



FILE NO. 867 P 31  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1' - 200'  
 PROVEN SOURCE OF ELEVATION USGS BM TT&4  
Let Rec 21 & 21/7 E.L. 812.21

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) [Signature]  
 R.P.E. \_\_\_\_\_ V.L.S. 32

PLACE SEAL HERE

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



DATE JAN 26, 19 82  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47 - 039 - 3824  
 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 794.21 WATER SHED TUPPER CREEK  
 DISTRICT UNION COUNTY KANAWHA  
 QUADRANGLE POCOTALICO 7.5' Chap. 15' NW  
 SURFACE OWNER ORVILLE CARNEY, ETAL ACREAGE 100  
 OIL & GAS ROYALTY OWNER ORVILLE CARNEY, ETAL 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 ORISKNEY ESTIMATED DEPTH 4950  
 WELL OPERATOR BURDETTE OIL & GAS DESIGNATED AGENT MICHAEL BURDETTE  
 ADDRESS P.O. BOX 10167 STATION C' ADDRESS P.O. BOX 10167 STATION C'  
CHARLESTON, W.V. 25312 CHARLESTON W.V. 25312

MAR 18 1982

6-6 Elk-Poca (Sissonville) DEEP WELL (192)



FORM IV-2  
(Obverse)  
(08-78)

Date: Feb. 1, 19 82

Operator's Well No. 1

API Well No. 47 . 039 . 3824

State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 794.01 Watershed: Tupper's Creek  
District: Union County: Kanawha Quadrangle: Pocatalico

WELL OPERATOR Burdette Oil & Gas Co., Inc. DESIGNATED AGENT Mike Burdette  
Address P. O. Box 10167, Station "C" Address Charleston, W.Va.  
Charleston, W.Va. 25312

OIL & GAS ROYALTY OWNER Orville Carney, et al  
Address \_\_\_\_\_

COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

Acreage 100

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Orville Carney, et al  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address **RECEIVED**

Acreage 100

Name FEB 5 - 1982

FIELD SALE (IF MADE) TO:  
Address \_\_\_\_\_

Address OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Martin Nichols  
Address P. O. Box 554  
Clendenin, W.Va. 25045

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_\_\_ / lease  other contract \_\_\_\_\_ / dated January 23, 19 82, to the undersigned well operator from Orville Carney, et al

(IF said deed, lease, or other contract has been 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 X / 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  
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

Burdette Oil & Gas Co., Inc.  
Well Operator  
By Mike Burdette  
Its Executive Vice President

**PROPOSED WORK ORDER**

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

DRILLING CONTRACTOR (IF KNOWN) Burdette Oil & Gas Co., Inc.  
Address P. O. Box 10167, Station "C"  
Charleston, W.Va. 25312

GEOLOGICAL TARGET FORMATION, \_\_\_\_\_

Estimated depth of completed well, 5100' feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 80 feet; salt, 1200 feet.

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

**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	<u>11-3/4</u>		<u>42</u>	<u>X</u>			<u>200'</u>	<u>To surface</u>	Kinds
Fresh Water									
Coal									Sizes
Intermediate	<u>8-5/8"</u>		<u>23</u>	<u>X</u>			<u>2100'</u>	<u>To surface</u>	
Production	<u>4 1/2"</u>		<u>12.5</u>	<u>X</u>			<u>5100'</u>	<u>Back to 8-5/8"</u>	Depths set
Tubing									
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,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling, THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 10-26-82

BY [Signature]

*Survey*

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 \_\_\_\_\_

RECEIVED

AUG 16 1982



IV-35  
(Rev 8-81)

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Date 15 June 1982  
Operator's  
Well No. 1  
Farm Orville Carney, et al  
API No. 47 - 039 - 3824

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: 794.21 Watershed Tuppers Creek  
District: Union County Kanawha Quadrangle Pocatalico 7.5

COMPANY Burdette Oil & Gas Co., Inc.  
ADDRESS P.O.Box 10167, Sta C, Chas, WV  
DESIGNATED AGENT Michael A. Burdette  
ADDRESS 5121 Big Tyler Rd, Chas, WV  
SURFACE OWNER Orville Carney  
ADDRESS 2102 Kaye-Neva Lane, Chas, WV  
MINERAL RIGHTS OWNER Orville Carney, et al  
ADDRESS 2102 Kaye-Neva Lane, Chas, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Martin Nichols  
ADDRESS Box 554, Clendenin, WV

PERMIT ISSUED \_\_\_\_\_  
DRILLING COMMENCED April 19, 1982  
DRILLING COMPLETED May 9, 1982

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.			
11 3/4" <del>13 1/4"</del>	254	254	Surface
9 5/8			
8 5/8	1921	1921	Surface
7			
5 1/2			
4 1/2	4874	4874	Back to 4340
3			
<del>XX</del> 1 1/2		4878	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 4894-4906 feet  
Depth of completed well 4906 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 80 feet; Salt 1100 feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA  
Producing formation Oriskany Pay zone depth 4900-4906 feet  
Gas: Initial open flow 360 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 24 hours  
Static rock pressure 810 psig (surface measurement) after 24 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.

Casing set above geological target formation and pay zone was drilled in open hole.

Has not been fractured or stimulated.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale, Sandy Shale			0	1100	
Salt Sand			1100	1450	Salt Water
Sandy Shale			1450	1545	
Big Lime			1545	1693	
Injun Sand			1693	1860	
Shale & Siltstone			1860	2206	
Coffee Shale			2206	2227	
Berea Sand			2227	2247	
Shale			2247	3470	
Brown Shale			3470	3534	Gas
Shale			3534	3830	
Brown Shale			3830	3990	Gas
Shale			3990	4756	
Marcellous Shale			4756	4796	
Corniferous Lime			4796	4894	
Oriskany			4894	4906	Gas
Total Depth				<u>4906</u>	

(Attach separate sheets as necessary)

Burdette Oil & Gas Co., Inc.  
Well Operator

By: Michael A. Burdette

Date: 15 June 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."