Permit #: 20034 Date Issued: 12-17-87

County: Atchison Date Cancelled:

CONFIDENTIAL UNTIL: Date Plugged:

OGC FORMS	Date Received
1	
2	
3	12-7-87
3i	
4	12-17-87
4i	
5	2-18-88
6	
7	
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	MES	28659	1-88
	drilling & sample		2-25-88
	G-log		2-1-88
Samples	chip		
	core		
Analyses	water		
	core		

Additional Submitted Data:

COMMENTS:

bought from Stone Petroleum

Missouri Oil and Gas Council

Form OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

for an oil well ☐ or gas well ☐

NAME OF COMPANY OR OPERATOR The Stone Petroleum Corporation DATE 12/04/87

P. O. Box 52807 (Address) Lafayette (City) Louisiana, 70505 (State)

DESCRIPTION OF WELL AND LEASE

Name of lease	Well number	Elevation (ground)
Wright Farms Inc 15-11	1	891.7

WELL LOCATION (give footage from section lines) 1820 ft. from (N) (S) sec. line 1828 ft. from (E) (W) sec. line

WELL LOCATION Section 15 Township 63N Range 40W County Atchison

Nearest distance from proposed location to property or lease line: 500 feet

Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: N/A feet

Proposed depth	Drilling contractor, name & address	Rotary or Cable Tools	Approx. date work will start
4000	EDCO, Eureka, Kansas	Rotary	December 7, 1987

Number of acres in lease: Drill Site - 40 Acres

Number of wells on lease, including this well, completed in or drilling to this reservoir: zero

Number of abandoned wells on lease: zero

If lease, purchased with one or more wells drilled, from whom purchased: Name N/A Address

No. of Wells: producing ___ injection ___ inactive ___ abandoned ___

Status of Bond: Single Well ☐ Amt. ___ Blanket Bond ☒ Amt. 40,000 ☒ ON FILE ☐ ATTACHED

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed

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Proposed casing program:

amt.	size	wt./ft.	cem.
350	9 7/8"	36#	Yes

Approved casing -- To be filled in by State Geologist

amt.	size	wt./ft.	cem.
✓	✓	✓	✓

I, the undersigned, state that I am the Drilling Engineer of the Stone Petroleum Corp. (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Philip T. Lalande

Permit Number: 20034

Approval Date: 12-17-87 *

Approved By: James Holly Williams BWW

Note: This Permit not transferable to any other person or to any other location

☑ Drillers log required

☑ E-logs required if run

☑ Core analysis required if run

☑ Drill stem test info. required if run

☑ Samples required

☐ Samples not required

* verbal permit approval earlier BWW

WATER SAMPLES REQUIRED @

Remit two copies to: Missouri Oil and Gas Council P.O. Box 250 Rolla, Mo. 65401

One will be returned for driller's signature

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

3/12/82

4-27-83

Missouri Oil and Gas Council

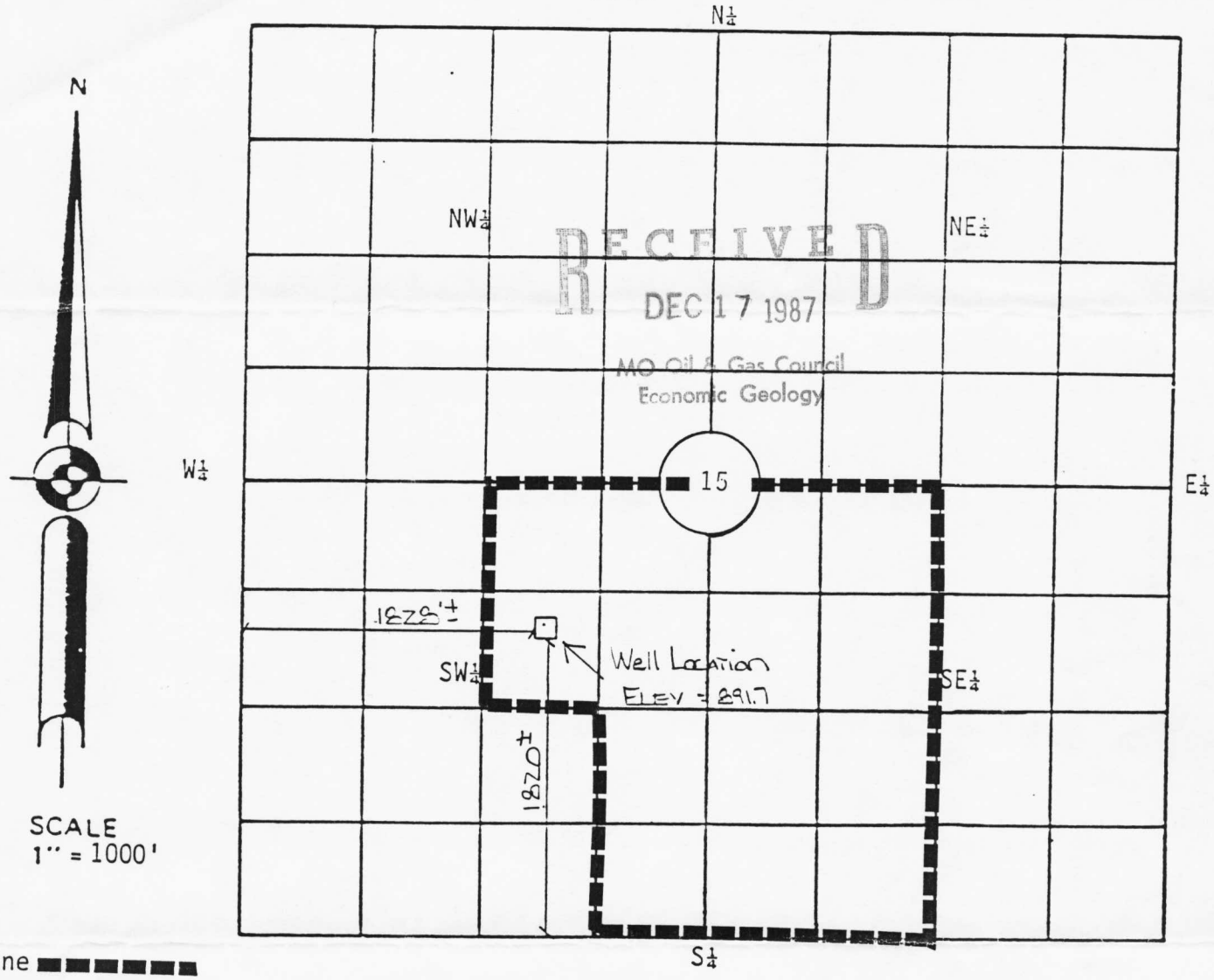
WELL LOCATION PLAT

Form OGC-4

Owner: Stone Petroleum

Lease Name. Wright Farms, Inc. 15-11-1 County: Atchison

1820 feet from S (N)-(S) section line and 1828 feet from W (E)-(W) section line of Sec. 15, Two. 63 N., Range 40



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DEC 17 1987
MO Oil & Gas Council
Economic Geology

REMARKS: Ground elevation at well = 891.7. Elevations are in reference to USGS vertical datum.

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to Certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

STATE OF MISSOURI
JOHN R. TEALE
NUMBER
LS-1724
REGISTERED LAND SURVEYOR

(SEAL)

Registered Land Surveyor

LS-1724
Number

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250, Rolla, MO 65401

One will be returned.

Missouri Oil and Gas Council

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well [X] Workover [ ] Deepen [ ] Plug Back [ ] Injection [ ] Same Reservoir [ ] Different Reservoir [ ] Oil [X] Gas [ ] Dry [ ]

Owner: The Stone Petroleum Corporation	Address: P. O. Box 52382, Lafayette, LA 70505
Lease Name: Wright Farms 15-11	Well Number: 1
Location: 1,820' FSL and 1,828' FWL of Sec. 15	Sec., Twp., and Range or Block and Survey: Sec. 15, T63N R40W
County: Atchison	Permit number (OGC 3 or OGC 3I): 20034

Date spudded	Date total depth reached	Date completed, ready to produce or inject	Elevation (DF, RKB, RT, or Gr.) feet	Elevation of casing hd. flange feet
December 8, 1987	December 18, 1987	12-20-87	KB; 891.7' GL	891.7' GL

Total depth	P.B.T.D.
2,814'	2,814'

Producing or injection interval(s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
2,806' - 2,814' (OH)	From 0 to TD; Drilling Fluid used Freshwater mud	From – to –

Was this well directionally drilled?	Was directional survey made?	Was copy of directional survey filed?	Date filed
No	No	–	–

Type of electrical or other logs run (list logs filed with the State Geologist)	Date filed
DIL-SFL-GR, CNL-LDT-GR, BHC-GR, Cyberlook, Drilling Time and Sample Log (all filed)	Previously Filed

CASING RECORD

Casing (report all strings set in well – conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb. ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4"	8-5/8"	24	383'	200	0
Production	7-7/8"	5-1/2"	14	2,806'	150	0

TUBING RECORD Tubing Anchor

Size	Depth set	Packer set at	Size
2-7/8 in.	2,811 ft.	2,711 ft.	in.

LINER RECORD

Top	Bottom	Sacks cement	Screen (ft.)
ft.	ft.		

PERFORATION RECORD

Number per ft	Size & type	Depth Interval
None		

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production or injection	Producing method (indicate if flowing, gas lift, or pumping – if pumping, show size and type of pump
January 8, 1988	Pumping, C-57D-76-54, 1.5" pump 5 SPM

Date of test	Hrs. tested	Choke size	Oil produced during test	Gas produced during test	Water produced during test	Oil gravity
1-11-88	24	–	27 bbls.	– MCF	0 bbls.	32.9 API (Corr.)

Tubing pressure	Casing pressure	Cal'ted rate of Production per 24 hours	Oil	Gas	Water	Gas – oil ratio
–	–		27 bbls.	– MCF	0 bbls.	–

Disposition of gas (state whether vented, used for fuel or sold): TSTM

Method of disposal of mud pit contents:

CERTIFICATE: I, the undersigned, state that I am the Agent of the The Stone Petroleum Corp. (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

RECEIVED JUL 18 1988

MO Oil & Gas Council Economic Geology

Michael E. Maddox
Signature

3/12/1982

Temporary No. 3 CONFIDENTIAL!! 4/6/88

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES, ROLLA, MISSOURI

COUNTY ATCHISON

MGS LOG NO. 28659

COMPANY OR OWNER Stone Petroleum

FARM Wright Farms WELL NO. 15-11 #1

LOCATION 1820'FSL & 1828FWL SEC 15 T 63N R 40W

CONTRACTOR/DRILLER Edco Drilling Co.

COMMENCED COMPLETED

PRODUCTION Oil

CASING RECORD

WATER RECORD

SOURCE OF LOG

REMARKS Logged by Ken Deason 3/88, Permit #20034

ELEV. 891.7'

TOTAL DEPTH 2813'

SWL

NO. SAMPLES 176 SAMPLES RECEIVED 1-20-88

FORMATION	FROM (ft)	TO (to)
No samples	0	405
Douglas-Shawnee Group	405	590
Kansas City-Lansing Group	590	900
Marmaton-Pleasanton Group	900	1170
Cherokee Group	1170	1795
Burlington(?)	1795	1955
Kinderhook	1955	2220
Silurian-Devonian System	2220	2775
Maquoketa	2775	2813

FORMATION	FROM (ft)	TO (to)

GEOLOGICAL REPORT

DRILLING TIME AND SAMPLE LOG

DR. BRUCE G. LANGHUS OKC, OK (405) 232-0272

OPERATOR STONE ELEV: KB 897.7
WELL NAME WRIGHT FARMS DF
FIELD RUNAMMUCK GL 891.7
LOC 15 - 63N - 40W DATUM KB
COUNTY ATCHISON DTD 2813'
STATE MISSOURI LTD 2813'

SPUD DATE DEC 8, 1987 TD DATE DEC 14, 1987
GEOL. SUPERVISION FROM 900' TO TD
GAS DETECTOR FROM NONE TO
MUD PROGRAM

DRILL-STEM TESTS

NO.	INTERVAL	FORMATION
1	2809' - 2813'	VIOLA

FORMATION	DEPTH	SUBSEA
LANSING	585	+314
BASE/K.C.	902	-4
MISSISSIPPIAN	1794	-896
KINDERHOOK	1957	-1059
HUNTON	2210	-1312
MAQUOKETA	2777	-1879
VIOLA	2811	-1913

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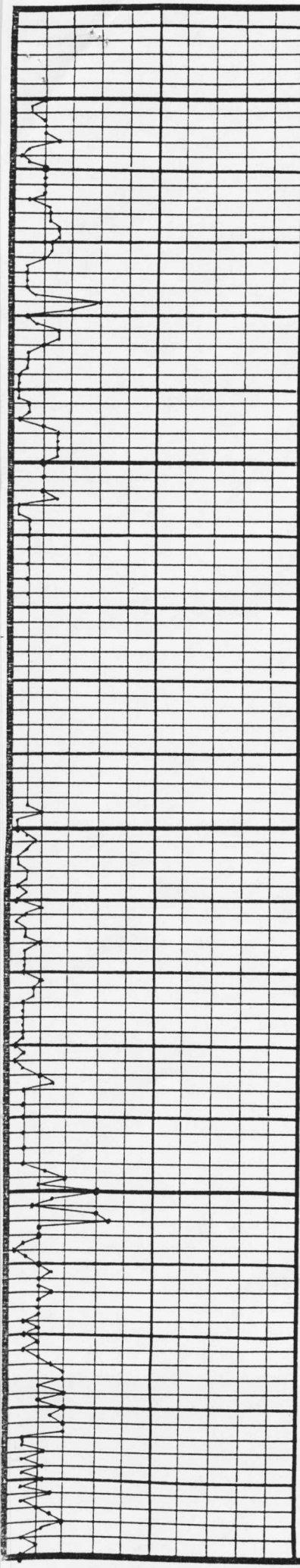
MO Oil & Gas Council
Economic Geology

LEGEND

FLUOR. SANDSTONE
CUT SHALE
STAIN LIMESTONE
DST DOLOMITE
CSG CHERT
GRANITE WASH

DRILL TIME/RATE DEPTH LITH SAMPLE DESCRIPTION

CONFIDENTIAL



1000'

Medium grey, soft fissile shale. Medium grey, very soft, silty clay stone. Light grey, fine-grained ss, poor ϕ, no stain w/ black carbonaceous streaks.

Light greenish-grey fine-grained, shaley, ss, poor ϕ, no stain, pyrite nodules. Trace tan fossiliferous lms. Trace black, flakey shale

Black, flakey shale

SAMPLE LOST

Grey, soft, silty claystone peppered with carb. flakes. Minor dirty grey fine to med. fine-grained, shaley ss, poor ϕ, no stain.

1100

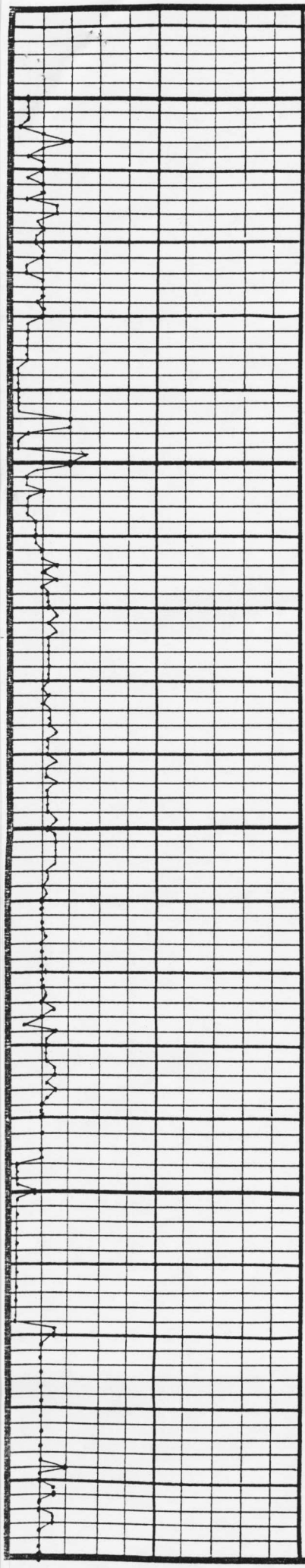
Light grey, med to med-coarse grained ss, fair ϕ, no stain, Tr black, carb flakes, trace pyrite

Dark grey, fissile shale. Light brown sandy lms.

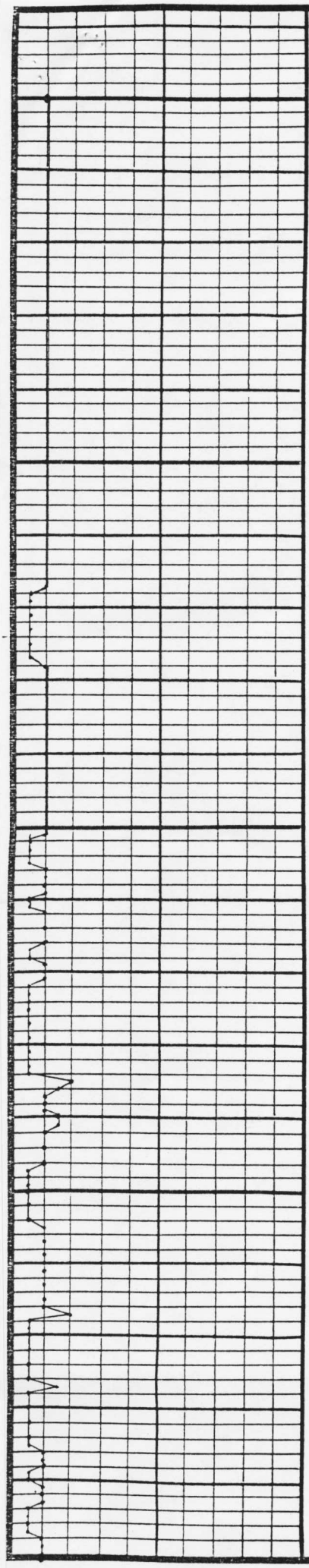
Med green-grey very soft, silty-sandy claystone.

Black, hard, flakey shale. Trace white, fine-grained, & hard ss, poor ϕ, no stain.

Medium grey, medium-grained sand, poor ϕ, no stain, small black carb. flakes.



1200	
	Light grey, fine-grained ss, poor ϕ, no stain. Abundant pyrite as both nodules and disseminated, tiny specks.
	Light greenish-grey, soft, & slightly fissile shale.
	Grey, medium to coarse-grained, ss, poor to fair ϕ, no stain. Medium-grained, ~~grey~~ salt-and-pepper grey ss with abund carb. laminae and dissem. pyrite.
	Dark grey, fissile shale. Trace black, flakey sh.
	Dark grey, soft claystone. Trace black, flakey shale.
	Grey, medium-grained ss, poor ϕ, no stain. black, carb. flakes
1300	
	Sand as above
	Sand as above w/ many coarse, angular qrtz and chert grains
	sand as above
	loose, medium to coarse qrtz sand, good ϕ, no stain. tr black sh flakes, tr pyrite
	sand grains mostly rounded w/ some xtal faces
	loose sand as above



1400

loose sand as above

loose sand as above

loose sand as above

Medium grey, soft, sand-silty claystone
black, carbonaceous specks and laminae

claystone as above

1500

~~Dark~~ Dark grey, fissile shale. Minor white, fine-grained, tite ss

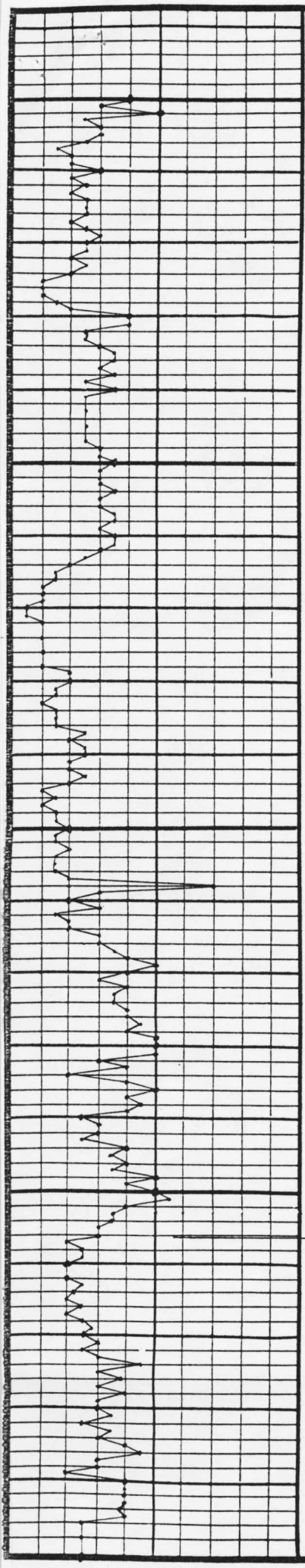
Shale and sand as above

Shale and sand as above

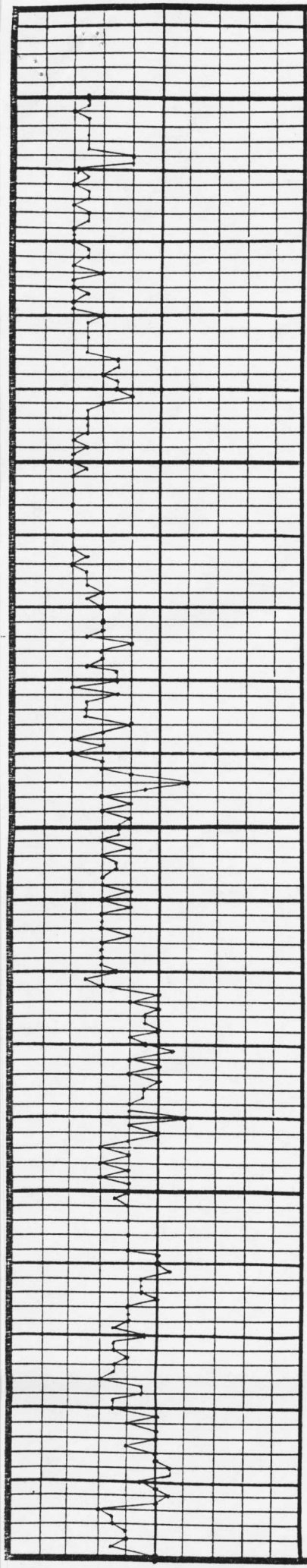
Dark grey, semi-fissile, soft shale.
Tan, carbonaceous ~~st~~ fissile shale

Shale as above

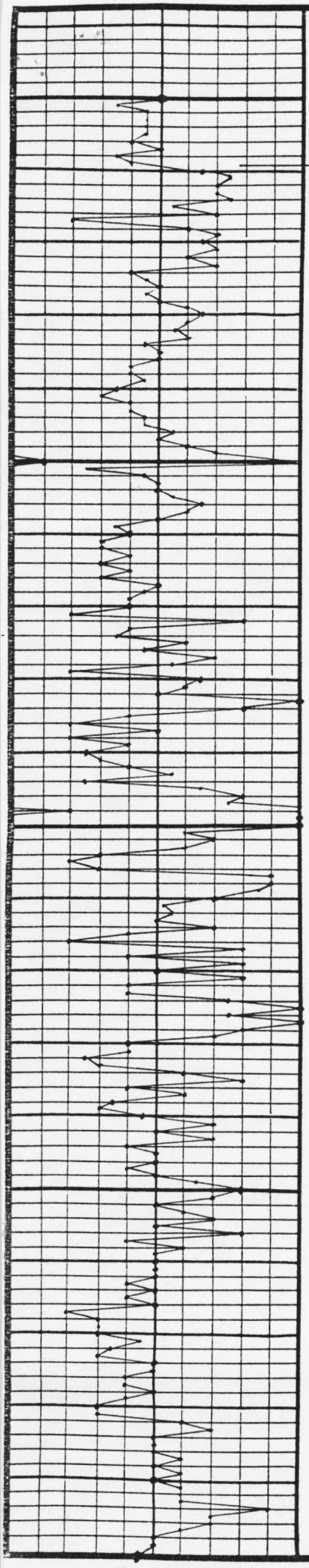
1600		
		Shale as above
		Shale as above w/ minor med-grained, hard, tite slight grey ss, poor ϕ, no stain
		Shale and sand as above
		Dark grey, semi-fissile, soft shale scattered, coarse, loose qrtz grains, well rounded.
		Loose, coarse to very coarse, qrtz grains, well-rounded to angular, some xtal faces. Good ϕ, no stain, no odor.
1700		Loose ss as above
		Dark grey, fissile shale w/ laminae of white, fine-grained, tite ss
	P P	shale w/ ss as above plus tr. pyrite
	P P	shale w/ss as above
	P P	shale w/ss as above
	P P P P	shale w/ss as above, abundant pyrite
	P P P P	as above
	P P P P P P P P	as above
		Dark grey, silty-sandy, semi-fissile shale loose, coarse qrtz grains
Miss 1794	P P P P	Loose, coarse, rounded qrtz grains with minor pyrite cement. Tan to pink fine-gr lms w/ fossil frags



1800		
		white-tan-pink mottled, bioclastic lms, no vis ϕ, no stain. Abund. pyrite.
		Light to Dark brown, cryptoxln to coarse-grain lms. fossil frags. No vis. ϕ Abund. pyrite. Brown chert
		Lms as above. Milky chert. Abund. loose, round, coarse, qrtz. grains. Abund. pyrite.
		Lms as above. Abund. milky chert
		Tan to white mottled, coarse-grained calcarenite. Abund. milky chert. No vis ϕ, no stain
		Lms as above
		Lms as above. Abund. crinoid frags. V. abund. milky Chert
		As above, minor pyrite
		as above
		as above
1900		
		as above
		as above
		as above w/ dark grey, fissile shale
		Brown, fine-xln to micritic lms, no vis ϕ. Greenish grey, fissile shale
		As above plus minor brick-red, silty claystone
KINDERHOOK		White to tan, coarse-grained calcarenite, no vis ϕ, loose, white oolites. Green-grey shale. Minor brick-red claystone. Abund. pyrite. Abund. milky chert
1957		Light green shale. Brick red claystone. Abund. pyrite.
		Abund. red claystone
		As above, red very soft claystone
		As above



2000		Coppery, hematitic nodules - flattened spheres (compare 2010'-2020' @ Stone 1-Schooler)
		Light grey, fissile, soft shale
		Light green-grey, silty claystone, soft. Scattered chert
		as above w/ pyrite
		as above
		as above
		as above
		as above, very soft
		as above
		as above plus white fine-xln, dolomitic lms no vis ϕ, no stain
2100		Claystone as above w/ minor lms as above
		Grey, fine-xln, dolomitic lms. some med-xln dolo rhombs. No vis ϕ, no stain. Tan chert.
		Grey lms as above plus light grey shale with carbonaceous ~~veins~~ veins
		as above w/ tr. pyrite
		as above
		as above
		Medium grey, fine-xln, dolom. lms. Light grey, medium-xln dolom. lms. Pyrite
		lms as above plus white chert
		as above
		Grey to dark grey, semi-fissile shale w/ black, carbonaceous laminae. Abund. pyrite



2200

HUNTON

2210

2300

As above w/ minor light brown, micritic lms no vis ϕ, no stain

Light brown micritic lms. Light brown coarse-xln lms, tite no ϕ, no stain. Trace vugs filled w/ dolo, calcite xls. no stain in vugs

as above, abund coarse calcite & dolomite

Brown fine-xln, sucrosic dolo, poor vis ϕ, no vugs

as above w/ grey chert

Brown, med-xln, sucrosic dolo, poor vis ϕ, vugs filled w/ xln calcite & dolomite, no ϕ, no stain

Grey, fine-xln, sucrosic dolo, tite, no vugs

Dark brown, fine to med-xln dolo. poor vis ϕ, trace vugs filled, no stain

as above

as above

Medium brown, fine-xln, sucrosic dolo, poor ϕ. Dark brown, med to coarse-xln, dolo, tite, no vis ϕ.

As above w/ abund., xl-filled vugs, no stain.

as above

Tan, fine-xln, sucrosic dolo, poor ϕ, no stain

as above

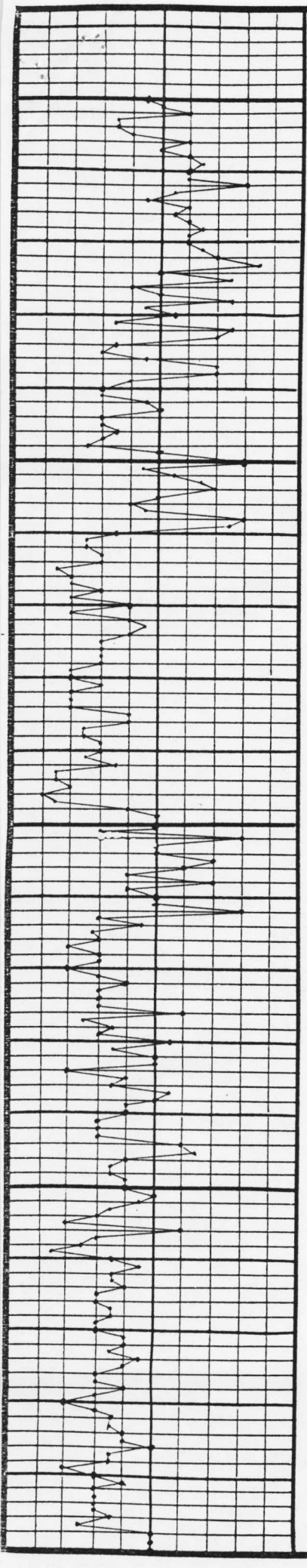
as above

as above

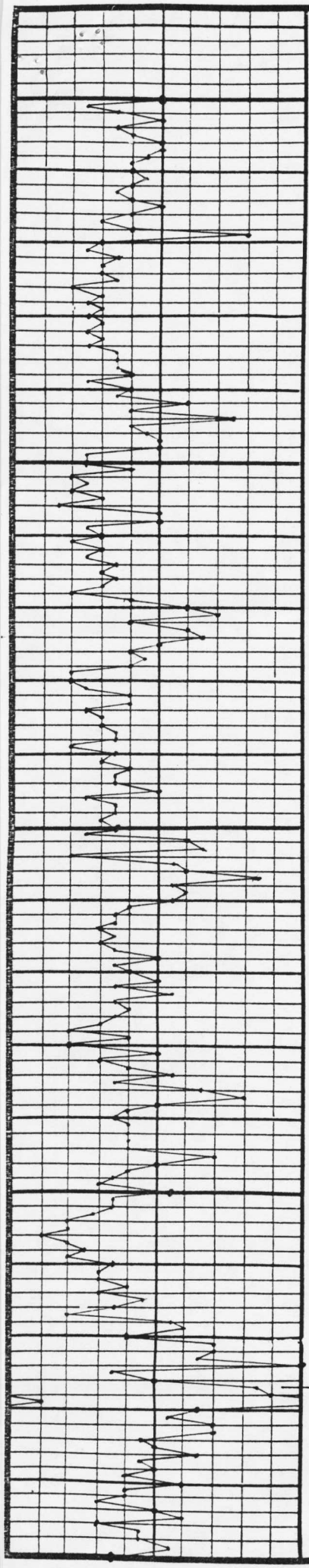
Light grey, micritic lms w/ fine dolo rhombs no vis ϕ, no vugs

as above w/ abund., very coarse calcite

as above w/ very abund. calcite



2400	
	Lost circulation @ 2403' No Sample
	No Sample
	Light grey, micritic lms w/ med to fine dolo rhombs. no vis. ϕ, no stain, minor coarse calcite
	lms as above plus abund. grey chert, abund. coarse calcite
	Light brown, fine-xln, sucrosic dolo., poor ϕ, no stain. Dark brown, med-xln, sucrosic dolo., poor ϕ. V. abund. chert, pyrite
	as above, v. abund. white & grey chert
	as above
	as above w/ white, med-xln, sucrosic dolo, fair to good interxln ϕ, no stain, no fluor.
	as above
	White, med-xln dolo., tite, hard, no vis. inter-xln ϕ. Abund vugs, pinpoint to large, qrtz & calcite lined, no stain. V. abund grey & white chert
2500	Light brown fine-xln dolo, tite, poor ϕ, no stain v. abund. white & grey chert. Scattered vugs in dolo. xl-lined, no stain
	as above
	as above abund. vugs
	as above
	as above
	as above
	as above
	as above
	as above
	as above, very abund vugs no stain



2600	as above
	Light grey to light brown, fine-xln, hard, dolo, poor inter-xln ϕ. V. Abund. vugs, xl-lined, no stain. Grey chert tr. pyrite
	as above
	as above
	as above
	as above
	as above
	as above
	as above
	as above
2700	as above plus opaque white chert
	as above
	as above
	as above
	Light grey, fine-xln, sucrosic dolo., finely dissem. pyrite specks. Poor inter xln ϕ, no stain.
	dolo as above: Light grey fine-xln, hard, poor inter xln ϕ, abund. vugs, no stain white opaque chert
	dolo as above plus abund. white chert
MAQUOKETA	
	Med greenish-grey, soft to waxy claystone. Grey, med-xln dolo. tite, no ϕ, w/ masses of pyrite.
2777	
	Med grey, fissile shale w/ carb. streaks
	Med greenish-grey, soft, med-xln sucrosic dolo., shaley, fair inter-xln ϕ, no stain

2800

VIOLA

2811'

TD 2813'

as above

Light tan to brown mottled, coarse-xln, dolo. poor inter xln ϕ w/some stain, ~~slow~~ faint yellow flour, slow streaming cut. ~~to~~ Abund. vugs w/stain also

good live oil stain, good odor.