

5-16-10W

BERGMAN DRILLING, INC.

State Geological Survey
WICHITA BRANCH

Drillers Log

Re: Elsie Oshel # 1
330' S of NL 660' E of WL
S/2 SE/4 Section 5-16S-10W
Ellsworth County, Kansas

OPERATOR: Bergman Oil Company
CONTRACTOR: Bergman Drilling, Inc.
COMMENCED: March 26, 1981
COMPLETED: April 2, 1981

TOTAL DEPTH: 3327' Set 349.49' 8 5/8" w/ 200 sx.

0	350	Sand Shale Post Rock
350	650	Blue Shale Red Bed
650	1300	Anhydrite & Shale
1300	1547	Shale & Lime
1547	1800	Ft. Riley & Florence
1800	1978	Shale - Lime - Broken Lime
1978	2241	Lime & Shale
2241	2585	Shale & Lime
2585	2713	Lime - Shale
2713	2791	Lime & Shale
2791	2910	Shale & Lime
2910	3030	Lime - Lansing - KC
3030	3044	KC. lime
3044	3090	L C.
3090	3160	K. C. Lime
3160	3235	Lime
3235	3295	Lime & Shale
3295	3327	Arbuckle
3327		Total Depth

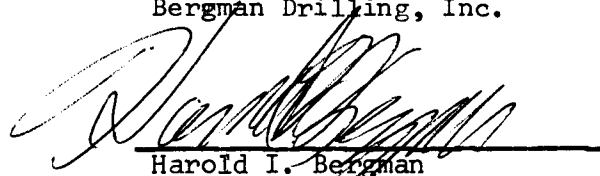
RECEIVED
STATE GEOLOGICAL SURVEY

MAY 21 1981

CONSERVATION DIVISION
Wichita, Kansas

Set 4 1/2 @ 3324' W/100 sx

We certify that the above and foregoing
to be true and correct copy of the
Drillers Log on the # 1 Elsie Oshel,
located in Ellsworth County, Kansas
as revealed by the records of
Bergman Drilling, Inc.


Harold I. Bergman