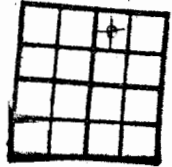


AUG 28 1971

31-31-1W

KANSAS



DRILLERS LOG

BOTKIN NO. 1

CASING RECORD:	OPERATOR: Beacon Resources Corp.	DESCRIPTION:
8-5/8" @ 286' w/195 sax cement	CONTRACTOR: Sage Drilling Co.	C NW NE Sec. 31-31S-1W Sumner Co., Kansas
TOTAL DEPTH: 4043'	COMMENCED: July 17, 1971	ELEVATION: 1226KB DRY/SIMP
	COMPLETED: July 30, 1971	

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Shale & Lime	0	770	
Lime & Shale	770	1197	LOG TOPS:
Shale & Lime	1197	1250	
Sand & Shale	1250	1765	White Cloud Ls 1736
Shale	1765	1830	" " Sd 1747
Lime & Shale	1830	1985	LTD 2000
Sand, Shale & Lime	1985	2185	
Shale & Lime	2185	2457	SAMPLE TOPS:
Lime & Shale	2457	2639	Stal 2668
Shale, Lime & Sand	2639	2905	Kansas City 3010
Lime & Shale	2905	3362	B " " 3056
Lime	3362	3492	Mississippi 3624
Lime & Shale	3492	3624	Kh Sh 3968
Chert	3624	3665	Simpson Sd 4026
Lime	3665	3746	
Lime & Shale	3746	3814	
Lime	3814	3960	
Lime & Shale	3960	3980	
Lime	3980	4025	
Lime, Shale & Sand	4025	4033	
Sand	4033	4043	D&A

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

SAGE DRILLING CO., INC.

By Clarence Michael
Clarence Michael



Subscribed and sworn to before me this 30th day of July, 1971.

[Handwritten signature]