

Abandonment - 5/30/94

- NEW LOCATION
- RECONDITION
- DRILL DEEPER

CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200

Signed *[Signature]* U.S. #325

~~SNAPSON OIL CO., INC.~~

COMPANY ~~SNAPSON OIL CO., INC.~~

ADDRESS ~~SNAPSON VALLEY OIL CO., OHAS WYO.~~

FARM **GEORGE L. ESTES & MARY Z. CROUCH**

MAP ~~2414~~ **2414** LEASE NO. _____

WELL (FARM) NO. **N-6** SERIAL NO. _____

ELEVATION (SPRIT LEVEL) **714.3**

QUADRANGLE **ST. ALBANS, N.W.** 1-11

COUNTY **PUTNAM** DISTRICT **TEAYS VALLEY**

POINT OF PROVEN ELEVATION **U.S.G.S. ELEV. APPROXIMATELY 1/4 MILE NORTH EL 748**

FILE NO. _____ DRAWING NO. _____

DATE **AUGUST 10, 1972** SCALE **1" = 500'**

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

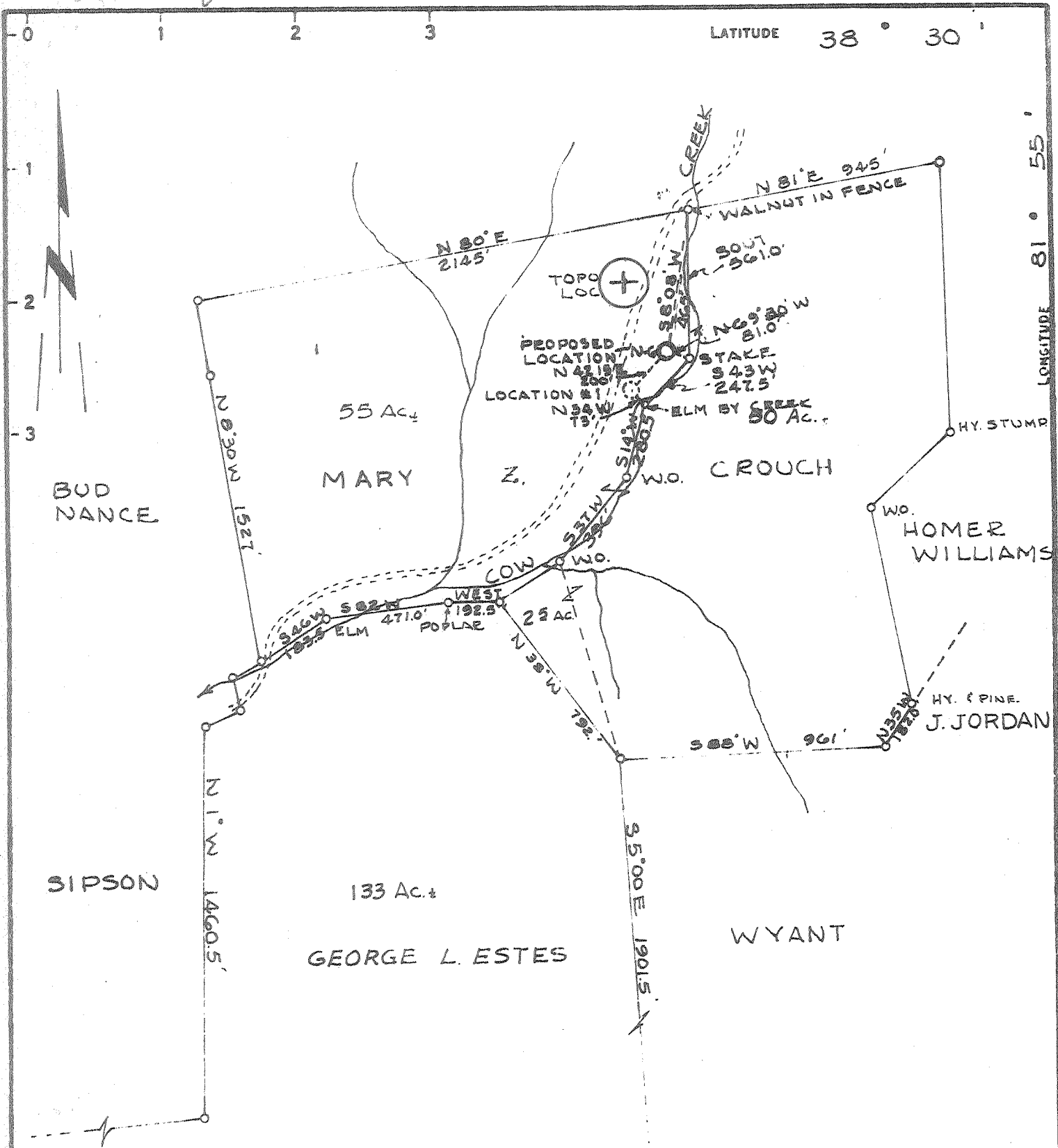
WELL LOCATION MAP

FILE No. **PUT-772-X-P**

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

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING

Deep Well JUN 24 1974



CERTIFICATE

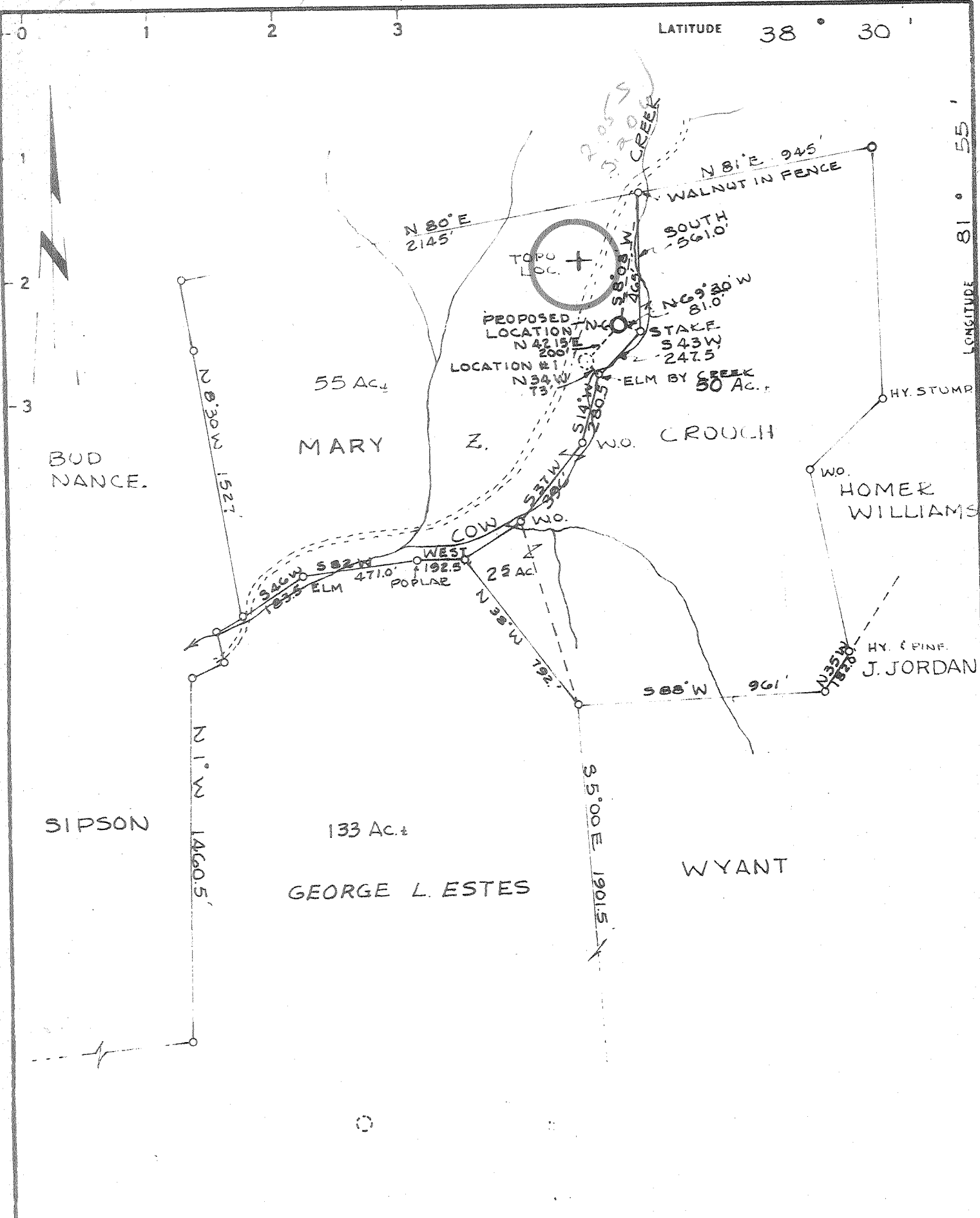
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 Minimum degree of accuracy is one part in 200

Signed *P. D. Terry* L.S.#325

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT - 2-6-74

COMPANY	NEDCO INC.		
ADDRESS	1901 KANAWHA VALLEY BLDG. CHAS. WVA		
FARM	GEORGE L. ESTES & MARY Z. CROUCH		
MAP	ACRES	2414	LEASE NO.
WELL (FARM) NO.	N-6	SERIAL NO.	
ELEVATION (SPIRIT LEVEL)	714.3		
QUADRANGLE	ST. ALBANS, N.W.		
COUNTY	PUTNAM		
DISTRICT	TEAYS VALLEY		
POINT OF PROVEN ELEVATION	U.S.G.S. ELEV. APPROXIMATELY 1/4 MILE NORTH		
FILE NO.	DRAWING NO.		
DATE	AUGUST 10, 1972		
	SCALE	1" = 500'	

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. PUT-772-P
+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS SCALE 1 TO 62 500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN. - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING



CERTIFICATE

- NEW LOCATION
- RECONDITION
- 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."
 Minimum degree of accuracy to one part in 200

Signed *[Signature]*

COMPANY	NEDCO INC.	
ADDRESS	1901 KANAWHA VALLEY BLDG., CHAS., W.VA.	
FARM	GEORGE L. ESTES & MARY Z. CROUCH	
MAP	ACRES 241±	LEASE NO.
WELL (FARM) NO.	N-6	SERIAL NO.
ELEVATION (SPIRIT LEVEL)	714.3	
QUADRANGLE	ST. ALBANS, NEW 2 1/4 NW	
COUNTY	PUTNAM DISTRICT TEAYS VALLEY	
POINT OF PROVEN ELEVATION	U.S.G.S. ELEV. APPROXIMATELY 1/4 MILE NORTH EL. 748	
FILE NO.	DRAWING NO.	
DATE	AUGUST 10, 1972 SCALE 1" = 500'	

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. PUT-772

→ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS SCALE 1 TO 62 500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
 -- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING

6-6 Red House (191)

SEP 8 1972



RECEIVED

MAR 16 1973

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 9

Rotary Oil *Show*
Cable _____ Gas *NO LI.*
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle St. Albans

Permit No. PUT 772

Company <u>NEDCO, INC.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>1901 Kanawha Valley Building, Chas.</u>				
Farm <u>Mary Z. Crouch</u> Acres <u>241.</u>				
Location (waters) <u>Cow Creek</u>				
Well No. <u>N-6</u> Elev. <u>714.3</u>	Size <u>20-16</u>			
District <u>Teays Valley</u> County <u>Putnam</u>	Cond. <u>13-10" 10 3/4</u>	<u>169</u>	<u>169</u>	<u>50 bags</u>
The surface of tract is owned in fee by <u>Mary Z. Crouch and George L. Bates</u>	<u>9 5/8</u>			
Address <u>Rt. 1 Hurricane, WV 25526</u>	<u>8 5/8</u>			
Mineral rights are owned by _____	<u>7</u>	<u>1915</u>	<u>1915</u>	<u>100 bags</u>
Address _____	<u>5 1/2</u>			<u>Cementing by Well Service, Inc</u>
Drilling Commenced <u>8/31/72</u>	<u>4 1/2</u>			
Drilling Completed <u>9/21/72</u>	<u>3</u>			
Initial open flow <u>18,000 M</u> cu. ft. <u>0</u> bbls.	<u>2</u>		<u>4437</u>	<u>on packer</u>
Final production _____ cu. ft. per day _____ bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				
Well treatment details:				

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet Salt Water 525 Feet
Producing Sand Oriskany Depth 4384-4392

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	5		
Sand			5	18		
Blue Slate			18	35		
Sand			35	98		
Red Rock			98	146		
Slate			146	200		
Sand			200	204		
Red Rock			204	250		
Slate :			250	352		
Red Rock			352	373		
Slate & Sand			373	1015		
Salt Sand			1135	1287		
Blue Slate			1287	1320		
Salt Sand			1320	1445		
Blue Slate			1445	1495		
Maxton Sand			1495	1579		
Pencil Cave			1579	1581		
Big Lime			1581	1725		
Keener Sand			1725	1735		
Slate			1735	1766		

4295 4385 80
774 714
3581 3671

(over)

* Indicates Electric Log tops in the remarks section.

MAR 29 1973

Formation	Color	Hard or Soft	Top Feet ^g	Bottom Feet	Oil, Gas or Water	* Remarks
Injun Sand			1766	1840		
Slate & Shale			1840	2225		
Brown Shale			2225	2245		
Berea Sand			2248	2275		
Lime & Shale			2275	2340		
Shale			2340	4295		
Coniferous Lime			4295	4385		
Oriskany			4385	4388		
Lime			4388	4450		

Date March 1, 1973

APPROVED V. Kenneth to Smith, Owner

By President
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
AUG 24 1972

Oil and Gas Division
OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

DATE August 7, 1972

Surface Owner Mary Z. Crouch

Company NEDCO Inc.

Address Rt. 1, Hurricane, West Virginia 25526

Address 1901 Kanawha Valley Building, Charleston

Mineral Owner Mary Z. Crouch George L. Estes and

Farm Mary Z. Crouch Acres 108-24/100

Address Rt. 1, Hurricane, West Va. 25526

Location (waters) Cow's Creek

Coal Owner _____

Well No. X 77-6 Elevation 714.3'

Address _____

District Teays Valley County Putnam

Coal Operator _____

Quadrangle St. Albans-15' Scott Depot 7 1/2'

Address _____

INSPECTOR TO BE NOTIFIED

Mr. Kenneth Butcher
Rt. 1, D. #1 PH: 736-4885
Barboursville
W. Va. 25504

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 12/24/72.

Robert H. Fodde
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 March 9 1949 by H. E. and Mary Z. Crouch made to W. Va. Gas Corp. (Commonwealth) and recorded on the 9th day of March 1949, in Putnam County, Book 42 Page 835

X 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,

(Sign Name) J. Hoyle Ryan NEDCO Inc.
Well Operator

Address
of
Well Operator

1901 Kanawha Valley Bldg.
Street
Charleston
City or Town
West Virginia
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.

Put-772 PERMIT NUMBER
Survey

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 _____ NAME NEDCO Inc.
 ADDRESS _____ ADDRESS 1901 Kanawha Valley Bldg. Charleston
 TELEPHONE _____ TELEPHONE 342-2125
 ESTIMATED DEPTH OF COMPLETED WELL: 4500' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 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 16"	25	25'	to surface
13 - 10 11 3/4"	250	250'	150 Cu. Ft.
9 - 5/8			
8 - 5/8			
7 7"	2100 (Below Injun)	2100	200 cu. ft.
5 1/2			
4 1/2			
3 3 1/2"	4500'	4500'	Perf. Top 100 sacks
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER 1000 FEET
 APPROXIMATE COAL DEPTHS N/A
 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