



7 1/2'
7 1/2'
TOPO
LOCATION

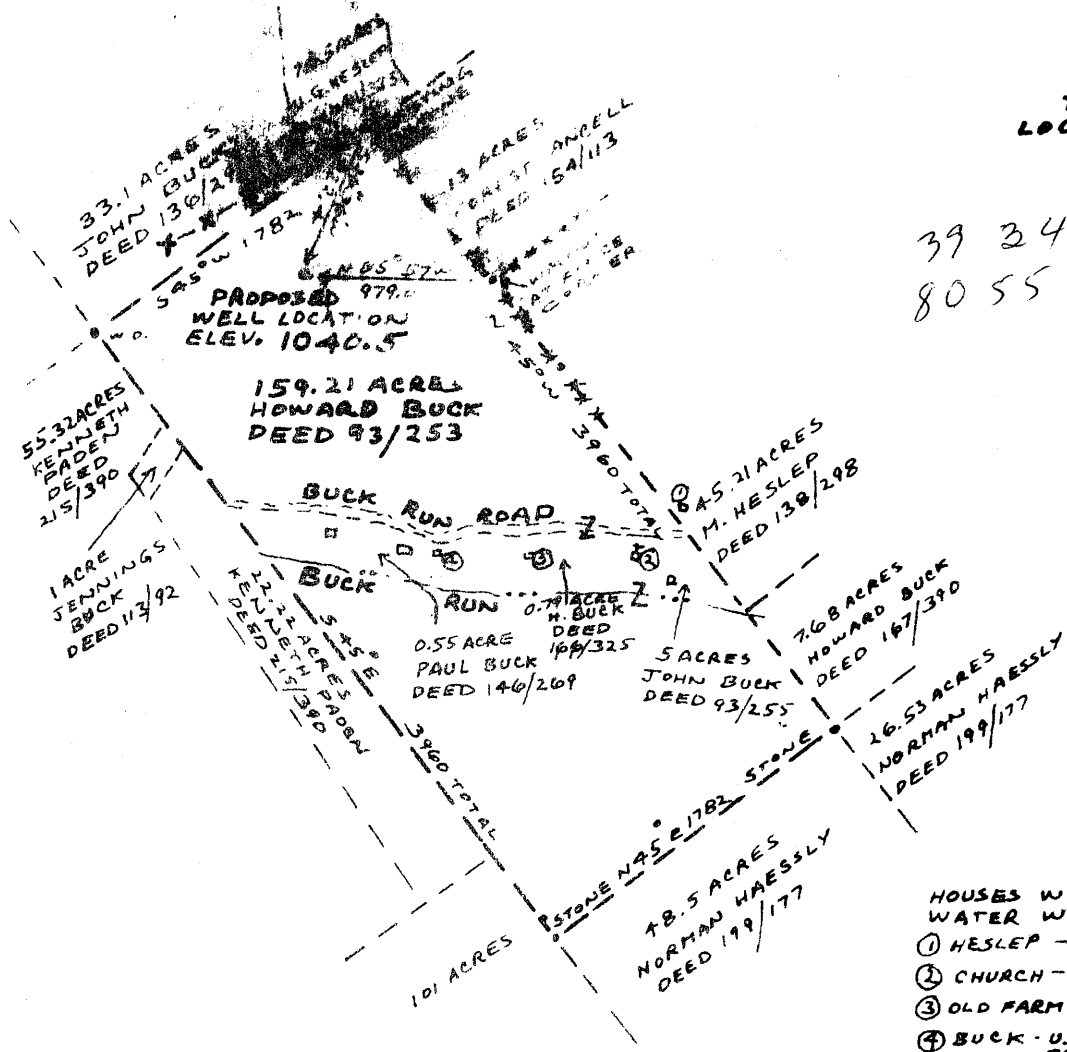
39 34 30
80 55 05

LONGITUDE

80° 55'

NORTH

NEW SURVEY SOLID LINES
FROM 1979 MAG. NORTH

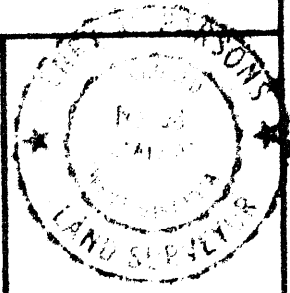


- HOUSES WITH DRILLED WATER WELLS
- ① HESLEP - 60'
 - ② CHURCH - 60'
 - ③ OLD FARM HOUSE 40'
 - ④ BUCK - USE WELL FROM OLD FARM HOUSE

FILE NO. 78-5278
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION 761 AT THE BUCK RUN ROAD AND WILLOW RUN ROAD INTERSECTION ON PADEN CITY QUADRANGLE TOPO MAP

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



PLACE SEAL HERE

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



DATE JAN 18, 1980
 OPERATOR'S WELL NO. BUCK 1
 API WELL NO. _____
47 - 095 - 0776
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1040.5 WATER SHED BUCK RUN
 DISTRICT LINCOLN COUNTY TYLER
 QUADRANGLE PADEN CITY (1 TO 29,000) NEW MARTINSVILLE 165 AC SW
 SURFACE OWNER HOWARD BUCK ACREAGE 159.21 ACRES (TAX MAP)
 OIL & GAS ROYALTY OWNER Buck Heirs LEASE ACREAGE 160 165 AC.
 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 Alexander ESTIMATED DEPTH 5400
 WELL OPERATOR The Carter-Jones Lumber Co DESIGNATED AGENT Gary L. Rymer
 ADDRESS 601 Tallmadge Road ADDRESS PO Box 236
North Ohio Logan Middlebourne W Va 26149
6-E Willow Fork (29) FEB 25 1980

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

Date: April 6, 1981, 19

FORM IV-35
(Obverse)

Operator's
Well No. Howard Buck #1

[08-78]

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

API Well No. 47-095-0776
State County Permi

WELL TYPE: Oil XX / Gas XX / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production XX / Underground storage ___ / Deep ___ / Shallow XX)

LOCATION: Elevation: 1040.5 Watershed: Buck Run
District: Lincoln County: Tyler Quadrangle: Paden City

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

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

PERMIT ISSUED ON 01/31/81, 19

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Phil Tracey

Address Rt #23

Alma WV 26320

GEOLOGICAL TARGET FORMATION: Alexander Depth 5400' feet

Depth of completed well, 2952' feet Rotary XX / Cable Tools ___

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

Coal seam depths: none Is coal being mined in the area? no

Work was commenced 09/12/81, 19, and completed 09/15/81, 19

CASING AND TUBING PROGRAM

CASING 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		
Conductor									Kinds
Fresh water	8 5/8"		23#	xx		600'	600'	cmt to surface	
Coal									Sizes
Intermediate									
Production	4 1/2"		10.5#	xx		to TD	to TD	155sxs	Depth set
Tubing									
Liners									Perforations:
									Top Bottom

RECEIVED
APR - 8 1981

OPEN FLOW DATA

OIL & GAS DIVISION
DEPT. OF MINES

Producing formation 5th sand Pay zone depth 2819-2840

Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, 318 Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1250 psig (surface measurement) after ___ hours shut in

[If applicable due to multiple completion--]

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 rock pressure, ___ psig (surface measurement) after ___ hours shut in

APR 22 1981

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

shot 14 holes 2819-2840 Frac w/1000BBL's treated water and
40,000# sand w/250,000 cu.ft. N2

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Maxton			1584	1656	
Big Lime			1754	1870	
Big Injun			1894	2030	
Weir			2236	2328	
5th sand			2826	2858	gas show

(Attach separate sheets to complete as necessary)

The Carter-Jones Lumber Company
GAS & OIL DIVISION
Well Operator

By Gene C Daley
Its Assistant Vice President

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."

[C-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Howard Buck #1

API Well No. 47-095-0776 State County Permit

WELL TYPE: Oil X Gas X (If "Gas", Production X Underground storage Deep Shallow X)

LOCATION: Elevation: 1040.5 Watershed: Buck Run District: Lincoln County: Tyler Quadrangle: Padon City

WELL OPERATOR: The Carter-Jones Lumber Co DESIGNATED AGENT: Gary L Rymer Address: 601 Tallmadge Road Kent, Ohio 214240 Address: PO Box 236 Middlebourne W Va

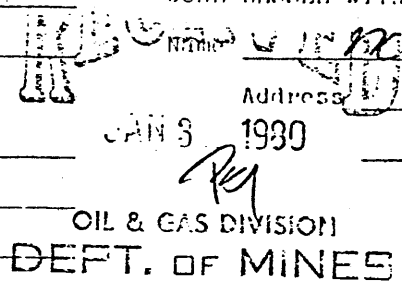
OIL & GAS ROYALTY OWNER: Howard Buck et al Address: Rt #1 Sistersville W Va COAL OPERATOR: no coal operator Address:

ACREAGE: 122 acres SURFACE OWNER: Same as above Name: no coal operator Address:

FIELD SALE (IF MADE) TO: Name: NA Address:

COAL LESSEE WITH DECLARATION ON RECORD: Name: no coal operator Address:

OIL & GAS INSPECTOR TO BE NOTIFIED Name: Address:



The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X other contract / dated Jun 27, 1978, to the undersigned well operator from Howard Buck et al to John Richmond to Carter-Jones

[If said deed, lease, or other contract has been recorded:] Recorded on July 21, 1978, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 216 at page 164. A permit is requested as follows:

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

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code 5-22-4-2 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 plan 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 on the day of the mailing or delivery of this Permit Application to the Department of Mines, Charleston, West Virginia.

PLEASE RETURN COPIES OF ALL OR PHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 100 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (606) 584-2017

BLANKET BOND

The Carter-Jones Lumber Co Well Operator By: [Signature] Asst. V. Pres

PROPOSED WORK ORDER

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

DRIILLING CONTRACTOR (IF KNOWN) not yet determined

Address _____

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary Cable tools

Approximate water strata depths: Fresh 40-60 feet; salt, _____ feet.

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

DRILLING AND TUBING PROGRAM

DRILLING 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		
Conductor									Kinds _____
Casing	<u>8 5/8"</u>	<u>J-55</u>	<u>27#</u>	<u>X</u>		<u>600'</u>	<u>600'</u>	<u>cmf 1000</u>	
Intermediate									Sizes _____
Production	<u>4 1/4"</u>	<u>J-55</u>	<u>10.5#</u>	<u>X</u>		<u>to TD</u>	<u>to TD</u>	<u>150 SX 5</u>	Depths set _____
Perforations									Perforations <u>not from</u>
									Top _____ Bottom _____

NOTE: 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 previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be performed as part of the work for which a permit is sought and is included in the application for the permit. **THIS PERMIT MUST BE POSTED AT THE WELL SITE** if the work for which a permit is sought and is included in the application for the permit.

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.

[Signature]
Deputy Director - Oil & Gas Division

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