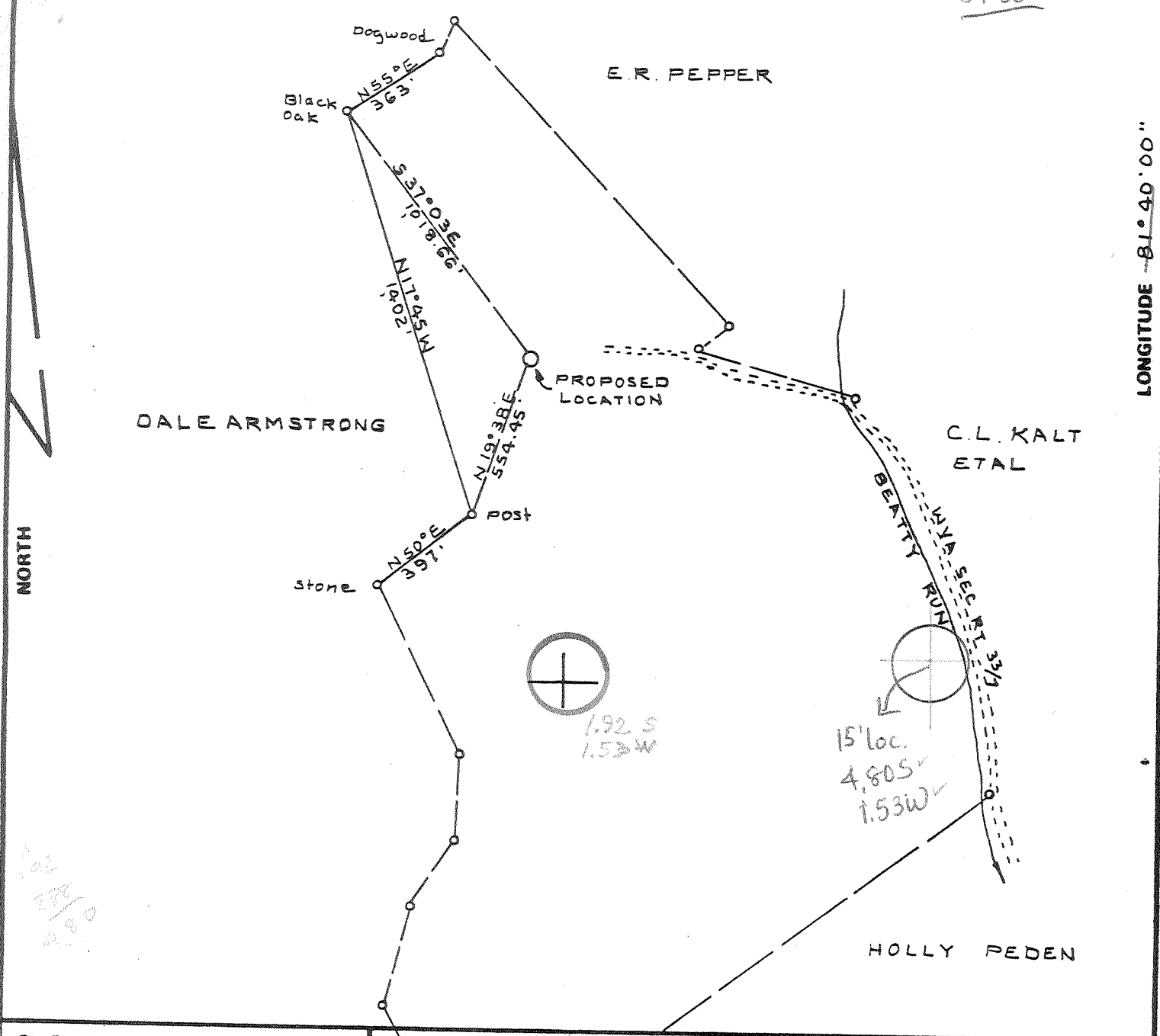


Plot Card / OSD



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1-200'
 PROVEN SOURCE OF ELEVATION USGS E11002
Top knob southwest of well loc.

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) _____
 R.P.E. _____ L.L.S. 92

PLACE SEAL HERE

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



DATE Sept 16, 1981
 OPERATOR'S WELL NO. #2
 API WELL NO. _____
47 - 035 - 1608
 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 766.0' WATERSHED BEATTY RUN
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE SANDYVILLE Rexley NW
 SURFACE OWNER MARY V. CROW HEIRS ACREAGE 104
 OIL & GAS ROYALTY OWNER MARY V. CROW HEIRS LEASE ACREAGE 104
 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 NEWBURG ESTIMATED DEPTH 5650'
 WELL OPERATOR BURDETTE OIL & GAS DESIGNATED AGENT _____
 ADDRESS P.O. BOX 10167 STATION "C" ADDRESS _____
CHARLESTON WVA 25312

OCT 08 1981

DEEP WELL 5-0 Wheaton Run (324)

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APR 26 1984



IV-35 OIL & GAS DIVISION
(Rev) DEPT. OF MINES

Date April 25, 1984
Operator's
Well No. 2
Farm Mary V. Crow
API No. 47 - 035 - 1608

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 X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep X / Shallow /)

LOCATION: Elevation: 765 GL Watershed Beatty Run Watershed
District: Ravenswood County Jackson Quadrangle Ripley

COMPANY Burdette Oil & Gas Co., Inc.

ADDRESS 2303 Roxalan Rd., Dunbar, WV

DESIGNATED AGENT Michael A. Burdette

ADDRESS 5121 Big Tyler Rd., Chas., WV

SURFACE OWNER Mary V. Crow Heirs

ADDRESS Ravenswood, WV

MINERAL RIGHTS OWNER Same as above

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Jerry

Tephabock ADDRESS Rt. 1 Box 101-A, Ripley WV

PERMIT ISSUED September 16, 1981

DRILLING COMMENCED September 26, 1981

DRILLING COMPLETED October 10, 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.			
13-10"	115	115	Surface
9 5/8			
8 5/8			
7	2120	2120	Surface
5 1/2			
4 1/2	5582	5582	1500 FU
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Newburg Depth 5582-5605 feet

Depth of completed well 5617m feet Rotary X / Cable Tools _____

Water strata depth: Fresh 80 feet; Salt 1200 feet

Coal seam depths: --- Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Newburg Pay zone depth 5582-5617 feet

Gas: Initial open flow No-Test 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

(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

(Continue on reverse side)
MAY 7 1984

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

Devonian Brown Shale has not been perforated yet so no production records as to pressure or open flow can be obtained.

Newburg had a natural show but has not been fractured or stimulated.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free and salt water, coal, oil and gas
Clay			0	5	
White Sand Rock			5	25	
Red Shale			25	60	
Sand			60	70	
Sand & Shale			70	112	
Gray Shale			112	120	
Red Rock			120	140	
Gray Shale			140	170	
Red Rock			170	175	
Gray Shale			175	210	
Red Rock			210	235	
Gray Shale			235	240	
Red Rock			240	250	
Gray Shale			250	470	
Sand & Shale			470	608	
Sand			608	685	
Shale			685	800	
Sand & ShaleShale			800	1015	
Shale			1015	1135	
Sand			1135	1200	
Shale			1200	1340	
Sand & Shale			1340	1370	
Shale			1370	1620	
Sand & Shale			1620	1650	
Lime			1650	1710	
Injun Sand			1710	1740	
Shale			1740	1940	
Sand & Shale			1940	2040	
Coffee Shale			2040	2120	
Berea Sand			2120	2210	
Shale			2210	4752	
Corniferous Lime			4752	4848	
Oriskany			4848	4882	
Sand & Shale			4882	5580	
Newburg			5580	5605	
TOTAL DEPTH			5605	5617	

(Attach separate sheets as necessary)

Burdette Oil & Gas Co., Inc.

Well Operator

By: Michael A. Burdette

Date: April 25, 1984

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 all, encountered in the drilling of a well."



Well No. 12
Farm _____
API # 47-035-1608
Date September 16, 1981

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 765.0' Watershed: Beatty Run
District: Ravenswood County: Jackson Quadrangle: Ripley

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

OIL AND GAS ROYALTY OWNER Mary V. Crow Heirs COAL OPERATOR _____
Address Ravenswood, W. Va. Address _____

Acreage 104

SURFACE OWNER Mary V. Crow Heirs COAL OWNER(S) WITH DECLARATION ON RECORD: NAME _____
Address Ravenswood, W. Va. Address _____

Acreage 104

FIELD SALE (IF MADE) TO: NAME _____

Address _____

COAL LESSEE WITH DECLARATION ON RECORD: NAME _____

Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED: NAME _____

Address _____

Telephone _____

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SEP 17 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 / other contract ___ / dated July 29, 1981 to the undersigned well operator from _____

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

Recorded on July 29, 1981, in the office of the Clerk of County Commission of

Jackson County, West Virginia, in Lease #162 Book at page 287. A permit is requested as follows:

PROPOSED WORK: Drill / 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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Burdette Oil & Gas Co., Inc.

Well Operator

By: Michael A. Burdette

Its: Executive Vice President

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Burdette Drilling Company, Inc.

Address P. O. Box 10167, Station "C"

Charleston, W.Va. 25312

GEOLOGICAL TARGET FORMATION Newburg

Estimated depth of completed well 5650' feet. Rotary x / Cable tools /

Approximate water strata depths: Fresh, 150 feet; salt, 1200 feet.

Approximate coal seam depths:

Is coal being mined in this area: Yes / No ✓

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well		
Conductor	10-3/4"		20	X		250	250	To surface	Kinds
Fresh water									
Coal									Sizes
Intermed.	7"		23	X		2100	2100	1200	
Production									Depths set
Tubing	4 1/2"		10.5	X		5650	5650	1000	
Liners	1 1/2"		4	X		5650	5650		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 IS APPROVED AS SUCH BY THE

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 5-21-82.

Frederic B. Burnett
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

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 regularions.

Date: , 19 .

Burdette Oil & Gas Co., Inc.

By:

Its: Executive Vice President