

LONG. 82°04'32.1"

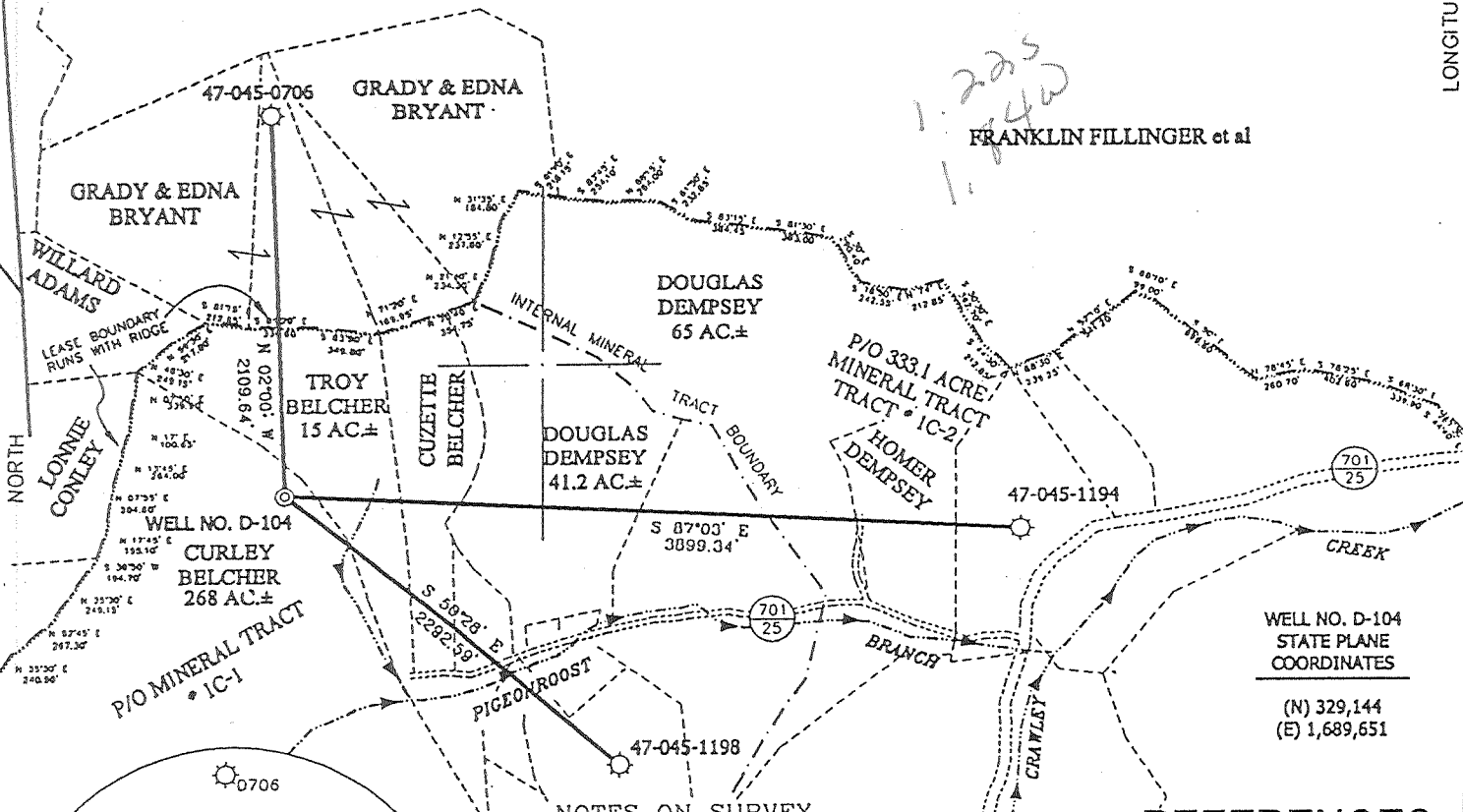
9.740'

LATITUDE 37°55'00"

ISLAND CREEK COAL COMPANY LEASE

35,053.47 ACRES ± WELL NO. D-104

LONGITUDE 82°02'30"
LAT. 37°53'56.3"

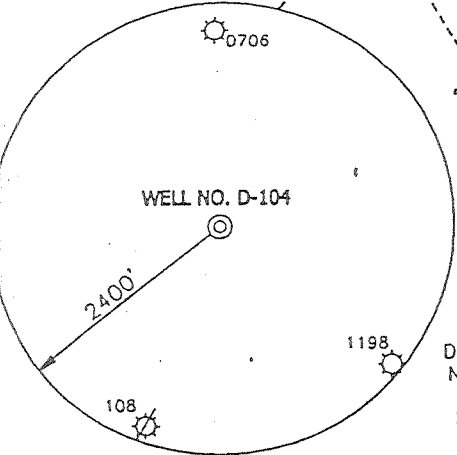
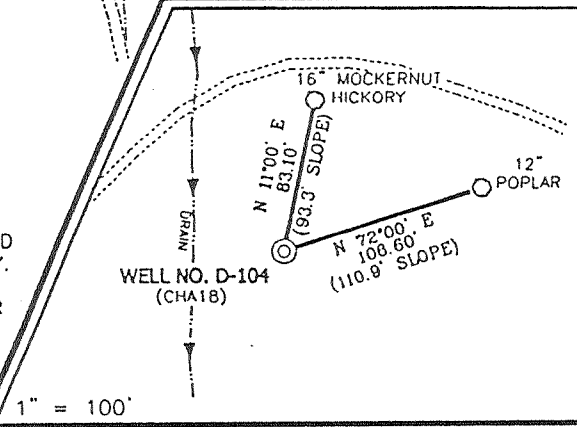


WELL NO. D-104
STATE PLANE
COORDINATES
(N) 329,144
(E) 1,689,651

NOTES ON SURVEY

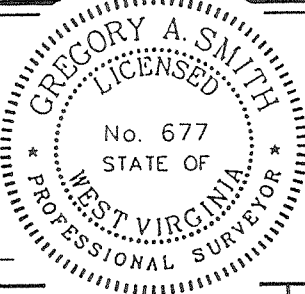
1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 4/15/99.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DESCRIPTIONS FOUND IN DEED BOOK U ON PAGE 345 AND PAGE 350.
4. DUE TO VAGUE GENERAL DEED DESCRIPTIONS SURFACE BOUNDARIES COULD NOT BE PLOTTED OR MAPPED ACCURATELY. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



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.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JULY 22, 19 99
OPERATORS WELL NO. D-104
API WELL NO. 47-045-01349
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3890PD104 (76-46)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 799' SCALE 1" = 1000'

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 1082' WATERSHED TRIBUTARY OF PIGEONROOST BRANCH OF CRAWLEY CREEK
DISTRICT GUYAN COUNTY LOGAN QUADRANGLE CHAPMANVILLE 7.5'

SURFACE OWNER CURLEY BELCHER ACREAGE 268
ROYALTY OWNER ISLAND CREEK COAL COMPANY LEASE ACREAGE 35,053.47
PROPOSED WORK : LEASE NO. 80662
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 DEVONIAN SHALE
ESTIMATED DEPTH 4120'

WELL OPERATOR BLAZER ENERGY CORPORATION DESIGNATED AGENT RICHARD SMELTZER
ADDRESS P.O. BOX 2347 CHARLESTON, WV, 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

DEEPWELL

6-6 271

COUNTY NAME 106
PERMIT 1349

WR-35

16-Aug-99

API # 47-

045-01349

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

AE

Well Operator's Report of Well Work

Farm Name: BELCHER, CURLEY

Operator Well No.: ISLAND CK D-104

LOCATION: Elevation: 1,082.00

Quadrangle: CHAPMANVILLE

District: GUYAN

County: LOGAN

Latitude: 6440

Feet South of

37 DEG 55 MIN 0 SEC

Longitude: 9740

Feet West of

82 DEG 2 MIN 30 SEC

Company: BLAZER ENERGY CORPORATION
P.O. BOX 2347
CHARLESTON, WV 25328

Agent: Richard Smeltzer

Inspector: OFIE HELMICK

Permit Issued: 8/16/99

Well work commenced: 10/3/99

Well work completed: 10/25/99

Verbal Plugging

Permission granted on:

Rotary Rig X Cable Rig _____

Total Depth 4075' feet

Fresh water depths (ft) _____

Salt water depths (ft) 622', 675'

Is coal being mined in area? _____

Coal Depths (ft): 34-37', 198-200'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	32'	32'	GRTD
9-5/8"	339'	339'	136 FT ³
7"	1486'	1486'	305 FT ³
4-1/2"	4031'	4031'	409 FT ³

OPEN FLOW DATA

Producing formation L. Shale, U. Shale, Berea/Gordon, Big Lime/Injun Pay Zone Depth (ft): See Reverse

Gas: Initial open flow 59 MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow: 933 MCF/d Final open flow: _____

Time of open flow between initial and final tests _____ Hours

Static rock pressure 460 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: _____

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 WELLBC

For: BLAZER ENERGY CORPORATION

By: *Rob A. China*
Date: 12/10/99

106 1349
6781 907

FEB 18 2000

EASTERN STATES OIL & GAS, INC.
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary

Well: Island Creek Coal D-104

API# 47-045-01349

Date	10/22/99	10/22/99	10/22/99	10/22/99		
Type Frac						
Acid, N ₂ , Foam, Water	N ²	N ²	N ²	Acid/N ²		
Zone Treated	L. Shale	U. Shale	Berea/Gordon	Big Lime/ Injun		
# Perfs	10	26	14	19		
From - To:	3672-3963	3194-3542	2218-2620	1555-1739		
BD Pressure @ psi	3751	2504	2153	1276		
ATP psi	3443	2515	1896	1500		
Avg. Rate, B=B/M, S= SCF/M	50,970 S	51,231 S	52,502 S	6700 S 7.3 B		
Max. Treat Press psi	4186	3488	2153	2209		
ISIP psi	2800	2056	1250	526		
Frac Gradient	.84	.69	.59	.79		
10 min S-I Pressure	1062	799	740	1033		
Material Volume						
Sand-sks						
Water-bbl						
SCF N ₂	405,594	1,017,924	507,682	24,062		
Acid-gal	675 gal 7.5%	500 gal 7.9%	500 gal 15.2%	2500 gal 15.2%		
NOTES:						

TOP	BASE	FORMATION	REMARKS
0	18	Fill	
18	35	White Sand	
35	37	Coal	
37	92	Sand	
92	198	Sand Shale	
198	200	Coal	
200	398	Sand Shale	
398	519	Salt Sand	Damp @ 622'
519	1057	Salt Sand	1/2" stream water @ 675'
1245	1306	Maxton	GT @ 1094'=59 mcf
1423	1469	L. Lime	GT @ 1406 & 1531'=odor
1469	1645	Big Lime	
1815	1891	Weir	GT @ 1762'=84 mcf
2192	2215	Sunbury	GT @ 1982'=59 mcf
2215	2232	Berea	
2232	3230	U. Huron	GT @ 2356', 2542', 3161', 3840', 3938', 4075'=59 mcf
3230	3548	L. Huron	
3548	3674	Java	
3674	3860	Angola	
3860	4037	Rhinestreet	
4037		Onondaga	
4075		TD	