

Max R. Lovely

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **Raymond Oil Co.**

LEASE **#2 Helen Wells**

FIELD **Wildcat**

LOCATION **990' FNL, 1237' FWL**

SEC **18** TWSP **20** RGE **35W**

COUNTY **Wichita** STATE **KS**

CONTRACTOR **H2 #4**

SPUD **9-30-13** COMP **10-7-2013**

RTP **5052** LTD **5054**

MUD UP **3450** TYPE **4WD Chem**

ELEVATIONS

KB **3166**

DF

GL **3155**

Measurements Are All
From KB

CASING

SURFACE **8 5/8 @ 267'**

PRODUCTION **4 Yr**

ELECTRICAL SURVEYS

DI **micro**

COMP MID

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	EMERGENT TOP	ELECTRIC LOG TOP	SUB-SEA DEPTH	STRUCTURAL POSITION
	A	B	C	D
Base Anhydrite	2284	2280	886	888
Stettler	3515	3514	-348	-348
Heebner	3935	3934	-768	-766
Lansing	3987	3986	-820	-820
Stark	4289	4286	-1120	-1127
Marmaton	4468	4466	-1300	-1301
Fl. Scott	4610	4611	-1445	-1444
Johnson	4692	4686	-1523	-1523
Atoka	4736	4736	-1570	-1571
Morrow SH	4816	4819	-1653	-1651
St. Genevieve	4924	4922	-1756	-1761
St. Louis	5001	5001	-1835	-1820

REFERENCE WELLS FOR STRUCTURE

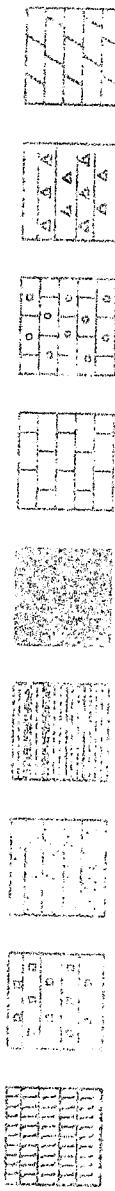
A Raymond #1 Helen Wells NW NE NW NW 18-20-35W

B

C

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Shale
Var. sh
Limestone
Col. Lime
Other
Dolomitic

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卷之三

Studies of Penitentiary Decarceration

LITHIOLOGY

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SAMPLER DESCRIPTIONS

0111 507

BIT TRIP
MUD UP

S.H., RED, BORG, G.R.Y.

3450.
DEV $\frac{3}{4}$.

2300

BASE
2284 + 882

ANHYDRITE
2267 + 899

LS, GRY/TAN, F XTLN, HRD, ABUN
COK + EDSS, VPE, NS

LS, GRY/TAN - W/CONT'D SGS,
LS XTLN, HRD, DAS, TIE

3500

C STOTLER
3515 -349

SH, GRY, STICKY

SH, GRY, SANDY

LS, WHT, GRY, F GRNL R TKT,
FOSS, WHT, EGGS, NS

SH, GRY

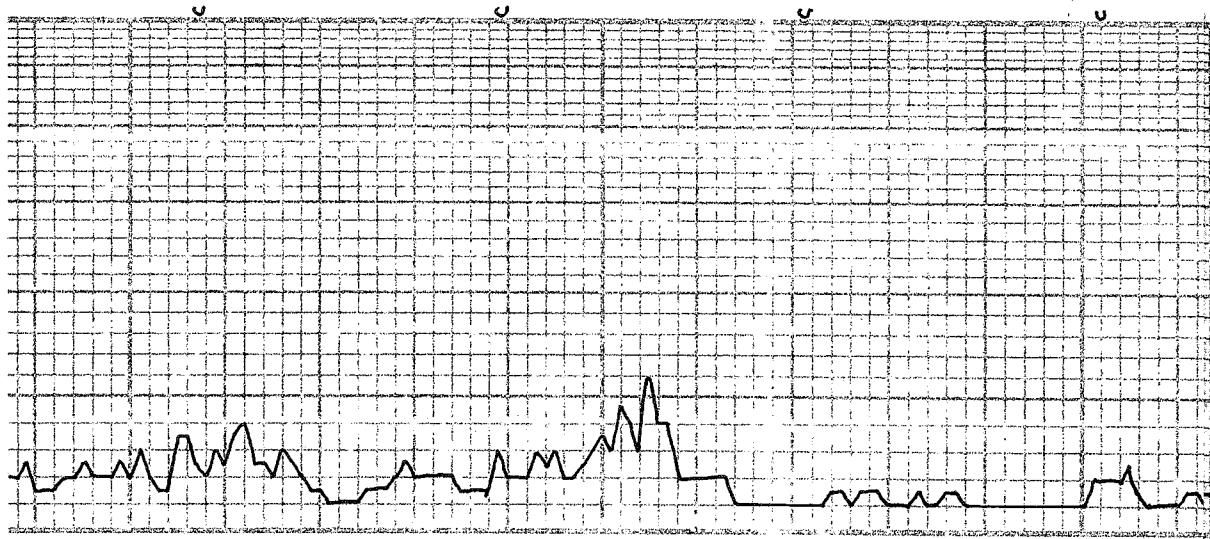
LS, GRY/TAN, VF XTLN, DMS,
HRD, TENS, NS

SH, SLTV, GRY

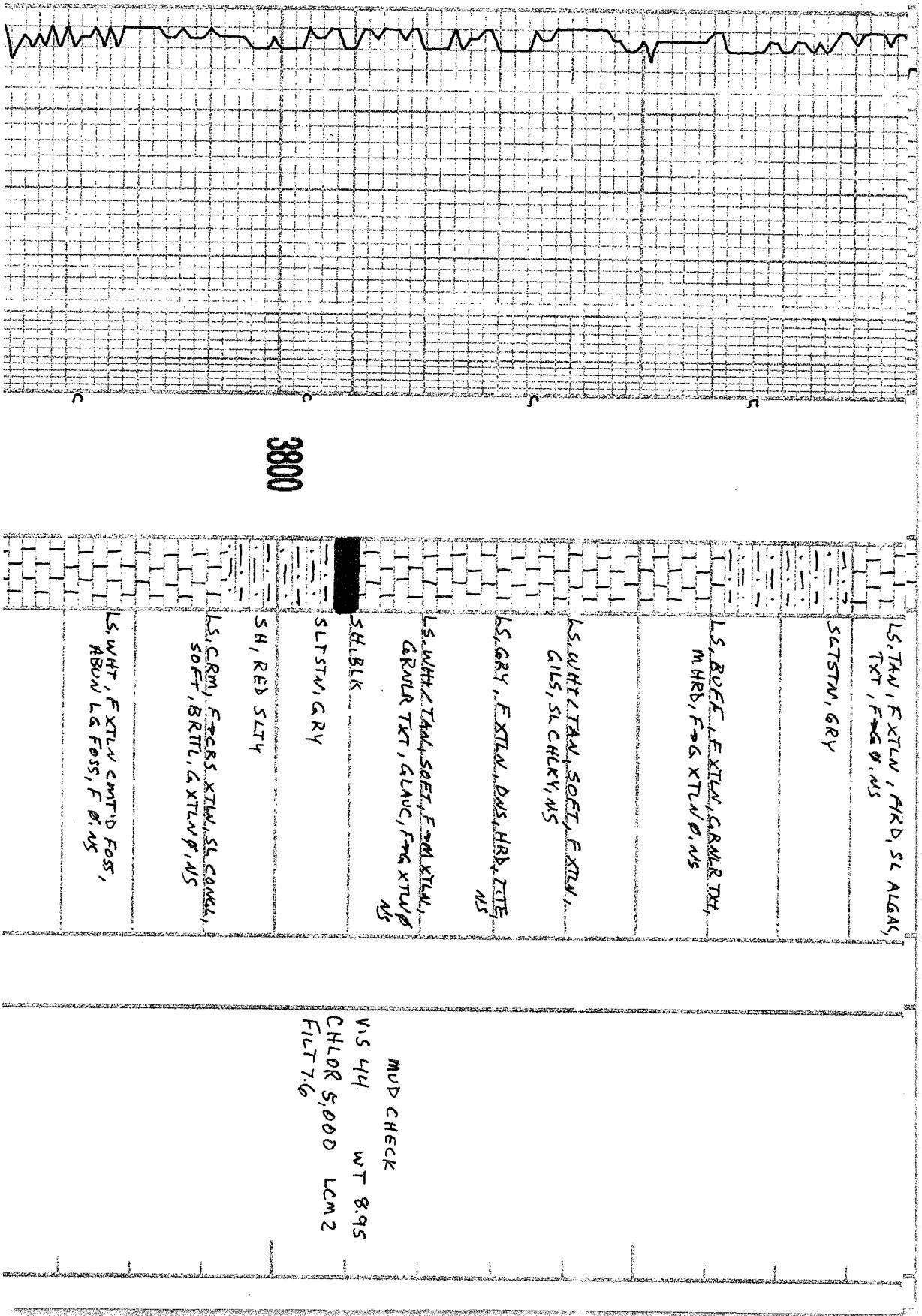
LS, CRM/TAN, F XTLN, MED GRY
XTLS WHT, NS

SH, GRY, RED

360



6700



SH, WHT, LT GRY

L.S. BOFF, F GRNL R TTX, FOSS
INCL'S WH, M HRD, NS

STL BLK

L.S. WHT, GRY, F XTLN, V FOSS,
SL HRD, F GR, NS

3900

L.S., BRN, TAN, F XTLN, M XTLN +
FOSS WH, SL CHCKY, D. NS

LS. WHT, F XTLN, HRD, FOSS,
TITE, NS

SH, SLTY, LMR, WHT, GRY

L.S., CRM, CHCKY, STLY, SOFT, NS

HEEBNER
3935 - 769

SH, GR

CHALK, CRM, SHLY

L.S. TAN, F XTLN, M HRD, DWS
BRTL, ABUN/SML FOSS, NS

THE FESTIVAL : A.R.D. 56-AG-1

L.S., WHT, C.R.M., BRN, FXTLN,
V.FOSS. 1/6

SH, BLK
LS, WHT, CRM, EXTN, H.RD
FOSS, SCT WHT FOSS CHT NS

三

C L A N S I N G
3487-821

CHY, WHT, BRN, SL FSS

A-A-5H, G.R.Y

A U C H T G R Y

LS, GRY, VFTLV, DNS, HBD,
SCT GRYCH

L.S. W.H.T. BRTTL, FXTLN, NY

LSS, WHT, TAN, FXTLN, HRD, ANSW

LS, TAN, VF XTLW, V DAS, V HRD,
TITE, NS

SH, GRY

LS, W HRD, HRD, EXTEN, NOVIS,
NS

A.A.

SH, DK GRY

LS, BUFF, F XTLW, SL HRD, G
VUG &, NS

LS, GRY/TAN, VF XTLW, V HRD,
SCT VUG, NS

LS, GRY/TAN, VF XTLW, V HRD,
DNS, TITE, SCT FOSS, NS

SH, GRY, GRW

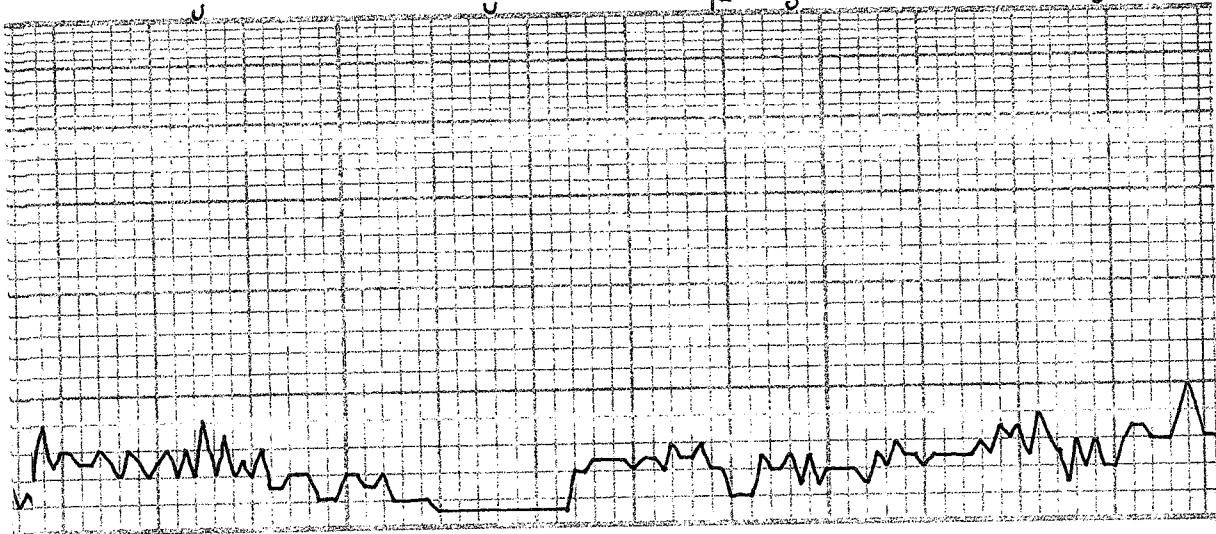
LS, TAN, BUFF, F M XTLW, HRD,
SCT SL GRN/LR TITE, TITE, NS

AA, INCER FOSS, SCT WHITCHI

4100

4200

SH, BLK	LS, TAN, VF XTLN, V HRD, DNS, TITE, NS		
	LS, BUFF, VF XTLN CMTD OOLS, ABUN MED OOLS, TITE, NS		
	S.H., BRNL GRY, RED		
	LS, BUFF, FXTLN, BRTL, ABUN OOM OOLS		
	LS, TAN, VF XTLN CMTD OOLS, HRD, VTITE CMTD, NS		
STARK	S.H. G.R.Y. RED		
4289 - 1123	LS, LT GRY, VF XTLN, DNS, V FEW SET XTLN FILL VUGS, THÉ, NS		
	LS, WHT, FXTLN, HRD, DNS, SET SML FOSS W/N, TITE, NS		
	LS, AA		
	S H FLOOD		



7:AM 10-4-13

H FLOOD

T

4300

DKL60 4340

5

SH, GRY, SLTY - SNDY LS, WHT, F \rightarrow M XTLN, SL HRD, VFEW FOSS, FAIR XTLN & VS			
LS, C.RM, WHT, SOFT, CHALKY, VS	A.A.		
LS, WHT, F \rightarrow M XTLN, HRD, F \rightarrow G XTLN & VS			
LS, WHT, TAN, MAX XTLN, M HRD, FOSS, F \rightarrow VS			
SH, GRY			
LS, TAN, M XTLY, S \rightarrow M TRD, NO VIS. VS			
SS, GRAY MT, CLR F \rightarrow M GRAY, FRIABLE, SOFT, W SOFT, DIRTY, VS			

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BKC

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MATERNATION

4468 - 1302

CRS 45"

EST. CEM. OUT
BRTL, G FLUOR STD VUGS,
MED BRN OR SL FLUOR FO
ON BRK, G VLG P
GRS 45"

FLUOR FO
WTRAY

RAINBOW

WSP DODU KICK-HW

CFS 45"

4500 DEEP

SH, BLK

SH, GRV, RED

LS, WHT, EXTLN HRD, FOGS, SET

LS, WHT, NO VIS, GNS

LS, CRM, WHT, EXTLN HRD, SH,

FOGS, FLUOR OIL, COLOR, VUG

PIEAR FO ON BRK, THIN ZONE

SH, GRV

SH, GRV, RED

LS, TAN, VF EXTLN, DNS, HRD,

TITE, V CLEAN LS, NS

SET PCS, TAN, GHT

SH, BLK

MURIC

4600

4598 - 1444

LS, BRN, VF XTLN, HRD, G. OIL
COAT'D BEDDING PLANES, FEW BRN
FO'NTRAY
SH, BLK

2
2
2

LS, BRN, TAN, GRY, VF XTLN, V HRD,
DNS, FOSS, TITE, NS

Few
Foss

7:AM 10-6-13
COND' FROM DST#2

DST#2 4557-4608
30.45.90

IF: Y/N, d.ed 26 min
FF: NO BLO
REC: 10'M

FP: 30-32, 48-35
SP: 1173 - 1126

HP: 2275-2260

ADJUST CHART
C 4643 - 1477

SH, BLK

SH, GRY, DK GRY
LS, TITE, NS

LS, TAN/WHT, FXTLN, M HRD, NS

SH, GRY, SLTY

MUD CHECK

VIS 6.5 WT 9.5
CHDR 7,000 LCM2
FILT 9.2

JOHNSON

4692 - 1526

SCT BLK, V HRD
LS, WHT, TAN, VF XTLN, HRD, ABUN
FOSS, TITE, NS

LS, WHT, FXTLN, M HRD, SCT BLK
DD OIL STNG, NO FO, NO OODR
ALLS?

LS, TAN, GRY, VF XTLN, HRD, DNS
TITE, NS

4700

4468 -1302

LS, WHT, CRM, FXTLN, VHRD,
DNS, NS

ST.GRY

ATOKA

4736 -1570

CHT, BRN, GRY, SCT Foss, FRESH

NS

A A

LS, WHT, TAN, BRN, UF XTLN, DNS.

HRD, TITE, NS

LS, A.A.

CHT, TAN, WHT, BRN, FXTLN, Foss

FRESHNS

D D

D D

D D

D D

LS WHT, GRY, FXTLN, HRD, DNS,

SCT GRY XTLN WIN, TITE NS

4800

MORROWSH
47816 -1650

X SH, BLK

SH, GRY

A.A.

SH, GRY, GRN, PYR

SS, WHT+GRN CMT, F \rightarrow m GRNS,
W SORT, RND, F \rightarrow P CMTD,
BINS

SH, GRY, GRN, BLK

LS, WHT, CRM, FXTLN, ABUN SML
FOSS, CHTV-WHT, TAN, NOVIS

SS, WHT GRNS, WHT + GRN CUT,
SOFT, W SORT, FG RNS, GR, NS

4900

A.A.

Miss
C 4924-1758

LS, BLK, TAN, F \rightarrow m xTLN, HR,
TITE, NS

LS, WHT, CRM, F \rightarrow c RS xTLN,
HRD, SL GRN CL RT, T, NS

R.A.

LS, BRN, TAN, FXTLN, DMS, HR,
TITE, NS

