

Plot

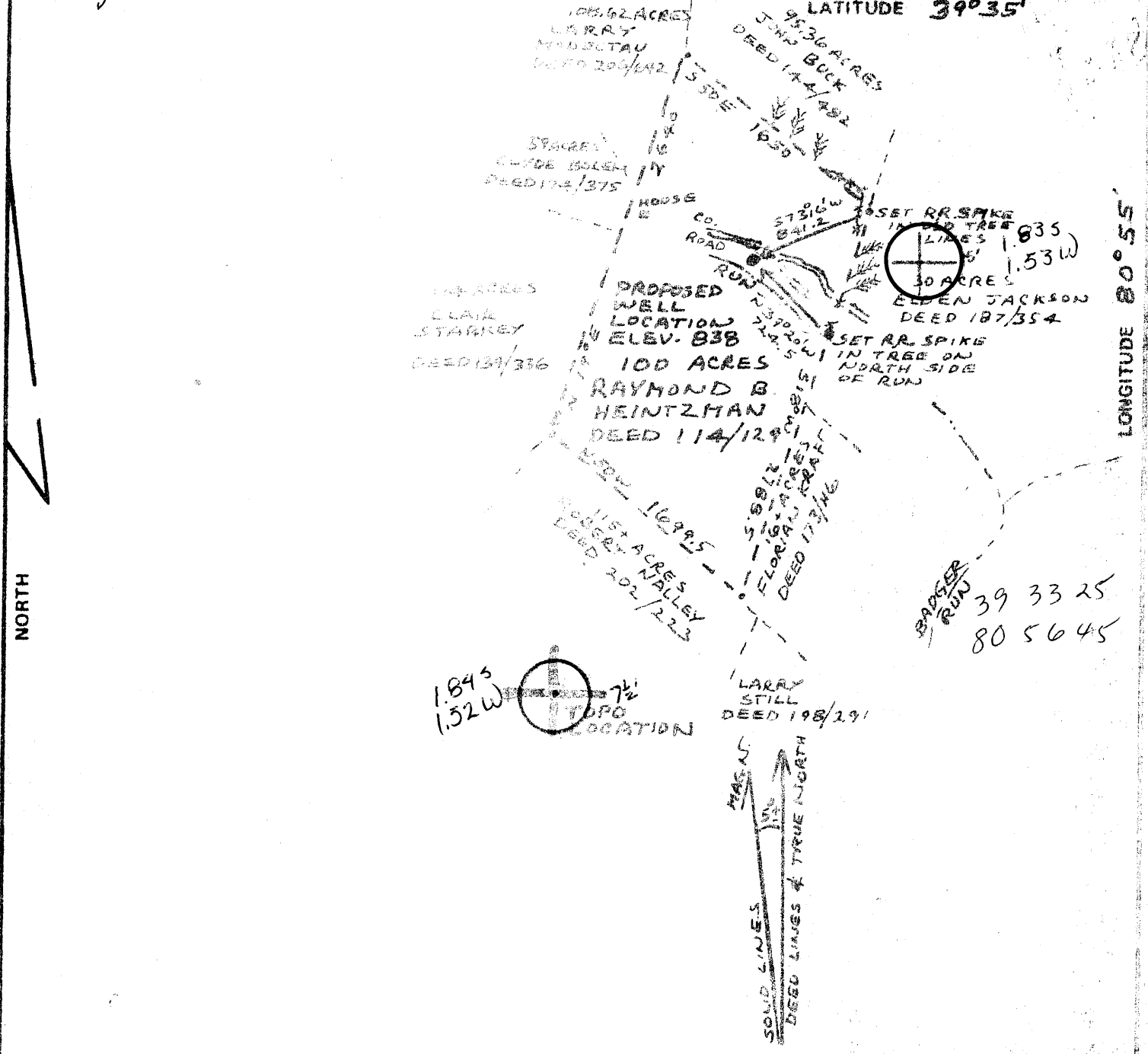
Card

CSDZ

LATITUDE 39°35'

LONGITUDE 80°55'

NORTH



FILE NO. 78-527B  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000  
 MINIMUM DEGREE OF ACCURACY 1 IN 2,500  
 PROVEN SOURCE OF ELEVATION INTERSECT 817 ON PADEN CITY TOPO

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Henry M. Parsons  
 R.P.E. \_\_\_\_\_ L.L.S. 98



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE MARCH 21, 1980  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. \_\_\_\_\_  
47 - TYLER - 0793  
 STATE COUNTY PERMIT  
095

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 838 WATER SHED BADGER RUN  
 DISTRICT LINCOLN COUNTY TYLER  
 QUADRANGLE PADEN CITY 25' NEW MARTINSVILLE 15' SW  
 SURFACE OWNER RAYMOND B. HEINTZMAN ACREAGE 100  
 OIL & GAS ROYALTY OWNER RAYMOND B. HEINTZMAN LEASE ACREAGE 100  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL  FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION REDFORMATION ESTIMATED DEPTH 5400  
 WELL OPERATOR Raymond B. Heintzman DESIGNATED AGENT Raymond B. Heintzman  
 ADDRESS Raymond B. Heintzman ADDRESS Raymond B. Heintzman

3-3 Sistersville (28)

APR 28 1980

[08-78]

WELL OPERATOR'S REPORT

Operator: R Heintzman #1

Well No. 47-095-0793  
State County \_\_\_\_\_

OF  
DRILLING, FRACURING 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: 838 Watershed: Badger Run  
District: Lincoln County: Tyler Quadrangle: Paden City

WELL OPERATOR The Carter-Jones Lumber Co DESIGNATED AGENT Gary L Rymer  
Address 601 Tallmadge Road Address P O Box 236  
Kent OH 44240 Middlebourne WV

PERMITTED WORK: Drill XX / Convert      / Drill deeper      / Redrill      / Fracture or stimulate       
Plug off old formation      / Perforate new formation       
Other physical change in well (specify)     

PERMIT ISSUED ON April 1, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Phil Tracy

N/A, 19     

Address RT #23  
Alma WV 26320

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5400

Depth of completed well, 3407 feet Rotary XX / Cable Tools     

Water strata depth: Fresh,      feet; salt,      feet.

Coal seam depths: N/A Is coal being mined in the area? no

Work was commenced 04/07/80, 19     , and completed 04/12/80, 19     

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds <u>N/A</u>
Fresh water	8 5/8"	20#		XX		938	938	350 sxs
Coal								Sizes
Intermediate								
Production	4 1/2"	19.5#		XX		3323	3323	320sxs
Tubing	1 1/2"			XX			3234	Deaths set
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation 2641-81 3222-86  
5th sand & Warren Co-mingled Pay zone depth 2640-3264

Gas: Initial open flow,      Mcf/d Oil: Initial open flow,      bbl/d  
Final open flow, 373 Mcf/d Final open flow,      bbl/d

Time of open flow between initial and final tests,      hours

Static pore pressure, 1200 psig (surface measurement) after 72 hours shut in

(If applicable, list multiple completions--)

Second producing formation      Pay zone depth     

Gas: Initial open flow,      Mcf/d Oil: Initial open flow,      bbl/d  
Final open flow,      Mcf/d Final open flow,      bbl/d

Time of open flow between initial and final tests,      hours

Static pore pressure,      psig (surface measurement) after      hours shut in

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

15 holes 2641-2681 frac w/627bbbls treated water  
 10 holes 3222-3256 and 40,000 psi sand @ 30 bbl/min and 2600 psi

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Big Injun			1694	1848	500 ft. Exploratory  TO 3407
Weir			2058	2154	
5th Sand			2640	2686	
Warren			3213	3264	

(Attach separate sheets to complete as necessary)

The Carter-Jones Lumber Company  
 Well Operator  
 By Gene C Daley  
 Its Assistant Vice President

nkd

**NOTE:** Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

RECEIVED

DEC 1 1980

OIL & GAS DIVISION  
 DEPT. OF MINES

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
 ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DILLING CONTRACTOR (IF KNOWN) Little Swiss Drilling Co  
 Address P.O. Drawer P  
Buckhannon WV 26201

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5400 feet Rotary  Cable tools

Approximate water strata depths: Fresh 60,000 feet; salt, 1,500 feet.

Approximate coal seam depths: NO Coal Is coal being mined in the area? Yes  No

DILLING AND TUBING PROGRAM

DILLING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Drill pipe	1 1/4"				X	30'	0'	—	Kinds <u>NA</u>
Casing	8 5/8"	20#	J-55	X		950'	950'	cmf to surf	Sizes <u>NA</u>
Intermediate									
Production	4 1/2"	J-55	10.5#	X		TD	TD	cmf w/ 150 sacks	Depths set <u>NA</u>
Logging	1 1/2"	J-55		X		0	not determined	—	
Perforations									Perforations: Top <u>—</u> Bottom <u>—</u> <u>not yet determined</u>

Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

All provisions being in accordance with Chapter 22, of the W. Va. Code, and the Department of Mines shall not be required for fracturing or stimulating a well where fracturing or stimulating is a part of the work for which a permit is sought and for drilling. This permit shall expire on 12-1-80.

operations have not commenced by 12-1-80  
Robert S. [Signature]  
 Deputy Director - Oil & Gas Division

Blanket Bond on file with State of West Virginia

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

No Coal Operator

By \_\_\_\_\_  
 Its \_\_\_\_\_

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Raymond Heintzman

API Well No. 47-095-0793  
State County Permit

WELL TYPE: Oil  Gas   
(If "Gas", Production  / Underground storage  / Deep  / Shallow  )  
LOCATION: Elevation: 838 Watershed: Badger Run  
District: Lincoln County: Tyler Quadrangle: Paden City

WELL OPERATOR The Carter-Jones Lumber Co. DESIGNATED AGENT Gary L. Rymer  
Address 601 Tallmadge Road Address P.O. Box 236  
Kent, Ohio 44240 Middlebourne WV  
26149

WELL & GAS LEASE & GAS LEASE DUALTY OWNER Raymond B Heintzman COAL OPERATOR  
Address Route #1 Address: No Coal Operator  
Sistersville WV

ACREAGE 100 acres COAL OWNER(S) WITH DECLARATION ON RECORD:  
SURFACE OWNER Same as above Name \_\_\_\_\_

Address Rt #1 Address No Coal  
Sistersville WV Name \_\_\_\_\_  
ACREAGE 100 acres Address \_\_\_\_\_

WELL SALE (IF MADE) TO: \_\_\_\_\_  
Name not yet made Address \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD: OIL & GAS DIVISION  
Name \_\_\_\_\_ DEPT. OF MINES  
Address No Coal

WELL & GAS INSPECTOR TO BE NOTIFIED  
Name Phil Tracy  
Address Rt 23  
Alma WV 26320  
304-758-4573

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated 3/7, 1980, to the undersigned well operator from Appalachian Exploration and Development Inc. If said deed, lease, or other contract has been recorded: Farmout agreement not recorded recorded on \_\_\_\_\_, 19\_\_\_\_, in the office of the Clerk of the County Commission of \_\_\_\_\_ county, West Virginia, in \_\_\_\_\_ Book \_\_\_\_\_ at page \_\_\_\_\_. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any action they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
100 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-2300

The Carter-Jones Lumber Co  
Well Operator

BLANKET BOND

By Aere C. Paly  
Its Asst. V. Pres.