

5,530'

LATITUDE 37°52'30"

LONGITUDE 82°05'00"

TRIB. OF MUD FORK

- NOTES:
1. TIES TO WELLS ARE BASED ON GRID NORTH WV SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 2-17-98.

ISLAND CREEK COAL COMPANY LEASE

34,953.47 ACRES± TOTAL

WELL NO. D-84

GEORGIA - PACIFIC CORPORATION
24,580.82 ACRES±
(SURFACE)

47-045-0167-P

D-84

47-045-1185

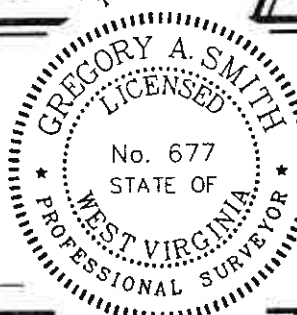
47-045-0133

SLS

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 MARCH 3, 19 98
OPERATORS WELL NO. ISLAND CREEK #D-84
API WELL NO. 47-045-01209
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3890PD84 (63-71)
PROVEN SOURCE OF ELEVATION CABIN HILL TRIANGULATION STATION ELEVATION 1844'
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 947' WATERSHED CABIN BRANCH OF COPPERAS MINE FORK
DISTRICT ISLAND CREEK COUNTY LOGAN QUADRANGLE HOLDEN 7.5'
SURFACE OWNER GEORGIA - PACIFIC CORPORATION ACREAGE 24,580.82
ROYALTY OWNER ISLAND CREEK COAL COMPANY LEASE ACREAGE 34,953.47
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 DEVONIAN SHALE
ESTIMATED DEPTH 4600'

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

16-6 274

COUNTY NAME

PERMIT

Well Operator's Report of Well Work

Farm Name: Georgia Pacific Corp. Operator Well No.: Island Creek D-84

LOCATION: Elevation: 947.00 Quadrangle: HOLDEN

District: ISLAND CREEK County: LOGAN

Latitude: 10990 Feet South of 37 DEG 52 MIN 30 SEC

Longitude: 5530 Feet West of 82 Deg. 5 Min. 0 Sec.

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

Agent: Richard Smeltzer

Inspector: OFIE HELMICK
Permit Issued: 7/21/98
Well work commenced: 5/19/98
Well work completed: 6/16/98

Verbal Plugging
Permission granted on: _____
Rotary Rig X Cable Rig _____
Total Depth 4317' feet
Fresh water depths (ft) 60'

Salt water depths (ft) 900,1120,1471'

Is coal being mined in area? _____
Coal Depths (ft): 230-234'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	39'	39'	grtd
9-5/8"	709'	709'	277 ft³
7"	1768'	1768'	315 ft³
4-1/2"	4288'	4288'	409 ft³

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OPEN FLOW DATA

Producing formation L. Shale,U. Shale.Weir,Berea,B. Lime Pay Zone Depth (ft): _____

Gas: Initial open flow 84 MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow: 764 MCF/d Final open flow: _____

Time of open flow between initial and final tests _____ Hours

Static rock pressure 370 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 WELLBORE.

For: BLAZER ENERGY CORPORATION

By: Barbara A. Hubbard / Admin
Date: 3/8/99 Chris

MAR 29 1999

LOG 1269

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

Well: ISLAND CREEK COAL D-84

API: 47-045-01269

Date	6/16/98	6/16/98	6/16/98
	1 st Stage	2 nd Stage	3 rd Stage
Type Frac			
Acid, N ₂ , Foam, Water	N ₂	N ₂	N ₂ & Acid
Zone Treated	Lower Shale	U. Shale-Weir Berea	Big Lime
# Perfs	55	40	9
From - To:	3424-4260	1978-2951	1838-1842
BD Pressure @ #	2166	1584	2607
ATP #	1975	1500	2187
Avg. Rate: B/M or SCF/M	50,000 scf/m	50,000 scf/m	5,500 scf/min
Max. Treat Press #	2205	1602	2607
ISIP #	1400	1000	2000
Frac Gradient	.38	.33	1.32
10 min S-I Pressure	1054	869	5 min. = 1770
Material Volume			
# Sand	--	--	--
B BL Water	31	6.5	--
SCF N ₂	1,224,000	800,000	54,000
Gal Acid	1134	798	1617
NOTES:			

TOP BOTTOM FORMATION

Remarks

0	60	Sand Shale	1/2" water @ 65'
60	95	Sand	
95	230	Open Mine	Open Mine 230-235'
230	237	Coal	
237	316	Sand	
316	670	Sand Shale	
670	1249	Salt Sand	1/2" stream 838'
			3/4" stream 900'
			1-1/4" stream @ 1120'
			1" stream @ 1471'
1499		Upper Maxton	
1603	1640	Lower Maxton	
1650	1697	Little Lime	
1697	1910	Big Lime	GT @ 1868'
1976	2146	Weir	GT @ 1993' 84 mcf
			GT @ 2182' 84 mcf
2447	2480	Sunbury	GT @ 2464' 59 mcf
2480	2519	Berea	
2519	3459	Upper Huron	GT @ 2586' 59 mcf
			GT @ 2803' 59 mcf
			GT @ 3454' 84 mcf
2643		Gordon	
3459	3758	Lower Huron	
3758	3887	Java	
3887	4123	Angola	GT @ 4039' 84 mcf
4123		Rhinestreet	
4317		TD	

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