

NOTES

1. BEARINGS & DISTANCES TO PROPERTY CORNERS WERE CALCULATED.
2. NO KNOWN WELLS WITHIN 2500' OF PROPOSED WELL.
3. OXY USA INC., LESSEE ; ISLAND CREEK COAL, LESSOR
4. W. VA. STATE PLANE COORD. VALUES
N 319566.7
E 1682802.8

LATITUDE 37° 52' 30"

1075'

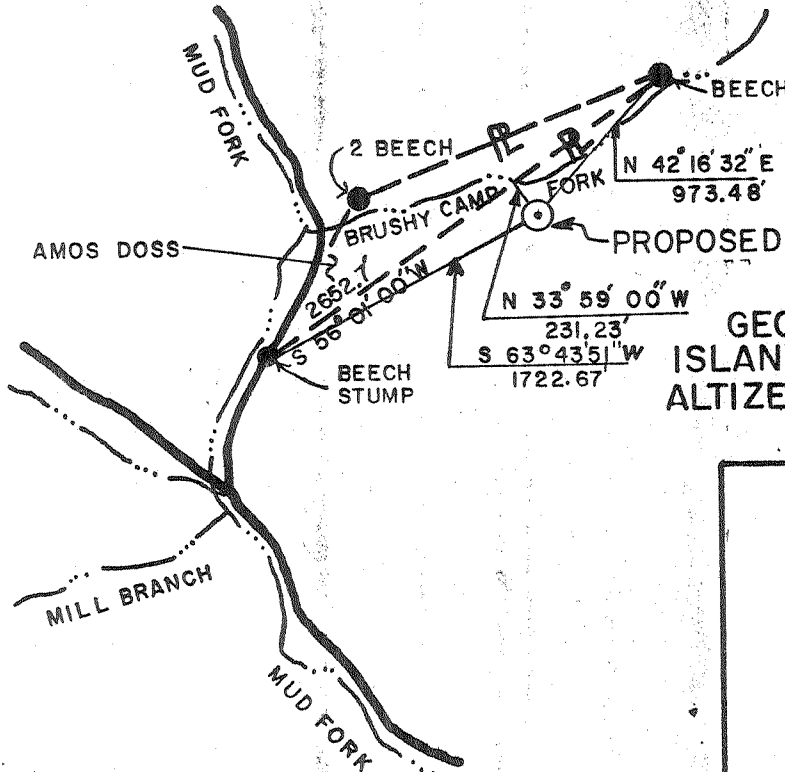
7.5' TOPO. LOCATION

4650'

LONGITUDE 82° 05' 00"

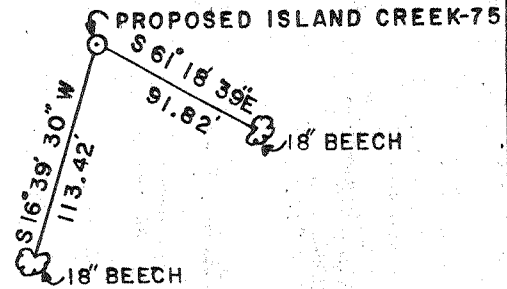
0.225
0.89W
3.12
0.89

GEORGIA PACIFIC



GEORGIA PACIFIC
ISLAND CREEK COAL CO. (Min.)
ALTIZER, DAVISON - 1080.62 Acs.
Fee Tract

REFERENCES



SCALE: 1" = 100'

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 IN 2500
PROVEN SOURCE OF ELEVATION KNOWN ELEV
BM R-155 = 914.778

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) Delbert E. Norman
R.P.E. 9682 L.L.S. _____

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE AUG 16, 1988
OPERATOR'S WELL NO. IC-75
API WELL NO. GW-1977
47 045 - 1127
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1032.787 WATER SHED BRUSHY CAMP FORK OF MUD FORK
DISTRICT ISLAND CREEK COUNTY LOGAN
QUADRANGLE HOLDEN, W. VA. 401 0595-C
SURFACE OWNER GEORGIA PACIFIC ACREAGE 1080.62
OIL & GAS ROYALTY OWNER ISLAND CREEK COAL CO. LEASE ACREAGE 35053.47
LEASE NO. WV-486
PROPOSED WORK: DRILL X 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 DEVONIAN SHALE ESTIMATED DEPTH 4100' SEP 19 1988
WELL OPERATOR OXY USA INC. DESIGNATED AGENT DELBERT G. OLIVER
ADDRESS PO BOX 873 3072 ADDRESS PO BOX 873
CHARLESTON, W. VA. 25323 CHARLESTON, W. VA. 25323

DEEP WELL 61 Logan-Holden, Diness (274)

RECEIVED
FEB 03 1989

14-Sep-88

API # 47- 45-01127

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC CORP. Operator Well No.: A-75, GW-1977

LOCATION: Elevation: 1032.79 Quadrangle: HOLDEN

District: ISLAND CREEK County: LOGAN
Latitude: 1075 Feet South of 37 Des. 52Min. 30 Sec.
Longitude: 4650 Feet West of 82 Des. 5 Min. 0 Sec.

Company: OXY USA, INC.
P. O. BOX 873
CHARLESTON, WV

Asent: DELBERT G. OLIVER

Inspector: ARTHUR ST. CLAIR
Permit Issued: 09/14/88
Well work Commenced: 11-10-88
Well work Completed: 1-13-89
Verbal Plussins
Permission granted on:
Rotary X Cable _____ Ris
Total Depth (feet) 4162'
Fresh water depths (ft) 130'
Salt water depths (ft)
Is coal being mined in area (Y/N)?
Coal Depths (ft): 257'

Casings & Tubing Size	Used in Drilling	Left in Well	Cement (Fill Up) Cu. Ft.
20"	26' GL	26' GL	Surface
9.625"	437'	437'	Surface
7"	1612'	1612'	250 Sx Cement
4.5"	4140'	4140'	1353'
2.375"		3626'	

OPEN FLOW DATA

Lower Huron, Upper Devonian,
Producing formation Big Lime Pay zone depth (ft) 1687'-3659'
Gas: Initial open flow 652 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 497 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 485 psis (surface pressure) after 72 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 _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psis (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.

Delbert G. Oliver

For: OXY USA, INC.

By: Delbert G. Oliver
Date: February 1, 1989

Feb
MAR 14 1989

Island Creek A-75:

Details of perforated intervals, fracturing or stimulating, physical change, etc.:

Lower Huron: 3386' to 3659' with 47 holes. Fracture stimulated with 50,000 lbs sand in 133 BW and 506 MCF of N2.

Upper Devonian: 2569' to 2964' with 72 holes. Fracture stimulated with 42,001 lbs of 20-40 sand in 122 BW and 360,835 SCF of N2.

Big Lime: 1687' to 1803' with 141 holes. Acidized with 14,000 gal 75 quality N2 foamed 15% HCl.

WELL LOG:

<u>Formation</u>	<u>Top (Ft)</u>	<u>Bottom (Ft)</u>
Sand	0	470
Shaly Sand	470	630
Sand	630	970
Shaly Sand	970	1005
Sand	1005	1156
Shaly Sand	1156	1404
Maxton	1404	1454
Shaly Sand	1454	1566
Little Lime	1566	1618
Big Lime	1618	1816
Sandy Shale	1816	1986
Weir	1986	2065
Shale	2065	2364
Sunbury	2364	2395
Berea	2395	2440
Upper Devonian Shale	2440	3381
Lower Huron	3381	3679
Java	3679	3957
Rhinestreet	3957	4131
Marcellus	4131	4146
Onondaga	4146	4162

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

7702

045-1127
 Issued 9/14/88 Expired 9/14/90
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STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: OXY USA INC. 36805, 5, 401
 (REVISED)
- 2) Operator's Well Number: Island Creek A-75, GW 1977 3) Elevation: 1032.787
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production X / Underground Storage /
 Deep / Shallow X /
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 4100 feet
- 7) Approximate fresh water strata depths: 182', 301' 305'
- 8) Approximate salt water depths: 1460', 1509' *Possible water at 872' 1030'*
- 9) Approximate coal seam depths: 221' 100'-104', 225'-229' *also oil*
- 10) Does land contain coal seams tributary to active mine? Yes X / No /
- 11) Proposed Well Work: DEVONIAN SHALE DRILLING WELL *New Well*
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	H-40	52	40	40	Surface
Fresh Water	13-3/8	H-40	48	405	405	Surface
Coal						380SR18-11.3 380SR18-11.2.2
Intermediate	7	J-55	23	1560	1560	Surface
Production	4-1/2	J-55	11.6	4075	4105	380SR48-11.1 285 cu ft
Tubing	2-3/8	NUE	4.6	4075	4105	
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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 SEP 14 1988

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Blanket Agent
 (Type)

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SEP 14 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

1) Date: September 8, 1988
2) Operator's well number
Island Creek A-75, GW 1977 (REVISED)
3) API Well No: 47 - 045 - 1127
State - County - Permit

4) Surface Owner(s) to be served:
(a) Name Georgia Pacific Corporation
Address General Delivery
Wyoming, WV 24898
(b) Name Attn: Bill Adkins
Address _____
(c) Name _____
Address _____
6) Inspector Arthur St. Clair
Address P. O. Box 468
Brenton, WV 24878
Telephone (304)-723-6277

5) (a) Coal Operator:
Name Island Creek Corporation
Address P. O. Box 840
Holden, WV 25625 Attn: J. L. Workman, Jr.
(b) Coal Owner(s) with Declaration
Name Island Creek Corporation
Address P. O. Box 840
Holden, WV 25625 Attn: J. L. Workman, Jr.
Name _____
Address _____
(c) Coal Lessee with Declaration
Name N/A
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above named parties, by:
_____ Personal Service (Affidavit attached)
XX Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator OXY USA Inc
By: Delbert G. Oliver *Delbert G. Oliver*
Its: Project Manager
Address P. O. Box 873
Charleston, WV 25323
Telephone (304) 344-8383

Subscribed and sworn before me this 8 day of Sept, 1988

James J. Gray
My commission expires January 1989
Commissioner
Notary Public