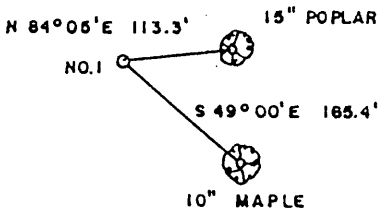


**WELL REFERENCES**



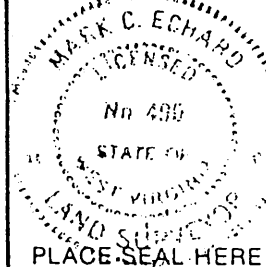
1" = 200'

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB N of LEASE  
 ELEV. = 1596'

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) Mark C. Echard  
 R.P.E. \_\_\_\_\_ L.L.S. 490



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS



DATE MAY 8 2000  
 OPERATOR'S WELL NO. SHIBEN NO. 1  
 API WELL NO.

47-103-01805  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1450' WATERSHED RACCOON RUN OF WILLEY FORK  
 DISTRICT GRANT COUNTY WETZEL

QUADRANGLE BIG RUN 7.5'  
 SURFACE OWNER MEADOW RUN FARM, INC. ACREAGE 128.88  
 OIL & GAS ROYALTY OWNER JOSEPH AND MINNIE SHIBEN ESTATE LEASE ACREAGE 129

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 SPEECHLEY ESTIMATED DEPTH 3900'  
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON  
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99  
ALMA, WV 26320 ALMA, WV 26320

**JUN 23 2000**

6-6 47

FORM WW-6

S. 0199  
 "00,06,08 EUNIGNOT"

COUNTY NAME WETZEL  
 PERMIT 1805

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

Reviewed Ar

Well Operator's Report of Well Work

Farm Name: Shiben  
Location: Elevation: 1450'  
District: Center  
Latitude: 850 Feet South of  
Longitude: 350 Feet West of  
Operators Well No.: #1  
Quadrangle: Big Run 7.5'  
County: Wetzell  
39 Deg. 40 min. 00sec.  
80 Deg. 30 min. 00sec.

Company: D.A.C.  
P. O. 99  
Alma WV 26320  
casing tubing used in drilling left in well cement fill up sks

Agent: Kenneth Mason  
9 5/8 220 220 75 sks

Inspector: Randall Mick  
Permit Issued: 06/21/00 6 5/8 1727 1727 150 sks

Well Work Commenced: 08/05/00  
Well Work Completed: 08/12/00 4 1/2 3702 3611 170 sks

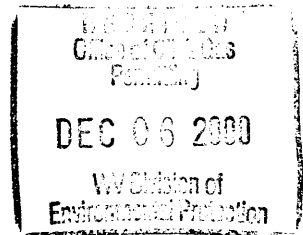
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 3702'

Fresh Water Depths (ft) 1850

Salt Water Depths (ft) N/A

Is coal being mined in area (Y/N) N

Coal Depths (ft): N/A



OPEN FLOW DATA

Producing formation Gordon  
Gas: Initial open flow 133 MCF/D Oil: Pay zone depth (ft) 3148-3440  
Final open flow 189 MCF/D Initial open flow 0 BBL/D  
Static Rock Pressure Final open Flow show BBL/D  
gpsig (surface pressure) after 48 Hours

Second producing formation Big Injun  
Gas: Initial open flow \* MCF/D Oil: Pay zone depth (ft) 2482-2494  
Final open flow \* MCF/D Initial open flow 0 BBL/D  
static rock pressure \* psig (surface pressure) after \* Hours  
Final open flow 0 BBL/D

\* = commingled zones

For: D.A.C.

By: Kenneth R. Mason

Date: 11-17-00

JAN 5 2001

ME 1805

Stage	Formation	Perfs	Sand	N2
08-21-00	Shiben #1			
1	4th, 5th	3148-3440 18 holes	150 sks	255,000 scf
2	Big Injun	2482-2494 16 holes	200 sks	222,000 scf

ISIP = 2149#  
5 min = 2127#

#### Drillers Log

Formation	Top	Bottom
Fill	0	10
Sd/Sh	10	240
Sd	240	329
Sd/Sh	329	726
Sd	726	766
Sd/Sh	766	926
Coal	926	933
Sd/Sh	933	1714
Sd	1714	2060
Sd/Sh	2060	2195
LL	2195	2224
Sh	2224	2228
BL	2390	2460
Sd	2460	2650
Sh	2650	3230
Sd	3230	3350
Sh	3350	3702
Td	3702	

#### Electric Log Tops

Formation	Depth top
Big Lime	239
Big Injun	240
Berna	270
Gordon	318
4th	320

gas ck @ 3400 = 133 mcfs  
gas ck @ 17d = 133 mcfs