

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

S. 9 T. 32 R. 21 ^W

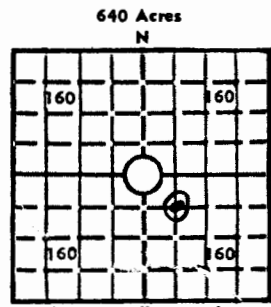
API No. 15 — 025 — 20,326 ✓
 County Number

Loc. C NW SE

Operator
 Calvin Exploration, Inc.

County Clark

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



Well No. #1-9 Lease Name Harden

Locate well correctly
 Elev.: Gr. 1989'

Footage Location
 1980 feet from (X) (S) line 1980 feet from (E) (W) line

Principal Contractor Sage Drilling Co. Geologist Paul Gerlach

Spud Date 11/6/79 Total Depth 5385' P.B.T.D. 0

Date Completed P&A 11/17/79 Oil Purchaser -----

DF 1992 KB 1994

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#	762'	Class "H"	200	3% CaCl
					65/35 Poz	125	6% gel, 3% CaCl
					65/35 Poz	75	---
					Class "H"	75	3% CaCl
					Class "H"	10	---

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
None	

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	
	bbis.	MCF	bbis.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval (s)		

RECORDED
 JAN 23 1980
 STATE GEOLOGICAL SURVEY

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 Calvin Exploration, Inc.		DESIGNATE TYPE OF COM. DRY HOLE, SWDW, ETC.:
Well No. 1-9	Lease Name Harden	Dry Hole
S 9 T 32 R 21 ^K _W		

WELL LOG

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.

SHOW GEOLOGICAL MARKERS, LOGS OR OTHER DESCRIPTIVE INFORMATION

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Red Bed	0	1225	Heebner	4259
Red Bed & Shale	1225	2000	Lansing	4445
Shale	2000	2236	Marmaton	4948
Lime & Shale	2236	2361	Cherokee	5074
Shale & Lime	2361	2600	Base Inola	5197
Lime & Shale	2600	5240	Miss	5247
Lime & Shale	5240	5385	TD	5377
			Ran DST #1 Logged Hole, D & A.	

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	<p align="center"><i>Dean R. Calvin</i> Signature</p> <p align="center"><i>Corporate Secretary</i> Title</p> <p align="center"><i>January 11, 1980</i> Date</p>
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State Geological Survey
WICHITA, BRANCH

DRILLERS LOG

HARDEN NO. 1-9

CASING RECORD:	OPERATOR: Calvin Exploration, Inc.	DESCRIPTION:
8-5/8" set @ 761' w/475 sax cement	CONTRACTOR: Sage Drilling Co., Inc.	NW SE Sec. <u>9-32S-21W</u> Clark County, Kansas.
TOTAL DEPTH: 5385'	COMMENCED: November 6, 1979	
	COMPLETED: November 17, 1979	

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
P Bed	0	1225	
Red Bed & Shale	1225	2000	
Shale	2000	2236	
Lime & Shale	2236	2361	
Shale & Lime	2361	2600	
Lime & Shale	2600	5240	
me & Shale	5240	5385	Ran DST #1 Logged Hole, D & A.

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

SAGE DRILLING CO., INC.

By John R. Bartholomew
John R. Bartholomew



scribed and sworn to before me this 20th day of November, 1979.

Louise K. Whitted
Louise K. Whitted, Notary Public

My commission expires;
November 26, 1982.

RECEIVED
STATE EXPLORATION COMMISSION
DEC - 6 1979