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GEOLOGIST'S REPORT

KENMARK CORPORATION

FISHER # 5  
API # 15-051-25,092-0000

700' FSL 1,420' FEL  
SECTION 28 TWSP 11 RGE 18  
ELLIS COUNTY, KANSAS

July 18, 2001

KENMARK CORPORATION  
P.O. BOX 572  
HAYS, KANSAS 67601

RE: FISHER # 5  
700' FSL 1,420' FEL  
28-11-18  
ELLIS COUNTY, KS

Dear Mr., Norton

The Fisher # 5 well was drilled with rotary tools commencing June 18, 2001 to rotary depth of 3,720' (-1601), drilling was completed June 26, 2001. Two (2) drill stem tests were taken, one with positive results, 5 1/2 casing was set one (1) foot off bottom at @ 3,716'

OPERATOR:	KENMARK CORPORATION
CONTRACTOR:	A & A PRODUCTION
ELEVATION:	GL 2114 KB 2119
GEO SUPERVISION	3,000' TO RTD
DRILLING TIME:	2,800' TO RTD
SAMPLES:	2,800' TO RTD
DRILL STEM TESTS:	Two (2) TRILOBITE TESTING
ELECTRIC LOGS:	ELI, NEUTRON DENSITY, SONIC
PIPE RECORD:	8 5/8 @ 287' w/165 sks 5 1/2 @ 3,716'

• <i>FORMATION</i>	<i>DEPTH</i>	<i>DATUM</i>
• ANHYDRITE	1406'	+ 713
• TOPEKA	3092'	- 973
• HEEBNER	3321'	- 1202
• TORONTO	3341'	-1222
• LKC	3365'	- 1246
• BASE LKC	3600'	- 1481
• ARBUCKLE	3646'	- 1527
• RTD	3720'	- 1601

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<i>FISHER # 5 OIL SHOWS</i>	<i>DEPTH</i>	<i>SAMPLE DESCRIPTION</i>
TOPEKA 30'	3124-08	Limestone; lt gry fn crystalline, pr lt stain with trace saturated stain and vuggy porosity, slight show free oil gd odor 12% porosity 64% SW
TORONTO	3313-15	Limestone; wh vfn crystalline chky in pt pr sct stain vslt show fr oil fnt odor 13% porosity 28% SW
LKC 'C'	3400-02	Limestone; white med xlyn gd vuggy por few pcs fr sct stn tr free oil fr odor 12% porosity 35% SW
LKC 'J'	3538-40	Limestone; white tan fn crystalline, p.p. tr sat stn SFO fr odor 4% porosity 56% SW

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FISHER # 5 OIL SHOWS	DEPTH	SAMPLE DESCRIPTION
ARBUCKLE	3646-58	Dolomite; gry/tan med- crs xyln- romb well devl, fr vuggy porosity gd sat drk brn stn gd SFO strong odor 19% porosity 24% SW (covered DST # 1
DST # 1	ARBUCKLE	
INTERVAL	3636-58	
TIMES	45-60-45-60	
RECOVERY	496' CLEAN GASSY OIL 62' mud cut gassy oil	
PRESSURES	ISIP 422# FSIP 420# FP 24-150 156-228 HP 1805# 1766#	
CHLORIDES	5000 ppm	
TEMP	113 F	
GRAVITY	21 DEGREES	
ARBUCKLE	3658-68	Dolomite; tan med-crs xyln fr vuggy por fr sat stn SFO fr odor 12% porosity 35%SW(covered DST # 2
DST # 2	ARBUCKLE	
INTERVAL	3648-68	
TIMES	45-60-45-60	
RECOVERY	424' CLEAN GASSY OIL 186' muddy water 62' stly oil cut mud	
PRESSURES	ISIP 448# FSIP 443# FP 40-170 176-264 HP 1836# 1744#	
CHLORIDES	25,000 ppm	
TEMP	80 F	
GRAVITY	21 DEGREES	
ARBUCKLE	3668-3700	Dolomite; tan med xyln tr vugs tr sct stn SFO fnt odor
ARBUCKLE	3700-20	Dolomite; tan med xyln tr sct stn pr SFO fnt odor

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*SUMMARY AND RECOMMENDATIONS*

I recommend that 5 1/2 " casing be set one (1) foot off bottom @ 3,716' and the Arbuckle be perforated at 3651-53.

The bottom hole pressure compared to the # 4 is considerably lower. I feel depletion is from the Bemis Shutts production 3/4 mile north. This would indicate the reservoir itself to be very large in size. Because of the size of the reservoir and flow pressures I have recommended pipe be set and the Arbuckle be tested through perforations. In addition to the break @ 3651-53 there are two other breaks that should be tested later. 3656-60 12% por 35% SW and 3662-66 16% por 23 % SW. These zones do not calculate wet however water was recovered in DST # 2

After the Arbuckle has been produced to it's economical limits the following zones should be perforated and tested before abandonment of this well.

TORONTO 3343-45  
LKC 3400-02

RESPECTFULLY SUBMITTED



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