

KANSAS DRILLERS LOG

API No. 15 — 053 — 20,525
County Number

Operator

Roy Vonfeldt

Address

524 St. John Russell, Kansas 67665

Well No. #4

Lease Name

Harbacek

Footage Location

feet from (N) (S) line

feet from (E) (W) line

Principal Contractor

Geologist

Spud Date

Total Depth

P.B.T.D.

Date Completed

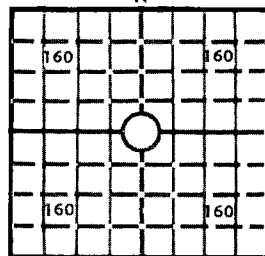
Oil Purchaser

S. 7 T. 16 R. 10 NE

Loc. E2 NE

County Ellsworth

640 Acres
N



Locate well correctly

Elev.: Gr.

DF

KB

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
—		—		open hole completion	
TUBING RECORD					
Size	Setting depth	Packer set at			
2 1/2	3348	—			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
600 gal 15% acid	

INITIAL PRODUCTION

Date of first production 3-30-79		Producing method (flowing, pumping, gas lift, etc.) pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil 14	Gas bbls.	Water MCF	Gas-oil ratio bbls.	CFPB
Disposition of gas (vented, used on lease or sold)			Producing interval (s)		

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Roy VonFeldt
 Harbacek #4
 E/2 E/2 NE, Section 7-16S-10W
 Ellsworth County, Kansas

5 1/2" PRODUCTION CASING SET

CONTRACTOR: Duke Drilling Company (Rig #1)

COMMENCED: 3-11-79

COMPLETED: 3-18-79

● ELEVATIONS: 1863' K.B., 1860' D.F., 1858' G.L.

CASING PROGRAM: Surface: 8 5/8" @342'
 Production: 5 1/2" @3351'

● MEASUREMENTS: All depths measured from the
 Kelly Bushing

SAMPLES: Samples saved 2800' to the R.T.D.

DRILLING TIME: One (1) foot drilling time recorded
 by geolograph, surface to the R.T.D.

ELECTRIC LOG: None

FORMATION TESTING: There were three (3) drill stem tests
 run by Eagle Testers

<u>FORMATION</u>	<u>SAMPLE DEPTH</u>	<u>SUB-SEA DATUM</u>
Anhydrite (driller)	663	+1200
● Heebner	2903	-1040
● Toronto	2925	-1062
Douglas	2936	-1073
Brown Lime	3006	-1143
Lansing	3020	-1157
● Base Kansas City	3288	-1425
● Conglomerate	3324	-1461
Arbuckle	3334	-1471
Rotary Total Depth	3356	-1493

(All tops and zone determinations were made from a correlation of sample analysis and drilling time log.)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2846-2851

Limestone, cream to grey, oolitic,
 fossiliferous, good fossil-cast porosity,
 no shows of oil.

TORONTO SECTION

2926-2931

Limestone, buff, fossiliferous,
 no shows of oil.

LANSING SECTION

3021-3025

Limestone, cream, chalky, slightly
 fossiliferous, no shows of oil.

3044-3047

Limestone, grey, fossiliferous, oocastic,
 no shows of oil.

3064-3068

Limestone, grey to white, oolitic to
 oocastic, fair porosity, no shows of
 oil.

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3095-3098	Limestone, buff to dark grey, finely crystalline, fossiliferous, poor fossil-cast porosity, no shows of oil.
3122-3134	Limestone, grey to buff, oocastic, good oocastic porosity, slightly dolomitic, no shows of oil.
3163-3167	Limestone, grey, oocastic, good oocastic porosity, no shows of oil.
3186-3191	Limestone, cream to grey, oocastic, chalky, no shows of oil.
3201-3204	Limestone, white, chalky, slightly fossiliferous, no shows of oil.
3254-3259	Limestone, cream, oolitic, chalky, no shows of oil.
3264-3267	Limestone, cream, chalky, slightly fossiliferous, no shows of oil.

CONGLOMERATE SECTION
 3324-3334

Chert, white, yellow, pink and red, opaque, all in matrix of vari-colored shale.

ARBUCKLE SECTION
 3334-3338

Dolomite, white, finely crystalline to dense, no shows of oil.

3338-3342

Dolomite, grey to buff, finely crystalline to sucrosic, scattered light brown stain and trace of free oil, fair odor and poor visible porosity.

DRILL STEM TEST #1 3325-3340

Open:	I.F. 30"
Blow:	Weak 3"
Recovery:	5' mud, no shows
Pressures:	SIP 42 psi
	FP 31-31 psi
	HSH 1859-1817 psi

DRILL STEM TEST #2 3336-3344

Open:	I.F. 30"
Blow:	Weak 15"
Recovery:	10' mud, no shows
Pressures:	SIP 42 psi
	FP 31-31 psi
	HSH 1932-1880 psi

3342-3352

Dolomite, white to grey, finely crystalline to dense, no shows of oil, increase in vari-colored shale.

3352-3356

Dolomite, grey, fine to medium crystalline, fair inter-crystalline porosity, good stain and saturation, fair show of free oil and strong odor in fresh samples.

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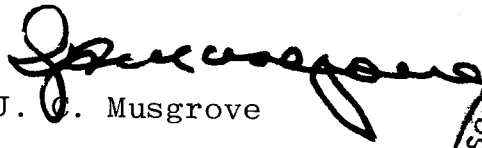
DRILL STEM TEST #3 3344-3356

Open:	I.F. 45"
	F.F. 30"
Blow:	Weak, increasing to strong.
Recovery:	120' gas
	240' muddy, gassy oil
Pressures:	ISIP 770 psi (30")
	FSIP 749 psi (30")
	IFP 42-83 psi
	FFP 94-104 psi
	HSH 1869-1828 psi

ROTARY TOTAL DEPTH 3356 (-1493)

RECOMMENDATIONS: It was recommended that 5 1/2" casing be set and cemented at 3351' and the Arbuckle dolomite to be completed by open-hole completion methods. There are no other zones worthy of any further testing.

Respectfully submitted,


J. C. Musgrove

JCM:mw

