

GEOLOGICAL REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Great Plains Energy, Inc
 LEASE Braun # 1-25
 FIELD Wildcat
 LOCATION SE SE SE
 SEC 25 TWSP 2S RGE 24W
 COUNTY Norton STATE Kansas

ELEVATION
 KB 2423'
 DF 2421'
 GL 2418'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WW Drilling Rig #6
 SPUD 8-30-13 COMP 9-5-13
 SAMPLES SAVED FROM 3200' TO R.T.D.

CASING
 Surface 8 3/8" @ 220'
 Production 5 1/2"
 ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<i>E. Log</i>	-0-	-0-		
Anhydrite	1984	1981	+ 442		+ 444		
Base Anhydrite	2012	2009	+ 414				
Topoka	3219	3219	- 796	-797-	-806		
Heebner	3398	3397	- 974	- 975-	- 980		
Toronto	3429	3427	-1004	-1009-	-1010		
Lansing	3441	3439	-1016	-1019-	-1024		
Base Kansas City	3623	3623	-1200	-1208-	-1204		
Marmaton	3663	3664	-1241	-1246-	-1247		
"Gorham Sand"	3671	3671	-1248		-1262		
Granite	3691	3691	-1268	-1259-	-1291		
Total Depth	3744	3744	-1321		-1295		

REFERENCE WELLS

- A Raymond Oil Co, Inc. Schulze #1, C-SW-SE sec 24-2S-24W
- B Richard G Smith; Foley #1, C-SW-SW sec 36-2S-24W
- C
- D






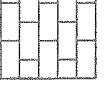
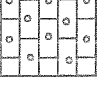
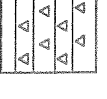

REMARKS

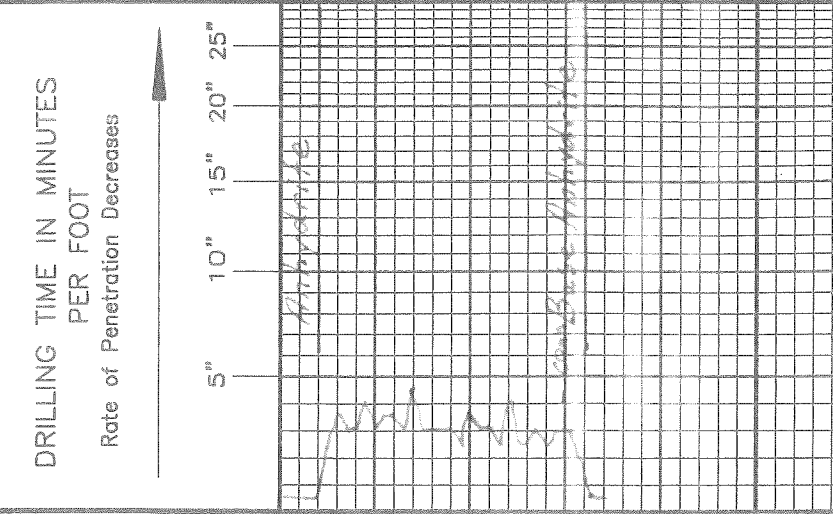
This well ran 3 to 8 feet higher on the Lansing top than the reference wells. Encouraging results on L.S.T. #1 warranted the cementing of production casing to further test the well. The following zones should be tested; 3577-3580' and 3470'-3473'.

Richard G Bell
9/5/13

7502

LEGEND

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



LITHOLOGY	DEPTH	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARK
Anhydrite	1986			
Base Anhydrite	2000			

Samples are
Good Sampl.

3150

-60m

3200

-60m

15000

20

-60m

40

60

-60m

80

3300

-60m

20

-60m

40

-60m

Sh: brn + gry

LS: wh-ta-gr-feln ds
Tr: LS: gry fslf ds. Pyrite

LS: ta-lt gry feln Tr. pp pp
N.S.O.

LS: wh-ta-lt gry feln Tr. pp pp
N.S.O.

Sh: brn sh + gry

LS: wh-ta-lt gry feln ds
pp N.S.O.

med cky (still lat of sb)

LS: wh-ta-lt cky-feln ds

Sh: brn + gry

LS: wh-ta-lt gry feln-sh fslf
Tr. wh

Tr: ss: brn-lt brn fn-gr consol.
lagged N.S.O.

Sh: brn, grn

LS: wh-trcky-feln Tr. sl.
ool pp ffrable N.S.O.
Tr. wh-or

LS: wh-ta-lt cky-feln Tr. sl fslf
frable in xln N.S.O.
Sh: brn + gry

LS: wh-ta decr. cky-feln
pp - vgy ffrable N.S.O.

LS: ta feln ool pp N.S.O.

a.a.

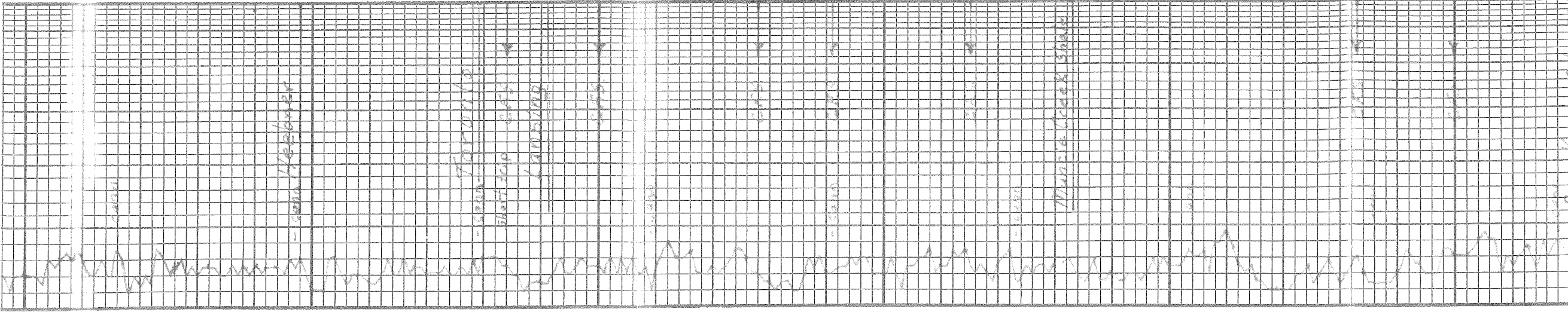
sh: brn + gry

LS: wh-trcky-feln ool pp
N.S.O.

sh: gry

LS: wh-ta-lt gry cky-feln
ds N.S.O.

LS: wh-trn sl. cky-feln Tr. gaur



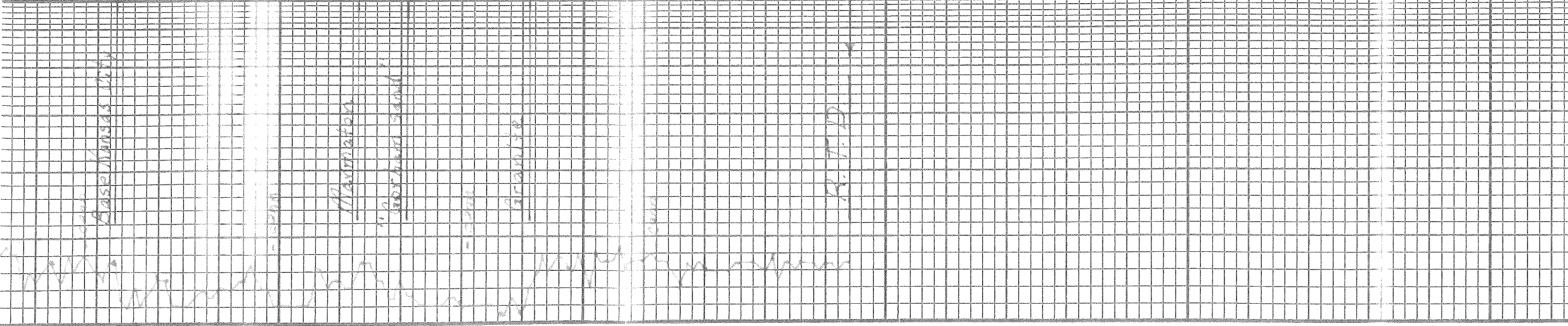
Sh: gr.	LS: wh-tn-lt. gry. cky. fair dms N.S.O.	30
Sh: gr.	LS: wh-tn slt. cky. fair Tr. g. and SPKs S.L. fess. incl. pp. N.S.O.	3400
Sh: wh-tn cky. fair oil pp	N.S.O.	20
Sh: wh-tn cky. fair Tr. pp	N.S.O. & wh. lt. gry	70
Sh: blk carb		
LS: tn fslf dms		
Sh: gry		
Sh: brn slty	LS: wh-tn fsl. oil w/ fess. incl. as pp. Lt. Spd O Stn Tr. pp F.O. on crushing Lt. cut No odor	3600
Sh: wh-tn fsl. Tr. oil Tr. pp. Lt. Spd O Stn VRT pp F.O. on crushing fr. cut No odor		
Sh: brn, gry. gm		
Sh: wh-tn slt. cky. fsl. sub oil - slt. oil Tr. pp. Lt. cut N.F.O.		
Sh: brn, gry. gm		
Sh: wh-tn slt. cky. fair 1000 pp. - in part. Lt. fess. fr. oil Tr. pp. Lt. O Stn mostly barren Tr. pp. F.O. on crushing No odor		
Sh: wh-tn slt. cky. fair dms N.S.O. & wh-tn		
R.T. v. soft blk carb. sh.		
Sh: gry. slty		
Sh: lt. brn slty		
LS: wh-tn-lt. gry. slt. cky. fair dms N.S.O. & tn		
Sh: gry. lt. brn		
LS: yel fslf dms		
Sh: brn slty		
LS: wh-tn slt. cky. fsl. - fslf oil w/ abundant fess. incl. pp. - in part. Lt. O Stn Tr. pp F.O. fr. odor		
Sh: brn		
Sh: as		
LS: wh-tn-lt. gry. fsl. Tr. pp mostly dms Tr. tn fslf w/ Lt. Spd O Stn Lt. cut N.F.O.		
LS: wh-tn fsl. dms cpl. pos. w/ aspl. Stn N.E.R. No odor		

Trilobite Te

DST#1 345
30-60-30
IF: B.O.B. in 9
ISI: w/ blow in
FF: 3-5-8
101 w/ blow
Recovery: 2
368 Total f
248' G.O. 20%
60' G.M.C. 10%
60' G.M.C. 10%
HYD: 1705-12
FP: 19-81/92
BHP: 1208-120
BH Temp: 97.4
Gravity: 33.0 N

Strap 349
Board 349
Diff.
Incline @ 347.

DST#2 35
30-60-30
IF: w/ blow in
FF: No blow
Recovery: 60
HYD: 1745-17
FP: 12-28/21
BHP: 1082-10
BH Temp: 98.0



Mostly drs Tr. to 75H 1 AT. Sp. O. 5th Lt. cut N.F.O.	LS: wh-fn fx in drs cpl. pos. w/ asph stn N.E. No odor	sh: brn	LS: wh-fn fx in drs	SS: th. gn. consol. c/c. - fester rnd - ang friable fr. to 0.5 in fully diss. O. ft. odor Trapped	SS: a. SS: unconsol. coarse gn. ang. - sub end clc. - frosted NSA	Quartz, biotite, feldspar	Red color, white	Qtz, felds, biot.	sh: brn	Qtz, biot, felds	Qtz, biot, felds.							
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DST#3 34
 30-60-45
 IF: wk blow inc
 FSI: No blow inc
 FF: wk blow inc
 FSI: No blow
 Recovery: 20
 82' MW 85%
 115' MW 90%
 5' M
 HYD: 1861-182
 FP: 20-77/
 BHP: 950-92
 BH Temp: 980
 Chlorides: 70

Board 37
 Strap 37
 Diff.
 Incline @ 37

