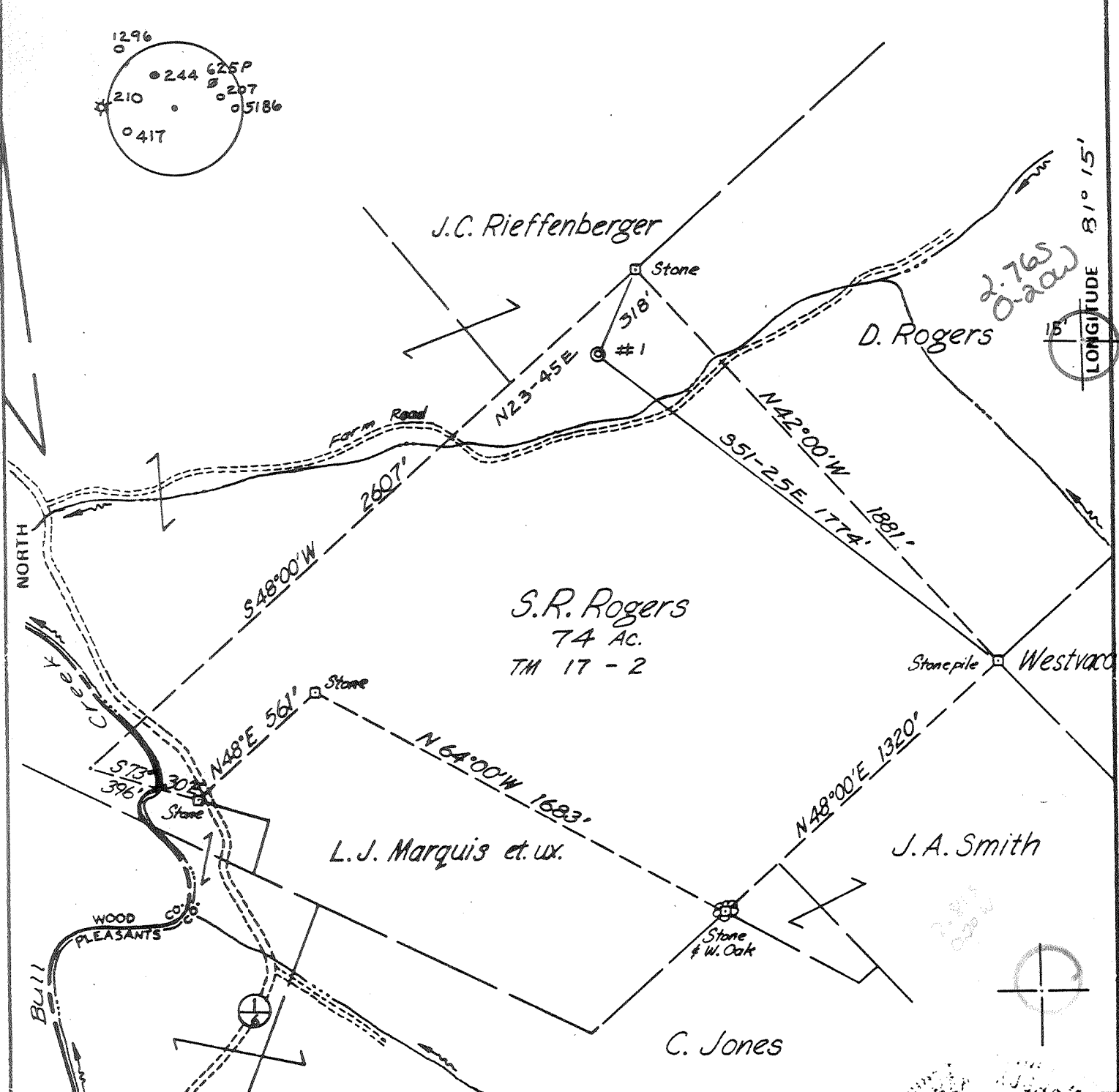


M.S. 9/8/80

Plot Card GSD

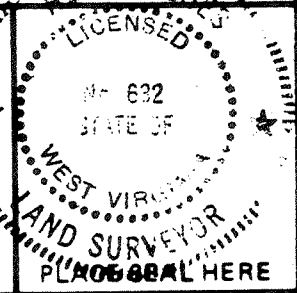
LATITUDE 39° 20' (7.5)



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION USGS BM 755'

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) Neal Hughes  
 R.P.E. \_\_\_\_\_ L.L.S. 632



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE AUGUST 27, 1982  
 OPERATOR'S WELL NO. ROGERS #1  
 API WELL NO. 47 - 073 - 1520  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 825' WATER SHED BRANCH OF BULL CREEK  
 DISTRICT JEFFERSON COUNTY PLEASANTS  
 QUADRANGLE WILLOW ISLAND (7.5') MARIETTA (15') SE  
 SURFACE OWNER S. R. ROGERS ACREAGE 74  
 OIL & GAS ROYALTY OWNER D. ROGERS, W. LIVINGSTON, G. ROGERS, Rm ROGERS, 2 LEASE ACREAGE 74  
 LEASE NO. Rm ROGERS

PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) DEEP WELL

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5800'  
 WELL OPERATOR B+L OIL COMPANY DESIGNATED AGENT C. JO McGRADY  
 ADDRESS 1420 7TH STREET ADDRESS 1420 7TH STREET  
PARKERSBURG, W.VA. 26101 PARKERSBURG, W.VA. 26101

SEP 13 1982

RECEIVED

APR 25 1983



IV-35 (Rev 8-81)

State of West Virginia DEPT. OF MINES Department of Mines Oil and Gas Division

Date MARCH 30, 1983 Operator's Well No. # 1 Farm S.R. ROGERS API No. 47-073-1520

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

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

LOCATION: Elevation: 825' Watershed BRANCH OF BULL CREEK District: JEFFERSON County PLEASANTS Quadrangle WILLOW ISLAND AND MARIETTA

COMPANY Alan Gable Oil Development Co. ADDRESS P O BOX 165, DAVISVILLE, WV DESIGNATED AGENT Ron Kudella ADDRESS P O BOX 165, DAVISVILLE, WV SURFACE OWNER S.R. ROGERS ADDRESS ST MARYS, WV 26170 MINERAL RIGHTS OWNER D. Rogers, W. Livingston, Ron Rogers C. Rogers, R. Rogers ADDRESS St Marys, WV 26170 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Gen Del. Middlebourne, WV

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

PERMIT ISSUED #1520 DRILLING COMMENCED Sept. 26, 1982 DRILLING COMPLETED Oct. 5, 1982 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5800 feet Depth of completed well 5426 feet Rotary / Cable Tools Water strata depth: Fresh feet; Salt feet Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA Producing formation Devonian Pay zone depth 4765-5075 feet Gas: Initial open flow 880 Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow 800 Mcf/d Oil: Final open flow 5 Bbl/d Time of open flow between initial and final tests 24 hours Static rock pressure 420 psig (surface measurement) after 12 hours shut in (If applicable due to multiple completion--)

Second producing formation Gordon, Gantz Pay zone depth 2132-2942 feet Gas: Initial open flow AA Mcf/d Oil: Initial open flow AA 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)

PLEAS. 1520

MAY 02 1983

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

Rhinestreet	5048-5075	18 holes	1.5 MMcf	N2
	4765-4866	29		
	2878-2942	15		
Up Dev	2621-2645	14	1.5 MMcf	N2
Indeff	2132-2142	11		

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
NO SAMPLES FROM 0 to 1280					
Maxon			1280	1324	
Big Lime			1377	1460	
Keener			1460	1490	
Big Injun			1490	1536	
Squaw			1544	1590	
Berea			1996	2002	
Gantz			2101	2116	
Gordon			2382	2400	
Upper Speechley			3284	3314	
Riley			3943	4013	
Benson			4014	4020	
Alexander			4262	4364	
✓ Rhinestreet			4801	5212	4765 5048 2002 2002 2763 3046
			no samples below 5212		5426 2002 3424
				20,5426	

(Attach separate sheets as necessary)

Alan Gable Oil Development Co.

Well Operator

By: Jubal Terry

Date: March 30, 1983

**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 strata, encountered in the drilling of a well."

RECEIVED

FORM IV-2  
(Obverse)  
(12-81)

SEP - 8 1982  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES



Date: AUG. 27, 19 82

Operator's Well No. ROGERS #1

API Well No. 47 - 073 1520

State County Permit

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

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 825' Watershed: BRANCH OF BULL CREEK  
District: JEFFERSON County: PLEASANTS Quadrangle: WILLOW ISLAND,

WELL OPERATOR B & L OIL CO. DESIGNATED AGENT C. JO MCCRADY MARIETTA  
Address 1420 7th st Address 1420 7thst  
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

OIL & GAS ROYALTY OWNER D. ROGERS, W. LIVINGSTON, G. ROGERS COAL OPERATOR         
RON ROGERS, ROB ROGERS Address         
Address ST. MARYS, WV 26170 Address n/a

Acres 74 COAL OWNER(S) WITH DECLARATION ON RECORD:  
SURFACE OWNER S.R. ROGERS Name         
Address ST. MARYS, WV 26170 Address         
Acres 74 Name         
Address       

FIELD SALE (IF MADE) TO:  
Address       

OIL & GAS INSPECTOR TO BE NOTIFIED Name ROBERT A. LOWTHER  
Address GEN. DEL.  
MIDDLEBOURNE; WV 26149

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 FEB. 24, 19 82, to the undersigned well operator from listed above

(IF said deed, lease, or other contract has been recorded:)  
Recorded on MARCH 5, 19 82, in the office of the Clerk of the County Commission of PLEASANTS County, West  
Va., in        Book 172 at page 378 364 to. 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 COMMIS-  
SION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

RECEIVED  
SEP 08 1982  
OIL & GAS DIVISION  
DEPT. OF MINES  
BLANKET BOND

B & L OIL CO.  
Well Operator  
By C. J. McCrady  
Its        DESIGNATED AGENT

**PROPOSED WORK ORDER**

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

DRILLING CONTRACTOR (IF KNOWN) B & L OIL CO.  
Address 1420 7th St  
PARKERSBURG, WV 26101

GEOLOGICAL TARGET FORMATION, MARCELLUS SHALE

Estimated depth of completed well, 5800 feet Rotary xxx / Cable tools      /

Approximate water strata depths: Fresh, 70 feet; salt, 625 feet.

Approximate coal seam depths: N/A Is coal being mined in the area? Yes      / No xx /

**CASING AND TUBING PROGRAM**

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	11 3/4	J55				350	350		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8	J55	24 1/2	x		1025	1025	to surface	
Production	4 1/2	J55	10.5	x			5800	500 sks.	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 5-9-83  
BY [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