

13-15-12W

State Geological Survey
WICHITA, BRANCH

BERGMAN DRILLING, INC.

DRILLERS LOG

Re: Heinze A # 2
NE NW SE Section 13-15S-12W
Russell County, Kansas

Elevation 1879 K.B.

OPERATOR: R & H Oil & Gas, Inc.

CONTRACTOR: Bergman Drilling, Inc.

COMMENCED: October 9, 1979

COMPLETED: October 16, 1979

TOTAL DEPTH: Set 202' 8 5/8" w/150 sx

0	67	Surface
67	202	Top Soil & Post Rock
180	202	Cement Plug
202	216	Clay - Shells
216	784	Shale & Anhydrite
784	796	Anhydrite
796	1495	Shells
1495	1695	Shale - Broken Lime
1695	1845	Shale & Lime
1845	2020	Shale & Lime
2020	2240	Lime - Shale
2240	2475	Lime & Shale
2475	2599	Shale & Lime
2599	2725	Lime & Shale
2725	2847	Shale & Lime
2847	3048	Shale & Lime
3048	3155	Lime
3155	3255	Lime & Shale
3255	3345	Lime Shale & Chert
3345	3396	Arbuckle
3396		Total Depth Set 5 1/2" @ 3364 1/2 w/175 sx

We certify that the above and foregoing to be
true and correct copy of the drillers log on the
2 Heinze A, located in Russell County, Kansas
as revealed by the records of Bergman Drilling, Inc.