



FILE NO. BK 64 P 50  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500  
 MINIMUM DEGREE OF ACCURACY 1-200  
 PROVEN SOURCE OF ELEVATION USGS BM A 107 E1 615.0

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) C. V. Volley Jr.  
 R.P.E. \_\_\_\_\_ U.L.S. 92

PLACE SEAL HERE

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



DATE SEPT 28, 1981  
 OPERATOR'S WELL NO. 969  
 API WELL NO. \_\_\_\_\_  
47 - 035 - 1626  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 753.91 WATERSHED GRASS RUN OF PARCHMENT CREEK  
 DISTRICT RIPLEY COUNTY JACKSON  
 QUADRANGLE RIPLEY 7.5 415 SW  
 SURFACE OWNER CARL W. PIGNATO ACREAGE 240.91  
 OIL & GAS ROYALTY OWNER CARL W. PIGNATO LEASE ACREAGE 240.91  
 LEASE NO. 4884  
 PROPOSED WORK: DRILL X 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 ORISKANY ESTIMATED DEPTH 5025  
 WELL OPERATOR DEVON ENERGY CORP DESIGNATED AGENT ARTHUR C. YOUSE  
 ADDRESS P.O. BOX 1433 ADDRESS P.O. BOX 1433  
CHARLESTON WVA 25325 CHARLESTON, W.VA. 25325



IV-35  
(Rev 8-81)

Date December 15, 1981  
Operator's  
Well No. #969  
Farm Carl W. Pignato  
API No. 47 - 035 - 1626

State of West Virginia  
Department of Mines  
Oil and Gas Division

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

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

LOCATION: Elevation: 753.91 Watershed Grass Run of Parchment Creek  
District: Ripley County Jackson Quadrangle Ripley 7-1/2

COMPANY DEVON ENERGY CORPORATION  
ADDRESS PO Box 1433, Charleston, W. Va. 25325  
DESIGNATED AGENT Arthur C. Youse  
ADDRESS PO Box 1433, Charleston, W. Va. 25325  
SURFACE OWNER Carl W. Pignato  
ADDRESS Rt. 2, Box 30, Ripley, W. Va. 25271  
MINERAL RIGHTS OWNER Same as above  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Richard Morris ADDRESS Grantsville, W. Va.  
PERMIT ISSUED October 29, 1981  
DRILLING COMMENCED 11:30 AM 11/17/81  
DRILLING COMPLETED 10 PM 11/29/81  
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 Cond.			
<del>20-16</del> 10"	225	225	125 sax
9 5/8			
8 5/8			
7	2094	694	75 sax
5 1/2			
4 1/2		5012	225 sax
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 5025 feet  
Depth of completed well 5040 feet Rotary XX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet  
Coal seam depths: None Reported Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Oriskany Sand Pay zone depth 4931-4947 feet  
Gas: Initial open flow 70 Mcf/d Oil: Initial open flow None Bbl/d  
Final open flow 755 Mcf/d Final open flow None Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1375 psig (surface measurement) after 44 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation None Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: 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

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

Perforated 4-1/2" casing 4932' to 4936' and 4940' to 4944' with 4 shots per foot.

Fractured Oriskany Sand with 700 bbls water, 60,000# sand and 339,000 SCF nitrogen.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale			0	70	
Sand			70	283	
Shale			283	337	
Sand			337	354	
Shale			354	645	
Sand			645	670	
Shale			670	735	
Sand			735	760	
Shale			760	1108	
Sand			1108	1200	
Shale			1200	1247	
Sand			1247	1373	
Shale			1373	1664	
Sand			1664	1756	
Shale			1756	1776	
Big Lime			1776	1946	
Shale			1946	1978	
Injun Sand			1978	2086	
Shale			2086	2422	
Coffee Shale			2422	2444	
Berea Sand			2444	2449	
Shale			2449	3670	
Brown Shale			3670	4196	
Shale			4196	4636	
Marcellus Shale			4636	4835	
Onondaga L. S.			4835	4931	
Oriskany Sand			4931	4947	
Helderberg L. S.			4947	5040	
Log Total Depth				5040	

(Attach separate sheets as necessary)

DEVON ENERGY CORPORATION

Well Operator

By: A. C. Youse  
A. C. Youse, Area Expl Mgr.  
Date: December 15, 1981

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."



API #47 - 035 - 1626

WELL NO. 969

FARM Carl W. Pignato

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

DATE 9/30, 1981

OIL AND GAS WELL PERMIT

WELL TYPE: Oil \_\_\_\_\_ / Gas XX /  
(If "Gas", Production XX / Underground storage \_\_\_\_\_ / Deep XX / Shallow \_\_\_\_\_)

LOCATION: Elevation: 753.91 Watershed: Grass Run of Parchment Creek  
District: Ripley County: Jackson Quadrangle: Ripley 7 1/2

WELL OPERATOR Devon Energy Corporation  
Address P. O. Box 1433  
Charleston, WV 25325

DESIGNATED AGENT Arthur C. Youse  
Address PO Box 1433  
Charleston, W. Va. 25325

OIL & GAS ROYALTY OWNER Carl W. Pignato  
Address Rt. 2, Box 30  
Ripley, W. Va. 25271

COAL OPERATOR Not operated  
Address \_\_\_\_\_

Acreage 254 acres

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Same as above

Name \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

Acreage \_\_\_\_\_

Name OCT 27 1981

FIELD SALE (IF MADE) TO: Devon/Eason Pipeline Co.

Address \_\_\_\_\_

Address P. O. Box 1433

Address OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Address Charleston, W. Va. 25325

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED

Name \_\_\_\_\_

Name Richard J. Morris

Address \_\_\_\_\_

Address P. O. Box 372

Grantsville, W. Va. 26147

Tel. 354-7259

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_\_\_ / lease XXX

Other contract \_\_\_\_\_ / dated 9/29, 19 80, to the undersigned well operator from Carl W. &

Freda M. Pignato

(If said deed, lease, or other contract has been recorded:)

Recorded on \_\_\_\_\_, 19\_\_\_\_, in the office of the Clerk of the County Commission of Jackson County, West

Virginia, in Lease Book 157 at page 408. A permit is requested as follows:

PROPOSED WORK: Drill XX / 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 objection 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 on 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 GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLANKET BOND

DEVON ENERGY CORPORATION

Well Operator

By A. C. Youse  
Its Dist. Expl. Manager

**PROPOSED WORK ORDER**

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

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Assoc.  
 Address Box 388  
Elkview, W. Va.

GEOLOGICAL TARGET FORMATION, Oriskany Sand

Estimated depth of completed well, 5025 feet Rotary XX / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No XX /

**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		Kinds	
Conductor										
Fresh Water	9 5/8			X		200	200	125 sax =	to surface	
Coal									Sizes	
Intermediate	7			X		2150	750	75 sax =	650 feet (into 9 5/8)	
Production	4 1/2			X			5025	225 sax	Depths set 2400 feet (into 7')	
Tubing	2 3/8			X			4925			
Liners									Perforations:	
									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 dwelling 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 part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 6-29-82.

*[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.

**WAIVER**

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 the 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.

Date: \_\_\_\_\_, 19\_\_\_\_ By \_\_\_\_\_  
 Its \_\_\_\_\_