

Marc A. Downing Consulting Petroleum Geologist	Geologic Report Drilling Time and Sample Log
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Operator Koron Investments, Inc.			Elevation	
Lease Baughner A		No. 4-29	KB	2321
API # 15-195-22983-0000			DF	
Field Ellis NW			GL	2313
Location 1870' FNL & 2640' FWL			Casing Record	
Sec. 23 Twp. 12s Rge. 21w			Surface	
County Ellis State Kansas			8 5/8" @ 221'	
			Production	
			5 1/2" @ 4091'	
			Electrical Surveys	
			CNDL, DIL,	
			MEL	

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	NA	1705	+616	+6
Base Anhydrite	NA	1752	+569	NA
Topeka	3354	3347	-1033	+4
Heebner	3572	3566	-1251	+6
Toronto	3591	3584	-1270	+6
LKC	3607	3601	-1286	+5
BKC	3844	3838	-1523	+4
Marmaton	3908	3903	-1587	+7
Arbuckle	3983	3978	-1662	+3
Total Depth	4092	4088	-1771	

Reference Well For Structural Comparison Steven D Angle
Baughner #1 100' W, C-E/2-SE-NW Sec. 23-12s-21w

Drilling Contractor	Discovery Drilling, Rig #2		
Commenced	12-11-14	Completed	12-17-14
Samples Saved From	3350	To	RTD
Drilling Time Kept From	3250	To	RTD
Samples Examined From	3350	To	RTD
Geological Supervision From	3250	To	RTD

Summary and Recommendations

Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion in the Arbuckle.

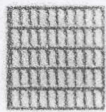
Perforate:

- Arbuckle:** 4021-4024 (DST #2 - Squeeze if wet)
- 4009-4013 (DST #3)
- 4001-4006 (DST #3)
- LKC I:** 3759-3763 (DST #1 - Before abandonment)
- Toronto:** 3586-3590 (Before abandonment)

Respectfully Submitted,

Marc A. Downing

LEGEND



Anhydrite



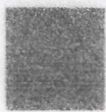
Salt



Sandstone



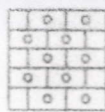
Shale



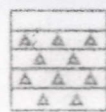
Carb sh



Limestone



Ool. Lime



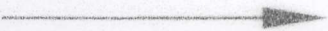
Chert



Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



5"

10"

15"

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

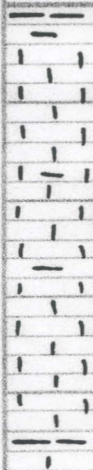
REMARKS

3250

3300

50

Topeka
3354(1033)



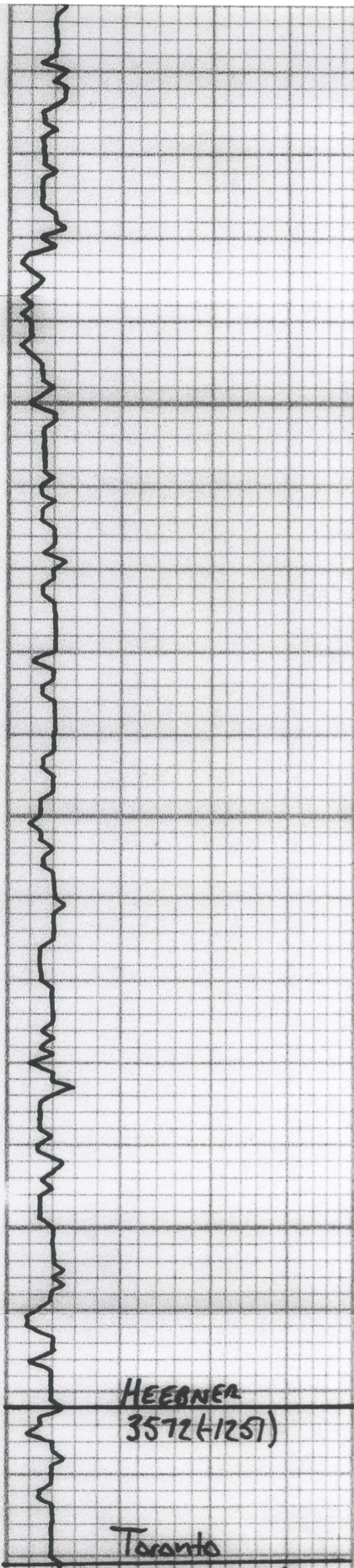
Sh: gry

LS: Lght. tan, Fm- med
xln, sub xln in prt,
NS.

LS: Lght tan, Fm xln, prgy
+ chms, NS.

LS: Lght tan, Fm xln, sub in
prt. Scot fr sat str, Fr SPD,
Fr Ad. frant chky ex.

Sh: drk gry



LS: wht-tan, fm-md xln, mostly prs, NS.

LS: wht, md xln, subxl-chlky.

LS: wht, fm-md xln, mtd in prt. Many chlky rx, All NS.

30

Sh: Black Carb

Sh: ggy

LS: Lght, fm-ufn xln, prs

Sh: ggy

LS: wht, fm-md xln, 1-2 rx wll fr stn + SFO in fr vngs, fat cd. Rest prs + dm's

Sh: ggy

3500

LS: wht, fm xln, chlky

Sh: Black Carb

Sh: ggy
 LS: wht, md xln, smol foss. Scat vngs wll lt brn stn, softd SFO, mostly subxln, lt cd. Scat tan chkb.

LS: 2-3 rx wll shale AIA, frng chlky

50

LS: Tan-whit, fm-md xln, sltly mtd, few foss.

LS: wht-tan, fm-md xln. Subxln-chlky, mtd in prt, NS.

Sh: Black Carb

Sh: ggy

HEERNA
 3572(1251)

Toronto

LKC

3607(-1286)

3600

Sh: brn w/ gry
SFA, 14 Od.

LS: wht, md xln, scat fess + ocl. 2-3 or w/ fr vngs, fr sat sta, fr SFA, fr Od.

Rx tray sub xln-chiky.
LS: wht, fr xln, prs + dms.

Sh: gry

50

LS: wht, fr xln. Mostly sub xln-chiky. Scat smt vngs w/ fr brn sta, sp ttd SFA, fr. No Od. Tom chnta. Tray prs.

Sh: gry

LS: wht, fr xln. Mostly prs, scat sub xln rx. Scat pr sta, NSFA, No Od.

Sh: gry
LS: wht, fr xln, sub xln-chiky. Tray prs + dms, NS.

3700

LS: wht, fr vfr xln. Fr-gd vngs, gd sat w/ gd SFA, Fr-gd Od.

Sh: gry
LS: wht scat rx AIA, pass carry. Tray mostly sub xln-chiky, 14 Od, NS.

LS: wht, fr xln, prs + dms. Scat tom + wlt chnta.

50

D
S
T
#

Sh: Black Carb

Sh: gry

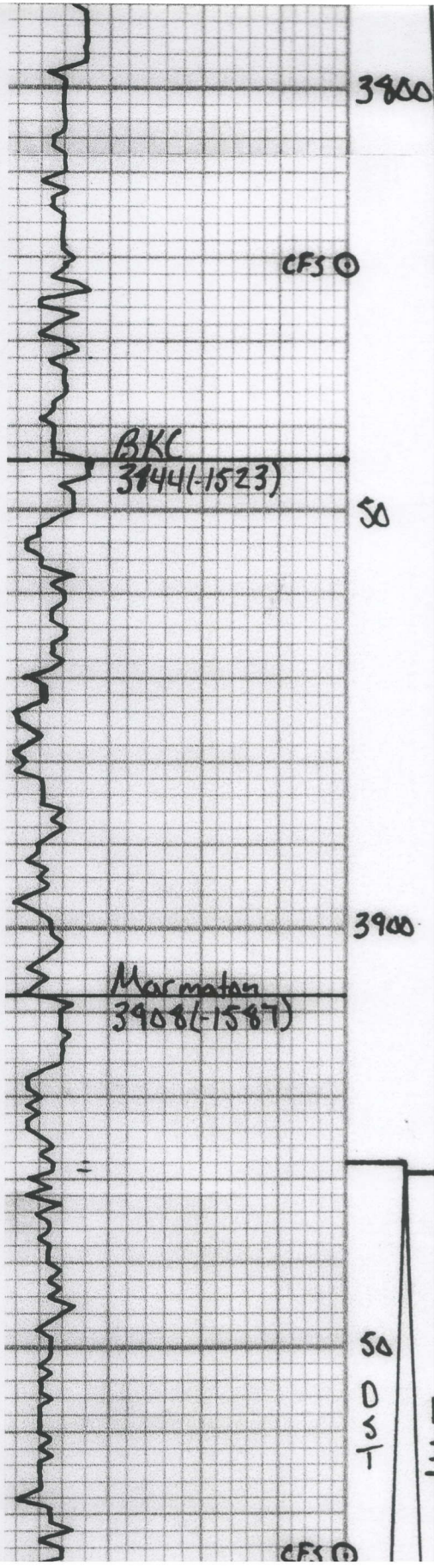
LS: wht, fr, md xln. Mostly prs

Sh: gry
LS: wht, fr, md xln, scat fess. fr vngs, fr sta, sp ttd SFA, 14- fr Od. Many sub xln rx.

Sh: gry
LS: wht - tom, ocl. 2-3 rx w/ pr ooc & C. sh. wtd SFA 14

Vis: 59 Wt: 9.1

Ost #1
3730-3821
30-30-30-30
I.F. - 1 1/2"
F.F. - 2"
IFP: 61-67
FFP: 70-74
SIP: 364-251
HP: 1848-1798
Rec:
40' o/wcm 2.5%
2.5% w



LS: wht, fm xln, pps + chms.
 Sh: gry
 LS: wht, fm xln, pps. scat str, NSFO, No OD.
 LS: wht, fm-mid xln, pps + chms, NS.
 Sh: gry-drk gry
 LS: wht, fm-mid xln, pps. Subxln in part, NS.
 Sh: gry
 Sh: gry
 LS: wht, fm xln, pps, chms.
 Sh: brn w/ red
 LS: wht, fm xln, pps, chms
 Sh: brn
 Sh: brn
 LS: wht, fm-vfm xln, pps, chms.
 LS: Tom - wht, fm-mid xln. Scat smt ung + pps, fr str, sat, pttld sps. Frant tom shp chnta. Scat weather chnta, fr edge str, H. fr ad.
 Sh: brn, fr amt org + tom chnta.
 Sh: brn, Abnt org + tom shp chnta.

DST #2
 3929-4029
 30-45-30-45
 I.F.-8086.5 min
 F.I.-8089 min No SIB
 IFP: 85-298
 FFP: 305-432
 SIP: 1237-1241
 WP: 1954-1919
 Rec:
 2' CO
 189' ocm 40%
 63' ocm 57.0
 189' ocm 25% 27.5%
 126' ocm 57%, 45%
 189' ocm 10%, 45%
 63' ocm 57%, 65%
 126' m 70%
 63' m 40%
 BHT: 126' Chlor: 34K
 DST #3
 3926-4020

Arbuckle
3983(1662)

3
4000

CFS ①
CFS ②

#		
2	mostly tern - org chita, slp. 2-3 Res deb. tern, md rhom xln, fr vng s, fr str, spid SFO, Fut Od. Data: Tern, md suc xln, Few vngs. Fr str, SFO. 2-3 ss clast, md. crs. well md. fr sat, SFO. Much ool chita Data: Tern - wht, md rhom xln, Fr vngs. Scat tile ex. fr-gd sat w/ fr-gd SFO Data: wht. tern, md rhom xln. pr. fr vngs, tite. Scat gd sat, fr SFO, fr-gd Od. Data: wht, md rhom xln. gd intxln, Scat gd vngs. gd sat w/ gd SFO, gd Od. Data: wht, fr - md rhom xln, Fr-gd intxln. Tern mostly barren, No Od. Data: Same AIA, Tern fr suc xln. Scat chikng ex, Fr amt chita, All NS.	

50

RTD: 4092(1771)
LTD: 4088(1767)

4100

I.F. - 6"
F.F. - 4"
IFP: 64-100
FFP: 103-128
SIP: 970-884
HP: 1946-1898

Rec:
3' CO
30' OCM 46%
63' OCM 10%
63' OCM 5%

BHT: 120"

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