

**KIM B. SHOEMAKER**  
 CONSULTING GEOLOGIST  
 316-684-9709 \* WICHITA, KS

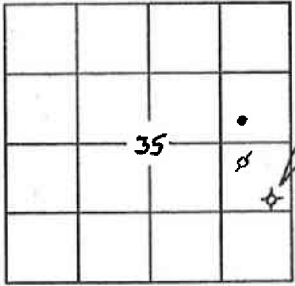
**GEOLOGIST'S REPORT**  
 DRILLING TIME AND SAMPLE LOG

COMPANY L.D. DRILLING, INC.  
 LEASE # 2-35 TANNER  
 FIELD WESLEY  
 LOCATION 1550' FSL & 330' FEL  
 SEC 35 TWP 19s RGE 25W  
 COUNTY NESS STATE KANSAS  
 CONTRACTOR L.D. DRILLING, INC  
 SPUD 1-27-15 COMP 2-6-15  
 RTD 4458 LTD \_\_\_\_\_  
 MUD UP 3544 TYPE MUD CHEMICAL

ELEVATIONS  
 KB 2368  
 DF \_\_\_\_\_  
 GL 2363  
 Measurements Are All From 2368 KB  
 CASING SURFACE 8 5/8" @ 850'  
 PRODUCTION \_\_\_\_\_  
 ELECTRICAL SURVEYS  
 None

SAMPLES SAVED FROM 3600 TO 4458  
 DRILLING TIME KEPT FROM 3500 TO 4458  
 SAMPLES EXAMINED FROM 3600 TO 4458  
 GEOLOGICAL SUPERVISION FROM 3800 TO 4458  
 GEOLOGIST ON WELL KIM B SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		1643+725
B/ANH.		1683+685
HEEBNER		3760-1392
LANSING		3804-1436
B/KC		4132-1764
FORT SCOT		4320-1952
CHEROKEE		4347-1979
MISSISSIPPI DOL.		4417-2049



API: 15-135-25815

REMARKS

1-27-15 SPUD  
 1-28 @ 853'  
 1-29 @ 853'  
 1-30 @ 1739'  
 1-31 @ 2685'  
 2-1 @ 3200'  
 2-2 @ 3615'  
 2-3 @ 4084'  
 2-4 @ 4395'  
 2-5 @ 4425'  
 2-6 @ 4458'

LEGEND

-  Dolomite
-  Chert
-  Ool. Lime
-  Limestone
-  Carb sh
-  Shale
-  Sandstone
-  Salt
-  Anhydrite

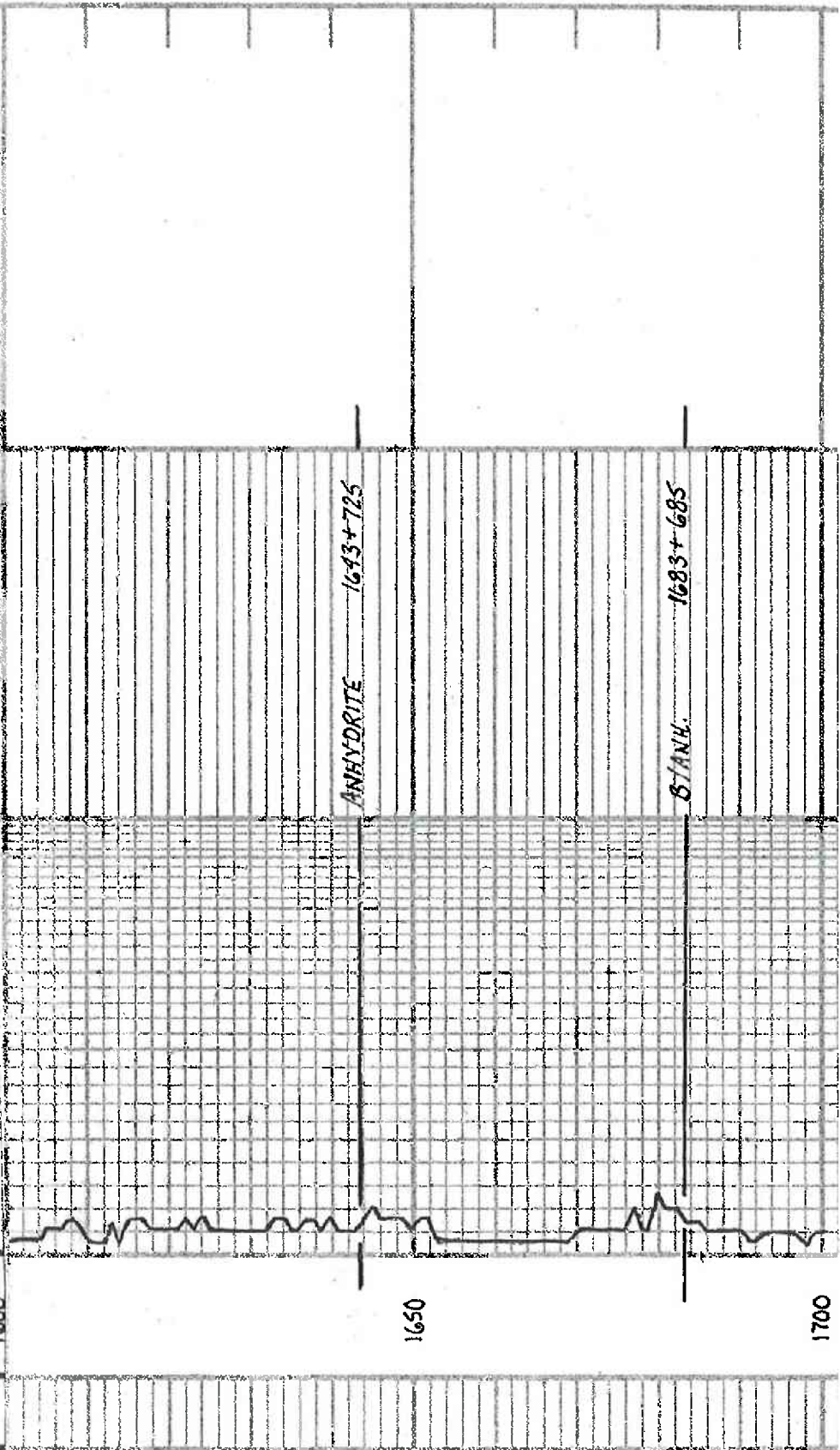
SHOE01-06

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration Increases

DEPTH  
 1600 1650 1700

SAMPLE DESCRIPTIONS

REMARKS





1100

3500

3600

3700

Samples are logged

Alky

sh. blk.

ls. to 1/2 in. fossils - sh. blk.

ls. to 1/2 in. fossils - calcitic

Alky

ls. and cherty

ls. to 1/2 in. fossils - sh. blk.

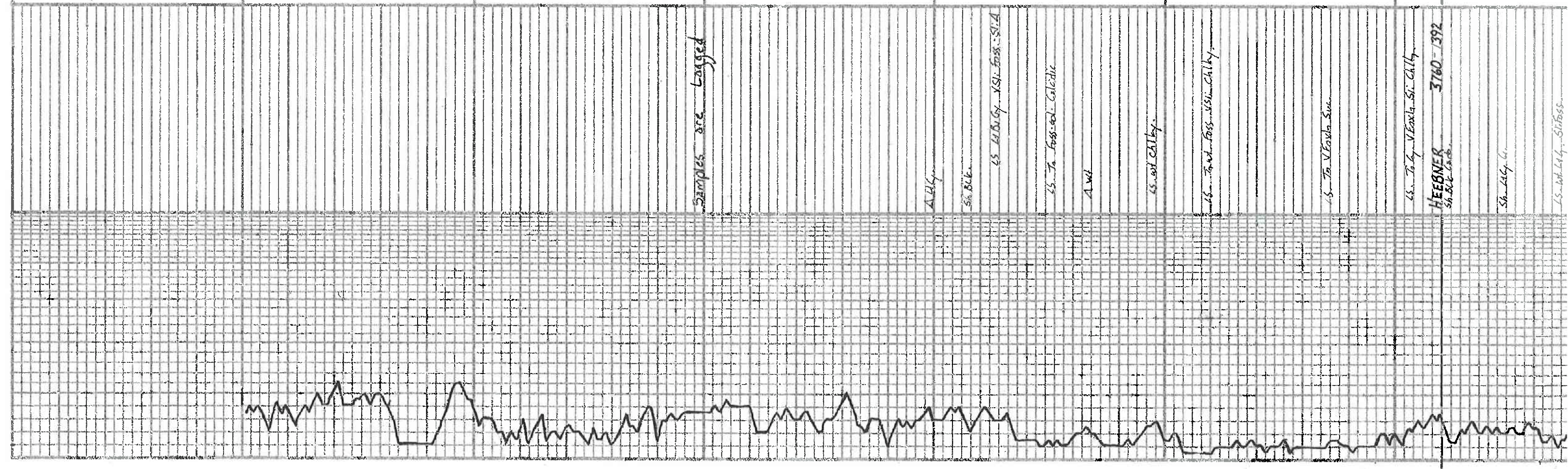
ls. to 1/2 in. fossils - sh. blk.

ls. to 1/2 in. fossils - sh. blk.

HEBNER 3760-1392  
sh. blk. calc.

sh. blk. calc.

ls. to 1/2 in. fossils - sh. blk.





LS. wt. clay, silty

3809-1936

LS. wt. silty

LS. wt. silty

SS. wt. clay, silty

SS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

SS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

SS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

SS. wt. clay, silty

SS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

SS. wt. clay, silty

SS. wt. clay, silty

SS. wt. clay, silty

SS. wt. clay, silty

LS. wt. clay, silty

SS. wt. clay, silty

SS. wt. clay, silty

SS. wt. clay, silty

LS. wt. clay, silty

LS. wt. clay, silty

SS. wt. clay, silty

LS. wt. clay, silty

3800

3900

4000

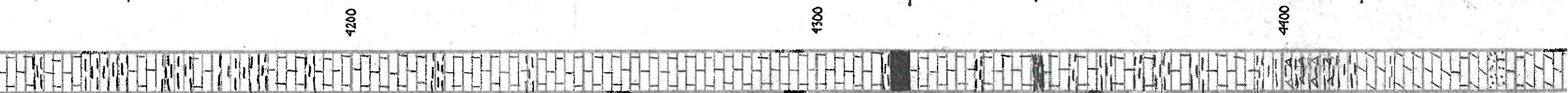
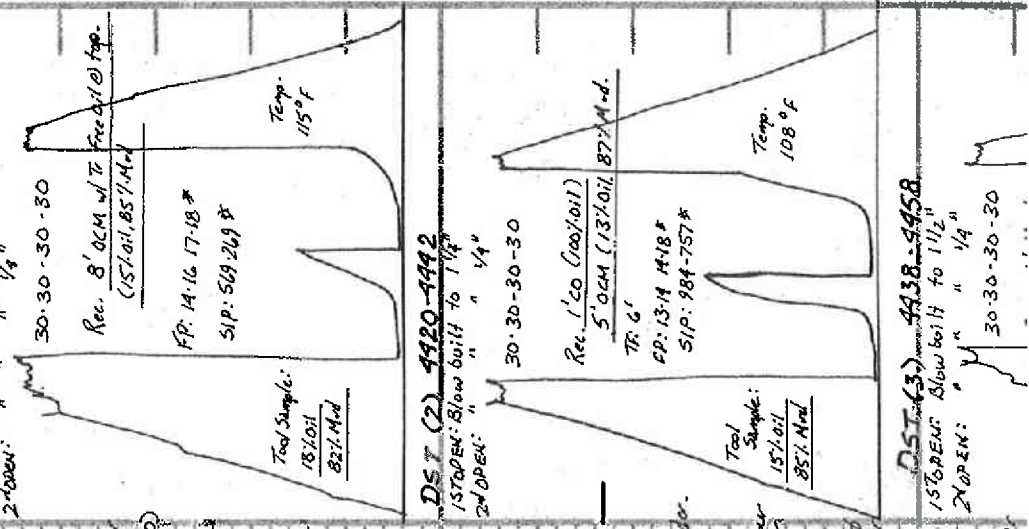
4100

W.T. 88



15. Tally Dm  
**B/KC 9132-1764**  
 15. white. Dm. VSE. Fair  
 Sh. Blue-Gl Silty  
**MARION 4152-1784**  
 15. T. Sil. Fair  
 Sh. Reddish  
 15. 11 y. w/ Red sh. streak  
 Sh. Red. Silty Gm  
 15. w/ L. silty w/ Red sh. streak  
 Sh. Blue-Gl  
 15. w/ L. silty. Sil. Fossil. Chalk  
 15. Yellow. VSE. Chalk  
 Sh. Dk. G.  
 15. T. Sil. w/ Calcite. Shale  
 15. G. VSE. Chalk  
 15. G. Dm.  
 15. G. w/ Fossil. Silty  
 15. G. Dk. G. Silty  
 Sh. Dk. G. Silty  
 Sh. Red. Gable.  
**FORT SCOTT 4320-1952**  
 15. Red. w/ Sil. A. Calcite.  
 15. w/ Sil. Fossil. Sil. A.  
 15. w/ Sil. Fossil. Y. A.

**CHEROKEE 4347-1919**  
 Sh. Dk. G. Blk  
 15. Red. w/ Dm.  
 15. G. w/ Sil. Fossil  
 15. G. w/ Sil. Fossil. P. w/ NE. Sil. Fossil. Dm. Flow. V. Fossil. (4380)  
 15. G. Dk. G.  
 15. w/ V. Chalk  
 15. G. w/ Sil. Fossil. Sil. Chalk  
 Sh. Silty  
 A. Chalk. Orange. Yellow. T. Red. Silty  
 A. w/ Sil. Fossil. Red. Silty. A. Dk. G.  
**MISSISSIPPI DYNAMITE 4417**  
 Dm. G. w/ Sil. Fossil. P. w/ NE. Sil. Fossil. Dm. Flow. V. Fossil. No. Fossil. Fossil. Dm. G.  
 Dm. T. G. w/ Sil. Fossil. Sil. Fossil. Dm. Flow. V. Fossil. No. Fossil. Fossil. Dm. G.  
 Sh. Chalk. Fossil. Silty. w/ Sil. Fossil. Dm. Flow. V. Fossil. No. Fossil. Fossil. Dm. G.  
 15. w/ Sil. Fossil. Silty  
 Dm. T. G. w/ Sil. Fossil. Silty. Fossil. Dm. G.  
 15. T. G. w/ Sil. Fossil. Silty. Fossil. Dm. G.  
 15. T. G. w/ Sil. Fossil. Silty. Fossil. Dm. G.



4200

4300

4400

RTD 4458



