

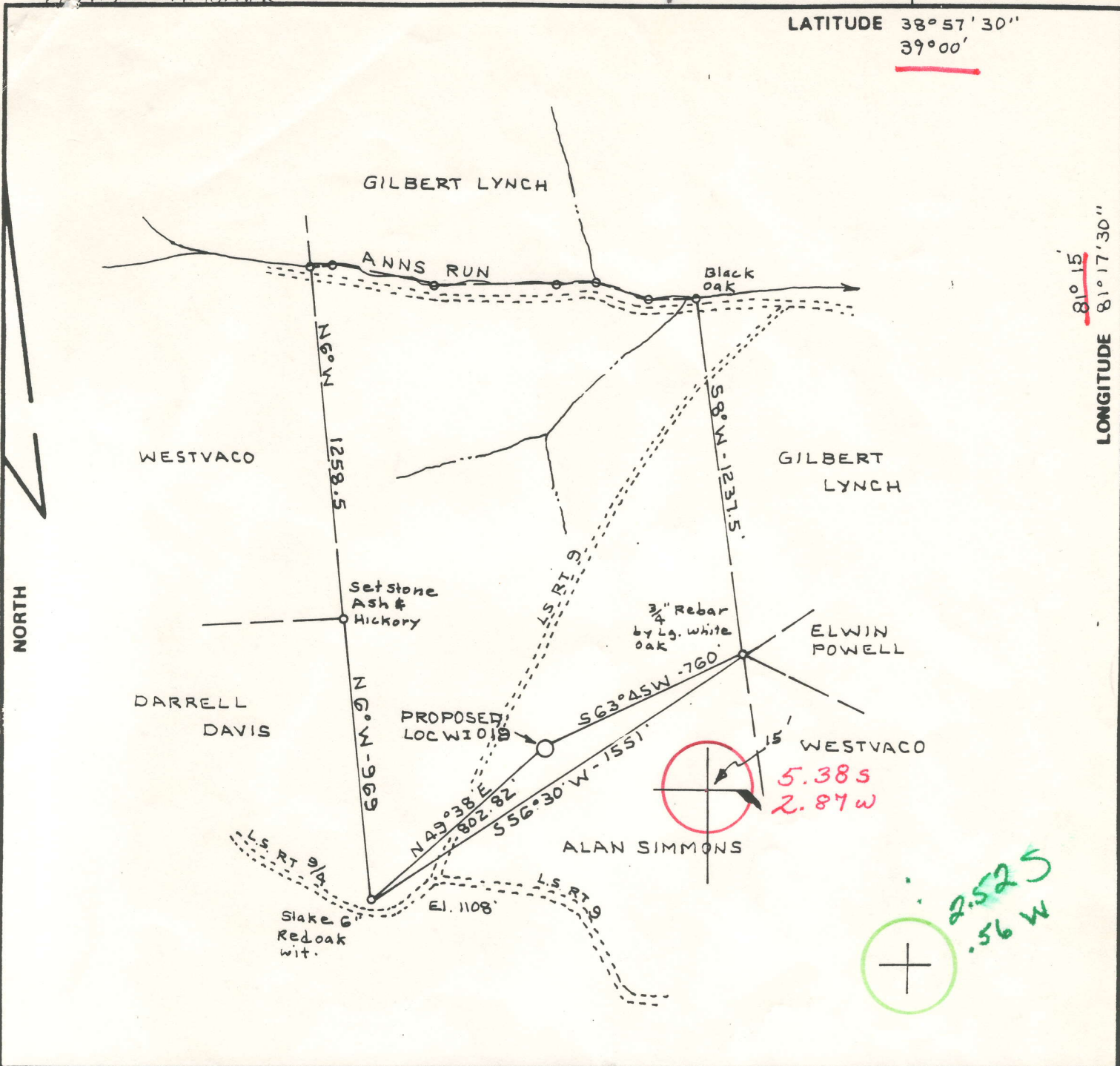
M.A. 11/30/82

Plot Card CSD

3000'

LATITUDE 38° 57' 30"
39° 00'

LONGITUDE 81° 17' 30"
81° 15'



FILE NO. BK 73 P 91
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1-200'
 PROVEN SOURCE OF ELEVATION U.S.G.S Road Forks 600' SW Loc. E1. 1108'

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. Y. Valley Jr.
 R.P.E. _____ L.L.S. 92

PLACE SEAL HERE

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



DATE NOV 24, 1982
 OPERATOR'S WELL NO. WI-019
 API WELL NO. _____
47 - 105 - 1025
 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 ___ SHALLOW X
 LOCATION: ELEVATION 1064.52 WATERSHED ANNS RUN OF WEST FORK
 DISTRICT SPRING CREEK COUNTY WIRT
 QUADRANGLE BURNING SPRINGS 7.5' Spencer 15' NE
 SURFACE OWNER GILBERT LYNCH ACREAGE 57.5
 OIL & GAS ROYALTY OWNER GLEN W. ROBERTS, ESTATE LEASE ACREAGE 250
 LEASE NO. 1886
 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 MARCELLUS ESTIMATED DEPTH 5200'
 WELL OPERATOR BDW VALLEY PETRO. INC. DESIGNATED AGENT W.E. STOVER
 ADDRESS 600 COMMERCE SQUARE ADDRESS BOX 235
CHARLESTON WVA 25301 CULLODEN WVA 25510

DEC 6 1982

M.J.H. Deep? 6-6 Annamariah (168)

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

1st stage frac Perforation intervals 5070'-5516' (23 holes)
N2 pumped 1,000,000 scf 600 gals of HCL 15%. Max.pressure = 2600#, Min.pressure 2300#. Injection rate = 58,200 scf/min.
Partial Ballout.

Rhinestreet

SONYEA

2nd stage frac N2 pumped = 1,200,000 scf, 750 gals of HCL at 15%. Max.pressure = 2500#. Min.pressure=2250#. Injection Rate 61,500 scf/min. Partial ballout. 3672'-5002' (30 holes).

Huron

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Top Soil			0	8	Electric Log Tops
Red Rock			8	161	K:B.=1074
Shale	Gray	Hard	161	300	Elev.=1064
Shale	Red	Soft	300	347	
Shale			347	375	Gbr.Lime = 1739'-1876'
Shale Sand			375	1190	Injun Sand 1876'-1954'
Shale			1190	1646	Weir Shale = 1954'-2299'
Salt Sand			1646	1700	Sunbury Shale = 2299-2374
Salt Sand			1700	1880	Devonian Sh.2574-5777
Sand			1880	2237	
Shale	Gray		2237	2500	
Shale	Gray&Brown		2500	<u>5777</u>	
	- deep - ? onon?			Marcellus @T.D.	5777 2374 3403
				ONON DAGA @ 5715 or 5720	5777 1065 4712

*1954
1876
78*
*2095
78
2173*

(Attach separate sheets as necessary)

Bow Valley Petroleum, Inc.

Well Operator

By: *Robert Porty*

Date: *12/19/83*

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
... encountered in the drilling of a well."

