

15-007-20386
23-31-14W

BERGMAN DRILLING, INC.

State Geological Survey
WICHITA, BRANCH

DRILLERS LOG

Re: Lake # 1
Aprox. C NW NE
Section 23-31S-14W
Barber County, Kansas

OPERATOR: Bergman Oil Co. Etal
CONTRACTOR: Bergman Drilling, Inc.
COMMENCED: February 11, 1976
COMPLETED: March 3, 1976
TOTAL DEPTH: 4580' Set 200' 13" w/200 sacks

0	39	Surface
39	180	Sand & Shale
180	200	Shale
200	545	Sand & Red Bed
545	610	Red Bed - Sand
610	1210	Red Bed - Shale
1210	1452	Shale
1452	1477	Anhydrite
1477	1609	Shale
1609	1903	Shale & Lime
1903	2165	Lime & Shale
2165	2435	Lime & Shale
2435	2724	Lime & Shale
2724	2811	Lime
2811	2818	Lime & Shale
2818	2970	Lime
2970	3195	Lime & Shale
3195	3490	Lime & Shale
3490	3705	Lime & Shale
3705	3450	Lime
3450	4030	Lime
4030	4145	Lime
4145	4237	Lime
4237	4279	Lime
4279	4330	Lime & Chert
4330	4575	Lime
4575	4590	Lime & Arbuckle
4580		Total Depth

Set 5 1/2" 4578' w/350 sacks

We certify that the above and foregoing to be true and correct copy of the drillers log on the # 1 Lake, located in Barber County, Kansas, as revealed by the reocrds of Bergman Drilling, Inc.