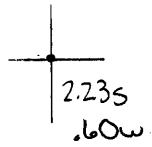


40°35'00"

Latitude

80°37'30"

Longitude



Topo Location

7.5' Loc. _____ 15' Loc. _____
 (calc.) _____

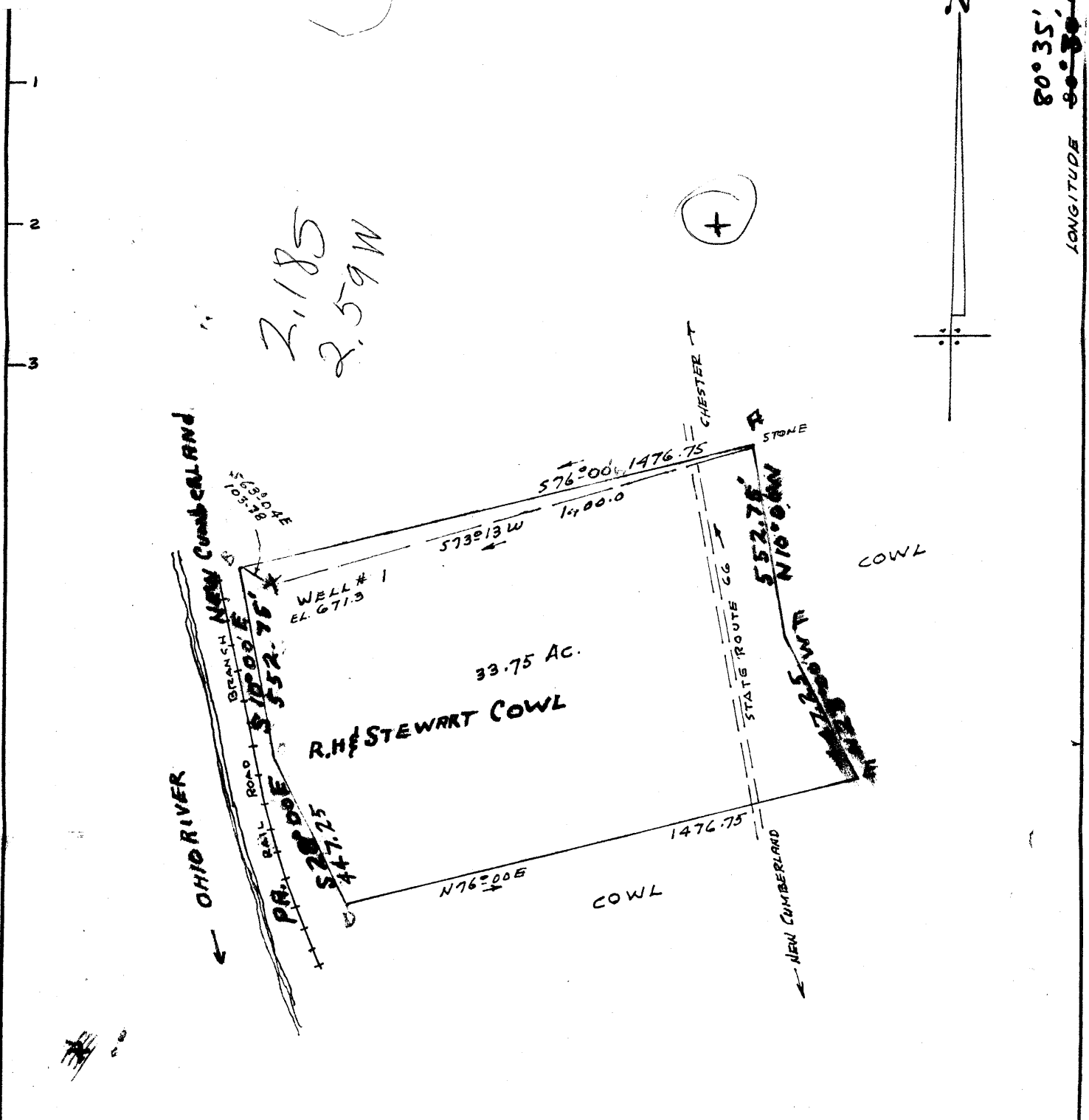
Company R H + Stewart Corp
 Farm RH Corp + Stewart Corp #1
 15' Quad _____
 (sec.)
 7.5' Quad Wellsville
 District Clay

WELL LOCATION PLAT

County 029 Permit 82

~~40° 40' 00"~~ LATITUDE
40° 35'

80° 35'
LONGITUDE



MINIMUM ERROR OF CLOSURE 1/5000
SOURCE OF ELEVATION R-21 EL. 673.053

COAST & GEODETIC SURVEY BENCH MARK # 21 ELEV 673.053

NEW LOCATION
DRILL OPER
ABANDONMENT

I, THE UNDERSIGNED HEREBY CERTIFY THAT THIS MAP IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY PARAGRAPH 6 OF THE RULES AND REGULATIONS OF THE OIL AND GAS SECTION OF THE MINING LAWS OF WEST VIRGINIA

COMPANY R. H. & Stewart Cowl
 ADDRESS R. D #1 BOX 66 CHESTER W. VA.
 FARM R. H. COWL AND STEWART COWL
 TRACT 1 ACRES 33.75 LEASE NO. _____
 WELL FARM NO I SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 673.0
 QUADRANGLE WELLSVILLE SC
 COUNTY HANCOCK DISTRICT CLAY
 ENGINEER J. L. Donovan
 ENGINEER'S REGISTRATION NO 570
 FILE NO. _____ DRAWING NO. _____
 DATE Nov. 29, 1967 SCALE 1" = 400'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. HAN-82

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 : 62,500 LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

— DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well *dry with gas show*
(KIND)

WELL RECORD

Quadrangle

Permit No. MAN-32

Company R.H. Cowl & Stewart Cowl
Address R.D. 2 New Cumberland, W. Va.
Farm Cowl Acres 33.75
Location (waters) Ohio River
Well No. 1 Elev. 673 ft.
District Clay County ancock
The surface of tract is owned in fee by R. Cowl and Stewart Cowl Address R.D. 2 New Cumberland
Mineral rights are owned by Same Address

Drilling commenced March 11, 1968
Drilling completed April 1, 1968
Date Shot 4/3/68 From 629 ft. To 634 ft.
With 100 # jetton
Open Flow 10,000 /10ths Water in Inch
10,000 /10ths Merc. in Inch
Volume after shot 15, ~~50~~ MCF Cu. Ft.
Rock Pressure 225 lbs. 24 hrs.
Oil none bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS)

WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

ROCK PRESSURE AFTER TREATMENT

Fresh Water 25 through 70 Feet
Producing Sand at Berea Depth 621-643

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			look wall
13			Size of <u>6" X 4"</u>
10 drive pipe	71	71	Depth set
8 1/4 pipe	363	363	
6 1/2			
5 3/16			
4 1/2	428	428	Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Attach copy of cementing record.

CASING CEMENTED SIZE No. Ft. Date

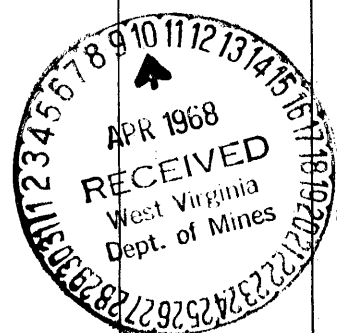
Amount of cement used (bags)

Name of Service Co.

COAL WAS ENCOUNTERED AT FEET INCHES
..... FEET INCHES
..... FEET INCHES

Show of coal 112 - 114

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & gravel			0	71			
large gravel			58	71			
shale	gray	soft	71	90			
shale	dark gray		90	120			
show of coal	112 - 114						
shale	light gray	hard shells	120	160			
shale	dark gray	soft	160	170			some shells hard
shale	m. gray	m. hard	170	210			
shale	dark gray		210	220			
shale	l. gray		210	250			streaks of white sand
shale	d. gray	m. hard	250	280			streaks of gray sand
shale	d. gray m.	hard	280	312			
shale	l. gray	m. hard	312	330			
shale & shells	d. gray m. hard	m. hard	330	343			
salt water	at 343 hole	filled to 90 ft. to top					
lime	d. gray	hard	348	358			
sand	white	hard	358	363			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
shale	gray	m. hard	363	368			
sand	white	m. hard	368	380			
shale	gray	m. hard	380	395			
	395 salt water	and a show of gas					
lime	shell	hard	395	400			
shale & sand	gray	m. hard	400	460			
shale, lime shells	gray	m. hard	460	530			
sand	gray	m. hard	530	570			
shale, shells	gray	m. hard	570	590			
shale	dark gray						
shale	almost black	m. hard	590	618			
shale	l. gray	m. hard	618	621			
<u>Free sand</u>		hard	621	643			
<p>Got gas at 632 ft. 10,000 e.ft. Shot with 100# jeton Increased to 15,000 Rock after 2 hrs. 225 lbs.</p> <p>Surface string cemented 8 in. Aquajel around 611 6 in. and 4 in.</p>							

Date 4/3/68

19

APPROVED _____

Owner

By _____

(Title)