

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

COUNTY HWY

Record by D. AARONSON Source of data FILE Date 8/3/65 Map 1:63,360

State IOWA County TAYLOR Sequential number 1

Latitude: 40° 46' 50" N Longitude: 091° 55' 10" W

Local well number: 06935W18b Other number: W-1273

Local use: 01273 Owner or name: W.D. SMYTHE #1 Hook

Owner or name: SMYTHE HOOK Address: NEW MARKET, IA

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist

Use of water: Air cond, Comm, Dewatering, Fire, Ind, Irr, Ind, P S, Stock, Instit, Unused

Use of well: Anode, Drain, Seismic, Obs, Oil-gas, Recharge, Spring, Test, Unused, Withdraw, Waste, Destroyed

DATA AVAILABLE: Well data 5 Freq. W/L meas.: 70 Field aquifer char. 72

Hyd. lab. data: 73

Qual. water data; type: 74

Freq. sampling: 75 Pumpage inventory: yes 76 no, period: 77

Aperture cards: 78

Log data: GEOLOGIST LOG 79

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 1010 ft 1010 Mean. 6

Depth cased: (first perf.) ft Casing type: ft Diam. in

Finish: porous gravel w. gravel w. horiz. open concrete, (perf.), (screen), gallery, end, perf., screen, sd. pt., shored, open hole, other

Method: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)

Drilled: air, bored, cable, dug, hyd, jetted, air, percussion, rotary, reverse trenching, driven, drive wash, other

Date: SEPT 1940 Pump intake setting: ft

Driller: HERNDIN DRILL CO. TULSA, OKLAHOMA

Lift: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)

Power: (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 47 Trans. or meter no. 48

Descript. MP LSD above ft below ft lsd, Alt. MP 1035.8

Alt. LSD: 1035.8 1035.8 Accuracy: ALTIMETER

Water Level: ft above ft below ft Accuracy: ft

Date: ft Yield: SPM Method: determined

Drawdown: ft Accuracy: ft Pumping period: hrs

QUALITY OF WATER DATA: Iron ppm Sulfate ppm Chloride ppm Hard. ppm

Sp. Conduct: x 10⁶ Temp. °F Date sampled ft

Taste, color, etc. ft

069-35W-18 da

Well Number 40 46 50 N 039 55 10

HYDROGEOLOGIC CARD

SAVE AS ON MASTER CARD Physiographic Province: CENTRAL LOWLAND Section: DISSECTED

TILL PLAIN E Drainage basin: NODAWAY Subbasin: 3118

Topo of well site: local depression, flat surface, hilltop, hillside, terrace, valley flat. VALLEY V

MAJOR AQUIFER: system series aquifer, formation, group

Lithology: Origin: Aquifer Thickness: ft

Length of well open to: ft Depth to top of: ft

MINOR AQUIFER: system series aquifer, formation, group

Lithology: Origin: Aquifer Thickness: ft

Length of well open to: ft Depth to top of: ft

Intervals Screened:

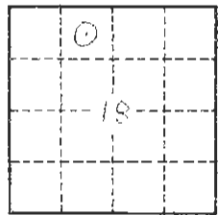
Depth to consolidated rock: ft Source of data:

Depth to basement: ft Source of data:

Surficial material: Infiltration characteristics: POOR

Coefficient Trans: spd/ft Coefficient Storage:

Coefficient Perm: 2 spd/ft; Spec cap: spd/ft; Number of geologic cards:



W-1273

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	

Town: New Market { NE }
 { SW } : County Taylor
NE-NW-NW sec. 18 T 69 N., R. 35 W. Dallas Twp.

Well name and number W.D. Smythe et al No 1 Hooks

Owner	Address
Wm. H.
J. M.
A. B.
C. D.
E. F.
G. H.
I. J.
K. L.
M. N.
O. P.
Q. R.
S. T.
U. V.
W. X.
Y. Z.
AA. BB.
CC. DD.
EE. FF.
GG. HH.
II. JJ.
KK. LL.
MM. NN.
OO. PP.
QQ. RR.
SS. TT.
UU. VV.
WW. XX.
YY. ZZ.
AAA. BBB.
CCC. DDD.
EEE. FFF.
GGG. HHH.
III. JJJ.
KKK. LLL.
MMM. NNN.
OOO. PPP.
QQQ. RRR.
SSS. TTT.
UUU. VVV.
WWW. XXX.
YYY. ZZZ.
AAA. BBB.
CCC. DDD.
EEE. FFF.
GGG. HHH.
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KKK. LLL.
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SSS. TTT.
UUU. VVV.
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WWW. XXX.
YYY. ZZZ.
AAA. BBB. ...	

[illegible][illegible]

Drillers

Drilling dates: May 14, 1947

Elevations: Drilling curb 1037 feet; Land surface _____ feet

Determined by _____; _____

Topographic position

Total depth: Reported 1010 feet, Measured _____ feet

Drilling method

Hole and casing data

	above	
Original depth to water	ft. below	Date

Original elevation of water level ft.; Source of data

Sources of water: Principal _____; Others _____

Production data:

Date

Static depth to water

Measuring point

Pumping level

at

g.p.m.

Specific capacity

g.p.m. per ft. drawdown; Temperature

°F.

Pump data: Type pump

Column Dia.

Length

Cylinder or bowls: Dia.

Length

Suction pipe

Power

Airline

Estimated rate of production:

g.p.m. for

hrs. a day

Use of water

WATER ANALYSES (in parts per million)

Date samples

Sampled by

Total solids

Insoluble matter

Alkalinity (Meo)

Alkalinity (Phn)

pH

 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$

Alkali as sodium

Calcium

Magnesium

Iron (unfiltered)

Manganese

Nitrate

Fluoride

Chloride

Sulfate

Bicarbonate

Hardness (ppm)

Hardness (gpg)

Remarks

Laboratory data:

Sample storage location

Sample range

G1-1016

No. spls.

181

No. dupls. & cond.

175 7-6 and

Spls. prepared by

Sumner

Washed range

-1010

by

Driller's log and cond.

Insoluble residues: Prepared by

Studied by

Strip log

Microscopic study

Eliason

strip log

Eliason

Gen. log

Correl. by

Eliason



W. O. Smythe, et al
Hawleyville
Driller's log

50



Soil black	71
Gravel waer	3
Shale	9
Lime	5
Shale	22
Lime	1
Shale gray	9
Lime	2
Sand water	13
Shale sandy	10
Shale dark	42
Shale sandy	12
Shale dark	11
Shale dark - lite	10
Lime	6
Shale dark	6
Lime sandy	23
Shale black	3
Lime	3
Shale lite	17
Lime white	4
Shale lite	4
Red bad	17
Shale white S	20
Shale light	
Shale Sandy lime	
Lime	6
Shale	62
Lime	

Sept. 26, 1940
Depth

71
74
83
88
110
111
122
122
132
142
184
196
207
217
223
229
252
255
258
275
279
283
300
320
340
345
351
413

actual
depth water
251

Kerford

4. Orind

Mid Orind

L. Orind

Water 345

Sheet No. 1 Name of Well Smythe et al Survey No. W-1273

Location New Market Date Drilled Sept 1940 Analyst Elias

00

10

20

30

40

50

60

61 sh. calc. brown lam. ls. large, small

70

70 ls. sh. drabish gray, spotted with med. gray, v. sh. to sub-lith, crinoids trace pyrite

73 sh. drab, ls. med. large, hand. calc. extruded, coal frag.

80

78 sh. drab, med. brownish drab, v. sh. to sub-lith, large white, small drab, 5% blk. sh. slightly calc.

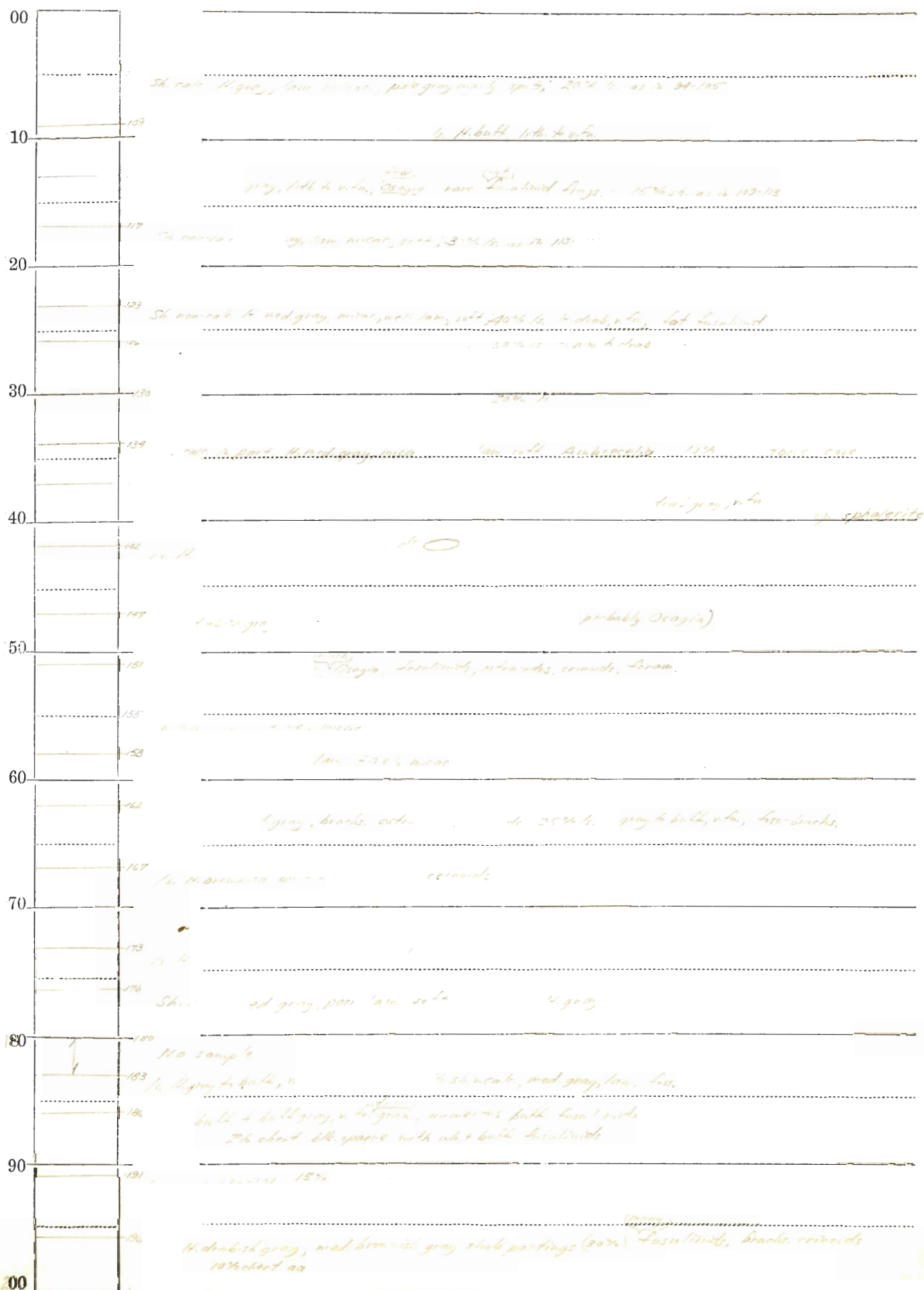
90

87 brownish drab, v. sh. to sub-lith, large drab, crinoids 10% ls. v. med. drab, v. sh. 10% blk. sh.

00

94 ls. drab, med. brown gray, sh. to sub-lith, streaks clear brown calc. sh. 25% sh. v. calc. sh. greenish gray soft porous lam.

Location New Market Date Drilled Sept. 1940 Analyst Elias



Sheet No.

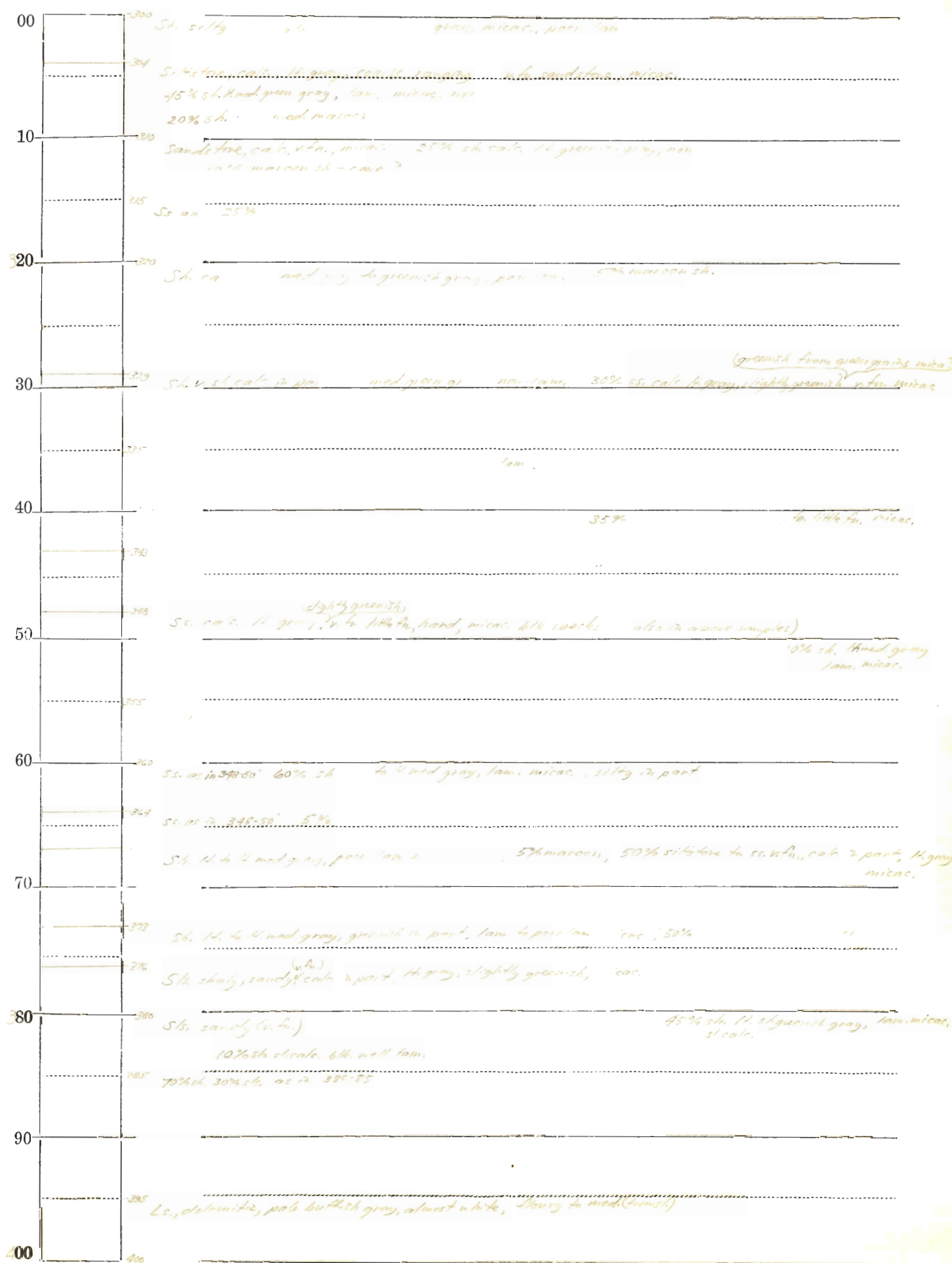
Name of Well... Smuthe et al.Survey No. W-1275

Location

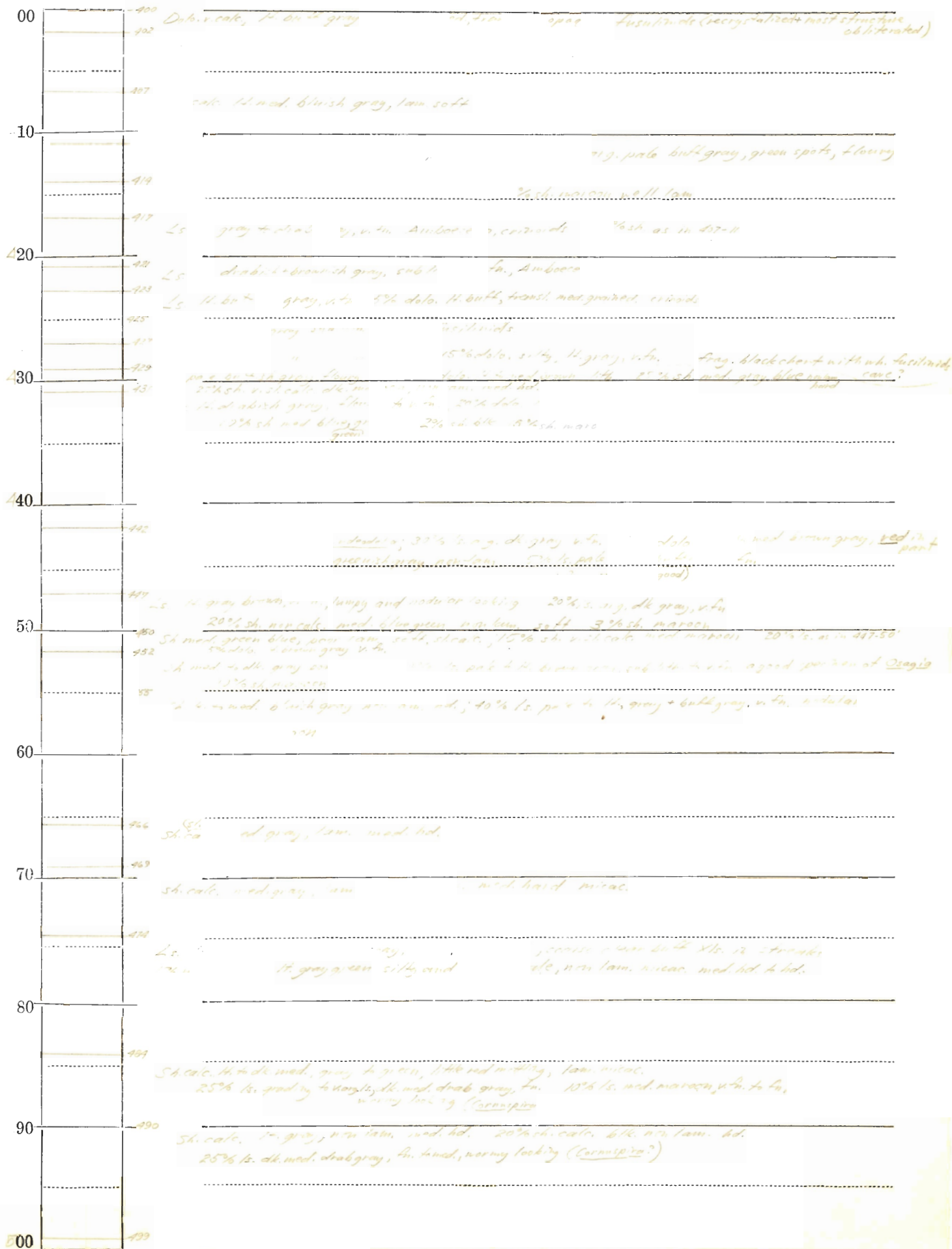
Date Drilled Sept. 1940Analyst Elias

Sheet No. 4 Name of Well Smythe et al Survey No. W-1273

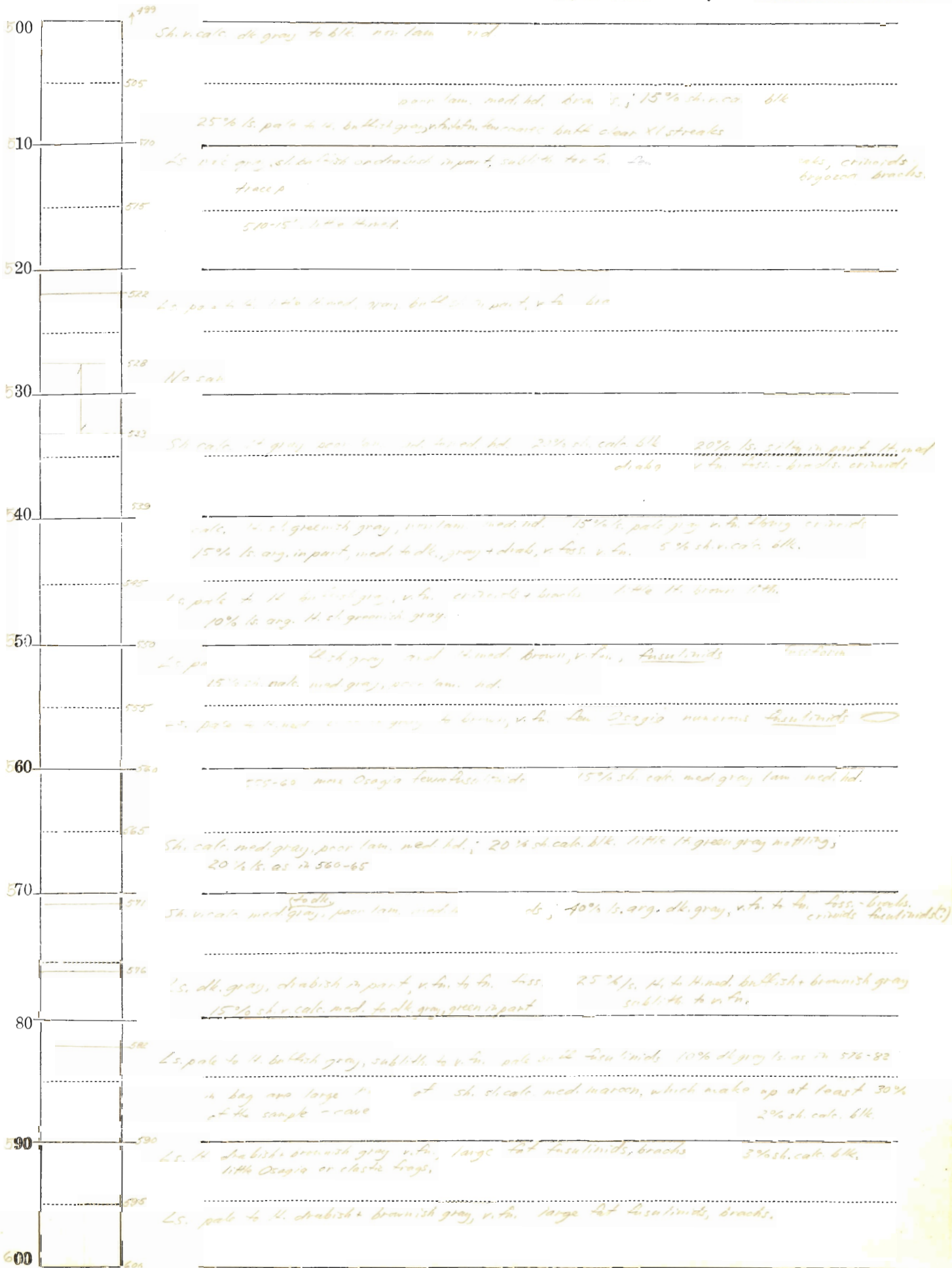
Location New Market Date Drilled Sept 1940 Analyst Elias



Location New Market Date Drilled Sept 1940 Analyst Elias



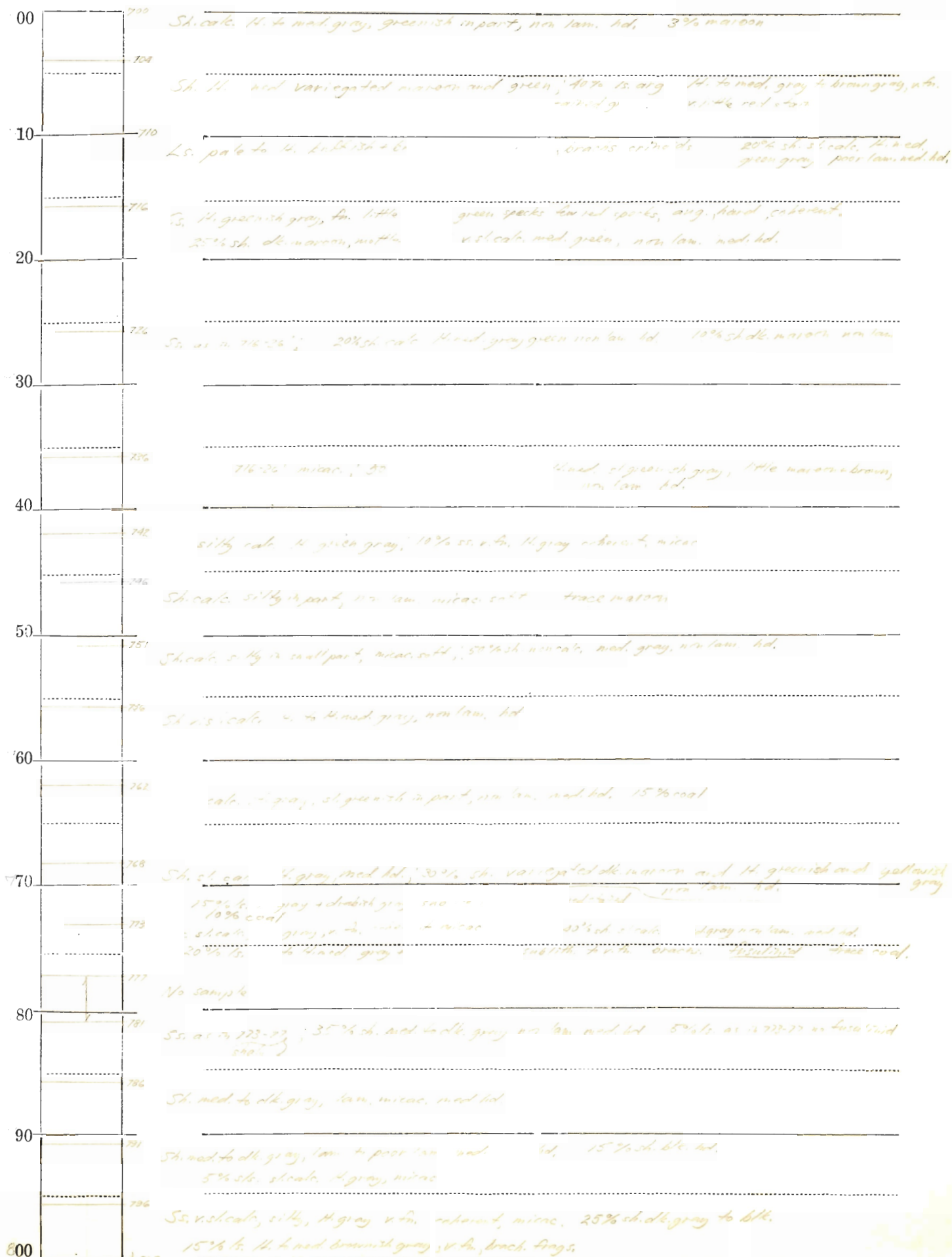
Location New Market Date Drilled Sept. 1947 Analyst Elias Oct. 10, 1910

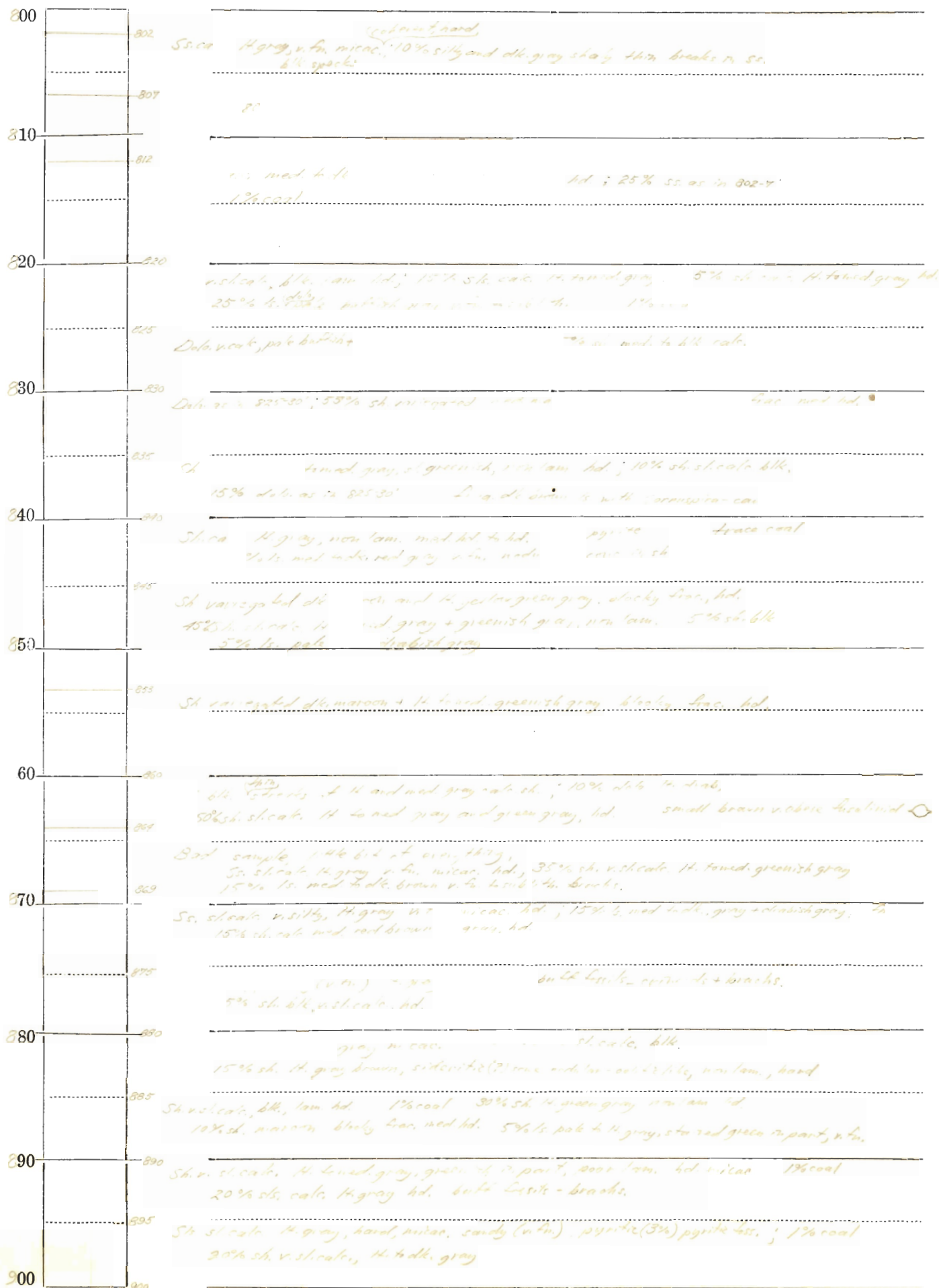


Location New Market Date Drilled Sept. 1940 Analyst Elias Oct. 10 '40

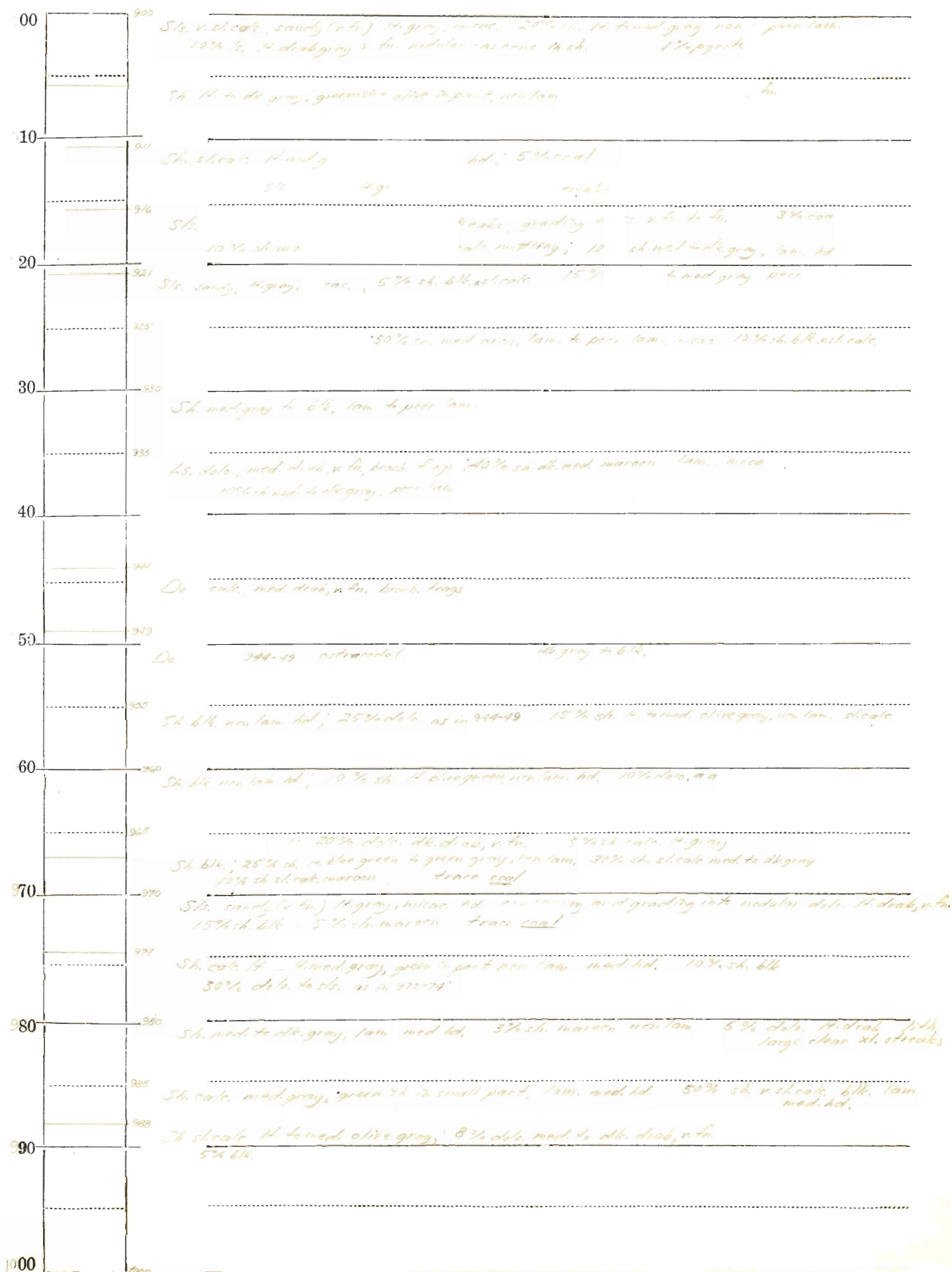


Location New Market Date Drilled Analyst Elias Oct. 10 '40



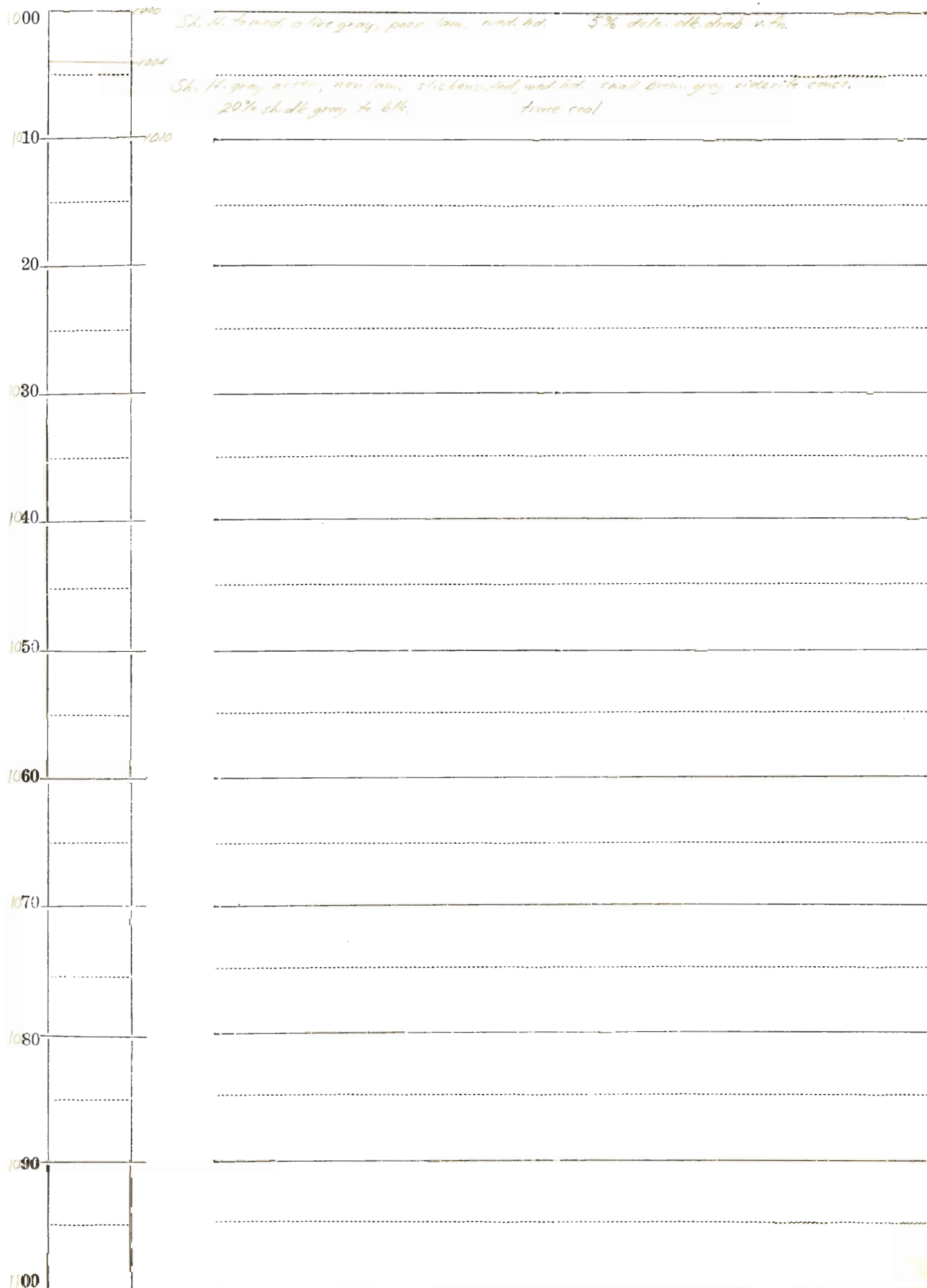


Location New Market Date Drilled Analyst Elias Oct 11, 1940



Sheet No. 11 Name of Well Smythe et al. Survey No. W-1273

Location New Market Date Drilled Analyst Elias Oct 11 1990



October 29, 1940

Mr. W. O. Smythe
Hotel Linderman
Clarinda, Iowa

Dear Mr. Smythe:

Under separate cover we are sending you copies of our strip log of the old Clarinda well showing the formations from the surface to a depth of 2042 feet and the strip log of your well to a depth of 1000 feet.

On the strips the formation names are to the left of the colored column and a general description of the important beds to the right. A small strip included with the logs describes the meaning of the colors and symbols used.

The top of the Hunton limestone in the Clarinda well is shown at a depth of 2016 feet overlain by Kinderhook Maple Mill shale containing a strip of cherty limestone.

If you will return the copy of the strip log of your well to us when you send in the next batch of samples we will add the additional data and send it back to you. If you want additional information plotted on the old Clarinda well please let me know.

I am sorry that there has been a delay in getting these strip logs to you.

Very truly yours,

H. G. Hershey

HGH:N

October 14, 1940

Mr. W. O. Smythe
Hotel Linderman
Clarinda, Iowa

Dear Mr. Smythe:

We have received and studied samples from your well to a depth of 1010 feet.

According to our interpretation a depth of 955 feet in your well corresponds to a depth of 928 feet in the old Clarinda well and on this basis a depth of 1010 feet in your well would correspond to a depth of 983 feet in the old Clarinda well.

Below a depth of approximately 1015 feet in your well there should occur a sandstone, one or more thin limestones separated by dark shales, and a coal at approximately 1080 feet. The limestone should make a good point of correlation. According to the log of the Clarinda well this will be the last important limestone until the top of the Mississippian is reached. According to the log of the Clarinda well the formations below the coal at approximately 1080 feet will consist chiefly of dark shales with an occasional thin bed of sandstone and several coal horizons.

If water is encountered in any large quantity it should be sampled for mineral analysis.

I hope that your drilling operations will continue to move along smoothly.

Very truly yours,

H. G. Hershey

HGH:N

Clarinda

928' ls.

=

Smythe

10 10

955' dol.

10

937-43' trace coal = Mystic(?) = trace coal 967-74'

October 12, 1940

Mr. W. O. Smythe
Hotel Linderman
Clarinda, Iowa

Dear Mr. Smythe:

We have studied the samples from your well to a depth of 921 feet, a depth which represents all of the samples which we have received to date.

We find that the rocks from a depth of 825 feet in your well correspond to those at a depth of 792 feet in the old Clarinda well. Below a depth of 825 feet in your well the rocks are of such character that a definite correlation with the old Clarinda well is not possible with any degree of accuracy. Beds which can be correlated from one well to another will be encountered, of course, with deeper drilling.

Very truly yours,

H. G. Hershey

HGH:N

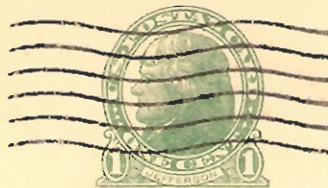
Clarnida

792'

dolomite - Fort Scott (?)

Smythe et al

825'



THIS SIDE OF CARD IS FOR ADDRESS

Mr. H. G. Hershey,
Iowa Geological Survey,
Iowa City
Iowa,

W. O. SMYTHE,

Test

N E, N W, 18 - 69 - 35, Taylor Co., Iowa

DRILLING

990 ft

IN

*Sand from 970 - Two small
traps of shale*

CLARINDA CHAMBER of COMMERCE

LEE FILSON, Pres.

October 11, 1940.

Mr. W. O. Smythe
Hotel Linderman
Clarinda, Iowa .

Dear Mr. Smythe:

Your letter of October 8 and your card of October 9 have been received and I am glad to hear that you are making such good drilling time.

Under separate cover we have sent you a supply of 200 sample bags, When you need more please let me know.

Enclosed is a report on the analysis of the water which you collected when your well was 85 feet deep. The chlorine, sodium and sulphate content of this water is somewhat higher than I expected, but as expected, it does not approach a normal oil field water in mineral content. I expect the other reports on the samples that we collected to be along in the near future.

We have studied the samples to a depth of 810 feet. According to our interpretation a depth of 710 feet in your well is equivalent to a depth of 680 feet in the old Clarinda well and a depth of 775 feet in the core of a New Market test; a depth of 773 feet in your well corresponds to a depth of 745 feet in the old Clarinda well.

We should be ready to report on the remainder of the samples which you sent us by tomorrow.

Please excuse this typing job which I did in the absence of our secretary.

Very truly yours,

H. G. Hershey

180
30
775
245
28
525
792
33

Thru Iowa with

Boss Hotels

RANDOLPH
DES MOINES

ELLIS
WATERLOO

WARDEN
FORT DODGE

WHITNEY
ATLANTIC

MEALEY
OELWEIN

ANTHES
FORT MADISON

HOLST
BOONE

BRADFORD
STORM LAKE

NEW WILLSON
WEBSTER CITY

ALGONA
ALGONA

WINNESHEIK
DECORAH

GARDSTON
ESTHERVILLE

ORLEANS
ESTHERVILLE

GEDNEY
INDEPENDENCE

LINDERMAN
CLARINDA

CASTLE
OMAHA, NEB.

LA FAYETTE
ROCKFORD, ILL.

HILTON
BELLOIT, WIS.

Oct 8-4
Clarinda Iowa

Mr. Hershey:

We are drilling
at 920- Sent Samples
yesterday and today.

I expect you should
send me more samples
soons.

Sincerely:

W.D. Smyth

Clarinda

Smythe et al

Corb 1129'
New Market Coal

680' Fragmental(?) =

710'

=

775'

735' coal =

762' coal

745' Worland (?) =

773'

=

838'

Dear Mr. Smythe:

Your letter of October 8 has just been received, and I am glad to hear that you are making such good drilling time.

Under separate cover we are sending you a supply of 200 sample sacks. When you need more please let me know.

Enclosed is a report on the analysis of the water from a depth of 85 feet in your well. The ^{chlorine} sodium and sulphate contents are ~~very~~ high for higher than I would have expected ~~for~~ ⁱⁿ such a water from this depth.

~~It has occurred to me that a somewhat different method of handling the samples may make it easier save time for you.~~

Thank you for your card giving the elevation of your well & the old Clam Day test they will be very helpful to us. Apparently my instrument is ~~out~~ out of adjustment.

85.

IOWA GEOLOGICAL SURVEY
Water Analysis Report

PRELIMINARY

County Taylor Date Sampled Sept. 10, 1940 193

Town New Market (3N, 1W) Sampled by W.O. Smythe for H.G. Hershey

Location of Well NE¹/₄ NE¹/₄ NW ¹/₄ Sec. 18 T. 69 N., R. 35 ^EW.

Dallas Twp.

Owner W. O. Smythe et al Well No. 1 : ^{Drlg.} ~~1~~ 85 ft.

Type of Well Drilled Static Level 12 ft. Curb Elevation 1035.7 ft.

Producing Formation(s) _____ Depth range _____

Remarks on Condition of Well, Casing or Formations _____

Constituents	Parts Per Million	Constituents	Parts Per Million
Total Solids	<u>1664.</u>	Magnesium (Mg)	<u>36 .9</u>
Dissolved Solids	.	Iron(Fe) (unfiltered)	<u>0 .0</u>
		(filtered)	
Insoluble Matter	<u>7.0</u>	Manganese (Mn)	<u>0 .0</u>
pH	<u>8.2</u>	Aluminum (Al)	.
Alkalinity (MeO)	<u>316.</u>	Fluorine (F)	<u>1 .5</u>
Alkalinity (Phn)	<u>0.0</u>	Chlorine (Cl)	<u>120 .0</u>
R ₂ O ₃	<u>2.0</u>	Sulphate (SO ₄)	<u>767 .7</u>
Nitrogen as Ammonia(NH ₄)	.	Bicarbonate (HCO ₃)	<u>385 .5</u>
Nitrogen as Nitrite(NO ₂)	.	Phosphate (PO ₄)	.
Nitrogen as Nitrate(NO ₃)	<u>0.0</u>	Borate (BO ₃)	.
Alkalies as Sodium(Na)	<u>410.3</u>	Calculated Hardness	<u>373 .</u>
Calcium (Ca)	<u>88.6</u>	Hardness Grains per U. S. Gallon	<u>21 .81</u>

Temperature: Water _____ °F. Air _____ °F. Measured at _____

Remarks: Sampled by bailer

Analysis by State Water Analysis Laboratory, Prof. J. J. Hinman, Jr., Director,
Iowa City, Iowa. Lab. No. 152561, Date Oct. 8, 1940, 193 .

Sent to: _____

Date: _____

IOWA GEOLOGICAL SURVEY
Well or Water Sample Data

Bottle No. _____

TOWN New Market (3N, 1W) COUNTY Taylor

LOCATION NE 1/4, NE 1/4 NW 1/4 Sec. 18 T. 6 N. R. 35 W. Dallas Twp. _____

OWNER OF WELL W. O. Smythe, et al Well No. No. 1

USE OF WATER: City Supply (); Private-Domestic (); Public Drinking (); Live-stock (); Industrial (); School Supply (); Air Conditioning (); Cooling ();

CONSTRUCTION OF WELL: Drilled (x); Gravel-Pack type (); Driven (); Dug (); Bored (); Jetted ()

DATE STARTED May 14, 1940

CONTRACTOR _____

DATE FINISHED _____

CASING OR CURBING DATA: (Show by diagram on opposite side of sheet the kind, length and depth of top and bottom of each size of pipe, the amount of overlaps, position of seals or packers, pipe perforation and screens, etc.) 30' of 15" [check dia]

WELL DATA
Curb Elevation 1035.7 Ft. Present Depth 85 Ft. Final Depth _____ Ft.

Ground Elevation 1035 Ft. Topographic Position Small valley

Static Level (Depth to Water ^(Above) Curb) 12' Ft. Pumping Level _____ Ft.

Amount of Drawdown _____ Ft. pumping at _____ g.p.m. in _____ hours _____ minutes.

Calculated gals. per ft. drawdown _____ g.p.m.

Type of Pump _____ Power _____

Depth of Bottom of Pump _____ ft. with _____ ft. of suction pipe.

TEMPERATURE: Air _____ °F.; Water _____ °F., measured after well had pumped _____ hrs. _____ mins. at _____ g.p.m.; _____ ft. from pump after water had passed through the following pipe _____ Time _____ (A.M.) (P.M.)

SOURCE OF WATER: Recent (Type and Depth) _____

Glacial Formations (Type) _____ at _____ ft. to _____ ft.

Limestone or Dolomite (Age) _____ at _____ ft. to _____ ft.

Sandstone (Age) _____ at _____ ft. to _____ ft.

Principal Producing Formation _____

REMARKS Sampled by bauer

Sample taken for: Mineral Analysis (); Sanitary Analysis ().

Data Collected by W. O. Smythe for H. G. Hershey Date Sept. 10, 1940

Report Analysis to H. G. Hershey, Iowa Geological Survey, Iowa City

2

No. 152 561

SD ^p / D

Preliminary?

T.S. 1664 ✓

Ph 8.2 ✓

Alk 316. ✓

Phn 0.0 ✓

Ins 7.6 ✓

R₂O₃ 2.0 ✓

Na 410.3 ✓

Ca 88.6 ✓

Mg 36.9 ✓

Fe 0.0 ✓

Mn 0.0 ✓

Nitrate 0.0 ✓

F 1.5 ✓

Cl 120.0 ✓

SO₄ 767.7 ✓

Bic 385.5 ✓

Hard 373. ✓

KN.

IOWA GEOLOGICAL SURVEY
Water Well Data Sheet

Survey **W-1273**
Number

Town New Market County Taylor T. 69 N., R. 35 W.
Name W. O. Smythe et. al. Location NE 1/4 NE 1/4 1/2 NW 1/2 Sec. 18
Contractor _____ Driller _____ Use _____
Construction Drilled Drilling Dates May. 12, 1940 * Drilling _____
Curb _____ Depth _____
Topog. Valley Elev. 1037 Ref. _____ Total _____
Depth 1010'
Final _____ above _____
Static _____ below Pumping _____ Draw _____ Time _____
Level _____ curb Level _____ down _____ gpm _____ pumped _____ Date _____
Depth to _____ Calc. g/ft. _____ Prin. _____
bot. pump _____ ft. with _____ ft. suction pipe. drawdown _____ Prod. _____
Producing _____
Horizons _____

Water levels and pumping tests on various horizons during drilling:

Depth Range	Stat. Level	Pump Level	Draw down	gpm.	Temp.	Producing horizons	Producing formations	Formations cased out

Additional information *Delay after spudding.

Laboratory Data
Sample range 61-1010 Number samples 181 Number Duplicates 75 Cond. Fair To Good
Log No, Cond. _____ Boxed Summerford Range 61-429 Date Sept. 30, 1940
Summerford Range 429-455 Date Oct. 6, 1940
Summerford Range 455-1010 Date Oct. 1940

Remarks _____

Microscopic _____ Strip _____ Gen. _____ Blue _____ Samples _____
Study Range _____ Log _____ Log _____ Print _____ Washed 61-429
Insol. Res. _____ Strip _____ Gen. _____ Insol. Res. _____ Well _____
Study Range _____ Log _____ Log _____ Prepared _____ Corel. _____

October 5, 1940

Mr. W. O. Smythe
Hotel Linderman
Clarinda, Iowa

Dear Mr. Smythe:

The samples from your well arrived late yesterday afternoon and have now been studied. The formation at 455 feet is correlated as the Bonner Springs shale. A depth of 442 feet in your well appears to be equivalent to a depth of 392 feet in the old Clarinda well. The formation at that point is correlated as the Plattsburg limestone.

Have you located the samples from the upper portion of your well? If so, we would be very glad to have them since they will be important in fitting the top formations into the structure contour map.

Inclosed is the map of the Forest City basin showing contours on the base of the Pennsylvanian which you loaned to me when I was in Clarinda. We have made a photostatic copy of it for our own use. Thank you very much for it.

Very truly yours,

H. W. Hershey

HGH:N

Inc.

1039
442

977

Smythe et al

442' (in Plattsburg ls.) =

Clarinda

392'

bottom at 455' is in the Benner Springs shale

October 3, 1940

Mr. W. O. Smythe
Hotel Linderman
Clarinda, Iowa

Dear Mr. Smythe:

Your card of October 2 reached me today and I am glad to learn that you are drilling again.

We have studied the samples from your well to a depth of 429 feet. According to our present interpretation, the rocks at a depth of 155 feet in your well correspond with those at a depth of 150 feet in the Clarinda well and 359 feet in the L. O. Wise well north-east of Hepburn; those at a depth of 210 feet in your well appear to correspond with those at 425 feet in the Wise well, and those at 407 feet in your well with a depth of 353 feet in the old Clarinda well. All depth figures used are those appearing on the sample sacks.

We will name the formations after a few more samples have been received, but it now appears that your driller is correct in making his calls on the Oread limestones.

^{re-}A study of the Clarinda samples is being made, utilizing all recent data. This work should be completed in the near future and a colored strip log will then be made and sent to you. At the same time a colored strip of your well will be sent so that the two can be compared.

Inclosed is a copy of the Iowa law relating to oil and gas wells which you may wish to examine.

The additional samples mentioned in your card have not yet reached us, but just as soon as they arrive they will be studied and reported.

I hope that drilling continues to move along smoothly and that you have good luck with it.

Very truly yours,

HGH:N

Enc. ✓

H. G. Hershey

W. O. SMYTHE,

Oct 2 - 40

Test

N E, N W, 18 - 69 - 35 Taylor Co., Iowa

DRILLING 470 ft IN Shale
CLARINDA CHAMBER of COMMERCE

LEE FILSON, Pres.

12" casing set at 456 ft.
We did not get the 385 water in the
old well. County engineer elevation on
this well 1035-7. Sending Sample
today. Thanks for your letter
Bill Smythe

1110'

10644

369'

425'

353'

210

402

September 30, 1940

Mr. W. O. Smythe
Hotel Linderman
Clarinda, Iowa

Dear Mr. Smythe:

We are sending under separate cover two one-gallon jugs for use in sampling the waters encountered in your well northeast of Hawleyville. When a sample has been collected, it may be sent to us by express collect.

The data which you requested while I was in Clarinda is being prepared and will be sent to you just as soon as possible.

Very truly yours,

E. C. Hershey

HGH:N

W. O. SMYTHE,

et al

Oct 2-40

Test

N E, N W, 18 - 69 - 35 Taylor Co., Iowa

DRILLING

470 ft IN *Shale*

CLARINDA CHAMBER of COMMERCE

LEE FILSON, Pres.

12" Casing Set at 416 ft.

*Thanks for your Mr. Hershey's
Visit, Sincerely,*

W.O. Smythe

September 23, 1940

Mr. W. O. Smythe
Linderman Hotel
Clarinda, Iowa

Dear Mr. Smythe:

We are very glad to have your letter of September 12 announcing that drilling is about to start on the W. O. Smythe et al Oil and Gas Test in NE NW 18-69-35, Taylor County, Iowa. You may consider that by this letter you have complied with Sec. 3 of Senate File 328, an act relating to oil and gas wells passed by the 48th General Assembly.

As you know, we are much interested in this test and wish to do everything we can to be helpful as the drilling proceeds. Our Dr. H. G. Hershey plans to see you at Clarinda either late on September 26 or early on the 27th, especially in regard to the samples. I shall try to visit the drilling after it is well started.

Very sincerely yours,

A. C. Trowbridge

ACT:N

W. O. SMYTHE,

The 1st 60 ft of samples
have been carried off.

Test

N E, N W, 18 - 69 - 35 Taylor Co., Iowa

DRILLING

820 ft IN Shale.

CLARINDA CHAMBER of COMMERCE

LEE FILSON, Pres.

Our Elev 1035-80 - Old Well Elev - 966-83.
from Page Country Engineers, Sending Samples
Today. Thanks for your Letters.
Sincerely,
W.O. Smythe

Thru Iowa with

Boss Hotels

RANDOLPH
DES MOINES

ELLIS
WATERLOO

WARDEN
FORT DODGE

WHITNEY
ATLANTIC

MEALEY
OELWEIN

ANTHES
FORT MADISON

HOLST
BOONE

BRADFORD
STORM LAKE

NEW WILLSON
WEBSTER CITY

ALGONA
ALGONA

WINNESHEIK
DECORAH

GARDSTON
ESTHERVILLE

ORLEANS
ESTHERVILLE

GEDNEY
INDEPENDENCE

LINDERMAN
CLARINDA

CASTLE
OMAHA, NEB.

LA FAYETTE
ROCKFORD, ILL.

HILTON
BELOIT, WIS.

Sept 12-1940
Clarinda, Iowa.

Mr. A. C. Trowbridge,
Dawa City, Iowa.

Dear Sir:-

We are going to
start drilling a test
well for Gas or Oil
in NE 1/4 of NW 1/4 Sec 18-69N-
35W- Taylor County, Iowa.

We are keeping
samples on the well
and at completion of
same we will have
for you a complete
set of samples together
with the drillers log for
your files.
We will appreciate
any suggestions you

Thru Iowa with

Boss Hotels

RANDOLPH
DES MOINES

ELLIS
WATERLOO

WARDEN
FORT DODGE

WHITNEY
ATLANTIC

MEALEY
OELWEIN

ANTHES
FORT MADISON

HOLST
BOONE

BRADFORD
STORM LAKE

NEW WILLSON
WEBSTER CITY

ALGONA
ALGONA

WINNESHEIK
DECORAH

GARDSTON
ESTHERVILLE

ORLEANS
ESTHERVILLE

GEDNEY
INDEPENDENCE

LINDERMAN
CLARINDA

CASTLE
OMAHA, NEB.

LA FAYETTE

Could give us.
The Well will
be carried as.

W. O. SMYTHE, et al,

Test

N E, N W, 18 - 69 - 35, Taylor Co., Iowa

DRILLING.....IN.....

CLARINDA CHAMBER of COMMERCE
LEE FILSON, Pres.

Sincerely yours
W. O. Smythe,
To Linderman Hotel,
Clarinda, Ia.

J. S. McLAUGHLIN & SONS

PAVING CONTRACTORS

710 WALNUT BLDG.
DES MOINES, IOWA

May 27, 1940

A. C. Trowbridge
State Geologist
Geology Annex
Iowa City, Iowa

Dear Mr. Trowbridge:

Your letter of May 23rd has been called to my attention. As yet I do not have the exact location of the well to be drilled near Hawleyville but it is on the same piece of land as you suggested to me, however the exact location will be given you very soon as I expect to see Mr. Smythe within the next day or two. Mr. Smythe has charge of the well.

I want you to know that we will appreciate having your cooperation and on the other hand we will cooperate fully with you and will make every possible arrangement to suit you for the gathering of information from this well. If you desire us to pick samples and forward to your office, we will do so or if you care to pick them directly through your own representative, it will be satisfactory with us.

As far as you and your office is concerned, there will be no mystery about this well and want you to have full information at all times.

As stated above, I will undertake to get the exact location and will also inform you as to when actual drilling will begin.

Thanking you for your cooperation, I am

Yours truly,


J. S. McLaughlin

EWI:jp

J. S. McLAUGHLIN & SONS

PAVING CONTRACTORS

710 WALNUT BLDG.
DES MOINES, IOWA

May 25, 1940


A. C. Trowbridge
State Geologist
Geology Annex
Iowa City, Iowa

Dear Mr. Trowbridge:

Your letter directed to Mr. McLaughlin has been opened by me in his absence. I have also communicated with Mr. Comfort/^{office} and find that he will be out of town for a few days so in the absence of these gentlemen, I will give you what information I have regarding the well to be drilled near Hollyville, Iowa. The well was spudded in on May 14th I believe. However, it will be several days before any active work is begun on it and by that time either Mr. McLaughlin or Mr. Comfort should be able to give you the definite information which should go to your office.

I know it would interest you to know that Mr. McLaughlin has discovered a fair quantity of oil in his second well in Jefferson County, Kansas, which is in the Forest City Basin. It has not yet been determined what the capacity of this well will be but we do know it will be a worth while venture.

Yours truly,


C. B. Willhoite

GBW:jlp

May 23, 1940

Charles Carter

Mr. D. W. McLaughlin
710 Walnut Building
Des Moines, Iowa

Dear Mr. McLaughlin:

As stated in my letter of May 10 and in earlier correspondence and conversation we are anxious to be of as much use as possible to you during the drilling of your test well near Hawleyville. We are especially anxious not to interfere with this drilling or to slow it up in any way. I feel, however, that I should call your attention to Senate File 328, an act relating to oil and gas wells, passed by the 48th General Assembly and signed by the Governor. The provisions of this act may not be known to you and your attorneys. I wish to call your attention especially to Sec. 3 which provides that the State Geologist should be given five days notice in advance of the commencement of drilling and that the exact location of the well should accompany the notice.

Of course, I have known of your intention to drill and I had the required five days notice by phone so that this is a pure technicality. I suggest, however, that you ask Mr. Comfort, if he is serving as your attorney, to send to me an official notice giving the exact location.

If it meets with your approval, either I or Dr. H. G. Hershey should visit the drilling before it has proceeded very far and arrange, if possible, for the collection of drilling samples. I feel sure that we can be useful if we can have these samples for study as the drilling proceeds. Of course, any information derived from such study would be held strictly confidential until such time as the well is completed and the information is definitely and finally released by you.

Very sincerely yours,

A. C. Trowbridge

ACT:N

May 10, 1940

Charles Carter

Mr. D. W. McLaughlin
McLouth, Kansas

Dear Mr. McLaughlin:

Since talking to you on the phone less than an hour ago I have studied again Mr. Watson's map showing a structure near Hawleyville in Page and Taylor Counties, Iowa and I can report as promised.

If I were drilling a test on this structure as it has been mapped by Mr. Watson I would make the first location at or very close to the center of the SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18, T.69 N., R.35 W. in Taylor County. This is about three-eighths of a mile east of the Page-Taylor County line and about three-quarters of a mile east and an eighth of a mile north of Hawleyville in Page County.

This location is based upon the idea of drilling on the highest part of the structure as mapped and where there is the greatest possible gathering ground. If this structure should be productive it would be better in the first test to drill too high on the structure and get gas than to drill too low and get water.

I am very glad to let you have my preference for a location and know that you will not misunderstand or misquote me.

After this test is started we should be able to be useful in connection with the study of cuttings and the determination of horizons as they are reached by the drill. We might also be able to make a forecast of the hole and check it and modify it as the drilling proceeds. In any case, we wish to be helpful.

Very sincerely yours,

A. C. Trowbridge

ACT:N

February 10, 1940

Mr. Frank J. Comfort
Southern Surety Building
Des Moines, Iowa

Dear Mr. Comfort:

In reply to your letter of February 7:

No word has been received from the Securities Department. In case our advice is asked on this matter we shall, of course, be forced to give it as we see it.

As I believe you know, we have never been optimistic about the discovery of oil and gas in commercial quantities in Iowa. The results of recent exploratory work including drilling in Missouri do not improve the situation. All of the drillings so far completed in Missouri are dry holes. At least some of these were located on structures that seemed to be favorable. In these drillings the producing sands in the Illinois basin were either found to be missing or at least to contain no oil or gas in commercial quantities.

The Phillips test south of Creston is a critical one for Iowa. When it is finished and the results are known, we will have a somewhat better basis for judgment concerning the advisability of further investments of this sort. If a discovery well is brought in, certainly other good looking structures should be tested. If, on the other hand, this is a dry hole, I doubt if we could advise the Securities Department to permit the public financing of another test.

Certainly the Iowa Geological Survey cannot concur in the opinion of Mr. Smythe and Mr. McLaughlin that "They cannot fail in getting some kind of a well." Taking into consideration the present record of the Forest City basin, I should say the chances are not nearly so good as this.

We are still vitally interested in the thorough testing of the Iowa portion of the Forest City basin but still believe that the work should be financed largely or completely by well established, well financed, and experienced oil companies who know exactly how to proceed, and realize the risks they are running.

Very sincerely yours,

ACT:N

A. C. Trowbridge

LAW OFFICES

COMFORT, COMFORT & IRISH

SOUTHERN SURETY BUILDING

DES MOINES, IOWA

FRANK J. COMFORT
GEORGE P. COMFORT
JAMES P. IRISH
BERRY O. BURT

February 7, 1940

Mr. A. C. Trowbridge
Iowa Geological Survey
Iowa City, Iowa

Dear Mr. Trowbridge:

Mr. William Smythe of Oklahoma City and Mr. Dan McLaughlin of this city are contemplating drilling an oil well near Hawleyville on that acreage which they have leased in both Page and Taylor counties. They also contemplate the filing of an application asking for authority to do some public financing. They expect to raise \$25,000, only \$20,000 of which will be used in the event they fail to get oil in commercial quantities within three thousand feet. The money which they raise will be held by someone in Des Moines until the well has been completed to thirty-one hundred feet, or until they reach a sand which will produce in commercial quantities.

We discussed the matter with the Securities Department yesterday. Mr. Fisher is away on a winter vacation. He usually goes to Arizona during the cold weather each year because of his health. The Department may take this matter up with you because we told them that you had made some check of this territory.

Both Mr. Smythe and Mr. McLaughlin are of the opinion that they cannot fail in getting some kind of a well. Since talking with you in my office last fall, Mr. McLaughlin produced a gas well in in northeastern Kansas, in what they call the Forest City Basin. This well will produce close to ten million feet per day. I talked with Mr. McLaughlin last night over the telephone. He seems to think that there is a strong possibility that they might get oil in this same well, but has decided to abandon the thought of getting any oil in this particular well in view of the fact they have such good production in gas. He does, however, contemplate drilling another well promptly near his present gas well, with the thought in mind of trying to produce an oil well.

I am just dropping you this note because while I know it is impossible for you to urge any speculation, at the same time I know that you are interested in the idea that some day we may produce oil in this state.

Very truly yours,

Frank J. Comfort

FJC:MG

November 8, 1939

Mr. Frank J. Comfort
1107 So. Surety Bldg.
Des Moines, Iowa

Dear Mr. Comfort:

I am sorry not to have returned Mr. Watson's letter earlier in the week. When I returned to the office on Monday I found myself swamped with work that had piled up during my absence and today is the first opportunity I have had to have a copy of this letter made.

Please let me assure you and Mr. McLaughlin that we are anxious to cooperate with you in any bona fide attempt to find oil in commercial quantities in this state. When I have had a little more opportunity to study the situation and when Dr. H. G. Hershey, Assistant State Geologist returns from some field work in north-western Iowa I will write you again in regard to the map. I hope we can spend a few days in the field in an attempt to check the map. There is really little doubt, however, that Mr. Watson has done a good job of it, and that the structure is at least somewhat as shown on the map.

You may expect to hear from me again next week.

Very sincerely yours,

A. C. Trowbridge

ACT:N

Inc.

J. D. WATSON

Geologist

1610 S. Norfolk
Tulsa, Oklahoma

November 2, 1939

Mr. W. O. Smythe
Oklahoma City, OklahomaRe: Hawleyville Anticline
Page & Taylor Counties,
Iowa .

Dear Mr. Smythe:

I read with interest the copy of the letter from Mr. A. C. Trowbridge to Mr. D. W. McLaughlin, dated October 26, 1939. The points brought up by Mr. Trowbridge are well taken and should be given careful consideration.

My map was made as the result of field work done in January 1924. I examined the country south of Clarinda, where the "Clarinda Well" was drilled a few years later, in the Southeast Quarter of the Southeast Quarter of Section 24, Township 68 North, Range 37 West. I reported adversely on this area because it appeared to be too far to the west of the anticlinal axis and also probably in a saddle between the fold at Braddyville to the south and the one I noticed to the northeast which I then worked. Since no topographic sheets are available, plane table elevations were run as control and all the known exposures were examined. Local residents were questioned over the entire area especially in reference to coal deposits and the data revealed by their water wells. I went down in several mine shafts and noted the local dips. The depths of the shafts were obtained from the operators. The results indicated an anticlinal fold as shown on my map.

Last winter I drove over to Iowa City with the intention of discussing this structure with Mr. Trowbridge in order to get his opinion on it and also to see if the State Survey had any information which might throw additional light on this fold. Due to delays caused by the weather, I was unable to discuss this with him but did secure all the available publications of the survey.

The description of the Nodaway coal as given in the publications conform very closely to the section as I found it, so I do not think there is likely to be any mistake in its correlation. The coal mined at New Market, at Clarinda and at Henshaw, are all identified as the Nodaway in the Survey reports and from its position in reference to certain fossils, this correlation appears to be correct. The only correlation which might be doubtful is that of the limestones at and north of Hawleyville. On page 624 of the 19th Annual Report, the latter is identified as the Braddyville, which appears to be correct. Both of these exposures indicate westward dip in general and any small change of correlation would not eliminate the presence of the fold, although it would make some changes in the shape near Hawleyville.

Mr. W. O. Smythe
Oklahoma City, Oklahoma
November 2, 1939

2

On the same page mentioned above, is the statement "The direction of this anticline is east of north and follows the course of the East Nodaway river. Exposures of the Braddyville limestone are found one mile north of Hawleyville and at Henshaw, where a dip of thirty-five feet in a quarter of a mile brings the Nodaway coal at the same level as the limestone. This anticline is often spoken of as the Hawleyville anticline." On page 626 it says: "The dip at Clarinda is on the west limb of the Hawleyville anticline and is very heavy to the west, amounting to sixty-five feet in two miles west of the Nodaway river."

I have talked with several geologists working for major companies on the Forrest City Basin play last winter, in regard to this area. They seemed to approve of it but were not able to persuade their executives to do any drilling in southwestern Iowa. However, you are better qualified to answer this point than I am.

At the north end the axis is rather definite, with steep west dip and also some north dip and some east dip. In 1924 the axis exposure was much better than it was last winter but it can still be observed. At New Market the dip in general is steep to the west. The elevation of 1010 feet on the Nodaway coal to which Mr. Trowbridge refers, is probably on one of the new mines near the center of the southwest of section 33. I have practically the same figure in that locality.

As to the matter of contouring this area, the control is meagre and each must contour the given data in the light of his own experience. There is no control directly to the east of Hawleyville, so it would be possible to contour the area as open to the east, but in view of the steep west or northwest dip at New Market, and the indications of an anticlinal axis at the north end, it seems to me that the logical way to contour this fold would be as an anticline; the dashed lines on the map indicating that it could be contoured in other ways.

I hope it will be possible for you to have Mr. Trowbridge look over this area in person. His opinion would be valuable and his high standing in his profession would carry considerable weight with any parties you wish to interest in your acreage.

Very truly yours,

(Signed) J. D. Watson

J. D. Watson

JDW:Hps

J. S. McLAUGHLIN & SONS

PAVING CONTRACTORS

710 WALNUT BLDG.
DES MOINES, IOWA

Oct 28-1939

Mr. A. C. Trombridge
Iowa City, Ia.

Dear Sir

I want to thank you for your letter

I am drilling a well in Kansas and expect to start one in Missouri and may be away. If I am not here I wish you would get in touch with Frank Comfort, and tell him what you think. I am interested in seeing a well drilled in a good looking spot some where in south west. Ia. and would help on it if it was done right. I started to block up some acreage north of Lamoni. I put the U.S. G.S. elevation in on it. but haven't run it out. there is quite a lot of out crop there and from what checking we did looks like some east dip in there, the parties that have this block in page Co were up here looking for help on it and I sent them to Mr Comfort their map looks rather to good but might be O.K. and if it is and they want to drill it on a no free ride basis I will help on it, where I am drilling in eastern Kansas in Jefferson Co. at the town of Mt Youth we are down about one thousand feet there has been several well drilled from 7 to 25 miles north and south of us, we think we

J. S. McLAUGHLIN & SONS

PAVING CONTRACTORS

710 WALNUT BLDG.

DES MOINES, IOWA

are on a good big structure and spent enough money to
run it out and get the acreage our formations are
running from 225 to 300 hundred feet higher than
the other wells did allowing for difference in elevation
we should pick up some oil that high but there
might not be any oil in that country if ours
carry that high down and they should get higher
with depth and we don't get some oil. I would
not think so much of the Forest City Basin
we are drilling a well or hope to be started soon about
3 miles south and ^{1/2} mile east of Hurstland. Mo. they have
had several pretty good shows in that territory but
that country is quite a guess no out crop and as
they are shallows we can drill the well cheaper than
drilling a bunch of holes to the same to find a
high, I will write you later and if here well
be glad to talk to you, I am interested in Iowa
and would be glad to help on a well in Iowa if
I thought it had a chance. but I suppose if I get
a dry hole in Kansas, we will have our dry hole money
pretty well spent I remain
Very Truly
J. S. McLaughlin

To HGH

*Hold for reply then file
SW - to be done*

April 27, 1940

file - general

Mr. John Fryer } *Engineer, was associated*
Hotel Lindeman } *with Mr. Mo. Smythe.*
Clarinda, Iowa }

Dear Mr. Fryer:

In reply to yours of April 25 I am sending to you under separate cover "Deep Wells in Iowa, 1928-32," and "Additional Deep Wells".

You will find information concerning Wilson No. 1 oil prospect near Clarinda on pages 398 to 419. These pages contain all of the information we had concerning this well at the date of publication of Volume 36. Dr. H. G. Hershey who is in direct charge of such work as this for the Iowa Geological Survey is out of town at present. If he has additional material on this well he will write you concerning it next week.

If I am not mistaken, it is not possible to recognize the Bartlesville sand in this drilling. The "Mississippi lime" is designated in our record on page 402 as "Meramec and Osage". The Hunton is our Devonian, see page 403. The St. Peter is recorded on page 406. The Viola is our Galena as recorded on page 405.

We are anxious to be of use to you and I hope you will write me again if we can be of further service.

Very sincerely yours,

A. C. Trowbridge

ACT:H

Thru Iowa with

April 25th 1940

Boss Hotels

RANDOLPH
DES MOINES

ELLIS
WATERLOO

WARDEN
FORT DODGE

WHITNEY
ATLANTIC

MEALEY
OELWEIN

ANTHES
FORT MADISON

HOLST
BOONE

BRADFORD
STORM LAKE

NEW WILLSON
WEBSTER CITY

ALGONA
ALGONA

WINNESHEIK
DECORAH

GARDSTON
ESTHERVILLE

ORLEANS
ESTHERVILLE

GEDNEY
INDEPENDENCE

LINDERMAN
CLARINDA

CASTLE
OMAHA, NEB.

LA FAYETTE
ROCKFORD, ILL.

HILTON
BELOIT, WIS.

Please refer to your letter of
Oct. 26th 1939 to Mr. Dan W.
McLaughlin - Des Moines regarding
structure Northwest Clarinda -

Mr. McLaughlin may drill a
test well on this block - He
has asked that I write and
request you to have your
office mail me the shows of
water - oil - gas encountered
in the well drilled some ten
years ago 3 miles south of
Clarinda

Wilson #1, SE 1/4, SE 1/4 Sec 24
Twp 68N; Rge 37W - Page Co Iowa.

We understand the survey ran
samples on this test - to identify
formations etc. We are interested -
Cartersville sand - Miss Lume - Hamilton -
St. Peters - Viola etc with any
shows that were revealed -

Thanking for your courtesy -

John Fryer

W. O. Smythe et. al. No. 2 Hooks
NE, NW, Sec. 18, T69N, R35W,
El. = 1038

Ohio

Lansing	645 ?
B. K. C.	645 ?
Miss	1495