

AS 6/29/99

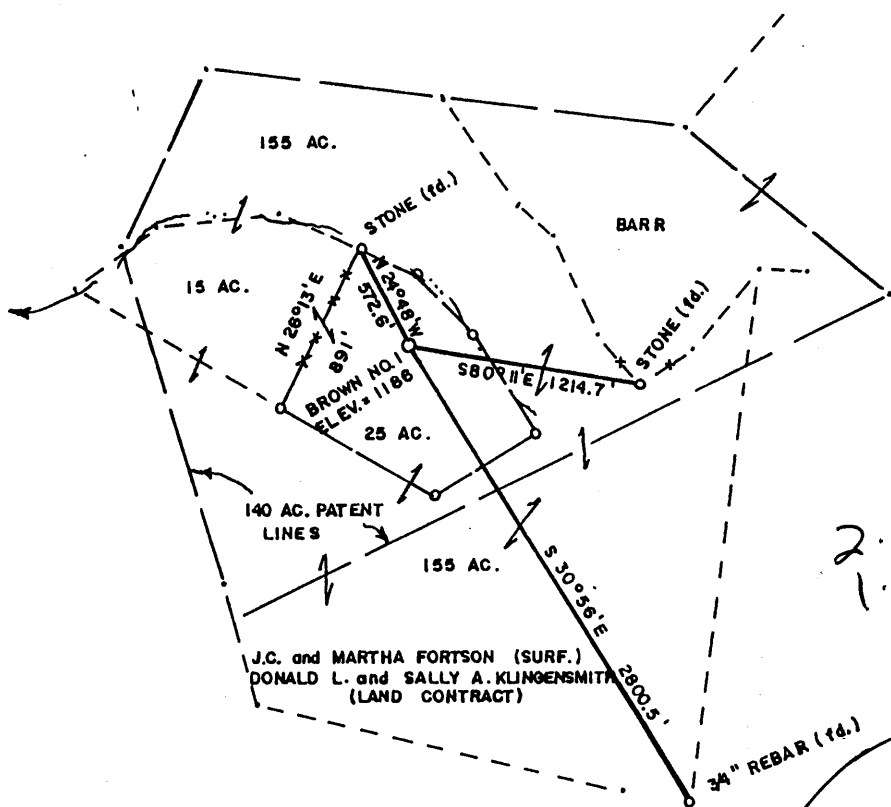
7600' W 7100' W

LATITUDE 39° 37' 30"

BROWN LEASE 25 AC.

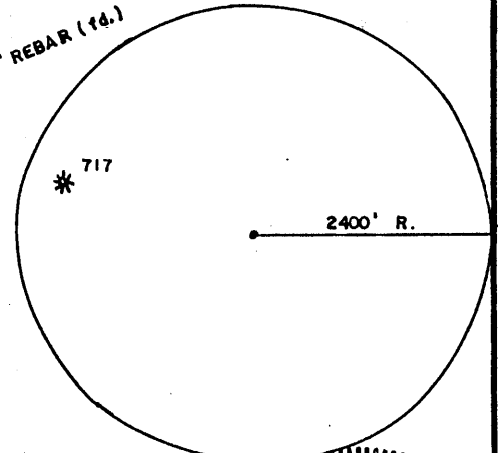
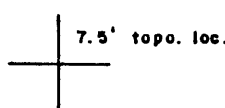
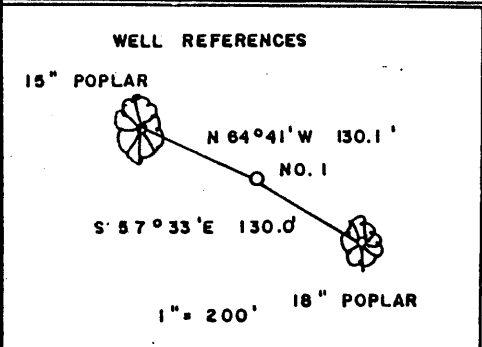
S 081' 21"

LONGITUDE 80° 30' 00"



2.315
1.44W

NORTH



FILE NO. _____

DRAWING NO. _____

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION TOP OF KNOB

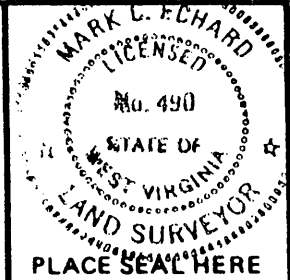
SOUTH OF LOC. ELEV. = 1545'

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.

Mark C. Echard

(SIGNED) MARK C. ECHARD

R.P.E. _____ L.L.S. 490



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

FORM IV-6 (8-78)



DATE MAY 21, 19 99

OPERATOR'S WELL NO. BROWN NO. 1

API WELL NO. 47-103-01785

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 1186' WATER SHED WILLEY FORK

DISTRICT GRANT COUNTY WETZEL

QUADRANGLE BIG RUN 7.5' LAND CONTRACT

SURFACE OWNER J.C. and MARTHA FORTSON (DONALD L. KLINGENSMITH) ACREAGE 25

OIL & GAS ROYALTY OWNER J. M. BROWN HEIRS LEASE ACREAGE 25

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

JUL 01 1999

WET 1785

BIAS BLUEPRINT Huntington, W. V. 579536

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

AD

Well Operator's Report of Well Work

Farm Name: Klingensmith
Location: Elevation: 1186'
District: Grant
Latitude: 7600 Feet South of
Longitude: 12180 Feet West of

Operators Well No.: Brown #1
Quadrangle: Big Run 7.5'
County: Wetzel
39 Deg. 37 min. 30sec.
80 Deg. 30 min. 00sec.

Company: D.A.C.

P. O. 99
Alma, WV 26320

casing used in left cement
tubing drilling in well fill up sks

Agent: Kenneth Mason

9 5/8 235 205 66

Inspector: Randall Mick

Permit Issued: 06/16/99

6 5/8 1675 1633 180

Well Work Commenced: 08/03/99

Well Work Completed: 08/13/99

4 1/2 3554 3451 175

Rotary X Cable _____ Rig

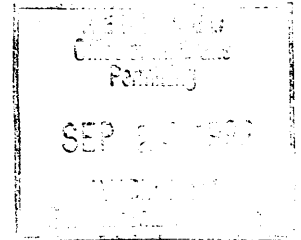
Total Depth (feet) 3554'

Fresh Water Depths (ft) 168'

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 4th, Gordon

Pay zone depth (ft) 2990-3070

Gas: Initial open flow NS MCF/D

Oil: Initial open flow 0 BBL/D

Final open flow 330 MCF/D

Final open Flow show BBL/D

Static Rock Pressure 165

psig (surface pressure) after 48 Hours

Second producing formation Big Injun

Pay zone depth (ft) 2230-2340

Gas: Initial open flow * MCF/D

Oil: Initial open flow 0 BBL/D

Final open flow * MCF/D

Final open flow 0 BBL/D

static rock pressure *

psig (surface pressure) after * Hours

* = commingled zones

For: D.A.C.

By: *Kenneth S. Mason*

Date: 09-20-99

SEP 27 1999

WET 1785

Stage	Formation	Perfs	Sand	N2
08-23-99	Brown #1			
1	4th, Gordon	3094-3300 17 holes	265 sks	257,000 scf
2	Big Injun	2227-2324 17 holes	168 sks	232,000 scf

ISIP = 2967#
5 min = 2729#'

Drillers Log

Formation	Top	Bottom	
Fill	0	03	
RR	03	10	
Sd/Sh	10	54	
Coal	54	59	damp @ 135'
Sh/Sh	59	921	
Coal	921	926	
Sd/Sh	926	1095	
RR	1095	1110	2" fresh water @ 1844
Sd/Sh	1110	2095	Oil @ 2010
LL	2095	2125	
Sh	2125	2135	
BL	2135	2249	
Sd	2249	2365	
Sd/Sh	2265	2990	
Sd	2990	3020	gas ck @ 2300 = no show
Sd/Sh	3020	3554	gas ck @ 3554 = 10/10 in 1" w/w
TD	3554		

Electric Log Tops

Formation	Depth top
Big Lime	2136
Big Injun	2190
Berea	2518
Gordon	2963
4th	3042

