

CONFIDENTIAL

GEOLOGIC LOG

LITHOLOGY and DRILLING TIME



COMPANY <u>American Warrior</u>	ELECTRIC LOGS <u>Kosel -</u>
	<u>CDNL/GR - Microlog</u>
	<u>Sonic - Dual Induction</u>
WELL <u>Thompson #1-1</u>	PRODUCTION _____
FIELD <u>Wildcat</u>	RECEIVED
LOCATION <u>980 FSL - 1250' FWL</u>	MAY 28 2002
SECTION <u>1</u> TOWNSHIP <u>31s</u> RANGE <u>19W</u>	KCC WICHITA
COUNTY <u>Comanche</u>	ELEVATION _____
STATE <u>Kansas</u>	KB <u>2191</u>
	DF _____
	GL <u>2188-2178</u>

CONTRACTOR <u>Duke Drilling Rig #7</u>	CASING RECORD:
SPUD <u>4-22-02</u> COMPLETED <u>5-03-02</u>	SURFACE <u>8 3/8" - 612'</u>
DEPTHS MEASURED FROM: <u>2191 KB</u>	DRILLING <u>5720</u> LOG <u>5725</u>
	PRODUCTION <u>None</u>

STRATAGRAPHIC MARKERS and STRUCTURAL RELATIONSHIP*					
MARKER	KCC	SAMPLE	ELECTRIC LOG	DATUM (Sea Level)	STRUCTURAL POSITION
HEEBNER		4271	4270	-2079	-9
Lansing	MAY 23 2002	4474	4472	-2281	-15
SWDPC		4755	4757	-2566	-20
Hertna	CONFIDENTIAL	4808	4811	-2620	-12
BKC		4851	4853	-2662	-16
marmata		4906	4909	-2718	-16
Altamont		4942	4944	-2753	-17
Pawnee		4983	4985	-2794	-16
Fort Scott		5020	5022	-2831	-14
Cherokee Sh.		5032	5032	-2841	-13
Miss		5098	5100	-2909	-18
Vida		5631	5636	-3445	-22
TOTAL DEPTH					

*Referred to: Smith Oil Operation #1'A' Robbins
1250' FSL - 990' FEL Sec 1-31s-15W Comanche Co., KS

1092

Computer Inventoried

RECEIVED
MAY 28 2012
KCC WICHITA

4200

50

HEEDNER
(2711-2050)

4300

50

4400

Sh: Black - carb

Sh: qm - Brown

Ls: wht tan - lt. qm fca
w/ scatt interxind - w/ fair
ant wht - lt qm a chert.
all ss

Ls: wht f. subkn. all
v. chky - w/ some Tan
exn Ls. lenses

Sh: Brown

Ls: Tan - lt. Bm, v. cool
w/ lite cool of all No
show - After

Sh: qm - v. arg.

Ls: Tan - vt - microkn
all v. dse

Sh: qm - w/ few ss clusters
qm - lt. qm v. far. micaceous
w/ no show good intravd

Sh: qm - Brown w/ few
Tan v. kn Ls. lenses.

Sh: qm - w/ few ss clusters
as above.

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MAY 20 1964
KCC WICHITA

50

Lansing
(11-711(-2283))

4500

50

4600

50

sh: qm. w/ few ss clusters
as above.

ls: Bm. Vtxn. v. foss
all v. fine.

sh: qm

ls: cm. Tan fxn, silt.
chky, silt. foss w/ qm
green shales

ls: Tan. f-subxn

sh: qm.

ls: Tan. lt. Tan f-subxn
chky in pt. w/ scatt
good interxn & No vis
show - No flow. - some
silt. foss

sh: qm - Brown

ls: Tan - cm f-subxn
chky w/ scatt interxn +
foss & No vis show - No
flow

ls: Tan fxn., foss and dse
sh: qm.

ls: Tan. lt. qm. Vtxn. v. fine
ool w/ no d

sh: qm - Brown - some v.
silt

ls: lt. qm fxn. w/ good interxn
+ foss & Many foss frags
No vis show - No flow

ls: qm Vtxn w/ much
foss. all v. dse

ls: Tan - cm fxn. silt.
chky matrix w/ foss +
ool.

ls: cm subxn, all v. chky
w/ poor interxn & all Ns.
No vis show becoming
dse w/ depth.

sh: qm - Black - silt.
carb

ls: lt Tan - Bm fxn w/
good - v. good ool & No show
ool or gas - No flow -

ls: Tan fxn, w/ fine ool &
Ns dse

sh: qm - Black

ls: Tan cm f-mxn, v.
foss w/ few ps-tan achl
w/ scatt ool Tan ls.
all Ns. dse

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MAY 28 1964
KCC WICHITA

4700

good - v. good ool & No show
oil or gas - No flow -

LS: Tan fm, w/ fite ool &
Ns dse

Sh: qm - Black

LS: Tan crm f-mxn, v.
foss w/ few pcs tan acth
w/ scatt ool Tan Ls.
all Ns. dse

Sh: qm - Brown

LS: Crm - wnt fm, w/ scatt
ool & ool w/ much wnt
subxn Ls. all Ns.

LS: Crm - Tan f. subxn,
chky w/ foss frags. few
pcs tan - off wnt acth

LS: Tan fm, w/ much foss
frag along w/ scatt Tan
acth all v. dse
few pcs chalk

50

Scoops
4755 (-2564)

Sh: Black - carb

15

LS: Tan - lt. Bm fm, w/
slt. scatt ool & slt. chky
No vis show - Trace fl.

LS: Tan f. vfm, foss w/
farr amt Tan acth all
v. dse

4800

Hertha
4808 (-2617)

Sh: qm - Brown. v. Hard
w/ scatt pyritic ss. Indv.
grains.

Sh: Black - Carb

20

LS: Drk Bm vfm v. dse

LS: Crm - Tan fm, w/ much
wnt subxn to chky Ls.
interbedded, scatt Tan lt.
qm acth all Ns. poor d

LS: Tan - Bm vfm all v. dse
w/ varying amts Brown - Rd
shales

50

BKE
4851 (-2660)

Sh: qm - Red. green

Sh: Black - carb

10

LS: Wnt f. subxn chky,
slt. foss. w/ No show.
Scatt lt. qm acth

LS: Tan - lt. Tan fm, all
v. dse, w/ few foss frag
No vis d.

LS: Crm - Tan f. vfm, all
v. dse w/ scatt qm - green
Red shales

4900

Marmaton
4906 (-2715)

Sh: qm - Green - Red -
Brown

LS: Tan - Bm fm, v. ool & foss
friably w/ some chky to
subxn matrix Ns.

LS: Tan - lt. Bm fm v. ool
fite Ns

Mammal
C9010 (-2718)

Altamont
C9012 (-2751)

Palmer
C9013 (-2792)

Fora Scott
5020 (-2729)

Cherokee Shale
5033 (-2841)

Miss
5007 (-2967)

50

5000

50

5100

50

Sh: qm - green - Kci -
Brown

Ls: Tan - Bm fm, v.ool & foss
friably w some chky to
subn matrix Ns.

Ls: Tan - lt. Bm fm v.ool
like Ns

Ls: lt. Tan v. microxin all
v. dse absence of all foss.
& ool.

Sh: Black - carb

Ls: Tan - off wht microxin
all v. dse

Sh: qm - Brown

Ls: Tan fm w poor internal
No vis show oil or gas dse

Ls: Tan - lt. qm f. vtm w
few pes lt. qm - Tan dcl
all dse - few shals qm

Sh: Black - carb

Ls: Tan f. vtm dse w
tan dclert all v. dse
few pes wht subn ls.

Ls: Tan - cm fm, w some
chalky wht ls few pes Tan - cl
dclert Ns

Sh: Blk carb

Ls: Tan v. - microxin all
v. dse

Sh: Black - carb

Ls: lt Tan - Bm - v. - micro
xin, few isolated oolites
all dse

Sh: qm - Red

Ls: wht f. vtm, ool w poor
f. - all v. dse

Sh: Black - carb

Sh: qm - green - Brown

Ls: Tan f. dse

Sh: qm - green, silty

Ls: Tan vtm all v. dse

Sh: grey - green, silty
siltstone.

Ls: Tan f. vtm, dse w few
wht chalky inclusions Ns.
Abvrs & No str

Ls: Tan off wht f. vtm, only
w few pes wht - cl. dclert

Ls: wht. cl. fm, v. silt.
glauconitic w scatt intern
like str NsEO, No fl.

Ls: wht fm glauc. w few
pes wht chalky No vis show
No fl.

dolo: wht. cl. glauconitic fm
good interxn & v. chalky
w lite yellow flou 2 ps w
some oil str NsEO No ool

dolo: wht cl. f. fm, glauc, w
good interxn & Ns. No fl.
w few pes succor dolo
intermed dcl all Ns.

D
S
T

1

RECEIVED
MAY 28 1955
KCC WICHITA

VTS 4
wt 9.1
WL 9.
LCM 3

DST #1
5120 - 5160
30-30-30-0
Rec: Trace gas
255' 590.
IHP: 2494 #
IFP: 30-88 #
FFP: 87-148 #
SIP: 1107-136
FHP: 2419 #
Temp 116°F

15.

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MAY 28 2002
KCC WICHITA

5200

dolo: wnt. silt. mottled gray
f. min glauc, w few pcs
wnt lt. gray & chert all Ns.
dolo: wnt. lt. gray - mottled gray
f. min dse, w fair amt
gray pebbled & chert all
v. dse Ns.

50

dolo: gray mottled gray min
v. glauc. w fair amt
gray & chert. w some gray
yellow shales.
dolo: gray mottled gray w
green shales - Black shales
some purple w fair amt
gray & chert.

5300

dolo: gray f. fin - min all
dse w predom. gray shales
all Ns. - some pink
wnt ls. stringers.
dolo: gray lt. gray f. v. tan glauc
w increasing gray shales.

50

dolo: Tan f. fin, v. glauc. w
~~good interbedding of all Ns. & v. tan~~
show - No flour.
dolo: Tan. lt. gray f. fin, some
silt. glauc. No v. tan & dse
starting w more wnt - gray
& chert. and lt gray f. fin
dolomite - silt. glauc.
dolo: lt. gray - wnt f. fin - v. tan
w wnt. lt gray & chert some
silt. glauc. Ns - v. dse

5400

dolo: lt. gray v. tan, v. dse
w gray - cl. & chert - scatt
gray shales.
dolo: gray f. fin, w fair interbedding
sucrose - No show.
dolo: lt. gray - wnt v. tan, v. dse
dse w increasing gray - blk
fin - Red shales.

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KCO WICHITA

5400

dolo: lt. gray v. tan, v. dse
w/ gray - cl. actert - scatt
gray shales.

dolo: gray fm, w/ fair intermg
sucrose - No show.

dolo: lt. gray - wnt v. tan, v. dse
dse w/ increasing gray - blk
dm - Red shales.

50

dolo: wnt - lt. gray fm, dse
some scatt intermg sucrose
w/ glauc. - wnt - lt. gray
actert. all shows show
No clear.

dolo: wnt - lt. gray fm sucrose
w/ much wnt lt. gray actert

5500

ls: wnt v. tan, w/ much
v. dse wnt lt. gray actert.

sh: gray - blk - Red - Brown

sh: gray - Black - Red - w/
ls: v. tan, some v. cherty
intermg wnt fm dolomite
all v. dse

ls: Tan fm some lt. gray w/
predom. wnt frac actert
w/ good d. - No vis show or
stn. No clear.

50

ls: Tan - v. l. microcr, w/ mostly
qnt wnt spked actert all
v. dse - some silt. dolomite
w/ frac pin - No vis show
oil - gas - No stn.

5600

ls: Tan - lt. gray v. tan, dolomite
w/ much actert, mostly
gray v. dse - concordant frac
phs. - all v. dse - pure
lge actert Body - gray.

ls: Tan v. l. - microcr, some
silt. dolomite all
v. dse

sh: gray - Black

ls: Tan v. tan v. dse No show
no dolo.

ss: dolo green ss gray, poorest No show
No clear
dolo: wnt - lt. gray fm sucrose
w/ much wnt actert all No
vis show No clear. w/ some
dolo. ss clusters attached to
actert. ss clusters like green
v. tan. ang. No show.

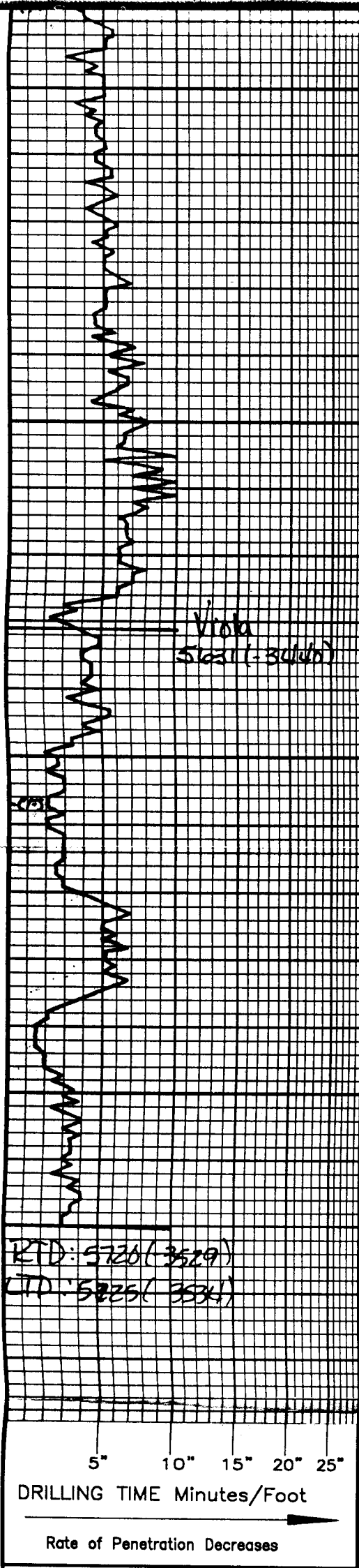
50

dolo: wnt - Tan - like gray fm suc
w/ good intermg. - few pos wnt
actert - all No show - No clear
some yellow mineral clear.

Vista
5631 (-3400)

RECEIVED
MAY 28 2004
KCO WICHITA

Release
JUL 12 2004
From
Confidential

DRILLING TIME Minutes/Foot Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	50	Ls: Tan. v. l. microcr. w/ mostly qnt wnt spkcd actert all V. dse - some silt. dolomitic w/ vac pin - No vis show oil - gas - No str.			
	5600	Ls: Tan. lt. qm v. l. x. dolomitic w/ much actert, mostly qnt V. dse - concordal frac phs - all V. dse - pure lge actert Body - qm.			
	50	Ls: Tan vt - microcr, some silt. dolomitic all V. dse Shiny. Black Ls: Tan v. l. x. V. dse No show No dolo. ss. dolo green ss. lge, poorest No show No flow dolo. wnt. lt. qm f. m. sucrose w/ much wnt actert all No vis show No flow. w/ some dolo. ss. clusters attached to actert. ss. clusters like green vt. q. ang. No show.			
	50	dolo. wnt - Tan - lte qm f. m. sucrose w/ good interkin. d. - f. m. p. wnt actert - all No show - No color some yellow mineral flow.			
	50	dolo. lt. Tan - qm - v. l. x. - f. m. lte sucrose - w/ poor int. kin. scatt v. l. x. - w/ v. l. q. amt Bone wnt actert - some pyritic all V. hard & dse			
	5700	dolo. Tan - qm f. m. x. sucrose + Rhom w/ good interkin. some v. good v. l. x. all w/ no vis show oil or gas barren No flow. w/ wnt actert.			
		dolo. Tan f. m. x. Rhom w/ l. fair wnt of all ss - qm green shale w/ wnt lt. crm. clv actert			
RTD: 5720 (3529) CTD: 5825 (3534)		W/ a Down			

CONTRACTOR Duke Drilling Rig #7
LEASE Thompson #1 IP
ELEVATION 2191 KB RTD

LOCATION 990' FSL - 1250' FWL
SEC. 1 TWP 34 RNG 19W
COUNTY Comanche STATE Ks.