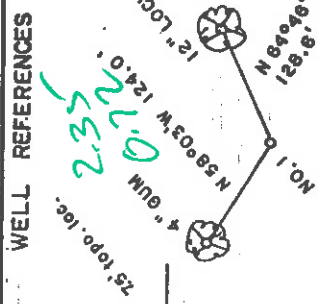
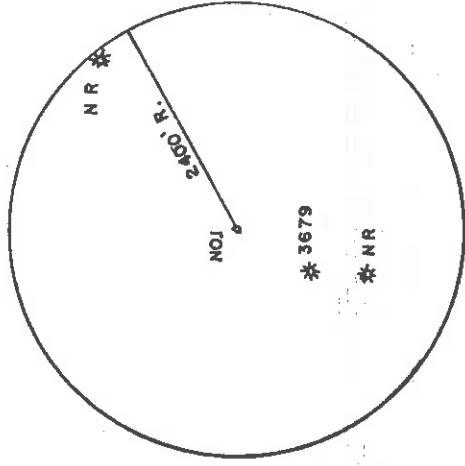
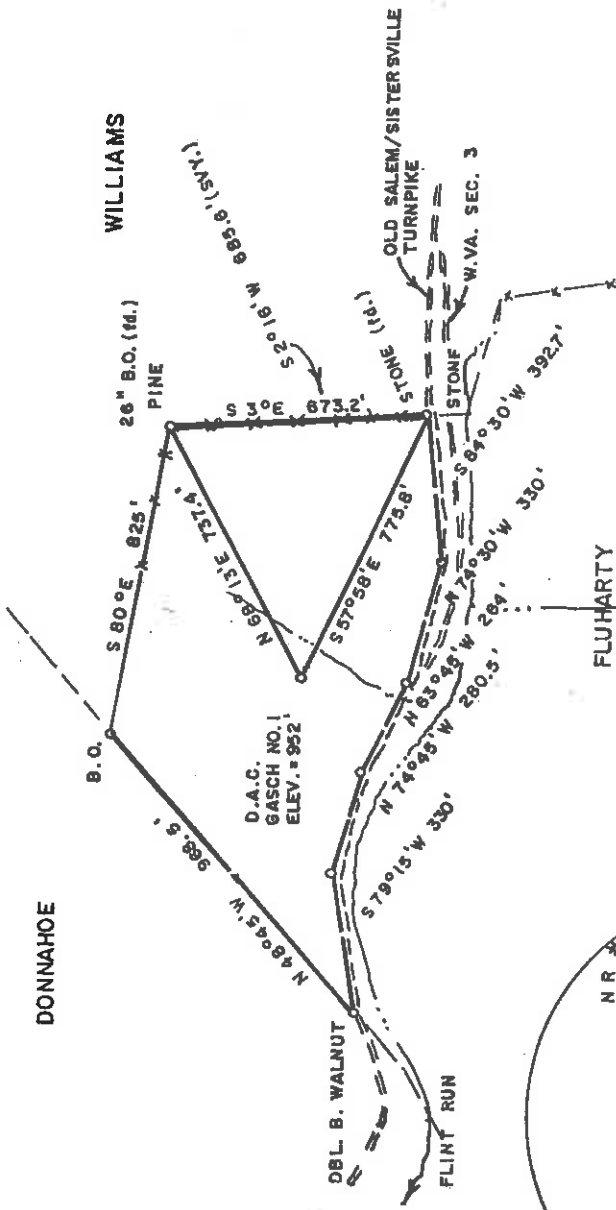


GASCH LEASE 17.9 AC.±

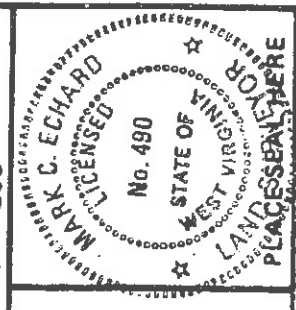
DAVID BOWYERS and RONALD CUMBERLEDGE
16.9 AC. of 17.9 AC. - SURF.

DONNAHOE



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
 NW OF LEASE ELEV. = 1232'

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) Mark C. Echard
 MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506



DATE MAY 1 19 98
 OPERATOR'S WELL NO. GASCH NO. 1
 API WELL NO. _____
 47 - 017 - 04435
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 952' WATER SHED FLINT RUN
 DISTRICT GRANT COUNTY DODDRIDGE

QUADRANGLE SMITHBURG 7.5'
 SURFACE OWNER DAVID BOWYERS & RONALD CUMBERLEDGE ACREAGE 16.9
 OIL & GAS ROYALTY OWNER STELLA DARNELL LEASE ACREAGE 17.9

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 BIG INJUN ESTIMATED DEPTH 2400'
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ALMA, WV 26320
 P.O. BOX 99 ALMA, WV 26320

0000 4435

LATITUDE 39° 22' 30" LONGITUDE 80° 40' 00"
 3780' W
 12,420

WR-35

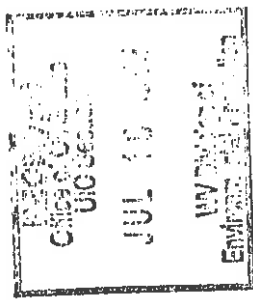
API# 47-017-04435

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

AS

Reviewed

Well Operator's Report of Well Work



Farm Name: Boyer Dr, Cumberland, R. Operators Well No.: Gasch #1
Location: Elevation: 952' Quadrangle: Smithburg 7.5'
District: Grant County: Doddridge
Latitude: 975 Feet South of 39 Deg. 22 min. 30sec.
Longitude: 3780 Feet West of 80 Deg. 40 min. 00sec.

Company: D.A.C.
P. O. 99
Alma, WV 26320

Agent: Kenneth Mason

Inspector: Mike Underwood
Permit Issued: 05/26/98
Well Work Commenced: 06/18/98
Well Work Completed: 06/23/98
Rotary X-Cable Rig
Total Depth (feet) 2208'
Fresh Water Depths (ft) 107'
Salt Water Depths (ft) 1461'
Is coal being mined in area (Y/N) N
Coal Depths (ft): N/A

casing used in cement
tubing drilling in well fill up sks

9 5/8 160 132 50
6 5/8 1865 1820 300
4 1/2 2208 2198 65

OPEN FLOW

Producing formation Big Injun --- Pay zone depth (ft) 1994-2017
Gas: Initial open flow 89 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow 180 MCF/D Final open flow show BBL/D
Static Rock Pressure 225 psig (surface pressure) after 48 Hours

Second producing formation

Gas: Initial open flow * MCF/D Pay zone depth (ft) ---
Final open flow * MCF/D Oil: Initial open flow 0 BBL/D
static rock pressure * psig (surface pressure) after 0 BBL/D

For: D.A.C.

By:

Kenneth Mason

Date: 08-01-98

Dood 4435

JUL 26 1999

Stage	Formation	Perts	Sand	N2
07-06-98	Gasch #1			
1	Big Injun	1994-2015 16 holes	300 sks	251,000 scf

TSIP = 1815#
S min = 1482#

Drillers Log

Lithomation	Top	Bottom	
Fill	0	10	
Sh	10	20	
R/R	20	30	
Sd/Sh	30	222	
Sd	222	290	damp @ 107'
Sh/Sh	290	504	
Sd	504	516	
Sd/Sh	516	1801	1" h2o @ 1461
.....	1801	1816	
Sh	1816	1827	
BL	1827	1945	
Sd	1945	1990	
Sd/Sh	1990	2025	
Sd	2025	2050	gas ck @ 1990 - 5/10 in 1" w/w
Sd/Sh	2050	2208	gas ck @ 2208 = 70/10 in 1" w/w
TID	2208		

Electric Log Tops

Formation	Depth top
Big Lime	1846
Big Injun	1898

