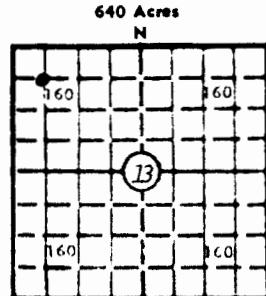


## KANSAS

WELL COMPLETION REPORT AND  
DRILLER'S LOGAPI No. 15 — 083 — 20,769  
County Number

S. 13 T. 23 R. 23 Ex W  
State Geological Survey  
WICHITA BRANCH NW  
County Hodgeman

Operator			
Buttonwood Petroleum, Inc.			
Address			
Box 1869, Liberal, Kansas 67901			
Well No.	Lease Name		
1	HAYS		
Footage Location			
660	feet from (N) (Sf line)	660	feet from XBD (W) line
Principal Contractor		Geologist	
Freeman Drilling Company			
Spud Date	Date Completed	Total Depth	P.B.T.D.
10-27-80	11-10-80	4597'	4536'
Directional Deviation		Oil and/or Gas Purchaser	

Locate well correctly  
2288

Elev.: Gr.

DF 2292 KB 2300

## 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 $\frac{1}{4}$ "	8 5/8"	20#	467'	common	225	2%gel, 3%cc
Production	7 7/8"	4 1/2"	10.5#	4592'	class H 50/50 pozmix	50 150	8%gel 18%salt, .75%CFR-2

## LINER RECORD

## PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft. 6 holes total	Size & type .38 DML	Depth interval 4512-4515

## TUBING RECORD

Size	Setting depth	Packer set at

## ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 gal 15% gelled acid with nitrogen	4512-4515
1000 gal 15% NE acid	"

## INITIAL PRODUCTION

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

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Driller's 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, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Driller's Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator

Buttonwood Petroleum, Inc.

DESIGNATE TYPE OF COMP.: OIL, GAS,  
DRY HOLE, SWDW, ETC.:  
Dry Hole

Well No.	Lease Name
1	HAYS
< 13 T 21S R 23 <del>EX</del> 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 RUN,  
OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Shale		1520		
Lime & Shale		1986		
Shale		2254		
Lime & Shale		2488		
Shale		3083		
Shale & Lime		3245		
Shale		3370		
Lime & Shale		3592		
Shale & Lime		3784		
Lime & Shale		4597RTD		

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

Date Received

Signature

Agent/Buttonwood Petroleum, Inc.

Title

February 24, 1981

Date

## KANSAS DRILLERS LOG

COMPANY Buttonwood Petroleum, Inc.

FARM Hays

NO. 1

SR. 13 + 21 R. 23W  
State Geological Survey 22  
WICHITA BRANCH SW

COUNTY Hodgeman

ROTARY TOTAL DEPTH 4,597'

COMM. October 27, 1980 COMP. November 10, 1980

CONTRACTOR Freeman Drilling Company (Rig #1)

ISSUED November 20, 1980

## CASING

10 3/4"

8 5/8" Set at 467' cemented w/225 sxs cement

5 1/2"

4 1/2" Set at 4,592' cemented w/200 sxs cement

ELEVATION 2300' K.B.

FIGURES INDICATE BOTTOM OF FORMATIONS

Shale	1,520'
Lime and Shale	1,986'
Shale	2,254'
Lime and Shale	2,488'
Shale	3,083'
Shale and Lime	3,245'
Shale	3,370'
Lime and Shale	3,592'
Shale and Lime	3,784'
Lime and Shale	4,597'
Rotary Total Depth	4,597'

I hereby certify the above and foregoing to be  
 a true and correct log of the above described  
 well as shown by the drilling reports

H-30, INC.


 Dean Britting

State of Kansas )  
 ) ss:  
 County of Sedgwick )

Subscribed and Sworn to before me a Notary Public  
 in and for said county and state this 20th day of  
 November, 1980.