



FILE NO. B 64 P 15  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 - 200'  
 PROVEN SOURCE OF ELEVATION USGS Intersection W. Sec Rt 9 & 2/7 E1 629.0'

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. S. Volley Jr.  
 R.P.E. \_\_\_\_\_ U.S. 92

PLACE SEAL HERE

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



DATE SEPT 5, 1981  
 OPERATOR'S WELL NO. 1000  
 API WELL NO. \_\_\_\_\_  
47 - 035 - 1615  
 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 648.22 WATER SHED ROADFORK OF LITTLE SANDY CREEK  
 DISTRICT GRANT COUNTY JACKSON  
 QUADRANGLE POND CREEK OHIO-WVA 7.5' Bellevue 15' SW  
 SURFACE OWNER GENE S. SNYDER ACREAGE 135.91  
 OIL & GAS ROYALTY OWNER RUSSELL REED LEASE ACREAGE 135.91  
 LEASE NO. 4410  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

OCT 13 1981

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4450'  
 WELL OPERATOR DEVON ENERGY CORP DESIGNATED AGENT ARTHUR C. YOUSE  
 ADDRESS P.O. BOX 1433 ADDRESS P.O. BOX 1433  
CHARLESTON WVA. CHARLESTON, W.VA.

Deep Well 6-6 NEPTUNE



IV-35  
(Rev 8-81)

**RECEIVED**

MAR 26 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date January 14, 1982  
Operator's Well No. #1000  
Farm Russell Reed  
API No. 47 - 035 - 1615

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    / Shallow X /)

LOCATION: Elevation: 648.22 Watershed Roadfork Run of Little Sandycreek  
District: Grant County Jackson Quadrangle Pond Creek 7-1/2

COMPANY DEVON ENERGY CORPORATION  
ADDRESS PO Box 1433, Charleston, W. Va. 25325  
DESIGNATED AGENT Arthur C. Youse  
ADDRESS Box 1433, Charleston, W. Va. 25325  
SURFACE OWNER Gene Snyder  
ADDRESS Rt. 1, Sherman, W. Va. 26173  
MINERAL RIGHTS OWNER Russell Reed  
ADDRESS 3400 6th Avenue, Parkersburg, WV 26101  
OIL AND GAS INSPECTOR FOR THIS WORK Richard Morris ADDRESS Grantsville, W. Va.  
PERMIT ISSUED September 30, 1981  
DRILLING COMMENCED November 4, 1981  
DRILLING COMPLETED November 9, 1981  
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>18</del> 10"	201	201	To surface
9 5/8			
8 5/8			
7	1822	1663	630 feet
5 1/2			
4 1/2		4418	1373 feet
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 4450 feet  
Depth of completed well 4431 feet Rotary X / 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 Devonian Brown Shale Pay zone depth 3555-3680 feet  
Gas: Initial open flow 6 Mcf/d Oil: Initial open flow -0- Bbl/d  
Final open flow 163 Mcf/d Final open flow -0- Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 850 psig (surface measurement) after 48 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation    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.

Performed 4-1/2" casing 3555-3680 with 26 shots.

Fractured Brown Shale with 338 bbls. water, 75,000# sand and 375,000 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	352	
Sand			352	420	
Shale			420	485	
Sand			485	530	
Shale			530	603	
Sand			603	633	
Shale			633	917	
Sand			917	967	
Shale			967	1060	
Sand			1060	1117	
Shale			1117	1145	
Sand			1145	1219	
Shale			1219	1505	
Big Lime			1505	1592	
Shale			1592	2027	
Coffee Shale			2027	2045	
Berea Sand			2045	2047	
Gray Shale			2047	3185	
Brown Shale			3185	3681	
Gray Shale			3681	4062	
Marcellus Shale			4062	4241	
Onondaga L. S.			4241	4346	
Oriskany Horizon				4346	
Helderberg L. S.			4346	4431	
Log Total Depth				4431	

(Attach separate sheets as necessary)

DEVON ENERGY CORPORATION

Well Operator

By:

*Arthur C. Youse*

Arthur C. Youse, Area Expl. Mgr.

Date:

January 14, 1982

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 1615

WELL NO. 1000

FARM Russell Reed

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

DATE 9/3, 1981

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 648.22 Watershed: Roadfork Run of Little Sandy Ck.  
District: Grant County: Jackson Quadrangle: Pond Creek

WELL OPERATOR DEVON ENERGY CORPORATION  
Address P. O. Box 1433  
Charleston, W. Va. 25325

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

OIL & GAS ROYALTY OWNER Russell Reed  
Address 3400 6th Avenue  
Parkersburg, W. Va. 26101

COAL OPERATOR Not Operated  
Address

Acreage 136 acres

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Gene Snyder  
Address Rt. 1  
Sherman, W. Va. 26173

Name  
Address

Acreage Pt. of 136 acres

Name  
Address

FIELD SALE (IF MADE) TO: Not contracted  
Address

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Richard J. Morris  
Address P. O. Box 372  
Grantsville, W. Va. 26147  
Phone 354-7259

Name  
Address  
SEP 23 1981  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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 5-21, 1977, to the undersigned well operator from Russell  
Reed, et ux  
(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  
West, in Lease Book 144 at page 314. 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 COMMISS-  
SION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

DEVON ENERGY CORPORATION  
Well Operator  
By A. C. Youse  
A. C. Youse  
Dist. Expl. Mgr.

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 P. O. Box 388  
Elkview, W. Va. 25071

GEOLOGICAL TARGET FORMATION, Oriskany Sand

Estimated depth of completed well, 4450 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 X /

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	9-5/8			X		200	200	125 sax <i>CTB</i>	to surface
Coal									Sizes
Intermediate	7"			X		1700	750	75 sax <i>CTB</i>	= 650 feet
Production	4-1/2			X			4450	225 sax <i>or</i>	Depths set 2400 feet
Tubing	2-3/8			X			4350	<i>into 7"</i>	
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, this location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-30-82

*[Signature]*  
Deputy Director - Oil & Gas Division

*[Signature]*

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 \_\_\_\_\_