R. 29 E. W

Loc. S2 S2 SW

County Meade

640 Acres
N



Elev.: Gr. 2696'

DF 2704' KB 2706'

Operator

Calvin Exploration, Inc.

Address

5680 S. Syracuse Circle, #516 Englewood, Colo 80111

Well No.

#1-21

Lease Name

Cottrell

Footage Location

330 feet from (N) (S) line 1320 feet from (E) (W) line

Principal Contractor

Search Drilling

Geologist

Paul Gerlach

Spud Date

2-26-80

Total Depth

5750'

P.B.T.D.

5687'

Date Completed

4-6-80

Oil Purchaser

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs./ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/4"	8 5/8"	23#	1465'	35/65 Poz. Class H.	700SX 200SX	6% Total Gel-2%Cacl 3% Cacl
Production	7 7/8"	4 1/2"	10.5#	5739'	50/50 Poz Mix	200SX	18% Salt 3/4 of 1% TIC

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2 SPF	1 9/16"	5622-5637
			2 SPF	16 Holes	5220-5228
TUBING RECORD					
Size	Setting depth	Packer set at			
2 3/8"	5556'				


ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1,000 Gal 15% NE Acid w/20 BS	5220-5228
2,000 Gal 28% HCL w/2000 SCF N ₂ /bb1	
Disp w/1000 Gal 2% KCL water w/2000 N ₂ /bb1	5220-5228

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS		Oil	Gas	Water	Gas-oil ratio
		bbls.	MCF	bbls.	CFPB
Disposition of gas (vented, used on lease or sold)				Producing interval (s)	
SOLD				MORROW	

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:		
Well No. #1-21	Lease Name Cottrell	Gas		
S <u>21</u> T <u>32</u> R <u>29</u> ^B _W				
WELL LOG		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.		
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.				
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Clay	0	42	Heebner	4400
Sand	42	475	Lansing	4530
Red Bed	475	813	Marmaton	5060
Red Bed and Lime	813	1468	Cherokee	5312
Lime and Shale	1468	3647	Morrow Shale	5613
Lime and Shale	3647	4877	Chester	5660
Lime and Shale	4877	5638	Mississippian	5668
Lime and Shale	5638	5750	LTD	5755
Rotary Total Depth	5750			
			Logs --- Dual Induction, S.P.-G.R. and FDC-G.R.-Cal	
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.				
Date Received	<div style="text-align: right; margin-bottom: 10px;">  Signature </div> <div style="text-align: center; margin-bottom: 10px;"> CORPORATE SECRETARY - CALVIN EXPLORATION, INC. Title </div> <div style="text-align: center;"> <u>April 30, 1980</u> Date </div>			

15-119-20373

DRILLERS LOGCottrell # 1-21CASING RECORD:8 5/8" set at 1465'
w/ 900 sacks cementOPERATOR: Calvin Exploration, Inc.CONTRACTOR: Search Drilling Co.DESCRIPTIONC SW/4
Section 21-32S-29W
Meade County,
KansasTOTAL DEPTH:

5750'

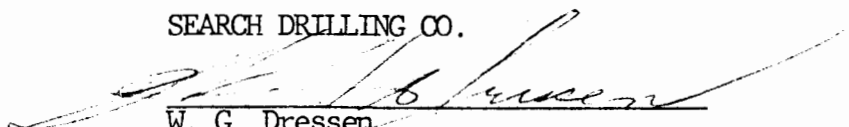
COMMENCED: February 27, 1980COMPLETED: March 10, 1980

<u>FORMATION</u>	<u>TO</u>	<u>FROM</u>	<u>REMARKS</u>
Clay	0	42	
Sand	42	475	
Red Bed	475	813	
Red Bed and Lime	813	1468	
Lime and Shale	1468	3647	
Lime and Shale	3647	4877	
Lime and Shale	4877	5638	
Lime and Shale	5638	5750	
Rotary Total Depth	5750		

Ran 144 jts. of 4½"
set at 5731' with
200 sacks 50-50
posmix, 18% salt,
2% Gel 75/100% T.I.C.
plug down at 10:10
March 10, 1980

I certify that this is a true and correct copy of the above log to the best of my knowledge.

SEARCH DRILLING CO.

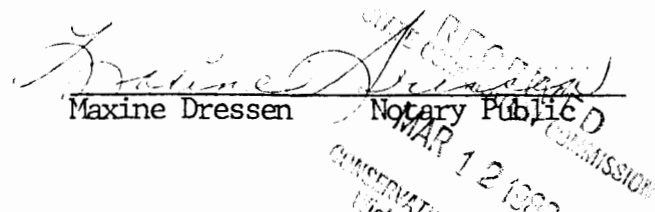

 W. G. Dressen

Subscribed and sworn to before me this 11th day of March, 1980

My appointment expires:
February 22, 1981

Maxine Dressen

Notary Public


 MAR 12 1980
 CONSERVATION DIVISION
 Wichita, Kansas