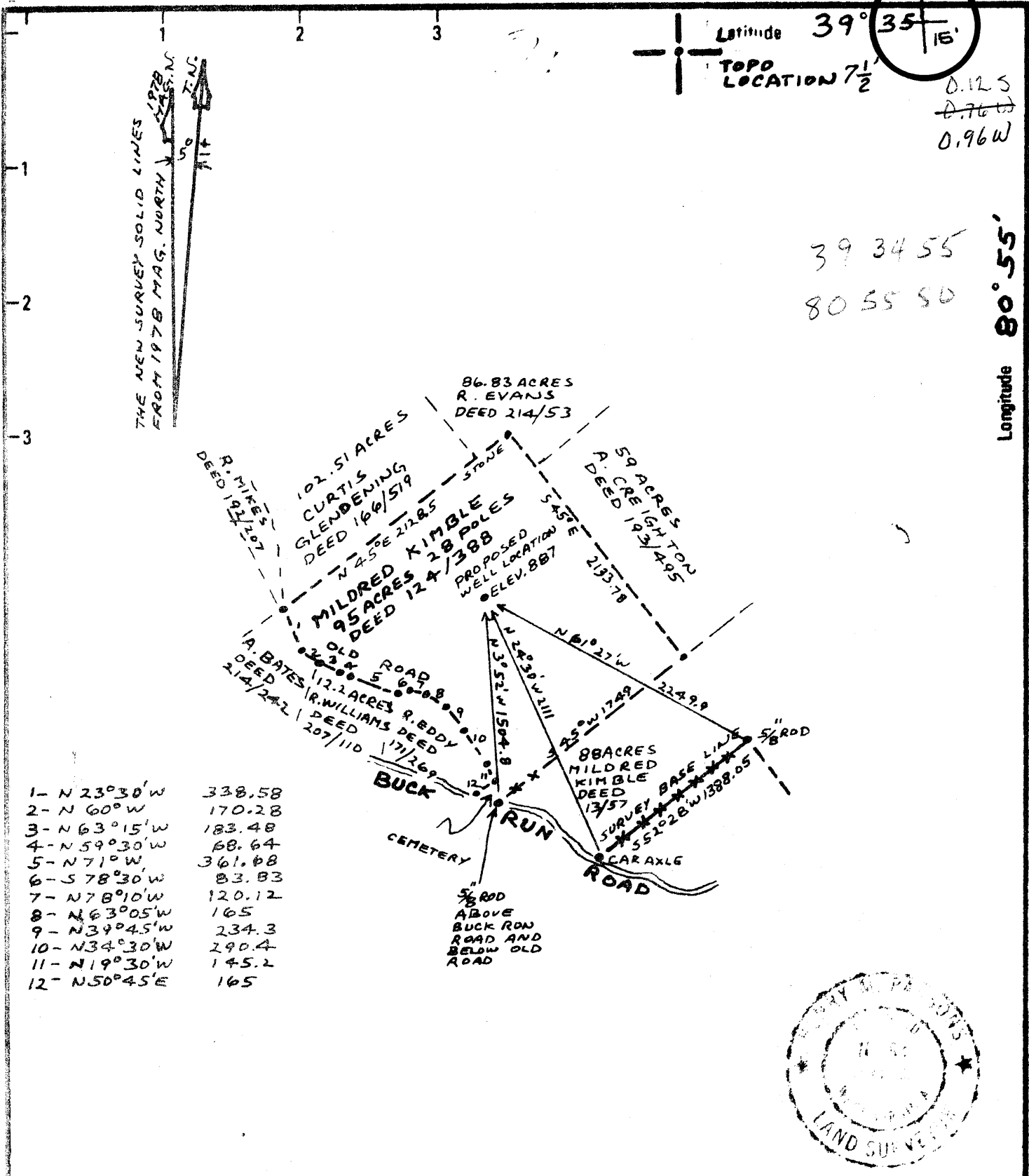


1/31/80



Latitude  $39^{\circ} 35' 15''$   
 TOPO LOCATION  $7\frac{1}{2}$   
 0.125  
~~0.76~~  
 0.96W

39 34 55  
 80 55 50  
 Longitude  $80^{\circ} 55'$

- 1- N 23° 30' W 338.58
- 2- N 60° W 170.28
- 3- N 63° 15' W 183.48
- 4- N 59° 30' W 68.64
- 5- N 71° W 361.68
- 6- S 78° 30' W 83.83
- 7- N 78° 10' W 120.12
- 8- N 63° 05' W 165
- 9- N 34° 45' W 234.3
- 10- N 34° 30' W 290.4
- 11- N 19° 30' W 145.2
- 12- N 50° 45' E 165

Minimum Error of Closure **METHODS USED SHOULD PRODUCE 1 IN 2,500**  
 Source of Elevation **761 AT THE BUCK RUN ROAD AND WILLOW RUN ROAD INTERSECTION ON THE PADEN CITY QUADRANGLE TOPO MAP**  
 "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." *Henry M. Parsons*

New Location   
 Drill   
 Abandonment

Company **THE CARTER-JONES LUMBER COMPANY**  
 INDUSTRIES DIVISION  
 Address **101 FALL BRIDGE RD. MARTINSBURG, W. VA. 26150**

Farm **MILDRED (KIMBLE) TUTTLE**  
 95 ACRE  
 28 POLES

Tract \_\_\_\_\_ Acres \_\_\_\_\_ Lease No. \_\_\_\_\_

Well (Farm) No. **TUTTLE #2** Serial No. \_\_\_\_\_

Elevation (Feet Level) **887**

Quadrangle **PADEN CITY** *NEW MARTINSBURG 15' SW*

County **JEFFERSON** District **LINCOLN**

Surveyor **HENRY M. PARSONS**

Registration No. **98**

File No. **207 527B** Drawing No. \_\_\_\_\_

Date **DEC 11 1979** Scale **1" = 1000'**

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

**WELL LOCATION MAP**  
 FILE NO. **47-095-0779**

+ 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.

Plot Card CSD



14-45  
(Rev. 3-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 11/18/81  
Operator's Tuttle 2  
Well No. Tuttle 2  
Farm Mildred & Dorothy Tuttle  
API No. 47-095-0779

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil xx / Gas xx / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production     / Underground Storage     / Deep     / Shallow     /)

LOCATION: Elevation: 887 Watershed Buck Run  
District: Lincoln County Tyler Quadrangle Paden City

CARTER-JONES LUMBER CO.  
COMPANY GAS AND OIL DIVISION  
ADDRESS 501 Tailmadge Rd.  
Kent, Ohio 44240  
DESIGNATED AGENT Gary L Rymer, Attorney  
ADDRESS P O Box 236, Middlebourne WV  
SURFACE OWNER Mildred & Dorothy Tuttle  
ADDRESS Sistersville WV  
MINERAL RIGHTS OWNER same  
ADDRESS      
OIL AND GAS INSPECTOR FOR THIS WORK      
Phil Tracey ADDRESS Alma WV  
PERMIT ISSUED 01/29/80  
DRILLING COMMENCED 03/30/80  
DRILLING COMPLETED 04/03/80  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON    

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8			
8 5/8	1001	1001	350sxs
7			
5 1/2			
4 1/2	3412	3412	355sxs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5400 feet  
Depth of completed well 5012 feet Rotary xx / Cable Tools      
Water strata depth: Fresh     feet; Salt     feet  
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA  
Producing formation Warren & 5th Sand Pay zone depth 3232-3280  
2654-2694 feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow (375) Mcf/d Final open flow trace Bbl/d  
Time of open flow between initial and final tests     hours

Surface pressure 150 psig (surface measurement) after     hours shut in  
     
   

JUL 12 1982

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

14 perfs @ 3268-3233 (Warren)  
 10 perfs @ 2690-2666 (5th sand )  
 21 perfs @ 2166-2084 (Weir)  
 9 perfs @ 1566-1550 (Maxton)

frac Warren w/400 sxs sand & 560 bbl fluid  
 frac 5th sand w/500 sxs sand 7 530 bbl fluid  
 frac Weir w/500 sxs sand & 530 bbl fluid  
 frac Maxton w/150 sxs sand & 300 bbl fluid

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
sand & shale			0	1002	no logs, no samples
sand			1002	1023	
coal			1023	1027	
shale			1027	1059	
sand			1059	1167	
shale			1167	1188	
sand			1188	1280	
shale			1280	1308	
sand			1308	1370	
shale			1370	1391	
sand w/shale breaks			1391	1493	
shale			1493	1552	
sand			1552	1572	SG
shale			1572	1586	
sand			1586	1689	
shale			1689	1700	
Big Injun sand			1700	1868	
shale			1868	2082	
Weir sand			2082	2169	SG & O
shale			2169	2664	
Fifth sand			2664	2708	SG
shale			2708	3232	
Warren			3232	3280	
Shale w/minor sand stringer			3280	TD 5012	

3280  
 2708  
 -----  
 572 EXPL FT

(Attach separate sheets as necessary)

The Carter-Jones Lumber Company, Gas & Oil Div  
 Well Operator

By: Gene C Daley  
 Gene C Daley, Vice President  
 Date: 04/20/82



JAN 3 1980

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.

Surface Owner Mildred Tuttle  
Address 1234 5th St  
Mineral Owner Mildred Tuttle  
Address 1234 5th St  
Coal Owner John Richmond  
Address 1234 5th St  
Coal Operator John Richmond

DATE 12/30/79  
Company The Center - ...  
Address 1234 5th St  
Farm 1234 5th St Acres 95  
Location (waters) ...  
Well No. ... Elevation ...  
District ... County ...  
Quadrangle ...

~~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 10-1-80.

INSPECTOR  
TO BE NOTIFIED Phil Tracy  
ADDRESS Rt. 23, Alma, W.Va.  
PHONE 758-4573

Robert H. ...  
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 June 20 1978 by Mildred Tuttle made to John Richmond and recorded on the 21 day of June 1978, in Tyler County, Book 216 Page 180

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) \_\_\_\_\_  
Well Operator

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

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.

47-095-0779 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

**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 Gary L Rymer  
 ADDRESS 1111 York St. Middleburn, N.C. ADDRESS PO Box 236 Middleburn, N.C.  
 TELEPHONE \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL 5400 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Alexander  
 TYPE OF WELL: OIL X GAS X 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	1000'	1000'	350 SXS
7			
5 1/2			
4 1/2	TO TD	TO TD	150 SXS
3			Perf. Top <u>Not known</u>
2			Perf. Bottom <u>11</u>
Liners			Perf. Top <u>11</u>
			Perf. Bottom <u>11</u>

APPROXIMATE FRESH WATER DEPTHS 40x60' FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS NO Coal  
 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.

No Coal Operator  
 For Coal Company

Official Title