

JAMES C. MUSGROVE

Petroleum Geologist

P.O. Box 1162

Great Bend, KS 67530

ORIGINAL

Office (316) 792-7716

Res. Claflin (316) 587-3444

RECEIVED**NOV 07 2003****KCC WICHITA**

John Roy Evans

Peterman 'A' #3

SE-SW-SW; Section 28-17s-10w

Ellsworth County, Kansas

Page No. 1

5 1/2" Production Casing Set**Contractor:** Vonfeldt Drilling Company**Commenced:** October 3, 2003**Completed:** October 9, 2003**Elevation:** 1803' K.B.; 1801' D.F.; 1798' G. L.**Casing Program:** Surface; 8 5/8" @ 305' *er*
Production; 5 1/2" @ 3349'**Samples:** Samples saved and examined 2700' to the Rotary Total Depth.**Drilling Time:** One (1) foot drilling time recorded and kept 2700' to the Rotary Total Depth.**Measurements:** All depths measured from the Kelly Bushing.**Formation Testing:** There were two (2) Drill Stem Tests ran by Diamond Testing Co.**Electric Log:** By Log Tech; Dual Induction and Dual Compensated Porosity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	540	+1263
Heebner	2833	-1030
Toronto	2851	-1048
Douglas	2862	-1059
Brown Lime	2956	-1153
Lansing	2970	-1167
Base Kansas City	3236	-1433
Conglomerate	3251	-1448
Arbuckle	3258	-1455
Rotary Total Depth	3345	-1542
Log Total Depth	3350	-1547

(All tops and zones are corrected to Electric Log measurements.)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**TOPEKA SECTION**

2732-2738' Limestone; tan and gray, finely crystalline, granular, few fossiliferous, chalky, no shows.

2768-2774' Limestone; as above.

2800-2826' Limestone; gray, granular, chalky, no shows.

TORONTO SECTION

2851-2862' Limestone; gray and cream to white, few fossiliferous, chalky, no shows.

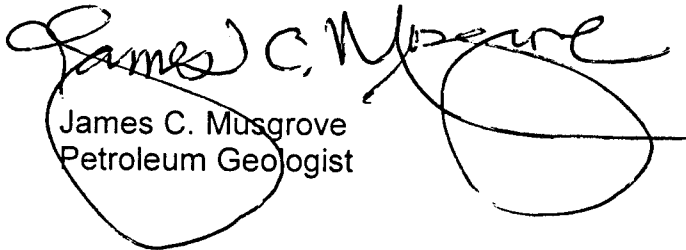
ORIGINAL

Recommendations:

On the basis of the favorable structural position and the positive results of the Drill Stem Tests, it was recommended by all parties involved to set and cement 5 1/2" production casing at 3349' (one foot off bottom) and the following zones be tested in the Peterman #3.

1. Arbuckle 3289-3292
2. Arbuckle 3279-3282

Respectfully submitted;


James C. Musgrove
Petroleum Geologist

LANSING SECTION

2962-2966'	Limestone; gray and cream to white, few fossiliferous, chalky, no shows.
2971-2978'	Limestone; as above.
2998-3002'	Limestone; tan and gray, sucrosic, chalky, dark brown to black stain, trace free oil and no odor in fresh samples.
3012-3016'	Limestone; tan, finely crystalline, possible fracture porosity, trace stain on fractures, no free oil and no odor in fresh samples.
3034-3040'	Limestone; tan and gray, oolitic, poorly developed porosity, no shows.
3048-3052'	Limestone; gray to tan, oolitic/sub oocastic, scattered porosity (barren).
3061-3084'	Limestone; gray, oocastic, poorly developed oocastic porosity, no shows.
3114-3118'	Limestone; white to buff, sub oocastic, poorly developed porosity, no shows.
3131-3140'	Limestone; white to gray, oocastic, chalky, poor visible porosity, no shows, plus white, oolitic, limestone; spotty brown stain, no show of free oil or odor in fresh samples.
3146-3164'	Limestone; gray and white, oolitic, oocastic, chalky, poor visible porosity, no shows.
3185-3190'	Limestone; white and gray, fossiliferous in part, slightly chalky, no show.
3200-3206'	Limestone; as above, scattered porosity, no shows.
3220-3226'	Limestone; white to gray, chalky, poorly developed porosity, no shows.

ARBUCKLE SECTION

3258-3265'	Dolomite; white and cream, finely crystalline, poor visible porosity, no shows.
3265-3272'	Dolomite; tan and cream, medium crystalline, fair porosity, golden brown stain, show of free oil and fair odor in fresh samples.
3272-3280'	Dolomite; as above, slightly sucrosic, fair inter crystalline to vuggy type porosity, fair golden brown stain, show of free oil and fair to good odor in fresh samples.

Drill Stem Test #1 3223-3275' (log measurements 3228-3280)

Times: 30-30-45-45

Blow: Weak

Recovery: 5' free oil
60' oil cut mud
(5% gas, 15% oil, 80% mud)

Pressures:	ISIP	767	psi
	FSIP	738	psi
	IFP	41-52	psi
	FFP	70-72	psi
	HSH	1586-1560	psi

3289-3292' Dolomite; as above, plus tan sucrosic, dolomite, fair stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #2 3275-3287' (log measurements 3280-3292)

Times: 45-45-45-60

Blow: Weak to good

Recovery: 60' gas in pipe
160' clean gassy oil
60' gassy muddy oil
30 very heavy oil cut thin watery mud

Pressures:	ISIP	1038	psi
	FSIP	1008	psi
	IFP	14-24	psi
	FFP	49-79	psi
	HSH	1571-1557	psi

3298-3304' Dolomite; as above, plus white, sandy dolomite, scattered porosity, trace stain.

3304-3324' Dolomite; gray and tan, finely crystalline, few medium crystalline, sucrosic in part, scattered intercrystalline porosity, no shows.

3324-3330' Dolomite; as above, increasingly sandy.

3332-3340' Dolomite; white, gray, medium to coarse crystalline, fair to good intercrystalline porosity, trace poor stain, trace of free oil and questionable odor in fresh samples.

3340-3350' Dolomite; as above, dull gray stain, no show of free oil or odor in fresh samples.

Rotary Total Depth 3345 (-1542)

Log Total Depth 3350 (-1547)

COPY

ORIGINAL

DRILLERS WELL LOG

Date Commenced: October 3, 2003

Date Completed: October 9, 2003

John Roy Evans

Peterman #3

SE SW SW Sec. 28-17S-10W

Ellsworth County, Kansas

Elevation: 1798' G.L.
1803' K.B.

0 - 306' Sand & Shale
306 - 542' Sand & Clay
542 - 570' Anhydrite
570 - 719' Sand & Clay
719 - 1566' Sand & Shale
1566 - 1989' Shale
1989 - 3012' Shale & Lime
3012 - 3345' Shale
3345' R.T.D.

FORMATION DATA

Anhydrite 542'
Base Anhydrite 570'

RECEIVED
NOV 07 2003
KCC WICHITA

Surface Pipe: Set 20#, new, 8 5/8"
casing @ 306' K.B. with 200 sacks
60/40 Poz., 3% Gel., 2% CC.

Production Pipe: Set 13.5#, used,
5 1/2" casing @ 3345' with 125 sacks
ASC, 5# Kalseal/sack, 500 gallon
ASF.

AFFIDAVIT

STATE OF KANSAS)
) ss:
COUNTY OF RUSSELL)

Alan Vonfeldt of lawful age, does swear and state that the facts and statements
herein are true and correct to the best of his knowledge.

Alan Vonfeldt
Alan Vonfeldt

Subscribed and sworn to before me this 14th day of October, 2003.

My Commission Expires:

August 30, 2007

Cheryl M. Payne
Cheryl M. Payne, Notary Public

