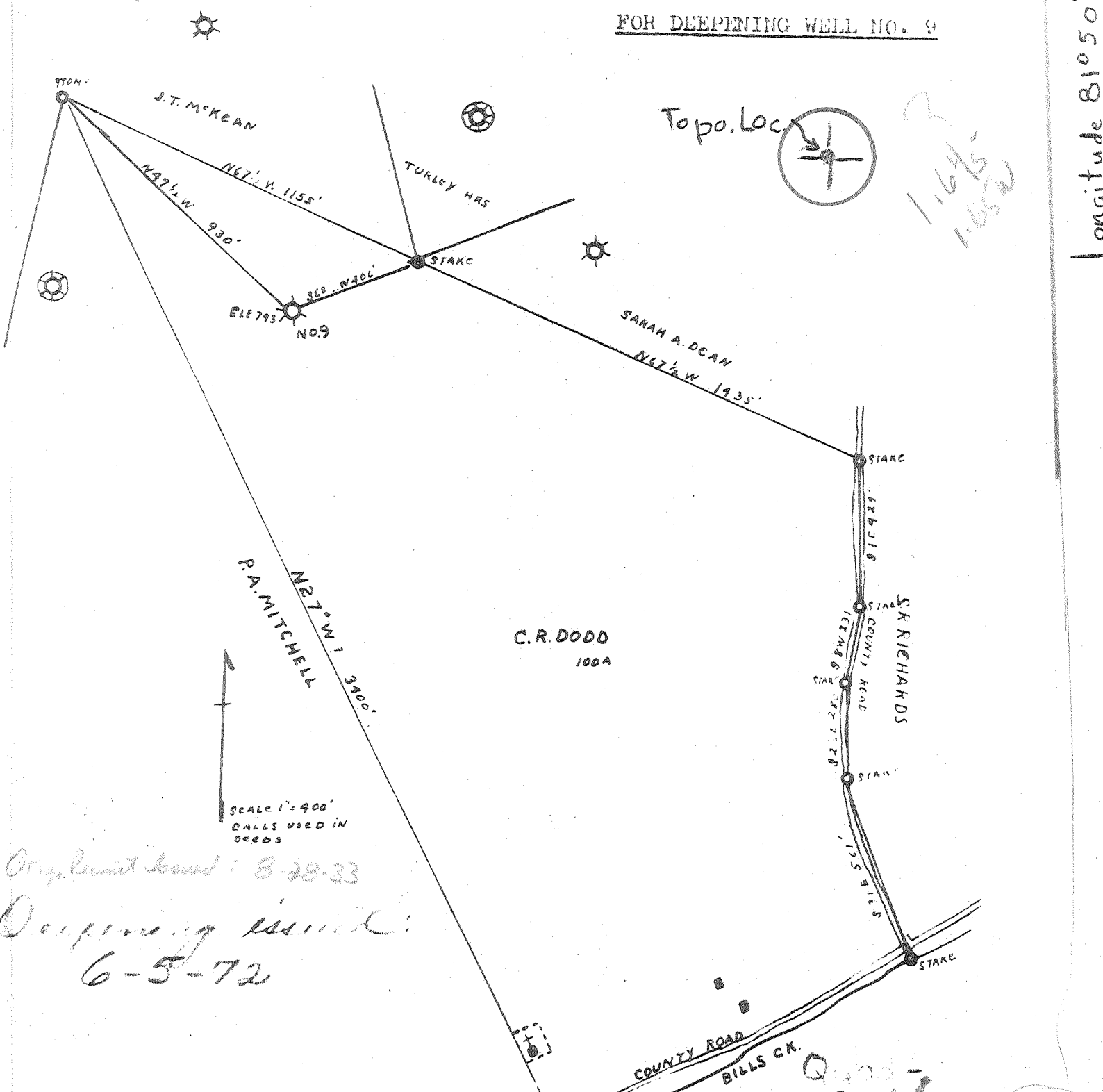


Plot Log Card CSD - Mfm  
 Plat of the location of well No. 9 of the Putnam Natural Gas Co., Inc., of Charleston, West Virginia, on the C. R. Dodd farm, consisting of 100 acres located in Scott District, Putnam County, West Virginia.

Latitude 38° 30'

FOR DEEPENING WELL NO. 9



Orig. permit issued: 8-28-33  
 Deepening issued: 6-5-72

**ENGINEER'S CERTIFICATE**

I, the undersigned, hereby certify that this map is correct and shows all the information to the best of my knowledge and belief, required by the oil and gas section of the Mining Laws of West Virginia.

*E. Johnson*  
 Registered Engineer #238  
 19\_\_

acknowledged before me this \_\_\_ day of \_\_\_

NOTARY PUBLIC

Commission expires

PUT. 18-00

Deep well (Oriskany)

6-6 Scott Depot (212)

JUN 15 1972

\*\* W VA PUTNAM 10650 S 11300 W 38.30 81.50 DG  
 PUTNAM NATURAL GAS 9 C R DODD 18-D SCOTT  
 796 DF 793 GR SCOTT DEPOT  
 SPUD 06/04/72 COMP 10/25/72 GAS  
 CSG 9 5/8 AT 180 8 5/8 AT 1552  
 7 AT 2250 3 AT 4531W/ 20  
 DTD 4535 OTD 2250 BTM HELDERBERG  
 ORISKANY PERF SDWTRFRACT  
 IPF 425 MCFGPD  
 DRLR- -- TOP -- ---- DRLR- -- TOP -- ----  
 SALT SD 1120 1470 324- BERA 2240 2265 1444-  
 B LM 1545 1700 749- ONONDAGA 4414 4508 3618-  
 B INJUN 1736 1746 940- ORISKANY 4508 4514 3712-  
 MAP QUAD ST ALBANS PROJ DEPTH ORISKANY AC 100  
 TOOLS CT  
 CARTER COORD 8-X-10  
 OWDD  
 FIRST REPORT 6/23/72  
 SO&G IN SALT SD. GAS IN BIG INJUN. BERA.  
 ORISKANY  
 PERF ORISKANY. FRACT W/361 BW. 5000# 20/40 SD  
 IPF 425 MCFGPD  
 COMPLETION ISSUED 02/09/73  
 47 26

ORIGINAL RECORD : 1933 (yr. permitted & reported)

Elev. 793'  
 CASING:  
 13" @ 16'  
 10" @ 180"  
 8" @ 1550'  
 2" @ 1746'  
 No Coal  
 Oil @ 1625'  
 Gas @ 1625', 1738', 1741'  
 Fresh water @ 669'  
 T.D. 1746'

Scott District, Putnam County, W. Va. ~~1811~~  
 Putnam Natural Gas Co., Charleston, W. Va. (Walter L. Smith, Geologist).  
 On 100 acres, surface and mineral rights owned by C. R. Dodd and wife,  
 Winfield, W. Va.

Elevation, 793' B.

13" conductor, 16'; 10" casing, 180'; 8 $\frac{1}{2}$ ", 1552'; 3" tubing, 1746'.

Packer, set at 1678'.

No coal encountered. No liners used.

Drilled July 4, 1928.

Abandonment? report to Dept. of Mines not dated; but filed Aug. 18, 1933.

Note: This well was purchased from the Tompkins Fuel Company after  
 it was drilled, therefore we can not approve this record.

Well was not shot.

Fresh water at 660'.

	Top.	Bottom.
Surface	0	14
Red rock	14	144
Sand	144	152
Red rock	152	260
Lime	260	280
Red rock	280	295
Slate and shell	295	330
Red rock	330	340?
Slate and shells	360?	490
Sand	490	575
Slate	575	645
Sand (water at 660')	645	680
Slate and shells	680	1120
Salt Sand	1120	1470
Slate	1470	1477
Maxton Sand	1477	1492
Slate	1492	1497
Little Lime	1497	1542
Slate	1542	1545
Big Lime (little oil and gas, 1625')	1545	1700
Keener Sand	1700	1715
Slate	1715	1736
Big Injun Sand, hard, and shell	1736	1738
Big Injun Sand (gas)	1738	1741
Big Injun Sand, hard shell (gas)	1741	1742 $\frac{1}{2}$
Big Injun Sand, to bottom	1742 $\frac{1}{2}$	1746



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JAN 17 1973

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

98-30  
4-1-73  
Quadrangle St. Albans  
Putnam  
Permit No. 18-D

Rotary \_\_\_\_\_ Oil \_\_\_\_\_  
Cable  Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company Putnam Natural Gas Company  
Address 1901 Kanawha Valley Bldg.  
Charleston, W. Va.  
Farm C. R. Dodd Acres 100  
Location (waters) Little Hurricane Creek  
Well No. 9 Elev. 793'  
District Scott County Putnam  
The surface of tract is owned in fee by \_\_\_\_\_  
George Zeller  
Address Rt. 1, Winfield, W. Va.  
Mineral rights are owned by H. Mitchell  
Address \_\_\_\_\_  
Drilling Commenced June 4, 1972  
Drilling Completed October 25, 1972  
Initial open flow 425 M cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"	16'	16'	
9 5/8	180'	180'	
8 5/8	1552'	1552'	
7	2250'	2250'	
5 1/2			
4 1/2			
3		4531'	20 Sks.
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fracted oriskany with 5000 pounds of 20-40 sand and 361 Bbls. of water.

Coal was encountered at None Feet \_\_\_\_\_ Inches  
Fresh water 120 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Oriskany Depth 4508'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
✓ Salt Sand			1120'	1470'		Show of oil and gas
✓ Big Lime			1545'	1700'		maxon 1477-92
✓ Big Injun			1736'	1746'	Gas	
✓ Berea			2240'	2265'	Gas	
✓ Corniferous Lime			4414'	4508'		
✓ Oriskany Sand			4508'	4514'	Gas	perf. 4508-13
			4514 1120 3394			

(over)

\* Indicates Electric Log tops in the remarks section.

JAN 31 1973



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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JUN 2 1972

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 JUNE 2, 1972

Surface Owner \_\_\_\_\_

Company Putnam Natural Gas Company

Address \_\_\_\_\_

Address 1901 Kanawha Valley Building  
Charleston, W. Va.

Mineral Owner \_\_\_\_\_

Farm C. R. Dodd Acres 100

Address \_\_\_\_\_

Location (waters) Little Hurricane Creek

Coal Owner \_\_\_\_\_

Well No. 9 Elevation 793'

Address \_\_\_\_\_

District Scott County Putnam

Coal Operator \_\_\_\_\_

Quadrangle St. Albans NC

Address \_\_\_\_\_

INSPECTOR TO BE NOTIFIED Mr. Kenneth  
R. F. D. #1 Bitcher  
Barboursville PH: 736-4885  
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 deepening. This permit shall expire if operations have not commenced by Oct. 5, 1972.

Robert R. Dodd  
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 \_\_\_\_\_ 19\_\_\_\_ by C. R. Dodd made to Teavee Oil & Gas, Inc. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

\_\_\_\_\_ 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, Putnam Natural Gas Company  
(Sign Name) By: Julius David Odom III  
Well Operator

Address  
of  
Well Operator

1901 Kanawha Valley Building  
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.

BOND DEEPEN

PUT-18-DD.

PERMIT NUMBER

*[Handwritten signature]*

**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 Teavee Oil & Gas, Inc. NAME J. David Odom  
 ADDRESS Charleston, W. Va. ADDRESS Winfield, W. Va.  
 TELEPHONE 342-2125 TELEPHONE 586-3142  
 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			
13 - 10			
9 - 5/8			
8 - 5/8			
7	<b>2252'</b>		
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 15 FEET SALT WATER 1600 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