

KIM B. SHOEMAKER

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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RAYMOND OIL COMPANY, INC.
 LEASE #1 BISCHOPING OWWO
 FIELD CELIA EXT.
 LOCATION 1981' FSL $\frac{1}{2}$ 650' FEL
 SEC 19 TWSP 3s RGE 36W
 COUNTY RAWLINS STATE KANSAS

ELEVATIONS

KB 3358
 DF _____
 GL 3353
 Measurements Are All
 From 3358 KB

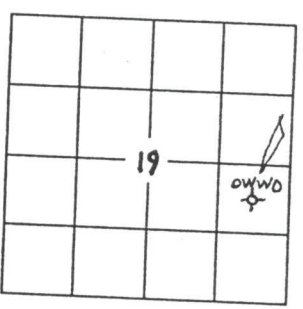
CONTRACTOR L.D. DRILLING, INC.
 SPUD 8-8-14 COMP 8-17-14
 RTD 4595 LTD 4591
 MUD UP 3500 TYPE MUD CHEMICAL

CASING

SURFACE 8 5/8" @ 386'
 PRODUCTION 4 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND., DENS.-N., MICRO

SAMPLES SAVED FROM _____ 4000 TO 4595
 DRILLING TIME KEPT FROM _____ 4000 TO 4595
 SAMPLES EXAMINED FROM _____ 4000 TO 4595
 GEOLOGICAL SUPERVISION FROM _____ 2000 TO 4595
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
<u>ANHYDRITE</u>	<u>3157 + 201</u>	<u>3158 + 200</u>
<u>B/ANH.</u>	<u>3190 + 168</u>	<u>3192 + 166</u>
<u>HEEBNER</u>	<u>4204 - 846</u>	<u>4202 - 844</u>
<u>LANSING</u>	<u>4255 - 897</u>	<u>4252 - 894</u>
<u>STARK</u>	<u>4475 - 1117</u>	<u>4478 - 1120</u>
<u>B/KC</u>	<u>4529 - 1171</u>	<u>4531 - 1173</u>



REMARKS	API: 15-153-20643-00-01
8-8-14 SPUD	
8-9 @ 1234'	
8-10 @ 2510'	
8-11 @ 2845'	
8-12 @ 3444'	
8-13 @ 3788'	
8-14 @ 4140'	
8-15 @ 4475'	
8-16 @ 4555'	
8-17 @ 4595'	

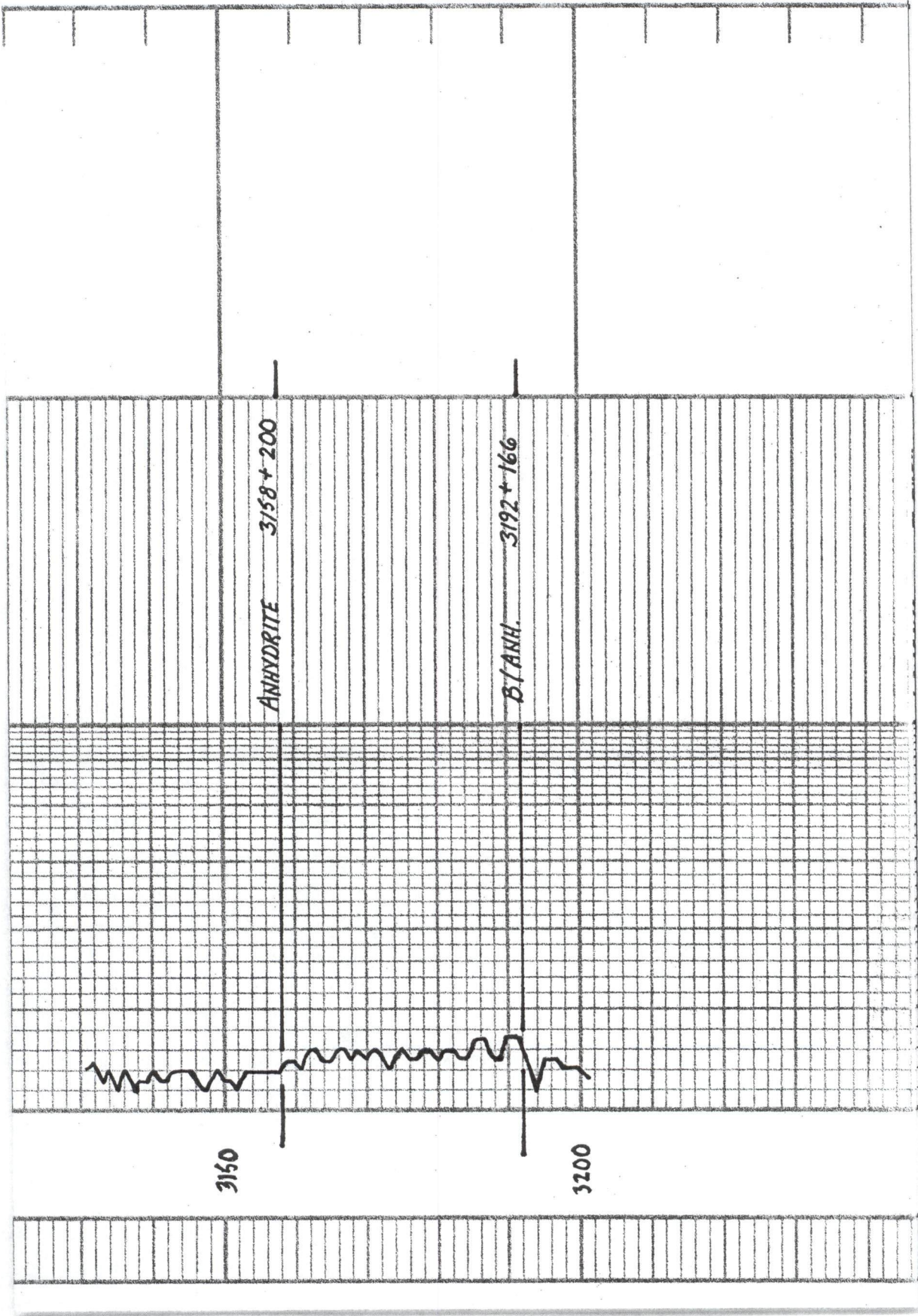
This well was intended to be a cased, well got out of old hole around 2400 +/- Drilled to new TD 485

LEGEND

	Anhydrite		Salt		Sandstone		Shale		Carb sh		Limestone		Ool. Lime		Chert		Dolomite
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SHOE01-06

LITHOLOGY	DEPTH	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Increases	SAMPLE DESCRIPTIONS	REMARKS
	5" 10" 15" 20" 25"	5" 10" 15" 20" 25"		



ANHYDRITE 3158 + 200

B/ANH. 3192 + 166

3150

3200

Mud Check @ 3813

VIS: 53
WT: 8.9
ML: 7.2
CM: 1000

Samples are logged

Sh. clay. Silty

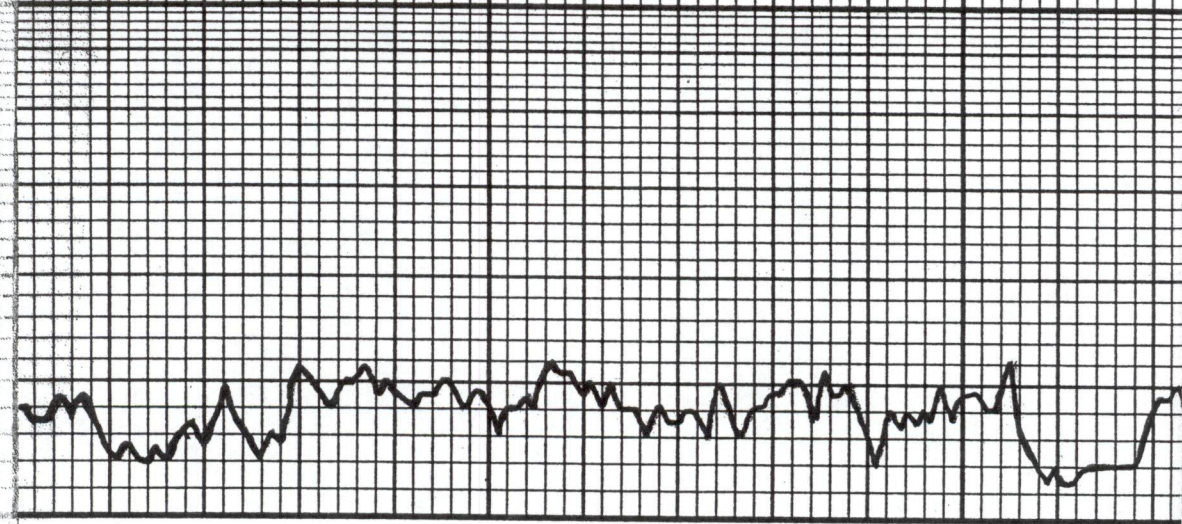
ls. w/ silt. Silty

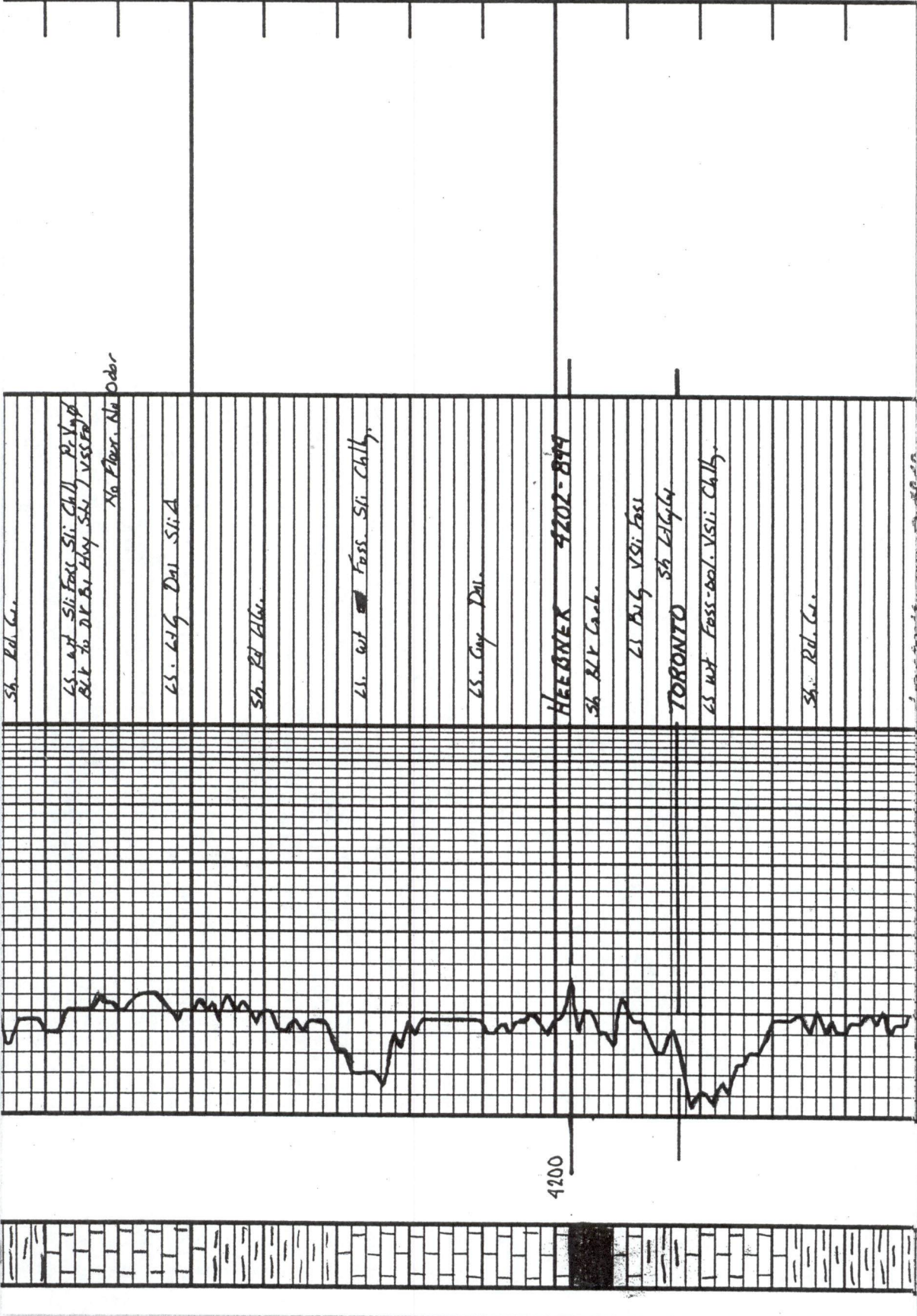
sh. clay. Silty

sd. clay. V. fine. Sub. red. Well. sorted

4000

4100





7271 884

ES. wt. Sil. Foss. Sil. Chalk, Pe. V. of
Seal. Dk. Bl. Sil. 7. Fo. No. E. of
No. 1000

ES. wt. Sil. V. Sil. Foss. Sil. Chalk,

sd. Chalk, V. Sil. Foss. Sub. Red. We'll - 30 ft.

Sh. Ed. Co.

ES. wt. Sil. Foss. Sil. A

Sh. Ed. Co.

ES. To wt. Sil. Foss. Sil. Chalk, Pe. V. of

Seal. Dk. Bl. Sil. SSPD. No. E. of
No. 1000

ES. Gp. Dal. Sil. A V. Sil. Foss.

Sh. Ed. Co.

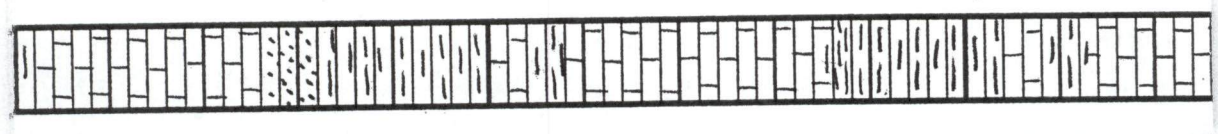
Sh. Ed. Co.

ES. wt. V. Sil. Foss. Chalky

ES. wt. Ed. V. Sil. Foss.

VS: 58
WT: 90
ML: 10
CL: 1000

4300



DST (D) 4432-4475
 1ST OPEN: Blow bit to 8 1/2" 888 None
 2ND OPEN: Bottom bucket 31 MIN. 88: "

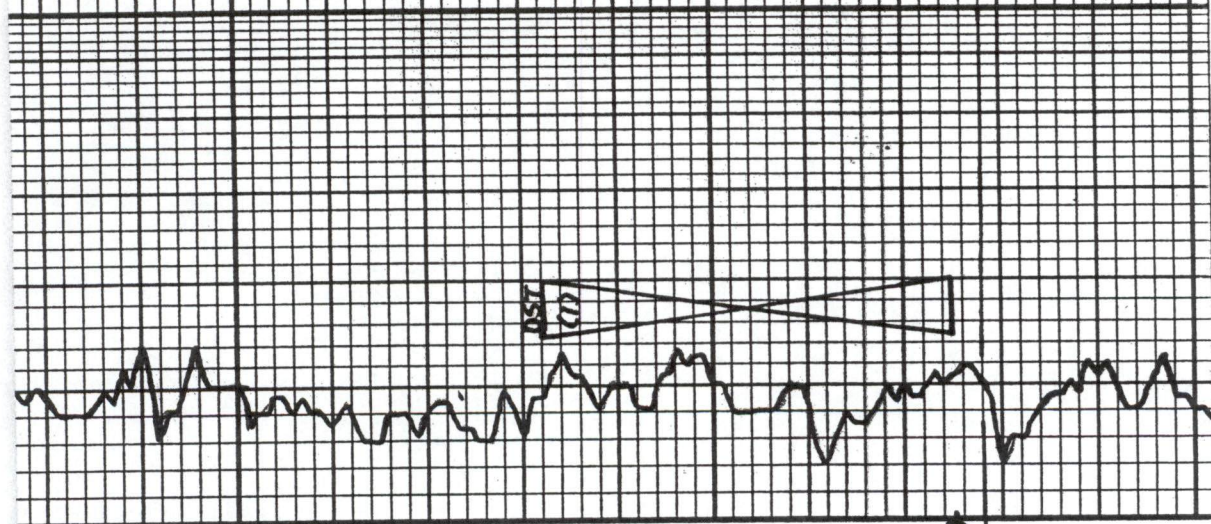
30-60-95-90
 Rec. 270 G.I.P.

45' SMO (88% Oil, 12% M) Temp. 132° F
 65' SMO (71% Oil, 29% M) 192° F
 TP 110' FP: 17-24 25-48*
SID: 128-1266*

Tool Sample: 90% Oil, 10% M

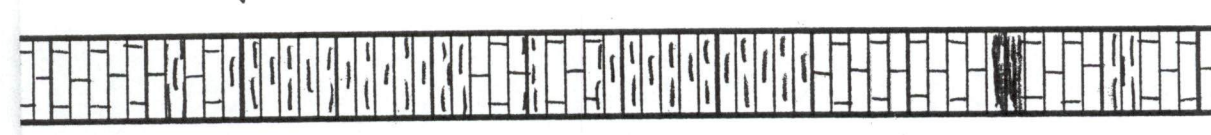
65' Tan. Silty
 65' wt. VSh. Fd. Silty
 Sh. Blky.
 65' wt. VSh. Fd. Silty
 Sh. Blky.
 65' Tan. Fossil. Silty. Fd. Fd. V. Sand
 DE BU SpH. Silty. Silty. Fd. Fd. No Fd. No D. D. D.
 65' G. Silty D. Silty
STARK 4478-4480
 Sh. Blky. DE G.
 65' Silty. Silty
 Sh. Blky.
 65' wt. Silty Fd. Silty

Vis: 50
 WT: 9.1
 W: 7.2
 CIL: 1000



4400

4500



Sh. Bl. G.

Ls. G. Good Sil. Chk. R. V. H. P.
T.D. R. Bl. Sh. Y. S. S. E. D. No. 01001

Bl. K. 4531-1173

Sh. Ark. G.

MARMATON 4538-1180

Ls. Ark. G. Sil. Full Sil. Chk.
7 S. C. Ark. old Sil.
T. P. No. 01002

Sh. Bl. G.

ALTAMONT 4560-1202

Ls. G. Full Sil. A

A Orange Sil. A.

Sh. Bl. G. Sil. G.

A Bl. Orange

Sh. Bl. G. Blue-Gy. Sil. G.

ATO 4595

-1230

4600

