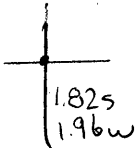


40°35'00"

Latitude

80°35'00"

Longitude



(2.00 W - 116)
 SO doesn't plot
 in Tomlinson Run St. Plc
 12/1/2005

Topo Location

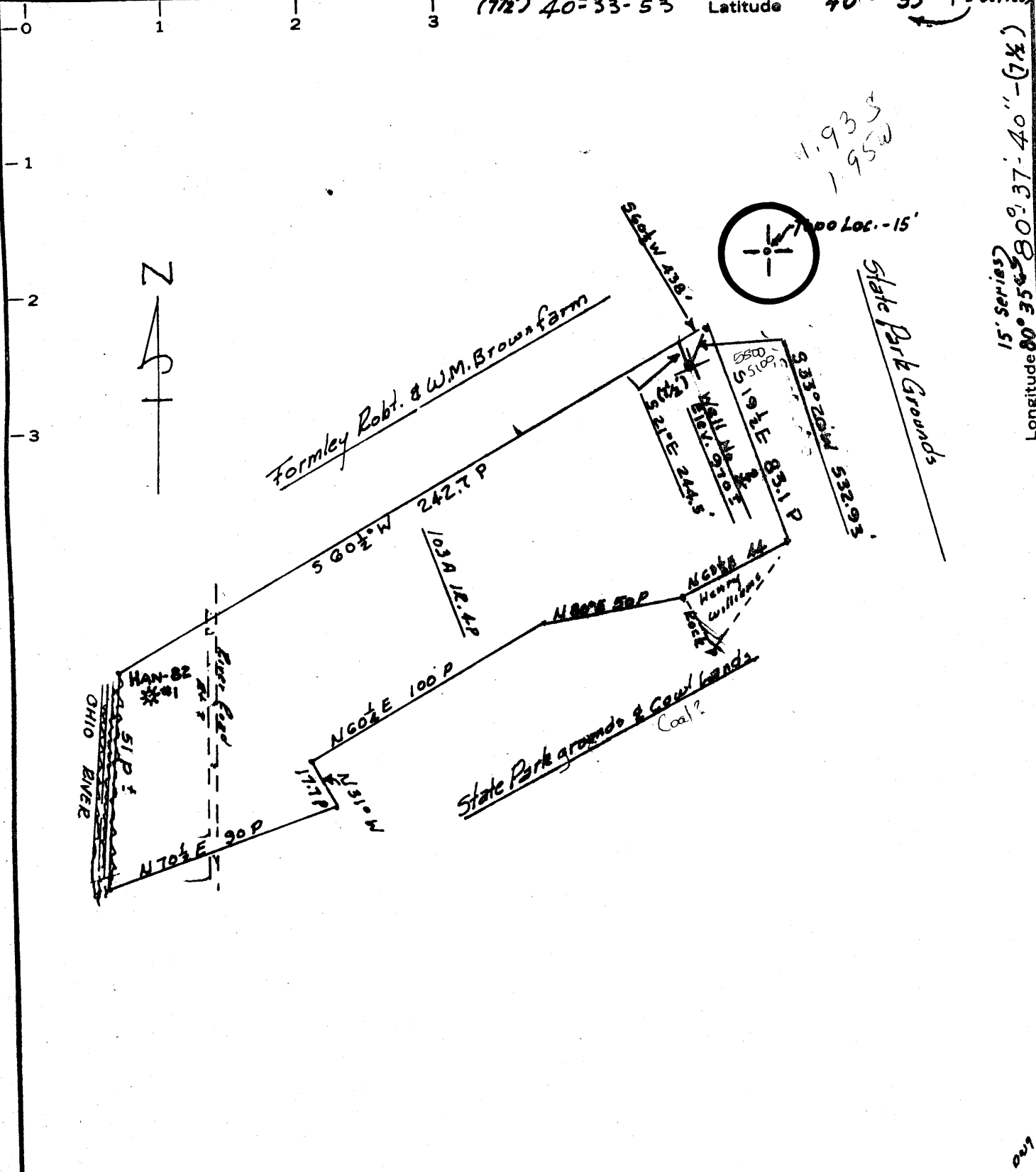
7.5' Loc. _____ 15' Loc. _____
 _____ (calc.) _____

Company RH + Stewart Corp
 Farm George B + Mary Watson #2
 15' Quad _____
 (sec.)
 7.5' Quad East Liverpool South
 District Grant

WELL LOCATION PLAT

County 029 Permit 85

(7/2) 40° 33' 53" Latitude 40° 35' (15 Series)



15' Series
Longitude 80° 35' 37" - 40" - (7K)

MINIMUM ERROR OF CLOSURE 1/760

SOURCE OF ELEVATION Coast & Geodetic Survey Bench Mark No 21 - Elev 673.053

New Location
 Drill Deeper
 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 P.H. & Stewart Cowl, West Va.
 Address Rt. 2, New Cumberland, West Va.
 Farm George B. & Mary Watson
 Tract 2 Acres 103A-184P Lease No. _____
 Well (Farm) No. 12 Serial No. _____
 Elevation (Spirit Level) 970.00'
 Quadrangle Wellsville SC
 County Hancock District Grant
 Surveyor Engineer Carlton T. Tucker
 Surveyor Engineers Registration No. 140
 File No. _____ Drawing No. _____
 Date Nov 30, 1972 Scale 1" = 800'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Han-85

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



RECEIVED

FEB 28 1973

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
 OIL AND GAS DIVISION /
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

- Spudder
- Cable Tools
- Storage
- Oil & Gas
- Oil or Gas Well Comb (KIND)

Quadrangle Wellsville
 Permit No. Hew 85

Company Cowl Brothers
 Address New Cumberland, W. Va.
 Farm Watkins Salt Acres 3.5
 Location (waters) White Oak Run
 Well No. 1 Elev. 970
 District Grant County Hancock
 The surface of tract is owned in fee by Watkins Salt
New York Address New York
 Mineral rights are owned by Cowl Brothers
New Cumberland Address W. Va.
 Drilling commenced Dec 23, 1972
 Drilling completed Feb 6, 1973
 Date Shot Feb 3, 1973 From 841 To 847
 With Jetton

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			
8 3/4	14'	14'	Depth set
6 3/4	131'	131'	
5 3/16	582'	582'	
4 1/2			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Open Flow 1/10ths Water in _____ Inch
 _____ 1/10ths Merc. in _____ Inch
 Volume 50,000 Cu. Ft.
 Rock Pressure 70 lbs. 24 hrs.
 Oil 1 bbl. bbls., 1st 24 hrs.
 WELL ACIDIZED (DETAILS) _____
 WELL FRACTURED (DETAILS) _____

Attach copy of cementing record.
 CASING CEMENTED 6 5/8" SIZE 131' No. Ft. Jan 19, 73 Date
 Amount of cement used (bags) 21
 Name of Service Co. Self Cemented
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 50 Mcf ; 1 BOPD
 ROCK PRESSURE AFTER TREATMENT _____ HOURS
 Fresh Water 40' and 60' Feet Salt Water 530' Feet
 Producing Sand Area Depth 832' - 860'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale	Gray	Soft	0	35			
Blue Rock	Blue	Hard	35	50	water 40'	40'	Fresh
l. Shale	Gray	Soft	50	60	water	60'	Fresh
sandstone	Brown	Hard	60	100			
lime	Brown	Hard	100	110			
Dark Shale	Gray	M. Hard	110	155			
Sand	white	Hard	155	192			Salt Sand
Dark Shale	Gray	M. Hard	192	210			
Shale	l. Gray	Soft	210	230			
Rock	Blue	Hard	230	240			
Shale	l. Gray	M. Hard	240	270			
Shale	Dark & light	M. Hard	270	380			Lime Shells
Shale	l. Gray	M. Hard	380	420			
Shale	Black	M. Hard	420	460			

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale	v. Gray	M. Hard	460	495			
Shale	D. Gray	M. Hard	495	530			Silt water
Lime	Black	Lime	530	537			
Sand	White	Hard	537	567			Big Insects
Sand	D. Gray	Hard	567	620			Streaks of Sal
shale	Gray	Hard	620	650			
Lime	Brown	Hard	650	665			
Sh. s.	D. Gray	M. Hard	665	675			
Shale	v. Gray	Hard	675	790			Lime Shale
Sand	Gray	Hard	790	796			
Slate	Black	M. Hard	796	832			
<u>Sand</u>	White	Hard	832	860			<u>Break Sand</u>

Date February 23, 1975

APPROVED Carl Brock, Owner

By H. H. Carl. Partner
(Title)



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DEC 8 1972

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE December 8, 1972

Surface Owner Watkins Salt Co.
Address Fingerlakes, N. Y.

Company Cowl Brothers (R. H. & Stewart)
Address R.D. # 2, New Cumberland, W. Va.

Mineral Owner Cowl Brothers
Address New Cumberland, WV.

Farm George B. & Mary Watson Acres 35 of 103 Unit
Location (waters) Ohio River Tomlinson Run

Coal Owner _____
Address _____

Well No. 2 Elevation 970'
District Grant Clay County Hancock

Coal Operator None
Address _____

Quadrangle Wellsville

INSPECTOR TO BE NOTIFIED Mr. Arthur Pull
Box 296 PH: 775-5611
Hundred
W.Va. 26575

THIS PERMIT MUST BE POSTED AT THE WELL SITE
All provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 4/8/73.

Robert L. Fodd
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated September 5 1972 by Linn Troop, Exec. Mary Watson Est. made to R. H. & Stewart Cowl and recorded on the 17th day of September 1962 in Hancock County, Book 6 Page 258

NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours By: R. H. Cowl
(Sign Name) Cowl Brothers
Well Operator

Address _____
of _____
Well Operator _____
_____ Street
_____ City or Town
_____ State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

CASH DEPOSIT
HELD BY TREASURER

Jan-85

PERMIT NUMBER

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE STIMULATE

DRILLING CONTRACTOR (If Known) RESPONSIBLE AGENT

NAME Smith Drilling Co., Inc. NAME R. H. Cowf

ADDRESS Chester, WV. ADDRESS New Cumberland, WV. RD. # 2

TELEPHONE 387-0127 TELEPHONE 387-1853

ESTIMATED DEPTH OF COMPLETED WELL: 800' ROTARY CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: B. Grit

TYPE OF WELL: OIL GAS COMB. STORAGE DISPOSAL

RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7	Top to Bottom		125'
5 1/2		500'	
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100' FEET SALT WATER FEET

APPROXIMATE COAL DEPTHS None

IS COAL BEING MINED IN THE AREA? No. BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title