



LONG. 80°18'57.2"

6,890'

LATITUDE 39°05'00"

# SHRADER LEASE

## 13 ACRES±

FRANKLIN L. & CHARLES R. SUTTON  
67.27 ACRES±  
(SURFACE)

STONE  
(FOUND)

S 87°15' E  
767.25'

S 72°40' E  
231.00' E/C

47-041-4347

WELL NO. 1  
47-041-4350-F  
STATE PLANE  
COORDINATES

(N) 758,225  
(E) 2,194,223

N 66°37' W  
1506.75'

DOROTHY DAWSON  
20 ACRES±  
(SURFACE)

M.C. MELTON  
13 of 28.5 ACRES±  
(SURFACE)

N 13°46' W  
848.37'

N 02°30' W  
1085.70'

S 47°15' W  
1402.00'

ACCESS  
ROAD

WELL NO. 1  
47-041-4350-F

M.C. MELTON  
15.5 ACRES±  
(SURFACE)

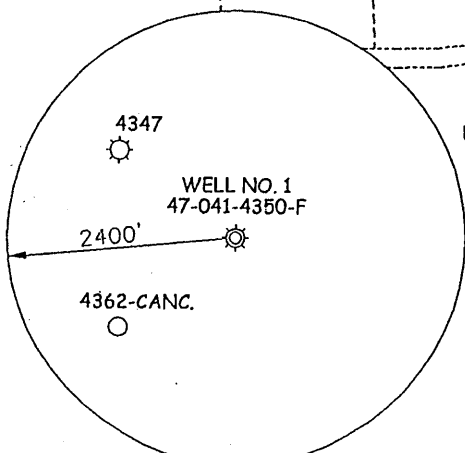
MARY CUTRIGHT  
14.25 ACRES±  
(SURFACE)

### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD'27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 12/14/04.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED AUGUST 14, 2002 AS PREPARED BY DENNIS E. MILLER FOR A.P.I. NO. 47-041-4350.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LEWIS COUNTY IN DECEMBER, 2004.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
6. WELL A.P.I. #47-041-4350 TAGGED IN FIELD AS 47-041-4351.

## WELL NO. 1

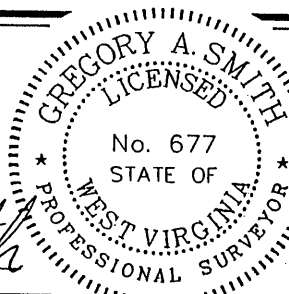
### A.P.I. 47-041-4350-F



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677

*Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE DECEMBER 15, 20 04

OPERATORS WELL NO. SHRADER #1

API WELL NO. 47 - 041 - 4350-F  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 5655P1 (179-47)

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 300'

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,233' WATERSHED BULL LI. K  
DISTRICT HACKERS CREEK COUNTY LEWIS QUADRANGLE BERLIN 7.5'

SURFACE OWNER M.C. MELTON ACREAGE 13 of 28.5±  
ROYALTY OWNER ALMA SHRADER LEASE ACREAGE 13±

PROPOSED WORK: LEASE NO. \_\_\_\_\_  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BAYARD - 5TH SAND  
ESTIMATED DEPTH 2,700'

WELL OPERATOR CLOWSER WELL SERVICE, INC. DESIGNATED AGENT JOHN CLOWSER  
ADDRESS ROUTE 3 BOX 27-A SALEM, WV 26426 ADDRESS ROUTE 3 BOX 27-A SALEM, WV 26426

FEB 04 2005

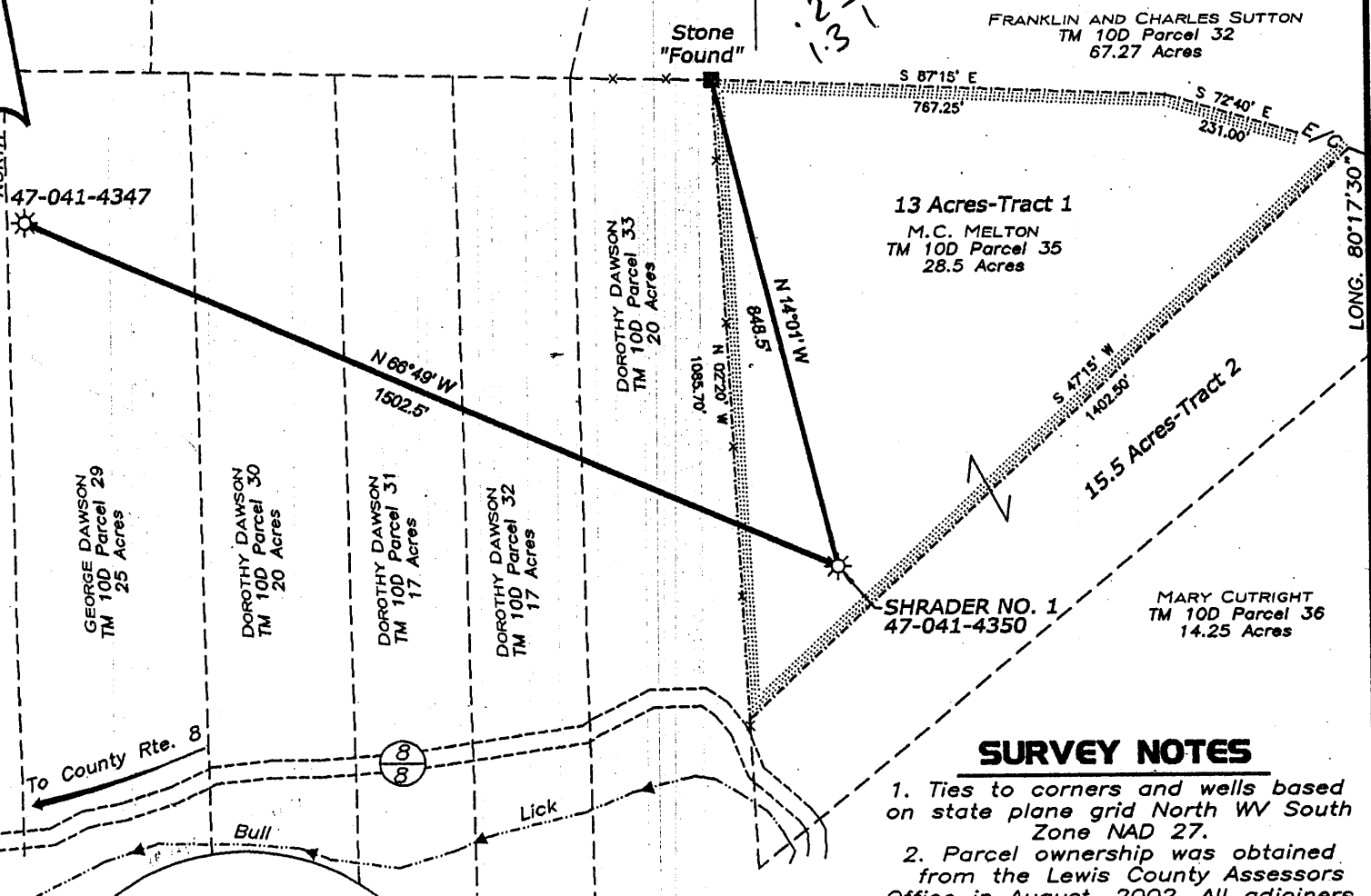
COUNTY NAME **LEW**  
PERMIT **4350 F**

LONG. 80°18'57.0" 6,900'

LAT. 39°05'00"

# SHRADER LEASE 13 ACRES±

# SHRADER NO. 1 47-041-4350

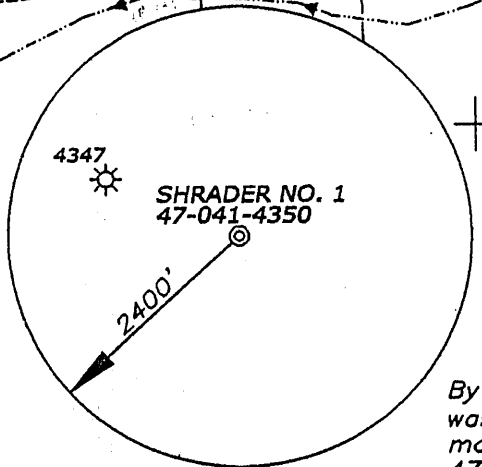


### SURVEY NOTES

1. Ties to corners and wells based on state plane grid North WV South Zone NAD 27.
2. Parcel ownership was obtained from the Lewis County Assessors Office in August, 2002. All adjoiners & surface information shown hereon are listed to more clearly relate the well location to it's surroundings.
3. Lease information shown hereon taken from a plat dated 8/04/97 as prepared by Richard J. Prine.
4. Wells shown within the 2400' radius spot circle are current as of August, 2002 per Oil & Gas Information Services well location mapping.

INDICATES WELL SPOT LOCATION ON U.S.G.S. 7.5' TOPOGRAPHIC MAPS

State Plane Coordinates	
N:	758,222
E:	2,194,225



By field survey on August 13, 2002 the well was tagged "4351". By oil and gas location mapping and survey data, the well maps as 47-041-4350.

RDZJN W1569 File: w1569\_pl.dwg

**R. D. ZANDE & ASSOCIATES, INC.**  
1 Moore Avenue  
Buckhannon, WV 26201  
(304) 472-7140

DATE August 14, 2002

SCALE 1" = 300' ACCURACY 1/200

OPERATORS WELL No. Shrader No. 1

47 - 041 - 4350F

API No.

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 rules issued and prescribed by the Division of Environmental Protection.

**DENNIS E. MILLER**  
LICENSED  
No. 991  
STATE OF WEST VIRGINIA  
PROFESSIONAL SURVEYOR

*[Signature]*  
P.S. #991

GAS:  
Production  Storage  \*Deep  \*Shallow

**STATE OF WEST VIRGINIA**  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

Drill  Drill Deeper  Redrill  Convert  Fracture/ Stimulate  \*Plug off to Formation  Perforate New Formation  Plug and Abandon  Clean/ Replug  Other Than Above  If "Other" Please see Details below—

DETAILS OF PROPOSED WORK Perforate and Fracture Bayard Formation

\*TARGET FORMATION Bayard

ESTIMATED DEPTH 2600'

ELEVATION SOURCE Benchmark Elevation 1093'

WATERSHED Bull Lick

ELEVATION 1248' DISTRICT Hackers Creek

COUNTY Lewis TOPO QUAD Berlin 7.5'

SURFACE OWNER M.C. Melton

ACREAGE 13 of 28.5 Acres

ROYALTY OWNER Alma Shrader

LEASE ACREAGE 13 Acres

SEP 13 2002

WELL OPERATOR Mountain "V" Oil and Gas, Inc.

ADDRESS P.O. Box 470 Bridgeport, WV 26330

COMPANY AGENT S. Michael Shaver

ADDRESS P.O. Box 470 Bridgeport, WV 26330

Copyright © (2002) R.D. Zande & Associates, Inc. LEW 4350 F

TOPO  
LOC

7.5

0.215  
1.30

FRANK SUTTON  
67.27 AC

STONE

S-87-15-E  
767.25'

S-72-40-E  
231'

M.C. MELTON  
13 AC

S-7-50-E  
819.6'

M.C. MELTON  
15.5 AC

S-47-15-W  
1402.5'

GEORGE DAWSON  
20 AC

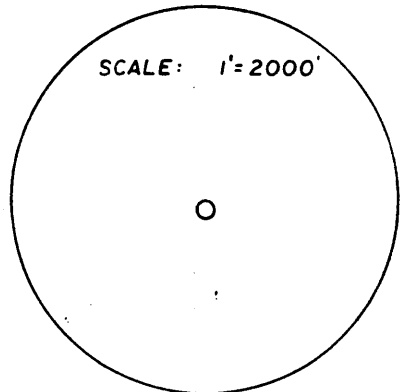
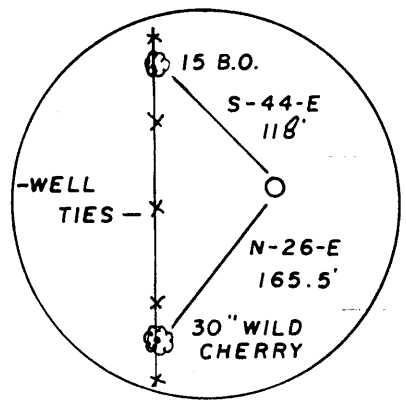
N-2-20-W  
1085.7'

N-13-53-E  
281'

STONE

SEC. RT. 8/8

BULL LICK



LONGITUDE 80° 17' 30"

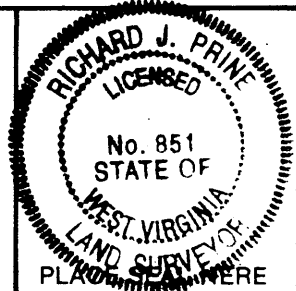
NORTH

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION BM ELV. 1107 RD.  
 INTER. 3000' ± WEST OF WELL

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 ENERGY.

(SIGNED) Richard J. Prine  
 R.P.E. \_\_\_\_\_ L.L.S. 851



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 DIVISION OF OIL AND GAS



DATE 8 / 4, 19 97  
 OPERATOR'S WELL NO. 1  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1242 WATERSHED JESSE RUN  
 DISTRICT HACKERS CREEK COUNTY LEWIS  
 QUADRANGLE BERLIN 7.5'

SURFACE OWNER M. C. MELTON ACREAGE 13  
 OIL & GAS ROYALTY OWNER ALMA SHRADER LEASE ACREAGE 13  
 LEASE NO. \_\_\_\_\_

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 SYCAMORE ESTIMATED DEPTH 7200 6-6 (153)  
 WELL OPERATOR BOGGS NATURAL GAS CO. DESIGNATED AGENT HARRY BOGGS  
 ADDRESS SPENCER, WV 25276 ADDRESS SPENCER, WV 25276

COUNTY NAME LEW

PERMIT 4350

FORM WW-6

WR-35

15-May-98

API # 47- 41-0435I

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

4350

Well Operator's Report of Well Work

Farm name: MELTON, M C Operator Well No.: SHRADER #1

LOCATION: Elevation: 1,242.00 Quadrangle: BERLIN

District: HACKERS CREEK County: LEWIS  
Latitude: 1200 Feet South of 39 Deg. 5 Min. 0 Sec.  
Longitude 6800 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: BNG, INC. ~~C/O BALTIMORE 6~~  
P. O. BOX 1475/ SP. GARDENS  
BALTIMORE, MD 21203-0000

Agent: ~~JOHN T. KIZER~~ Jeffery C. Boggs

Inspector: TIM BENNETT  
Permit Issued: 05/15/98  
Well work Commenced: 5-26-98  
Well work Completed: 6-7-98  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary xxx Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 7638  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) 980± 2"

Is coal being mined in area (Y/N)? y  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8	188'	188	surface
7"	2005	2005	surface
4 1/2"	5195	5195	toc 1770

RECEIVED  
Office of Oil and Gas  
Permits  
NOV 18 1998  
W. Virginia  
Department of Environmental Protection

OPEN FLOW DATA

Producing formation Alexander, Benson, Balltown Pay zone depth (ft) 4940-3540  
Gas: Initial open flow 10 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 500 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1250 psig (surface pressure) after \_\_\_\_\_ Hours  
  
Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ 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 pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: BNG, Inc. ~~C/O BALTIMORE 6~~ & ~~FERRIS~~  
By: [Signature]  
Date: 11-10-98

LEW 4350

1st stage	4940-4730	20 shots	40,000 # sand
2nd stage	4610-4550	20 shots	40,000 # sand
3rd stage	4440-4200	20 shots	40,000 # sand
4th stage	3700-2980	25 shots	40,000 # sand

0	1800	sand/sha;le
1800	1935	Lime
1935	2100	sand/shale
2100	2200	sand
2200	2440	shale
2440	2455	4th sand
2455	2460	shale
2460	2470	5th sand
2470	2510	shale
2510	2550	Bayard
2550	3280	shale
3280	3350	Balltown stringers
3350	4550	shale
4550	4590	Benson
4590	4710	shale
4710	4800	1 st Alexander
4800	4900	shale
4900	5000	2 nd Alexander
5000	6680	shale
6680	6700	Marvella
6700	6940	shale
6940	7000	Sycamore
7000	7644	shale TD