

ROBERT T. HOPKINS, L.G., C.P.G.
709 Harold Ave.
Salina, Kansas 67401
cell (785) 819-2460

May 24, 2013

Solutions Consulting
Attention: Herb Deines
108 W. 35th
Hays, Kansas 67601

Werth Exploration Trust – Worcester M-2, Section 21, T7S, R22W,
Graham County, Kansas

Herb and Andy:

Attached to this summary letter is my lithologic log for the above-captioned well. As recommended by myself and the open-hole logger, Operator elected to plug the above-captioned well. This decision to plug was made due to the low structural position of the M-2 well. The M-2 was barely higher than a nearby dry hole and low to other wells in the area (see below). The decision to plug was supported by a poor DST result and a lack of good oil shows in very thin, LKC zones which had only slight porosity. The DST (3546-3573') recovered 868' of muddy water from a test of slight oil shows in the D, E, and F zones of the LKC.

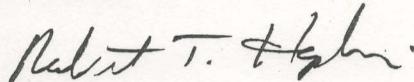
Showers were observed in the A, D, E, F, and K zones of the LKC. These showers consisted of very slight to fair oil stain, no odor, weak fluorescence, and no to fair free oil in well cuttings. Note that the samples were very poor following the DST, consisting almost entirely of uphole shards of red and gray shale.

LOG TOP COMPARISON:

<u>Formation</u>	<u>M-2 Worcester log tops</u>	<u>compared to Worcester #1 (to S)</u>		<u>compared to Worcester M-1 (to N)</u>	
Anhydrite	1888(+376)	-16	(+392)	+1	(+375)
Topeka Ls.	3251(-987)	+1	(-988)	-9	(-978)
Heebner Sh.	3456(-1192)	+2	(-1194)	-9	(-1183)
Top LKC	3498(-1234)	-0-	(-1234)	-13	(-1221)
LKC "E"	3556(-1292)	+2	(-1294)	-6	(-1286)
LKC "H"	3622(-1358)	+5	(-1363)	-8	(-1350)
LKC "K"	3674(-1410)	+4	(-1414)	-11	(-1399)
Base KC	3694(-1430)	+2	(-1432)	-12	(-1418)

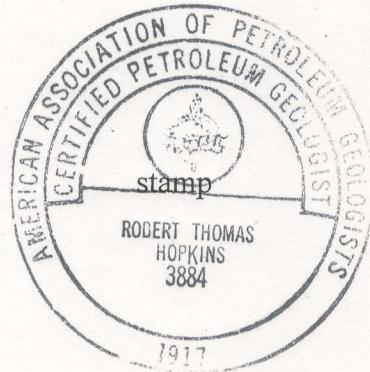
If you have any questions, please call me at 785-819-2460. Thank you for this opportunity to serve you!

Sincerely,



Robert T. Hopkins, L.G., C. P. G.

attachments



LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator WERTH Explor. Trust
 Lease / Well WORCESTER M-2
 GL 2259' KB 2264* (measure from *)

Location SW SE SE Sec. 21-T 7S-R 22W

County Graham State KS

scale 1" = 20'

depth this sheet - from 3200 to 3380

page 1 of 3

DRILLING TIME (min/ft)

DEPTH

tops
shows
graph

DESCRIPTION (lithology, shows, mud properties)

1 2 3 4 5 6 7 8

3200

red sh.

MUD vis 60
wt. 8.9

dk gry carb. sh.

bf-gry fn-mod. llt. lst., sl. foss., n.s.

bf-gry fossil. llt. lst., n.s.

gry-dk gry sh.

Topeka 3255'

50

gry. limy to sandy sh.

gry-bf fossil. fossiliferous llt., llt., n.s.

↓

gry sh.

bf fossil. chalky llt., sl. φ, n.s.

gry sh.

bf chalky llt., sl. φ, n.s.

gry sh.

bf-gry fossil. llt., llt., n.s.

MUD vis 70 wt 8.9

bf chalky soft llt., sl. φ, n.s.

↓

bf fn-mod. llt. llt., n.s.

dk gry-blk sh.

gry sdg sh. - gry sh.

bf fossil. llt. llt., n.s.

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator Went Explor. Trust
 Lease / Well WORCESTER M-2
 GL KB 2264 (measure from *)

Location SW SE SE 21 - 7s - 22w
 County Graham State KS
 depth this sheet - from 3380 to 3560

scale 1" = 20'
 page 2 of 3

DRILLING TIME (min/ft)

1 2 3 4 5 6 7 8

DEPTH

tops
shows
graph

DESCRIPTION (lithology, shows, mud properties)

3380

bf frxls fte kt, n.s.

MUD VIS. 61; wt. 9.0

3400

(sl. fossiliferous, w/sl. ϕ , n.s.)

dk gry sh - sdy sh - blk sh.

bf frxls mtdls lst, sl. cherty, fte, n.s.

gry sh

MUD VIS. 61; wt. 9.0

bf frxls cherty lst, fte, n.s.

Hebron 3461'

50

blk carb sh.
gray fte lst, fossiliferous, n.s.

gray shale

Toronto 3484'

wh-gry frxls lst, fte, n.s.

(trouble w/Auto Driller)

dk gry sh.

wh frxls oolitic lst, fte free oil, v.sl. str., weak flavor,
no odor

"A"

crs

"B"

45"

"C"

50

"D"

50

blk sh

gry sdy sh

wh cherty lst, fte, n.s.

gry to grn sh.

wh granular lst, sl. ϕ , fte free oil, over str., gd flavor, no odor

wh frxls fte lst, n.s., cherty

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator Weyth Explor. Trust
 Lease / Well WORCESTER M-2
 GL KB 2264 (measure from *)

Location SW SE SE 21-7s-22w
 County Graham State KS
 depth this sheet - from 3560 to 3740

scale 1" = 20'
 page 3 of 3

DRILLING TIME (min/ft)

1 2 3 4 5 6 7 8

DEPTH

60

DST

CFS 45"

3600

CFS 45"

BKC

CFS 45"

tops
shows
graph

DESCRIPTION (lithology, shows, mud properties)

6lk sh.	some vug φ	NO odor
wh med x/w lst., sl. φ, br. fluores, fair free oil, - wh lst., sl. φ, tanry stn, sl. free oil, no odor; dk gry sh.	DST #1: 3546-3573	
wh oolitic lst, fite, n.s.	30-45-30-45"	
gry sh	SIP: 503-502#	
wh fr-med x/w lst, sl. cherty (fite, n.s.)	FP: 66-316#; 324-434#	
	REC: 368' MW; fair blow - building	
(very cherty)	(Strap = 2' hi). MUD VIS 52'; wt. 8.9	
6lk sh.	(poor samples after DST!)	
gry sh		
gry - bf frx/w fossiliferous lst., fite, n.s.		
wh frx/w chalky lst., sl. φ, n.s. dk gry carb. sh.; tan gray sdy sh.		
dk gry sh. - gry sdy sh.		
wh frx/w cherty lst., fite, n.s.		
6lk sh.	MUD. VIS 50' wt. 9.2	
bf frx/w lst., sl. φ, n.s.		
bf frx/w fite lst., n.s.		
gray sh to sandy sh.		
6lk sh.		
wh frx/w oolitic lst; inter-φ; sl. stn, tan free oil, no odor - 6lk sh.	weak fluorescence	
bf frx/w fite lst., n.s.; sl. cherty	(tight @ base)	
dk gry sh.		
red-gry sh. to sdy sh.	BKC 3697:	
bf frx/w oolitic lst; fite, n.s.		
red-gry sh.		
wh frx/w cherty lst., fite, n.s.		