

22-13-18W

K.A.T. Exploration Inc.  
Gross #1  
C SW NW, Sec. 22-13S-18W  
Ellis County, Kansas

State Geological Survey  
WICHITA BRANCH

DRY AND ABANDONED

CONTRACTOR: Duke Drilling Company (Rig #1)  
COMMENCED: 6-29-83  
COMPLETED: 7-7-83  
ELEVATIONS: 2085 K.B., 2083 D.F., 2080 G.L.  
MEASUREMENTS: All depths measured from the K.B.  
CASING PROGRAM: Surface: 8 5/8" @ 1143'  
Production: None  
SAMPLES: Samples saved 3,000' to the R.T.D.  
DRILLING TIME: 1 ft. drilling time recorded by drillers  
3,000' to the R.T.D.  
ELECTRIC LOG: None  
FORMATION TESTING: There were four Drill Stem Tests run by  
Swift Testers

<u>FORMATION</u>	<u>SAMPLE DEPTH</u>	<u>SUB-SEA DATUM</u>
Anhydrite (driller)	1349	+ 736
Topeka	3065	- 980
Heebner	3331	-1246
Toronto	3359	-1274
Lansing	3380	-1295
Base Kansas City	3613	-1528
Arbuckle	3629	-1544
R.T.D.	3651	-1566

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

TOPEKA SECTION

3115-3124 Limestone, gray, fossiliferous, slightly  
cherty, no shows of oil  
3178-3187 Limestone, gray to mottled gray, fossili-  
ferous, trace of buff sucrosic dolomite  
3220-3225 Limestone, gray, slightly fossiliferous,  
abundant white chalky lime  
3238-3243 Limestone, gray, fossiliferous, chalky,  
no shows of oil  
3254-3260 Limestone, gray, fossiliferous, no shows  
of oil  
3264-3275 Limestone, gray, fossiliferous, slightly  
chalky, spotty light brown stain, weak  
odor and weak show of free oil  
3284-3288 Limestone, gray to mottled gray, fossili-  
ferous, increase in stain, fair show of  
free oil and fair odor in fresh samples

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DRILL STEM TEST #1 3247-3290

Open: I.F. 30"  
 F.F. 30"  
 Blow: Weak for 30 min.  
 Recovery: 70' mud w/few oil specks  
 Pressures: ISIP 401 psi  
 FSIP 334 psi  
 IFP 42-50 psi  
 FFP 58-66 psi  
 HSH 1790-1768 psi

3296-3301 Limestone, gray to dirty gray, finely fossiliferous, chalky, poor fossil cast porosity, dark black tarry stain, trace of free oil (heavy black), no odor in fresh samples

TORONTO SECTION

3359-3362 Limestone, cream to white, finely crystalline, slightly fossiliferous, poor porosity, trace spotty dead stain, no free oil and no odor in fresh samples

LANSING SECTION

3380-3383 Limestone, cream, finely crystalline, chalky, no shows of oil

3392-3396 Limestone, gray, fossiliferous, no shows of oil

3401-3404 Limestone, cream to white, finely oolitic, good oolitic porosity, spotty stain and saturation, weak show of free oil, no odor in fresh samples

3432-3436 Limestone, gray to mottled gray, sub-oolitic to fossiliferous, spotty stain, trace of free oil, no odor in fresh samples

DRILL STEM TEST #2 3365-3446

Open: I.F. 30"  
 F.F. 30"  
 Blow: Weak for 15 min.  
 Recovery: 20' drilling mud  
 Pressures: ISIP 83 psi  
 FSIP 76 psi  
 IFP 58-58 psi  
 FFP 58-58 psi  
 HSH 1890-1868 psi

3455-3461 Limestone, cream to white, chalky, finely oolitic to fossiliferous, scattered fossil cast porosity, spotty stain, weak show of free oil (flaky), no odor in fresh samples

3481-3483 Limestone, cream, finely oolitic to oolitic, fair porosity, spotty light brown stain, trace free oil, no odor in fresh samples

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3504-3509	Limestone, gray to buff, oolitic, fair porosity, good light brown stain, no odor, no free oil in fresh samples
3522-3525	Limestone, white, chalky, oolitic, fossiliferous, with dull dead stain, scattered traces of light brown spotty stain
3536-3540	Limestone, gray, cherty, fossiliferous, scattered vugular porosity, light brown stain, no free oil and no odor in fresh samples
3543-3547	Limestone, gray to buff, oolitic to fossiliferous, cherty, poor scattered porosity, dark black tarry stain, trace of free oil, (heavy black), no odor in fresh samples
3576-3582	Limestone, gray, cherty, sub-oocastic trace stain, no free oil and no odor in fresh samples

DRILL STEM TEST #3 3499-3587

Open:	I.F. 30" F.F. 30"
Blow:	Weak for 52 min.
Recovery:	45' watery mud
Pressures:	ISIP 468 psi FSIP 357 psi IFP 66-66 psi FFP 74-74 psi HSH 1982-1970 psi

3608-3611	Limestone, gray, finely crystalline, scattered pin point porosity, trace stain, weak show free oil and no odor in fresh samples
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ARBUCKLE SECTION

3629-3632	Dolomite, gray, finely crystalline, sucrosic, poor porosity, trace light brown stain, trace free oil, no odor in fresh samples
3631-3639	Dolomite, as immediately above, increase in stain, free oil and no odor, plus traces of gray, medium crystalline to oolitic, cherty dolomite with very faint odor, trace free oil and trace spotty stain

DRILL STEM TEST #4 3632-3641

Open:	I.F. 30" F.F. 15"
Blow:	Weak for 22 min.
Recovery:	5' mud
Pressures:	ISIP 10 psi FSIP 10 psi IFP 10-10 psi FFP 10-10 psi HSH 1898-1885 psi

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3639-3651

Dolomite, white to gray, finely crystalline, cherty, poor intercrystalline porosity, spotty stain, no free oil, no odor in fresh samples, increase in bone white chert

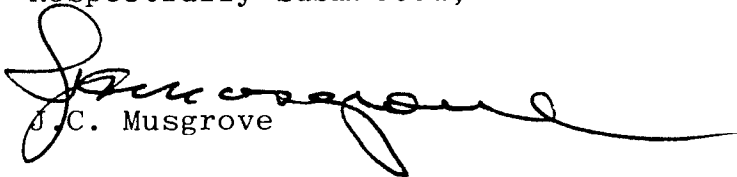
ROTARY TOTAL DEPTH

3651 (-1566)

RECOMMENDATIONS

As a result of the negative drill stem tests and there being no other zones worthy of any further testing, it was recommended that the Gross #1 be plugged and abandoned at the total depth of 3651 (-1566).

Respectfully submitted,

  
J.C. Musgrove

