

1-16-43W



State Geological Survey
WICHITA BRANCH

TXO PRODUCTION CORP.

EDSALL "F" #1
NW/NW SEC. 1
T16S R43W
GREELEY COUNTY
KANSAS

RICHARD E. BACON
GEOLOGIST

RECEIVED
STATE CORPORATION COMMISSION

MAY 23 1983

CONSERVATION DIVISION
Wichita, Kansas

SUMMARY AND CONCLUSION

THE EDSALL "F" #1 WAS DRILLED TO A TOTAL DEPTH OF 5400'
SUBSEA OF -1491' THE PRIMARY ZONE OF INTEREST WAS THE LOWER
MORROW SAND, A PRODUCER TO THE SOUTHWEST IN THE STOCKMAN FIELD

THE SAND ENCOUNTERED WAS A VERY THIN SECTION (2 FT.) OF HARD
QUARTZIC LIKE GRAINS. SAMPLES FAILED TO YIELD ANY FLUORESCENCE OR
CUT. THE GAS DETECTOR DID NOT REGISTER BEYOND THE 3 UNITS OF BACK-
GROUND GAS BEING CARRIED. DRILLING TIME BROKE DOWN ONLY MARGINALLY
FROM APPROXIMATELY 3 MIN./FT TO 2.5 MIN./FT. A DST CALLED ON THIS
ZONE YIELDED NO RESULTS AFTER 2 MISRUNS.

THE ONLY SHOW ENCOUNTERED DURING THE ENTIRE WELL WAS A LANSING
LIMESTONE. ONE CHIP IN THE 4290-4320 SAMPLE DISPLAYED A SPOTTY
YELLOW FLUORESCENCE WITH A SLOW FAINT YELLOW BLEEDING AND A FAINT
YELLOW RING. A TRACE OF PINPOINT POROSITY WAS OBSERVED.
A DST CALLED ON THIS ZONE YIELDED 1576' OF WATER AND MUD.

IN THE WARSAW/SAGE A DST WAS CALLED TO TEST A HIGH POROSITY ZONE
BUT THIS WAS LATER ATTRIBUTED TO TOOL MALFUCTION. THE DST YIELDED
5' OF DRILLING MUD.

AFTER DST RESULTS WERE ANALYZED IT WAS DECIDED TO PLUG AND ABANDON WELL.

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RESUME

OPERATOR: TEXAS OIL & GAS

WELL NAME & LOCATION: EDSAL "F" #1 NWNW SEC. 1 T16S R43W

COUNTY: GREELY

STATE: KANSAS

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SPUD DATE: 4/27/83

COMPLETION DATE: 4/8/83

ELEVATIONS: GL 3899' KB 3909'

TOTAL DEPTH: DRILLER 5400' LOGGER

CONTRACTOR: J.W. GIBSON DRILLING CO. RIG #93

GEOLOGIST: RICHARD E. BACON

TOOL PUSHER: DALE CARBERRY

TYPE DRILLING MUD: CHEMICAL GEL

MUD COMPANY: SERVICE MUD CO. DARRELL RIEGEL ENGINEER

HOLE SIZES: 12 3/4" to 490' 7 7/8" to 5400'

CASING: 12 JOINTS 8 5/8" 23# 487' CEMENT WITH 350 SACKS OF
CLASS H 3% CC

MUD LOGGING: SMITH MUDLOGGING, UNMANNED HOT WIRE & CHROMATOGRAPH

CORE INTERVALS: NONE

DST DEPTHS: #3 5346-5400 #4 4214-4318

DST 1 & 2 WERE MORROW SAND MISRUNS

ELECTRIC LOGS: GEARHART SAM DEAN ENGINEER

DENSITY/NEUTRON TD-3350'
DUAL INDUCTION TD-498'

BOTTOM FORMATION: MISSISSIPPIAN

WELL STATUS: PLUG AND ABANDON

WELL CHRONOLOGY

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DATE	DEPTH 7:00am	ACTIVITY
4-27-83	-	SPUD
4-28-83	330'	RUN CASING, 12 JOINTS 8 5/8" 23# 487' SET AT 498' CEMENT WITH 350 SACKS CLASS H 3% CC. PLUG DOWN 1:00pm W.O.C
4-29-83	1100'	LOST CIRCULATION AT 1820' 1/4 HOUR ADD HULLS
4-30-83	2167'	TRIP FOR BIT #2 AT 2167' SURVEY 1° ON BOTTOM AT 8:00pm
5-1-83	3057'	DRILLING
5-2-83	3480'	WORK ON PUMP 1 1/2 HOURS, TRIP FOR HOLE IN PIPE 2 3/4 HOURS
5-3-83	3877'	WORK ON PUMP 4 1/4 HOURS, BIT TRIP AT 3965 BIT #3, SURVEY 3/4° ON BOTTOM AT 7:30pm
5-4-83	4131'	DRILLING
5-5-83	4515'	DRILLING
5-6-83	4881'	TRIP FOR BIT #4 AT 4971' SURVEY 3/4 °
5-7-83	5165'	DRILLING
5-8-83	5400'	TD AT 4:35 am, CONDITION HOLE FOR LOGS, COMMENCE LOGGING AT 12:45pm COMPLETE LOGGING AT 4:30pm LOGS TELECOPIED TO DENVER, A DST WAS ATTEMPTED IN MORROW SAND STRINGER. GEOLOGIST LEFT BEFORE DST WAS RUN AS PER INSTRUCTIONS.

FORMATION TOPS

	EDSALL "F" #1		EDSALL E-3	
BASE STONE CORRAL	2778'	+1131	2784'	+1137
NEVA	3448'	+ 461	3462'	+ 459
FORAKER	3538'	+ 371	3563'	+ 358
WABANSEE	3654'	+ 255	3678'	+ 243
TOPEKA	3886'	+ 23	3909'	+ 12
HEEBNER	4102'	- 193	4130'	- 209
LANSING	4207'	- 298	4238'	- 317
MARMATON	4583'	--674	4624'	- 703
CHEROKEE	4718'	- 809	4760'	- 839
ATOKA	4842'	- 933	4896'	- 975
MORROW	5004'	-1095	5072'	-1151
SAND	5101'	-1192	5162'	-1241
KEYES	5108'	-1199	5188'	-1267
STE. GENEVIEVE	5160'	-1251	5228'	-1307

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SAMPLE LITHOLOGY
(NOT LAGGED)

- 3690-3720 LS-60% cream, light grey, buff, crpto-fine xln,
frm, dense, some silty
SH-40% red-orange, red-brown, light-medium grey,
massive, platey, micromica in part, slightly
calcareous in part
ANHY-Tr clear, translucent, friable, xln
- 3720-3750 LS-70% cream, light grey, buff, crpto-fine xln,
frm, dense, some silty
SH-30% red-orange, red-brown, light-medium grey,
massive, platey, micromica ip, slightly calc ip
- 3750-3780 SH-80% red-orange, red-brown, light-medium grey,
massive, platey, micromica ip, slightly calc ip
LS-20% cream, light grey, buff, crpto-fine xln,
firm, dense, sample finely crushed
- 3780-3810 LS-70% cream, white, buff, crpto-fine xln, firm-hard,
dense, lithic, some silty
SH-30% red-orange, red-brown, light-medium grey,
firm, massive, platey, micromica in part
Trace of loose quartz grains and xls
- 3810-3840 LS-60% cream, light grey, buff, crpto-fine xln,
firm-hard, dense, lithic, tr glauconitic
SH-30% red-orange, red-brown, firm, massive, platey
micromica in part
SS-10% white, very fine grain, subangular-subround, firm,
calc, silty also loose quartz grains-clear, opaque,
medium-very coarse grain, angular-subround
- 3840-3870 LS-60% cream, light grey, buff as above
SH-40% red-orange, medium-dark grey, firm, platey,
subfissile, very calc in part
Trace of loose quartz grains
- 3870-3900 LS-50% cream, buff, crpto-microxln, firm, dense, lithic
trace oolitic round-dark grey
SH-50% red-orange, medium-dark grey, firm, platey
massive, subfissile, less calc
- 3900-3930 LS-80% cream, white, buff, light grey, crypto-microxln,
firm-hard, dense, lithic
SH-20% red-orange, medium dark grey as above
free pyrite

- 3930-3960 LS-50% cream, buff, crpto-finexln, firm-hard, dense
litnic, tr pinpoint \emptyset poor, tr vug \emptyset good
SH-50% red-orange, medium brown, medium-dark grey,
firm, massive, platey, subfissile
- 3960-3990 LS-40% cream, white, crypto-very fine xln, firm, dense,
cnalky, tr vug \emptyset good, tr fossilif, foram
SH-60% red-orange, medium brown, medium-dark grey,
firm, massive, platey, subfissile free pyrite
- 3990-4020 SH-80% red-orange, medium brown, medium-dark grey,
massive, platey, subfissile, sl calc in part
LS-20% cream, white, crypto-very fine xln, firm
dense, cnalky
- 4020-4050 LS-90% white, light-medium grey, buff, crypto-microxln,
firm, dense, cnalky, tr fossilif, argillaceous in part,
tr pinpoint \emptyset poor
SH-10% red-orange, medium brown, medium-dark grey
massive, platey, subfissile free pyrite
- 4050-4080 LS-50% white, light-medium grey, buff, crypto-microxln,
firm, dense, cnalky
SH-50% red-orange, medium brown, medium-dark grey as above
- 4080-4110 SH-70% red-orange, medium brown, medium-dark grey,
massive, platey, subfissile
LS-30% white, light-medium grey, buff, crypto-microxln,
firm, dense, cnalky
- 4110-4140 LS-90% cream, buff, light grey, tan, crypto-very fine xln,
firm-hard, dense, litnic, tr pinpoint \emptyset poor
SH-10% red-orange, medium brown, dark grey, firm,
blocky, subfissile, slightly calc in part
- 4140-4170 LS-85% cream, white, buff, tan, light-medium grey,
crypto-very fine xln, firm-hard, dense, litnic
chalky in part, grainy in part, arg in part
SH-15% red-orange, medium brown, dark grey as above
- 4170-4200 LS-80% cream, buff, light grey, tan as above
SH-20% red-orange, medium brown, dark grey as above
- 4200-4230 LS-85% cream, buff, light grey, tan, crypto-fine xln,
firm-hard, dense, litnic, cnalky in part, arg in part
some grainy tr pyritic
SH-15% red-orange, medium brown, dark grey as above

- 4230-4260 LS-95% cream, buff, white, tan, crypto-fine xln,
firm, dense, chalky, lithic, grainy in part
tr microsucrosic interxln \emptyset fair
SH-5% red-orange, medium brown, dark grey, firm,
massive, platy, subfissile
SS-Tr light grey, very fine grain, subround, friable-
firm, calc-clay filled, moderately sorted, tr glauc
- 4260-4290 LS-95% cream, buff, white, grey brown, crypto-very fine xln,
firm-hard, dense, lithic, chalky, tr arenaceous,
tr pinpoint \emptyset
SH-5% red-orange, medium brown, dark grey as above
SS-Tr light grey, very fine grain, subround friable
CHT-Tr -opaque
FOSS-coral
Trace of loose quartz grains clear, coarse grain, angular
- 4290-4320 LS-95% cream, white, buff, crypto-microxln, firm-hard,
dense, lithic, chalky, tr pinpoint \emptyset poor
SH-5% red-orange, medium brown, dark grey as above
CHT-Tr pale orange
Trace of loose quartz grains clear, amber, coarse-very
coarse grain, angular-subround
Trace spotty bright yellow fluorescence
slow pale yellow bleeding
faint yellow ring
dry cut, poor snow
- 4320-4350 LS-95% cream-buff, white, tan, medium grey, crypto-
medium xln, firm-hard, dense, lithic, chalky, some
pinpoint \emptyset poor, tr fossiliferous
SH-5% red-orange, medium brown, dark grey as above
free pyrite
- 4350-4380 LS-95% cream-white, buff, light tan, crypto-very fine xln,
firm-hard, dense, lithic, chalky
SH-5% red-orange, dark grey-black, firm, fissile-subfissile
slightly calcareous
SS-Tr white, very fine grain, subangular-subround,
firm, calc, moderately sorted slightly glauconitic
CHT-Tr tan, spotted
- 4380-4410 LS-100% cream-buff, tan, crypto-microxln, firm-hard,
dense, lithic, chalky, tr pyritic free pyrite
- 4410-4440 LS-100% cream-buff, light tan, light-medium grey,
greybrown, crypto-microxln, firm-hard, dense,
chalky, lithic, argillaceous in part, tr fossilif,
tr pyritic
- 4440-4470 LS-100% cream-buff, light tan, light-medium grey,
greybrown, crypto-microxln, firm-hard, dense,
chalky, lithic, argillaceous in part some silty
free pyrite

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- 4470-4500 LS-100% cream, buff, light-medium grey, tan, crypto-microxln, firm-hard, dense, lithic, chalky, less silty
- 4500-4530 LS-100% cream, buff, light-medium grey, tan, crypto-microxln, firm-hard, dense, lithic, chalky, tr pyritic
CHT-Tr light tan free pyrite
- 4530-4560 LS-95% cream, white, light-medium grey, buff, tan, crypto-microxln, firm-hard, dense, lithic, arg in part
SH-5% red-orange, medium-dark grey, black, firm, blocky, fissile
- 4560-4590 LS-95% buff, white, tan, light grey, crypto-very fine xln, firm-hard, dense, chalky, lithic, arg & silty in part
tr pyritic
SH-5% red-orange, dark grey-black, firm, blocky, fissile
CHT-Tr tan
- 4590-4620 LS-100% cream-light grey, light brown, w, crypto-microxln, firm-hard, lithic, dense, chalky, tr oolitic elip-white, tr fossilif-crinoid, tr drusy
- 4620-4650 LS-95% light grey, buff, tan, crypto-microxln, firm-hard dense, lithic, argillaceous in part, some silty
SS-5% light grey, very fine grain, subangular, firm, calc, moderately sorted, argillaceous, mica, tight
- 4650-4680 LS-95% light grey, grey brown, buff, white, crypto-microxln, firm, dense, chalky, becoming more arg
SH-5% red-orange, dark grey, black, fissile
CHT-Tr opaque
- 4680-4710 LS-100% light grey, grey brown, buff, white crypto-microxln, firm, dense, chalky tr oolitic round-dk grey
CHT-Tr brown, buff
- 4710-4740 LS-100% light-dark grey, cream, white, tan, crypto-very fine xln, firm-hard, dense, lithic, chalky, arg in part
some silty
CHT-Tr dark grey free pyrite
- 4740-4770 LS-100% light-dark grey, cream, white, tan as above
SH-Tr black, fissile, firm
CHT-Tr dark grey
- 4770-4800 LS-95% cream, tan, light-medium grey, crypto-microxln, firm-hard, dense, lithic, chalky, arg in part
SH-5% dark grey-black, firm, fissile
SS-Tr light grey, fine grain, subangular-subround, firm, very calc, moderately sorted, tight
CHT-Tr dark grey brown

- 4800-4810 LS-95% cream, tan, light-medium grey, crypto-microxln,
firm-hard, dense, lithic, chalky, argillaceous in part
tr pyritic
SH-5% dark grey-black, firm, fissile
SS-Tr light grey, fine grain, subangular-subround, firm
very calc, moderately sorted, tight
CHT-Tr dark grey, fossilif
- 4810-4820 LS-90% cream, tan, light-medium grey as above
SH-10% dark grey-black, firm, fissile
- 4820-4840 LS-95% cream, light-medium grey, tan, white, crypto-
microxln, firm-hard, dense, lithic
SH-5% dark grey-black, firm, fissile
CHT-dark grey, dark tan
FOSS-spicules
- 4840-4850 LS-90% cream-light grey, tan, crypto-microxln, firm-hard,
dense, lithic
SH-10% dark grey-black, firm, fissile
CHT-Tr tan
FOSS-Tr spicules, foram
- 4850-4870 LS-95% cream-light grey, tan, white, crypto-mxln,
firm-hard, dense, lithic
SH-5% dark grey-black, firm, fissile
CHT-tan, dark grey
- 4870-4880 LS-90% cream, buff, white, light grey, crypto-very
fine xln, firm-hard, dense, lithic, chalky
SH-10% dark grey-black, firm, fissile-subfissile,
slightly calc, micromica
CHT-Tr dark grey
- 4880-4890 LS-80% cream, buff, white, light-dark grey, as above
SH-20% dark grey-black, blocky as above
- 4890-4900 LS-90% light-dark grey, buff, cream, tan, crypto-
microxln, firm-hard, dense, lithic
SH-10% dark grey-black, firm, fissile-subfissile
micromica in part
- 4900-4920 LS-90% light-dark grey, buff, cream, tan as above
SH-10% dark grey-black as above
FOSS-spicule
CHT-Tr amber, tan free pyrite
- 4920-4930 LS-80% light-dark grey, grey brown, tan, mottled,
firm-hard, dense, lithic, argillaceous in part
SH-20% medium-dark grey, black, firm, fissile,
blocky, micromica, slightly calc in part

- 4930-4950 LS-85% light-dark grey, grey brown, tan, mottled,
firm-hard, dense, lithic, argillaceous in part
SH-15% medium-dark grey, black, firm, fissile,
blocky, micromica, slightly calc in part
CHT-Tr dark tan, pyritic
- 4950-4970 LS-90% light grey, cream, tan, buff, crypto-microxln,
firm-very hard, lithic, dense
SH-10% medium-dark grey, black, firm, fissile
blocky, micromica, slightly calc in part
CHT-Tr black, tan,
- 4970-4980 LS-90% light grey, cream, tan, buff as above
SH-10% medium-dark grey, black as above
CHT-grey brown
- 4980-5000 LS-90% light grey, cream, tan, buff as above
SH-10% medium-dark grey, black as above
CHT-dark grey, tan
- 5000-5020 LS-90% light grey, cream, tan, buff as above
SH-10% medium-dark grey, black as above
CHT-grey brown, tan
- 5020-5030 LS-95% cream-light-medium grey, crypto-medium xln,
firm-hard, dense, chalky, lithic, tr pyritic
SH-5% medium-dark grey, black, firm, fissile, blocky,
micromica & sl calc in part
CHT-Tr tan
- 5030-5040 LS-90% cream-light-medium grey, as above
SH-10% medium-dark grey, black as above
CHT-Tr grey brown, spotted, conchoidal
COAL-Tr black, brittle, bitumenous
- 5040-5050 LS-95% cream-light-medium grey as above
SH-5% medium-dark grey, black as above
CHT-less than 5% grey brown, black, tan, pyritic in part
- 5050-5060 LS-90% cream, light grey, grey brown, crypto-medium xln,
firm-hard, dense, chalky, lithic
SH-10% medium-dark grey, black, grey green, micromica
firm, fissile, platy
CHT-Tr tan, grey brown
- 5060-5070 LS-95% cream, light grey, grey brown, tan, crypto-
medium xln, firm-hard, dense, chalky, lithic
SH-5% medium-dark grey, black, grey green as above
CHT-Tr tan, black, grey brown
- 5070-5080 LS-70% cream, light grey, grey brown, tan, crypto-
medium xln, firm-hard, dense, chalky, lithic, tr drusy
SH-30% medium-dark grey, black, firm, blocky, platy,
fissile, micromica in part, carbonaceous in part
CHT-Tr tan, black

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1 F' Edsall

- 5080-5090 SH-70% medium-dark grey, black, firm, blocky, platy, fissile, micromica in part, carbonaceous in part
LS-30% cream-light grey, grey brown, crypto-microxln, firm-hard, dense, chalky, lithic
SS-Tr light grey, fine grain, subangular-subround, firm, clay filled, moderately sorted, silty, glauc, tight
CHT-grey brown, black
- 5090-5100 SH-40% medium-dark grey, black, firm, blocky, platy fissile, micromica in part, carbonaceous in part
LS-60% cream-light grey, grey brown as above
SS-Tr light grey as above also clear-white, medium grain, subangular, slightly calc-siliceous, quartzic moderately sorted, tight
CHT-black, grey brown
- 5100-5110 SH-50% medium-dark grey, black as above tr pyritic
LS-50% cream-light grey, grey brown as above
SS-Tr light grey, fine grain, subangular-subround, firm, slightly calc, moderately sorted, glauconitic, tight
CHT-black, grey brown
- 5110-5120 SH-50% medium-dark grey, black, firm, fissile, flakey micromica in part, slightly calc in part, carbonaceous in part, pyritic in part
LS-50% cream-light grey, grey brown, crypto-microxln, firm-hard, dense, chalky, lithic, tr oolitic round-dark grey
CHT-Tr tan
- 5120-5130 LS-30% cream-light grey, grey brown, tan, crypto-fine xln, firm-hard, dense, chalky, lithic
SH-70% medium-dark grey, black, grey brown, firm, blocky platy, fissile, micromica ip, carbonaceous ip
SS-Tr clear-white, amber, quartzic, medium-very coarse grain, angular-subangular, hard-very hard, slightly calc-siliceous, poorly sorted, tr glauc, tight
CHT-Tr tan free pyrite
- 5130-5140 LS-70% cream, buff-tan, grey brown, medium-dark grey, firm-hard, dense, lithic, chalky, arg in part
SH-30% medium-dark grey, black, firm, fissile-subfissile, platy, micromica ip, slightly calc ip
SS-Tr clear-white, quartzic as above
CHT-Tr black, tan, grey brown
COAL-Tr black, semivitreous, bitumenous
- 5140-5150 LS-50% cream, buff-tan, grey brown, medium-dark grey as above
SH-50% medium-dark grey, black as above
SS-Tr clear-white, quartzic as above
CHT-Tr grey brown, opaque free pyrite

- 5150-5160 LS-60% cream, buff, tan, grey brown, medium-dark grey,
firm-hard, dense, lithic, chalky, arg in part
SH-40% medium-dark grey, black, firm, fissile-subfissile,
platey, micromica in part, slightly calc in part
SS-Tr clear-white, quartzic, medium-very coarse grain,
angular-subangular, hard-very hard, slightly calc-
siliceous, poorly sorted, tight
CHT-Tr tan, grey brown
- 5160-5170 LS-70% cream-buff, tan, medium-dark grey, crypto-
medium xln, firm-hard, dense, chalky, fossilif
in part, fragmental
SH-30% medium-dark grey, black as above
SS-Tr clear-white, quartzic as above
CHT-dark grey free pyrite
- 5170-5180 LS-70% cream-buff, tan, crypto-coarse xln, firm-hard,
dense, lithic, chalky, tr oolitic round-white
SH-30% medium-dark grey, black, firm, fissile, blocky
platey, micromica in part
SS-Tr white, very fine grain, subangular-subround,
firm, calc, poor to moderately sorted, tight
also clear-opaque, very coarse grain, angular,
calc-siliceous
- 5180-5190 LS-40% cream-buff, tan as above
SH-60% medium-dark grey, black as above tr pyritic
CHT-grey brown
FOSS-fragment crinoid
- 5190-5200 LS-50% cream-buff, tan as above no oolitic, tr glauc,
tr fossiliferous
SH-50% medium-dark grey, black as above
- 5200-5210 LS-60% cream-buff, tan as above also white, cryptoxln,
firm, dense, very arenaceous, micro-oolitic round-buff
SH-40% medium-dark grey, black, as above
CHT-grey brown
- 5210-5220 LS-70% cream-buff, tan, white as above
SH-30% medium-dark grey, black as above
CHT-Tr tan, amber
Tr loose quartz grains-translucent, opaque, very
coarse grain, subround free pyrite
- 5220-5230 LS-80% cream-buff, tan, white as above
SH-20% medium-dark grey, black as above
abundant free pyrite
- 5230-5240 LS-60% cream-buff, tan, white as above
SH-40% medium-dark grey, black as above
Tr loose quartz grains-opaque, very coarse grain,
subangular-subround free pyrite

- 5240-5250 LS-40% cream-buff, white, tan, crypto-medium xln,
firm-hard, dense, lithic, chalky, oolitic and
arenaceous in part
SH-60% medium-dark grey, black, firm, fissile-subfissile
platey, micromica in part, some calc
SS-Tr clear-opaque, coarse grain, angular-subangular,
firm, clay filled, tr glauconitic, poorly sorted, tight
- 5250-5260 LS-40% white-buff, cryptoxln, firm, dense, arenaceous,
oolitic round, elliptical-buff, also cream, buff,
tan, light-dark grey, crypto-microxln, firm-hard,
dense, lithic, argillaceous in part
SH-60% medium-dark grey, black, firm, platey, subfissile
micromica in part
CHT-Tr grey brown abundant free pyrite
- 5260-5270 LS-50% white-buff, cream, buff, tan, light-dark grey
as above predominately white-oolitic
SH-50% medium-dark grey, black as above
CHT-Tr tan, free pyrite
- 5270-5280 LS-40% white, arenaceous, oolitic also buff-tan,
cream, crypto-medium xln, firm-hard, dense, chalky
lithic,
SH-60% medium-dark grey, black, grey green as above
- 5280-5290 LS-60% white, buff-tan, cream as above also dark tan,
cryptoxln, hard, dense
SH-40% medium-dark grey, black, grey green as above tr pyrc
free pyrite
- 5290-5300 LS-50% white-cream, buff-tan, white, dark tan as above
SH-50% medium-dark grey, black, grey green as above
- 5300-5310 LS-60% cream, buff-tan, white, dark tan as above,
tr pyritic, tr glauconitic
SH-40% medium-dark grey, black, grey green as above
CHT-translucent free pyrite
- 5310-5340 LS-70% cream, buff-tan, white, dark tan as above
SH-30% medium-dark grey, black, as above
CHT-Tr opaque free pyrite some laminated
- 5340-5350 LS-80% cream, buff-tan, white, dark tan as above less oolitic
SH-20% medium-dark grey, black as above free pyrite
- 5350-5360 LS-85% cream-buff, tan, dark tan, crypto-fine xln,
firm-hard, dense, lithic, chalky, tr white, oolitic
SH-15% medium-dark grey, black, as above free pyrite

- 5360-5370 LS-90% cream-buff, tan, dark tan, crypto-fine xln,
firm-nard, dense, litnic, cnalky
SH-10% medium-dark grey, black, firm, subfissile,
blockey, platey, micromica & slightly calc in part
CHT-Tr opaque
- 5370-5380 LS-85% cream-buff, tan-dark tan as above
SH-15% medium-dark grey, black, grey green as above
CHT-Tr buff, opaque-white free pyrite
- 5380-5390 LS-85% cream-buff, tan-dark tan, light grey as above
SH-15% medium-dark grey, black, grey green tr pyritic
CHT-Tr tan, opaque-white free pyrite
- 5390-5400 LS-90% cream-buff, tan-dark tan, light grey, tr oolitic
SH-10% medium-dark grey, black, grey green as above
CHT-grey brown, opaaue-white free pyrite
- Circulated
one nour LS-85% cream-buff, tan-dark tan, light grey as above
SH-15% medium-dark grey, black, grey green as above
CHT-opaque-white

1-16-43 w P
1 'F' Edsall

State Geological Survey
WICHITA BRANCH

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH OUT	FOOTAGE	HOURS
-	12 1/4"	HTC	X3A	507'	507'	9 1/4
1	7 7/8"	HTC	J-22 RR	2167'	1660'	24 1/2
2	7 7/8"	HTC	J-11 RR	3965'	1798'	66
3	7 7/8"	STC	F-2 RR	4971'	1006'	60 3/4
4	7 7/8"	STC	F-3 RR	5400'	429'	33 1/2

MUD RECORD

DEPTH	MUD WT.	VIS.	pH	WATER LOSS	CHLORIDES
3960'	9.4	36	9.5	20	47,000
4216'	9.4	34	9.4	22	30,000
4562'	9.4	40	9.5	18	20,000
4970'	9.2	58	10.0	9.6	15,000
5204'	9.1	50	10.5	8.6	14,000
5400'	9.0	62	10.5	8.4	12,000