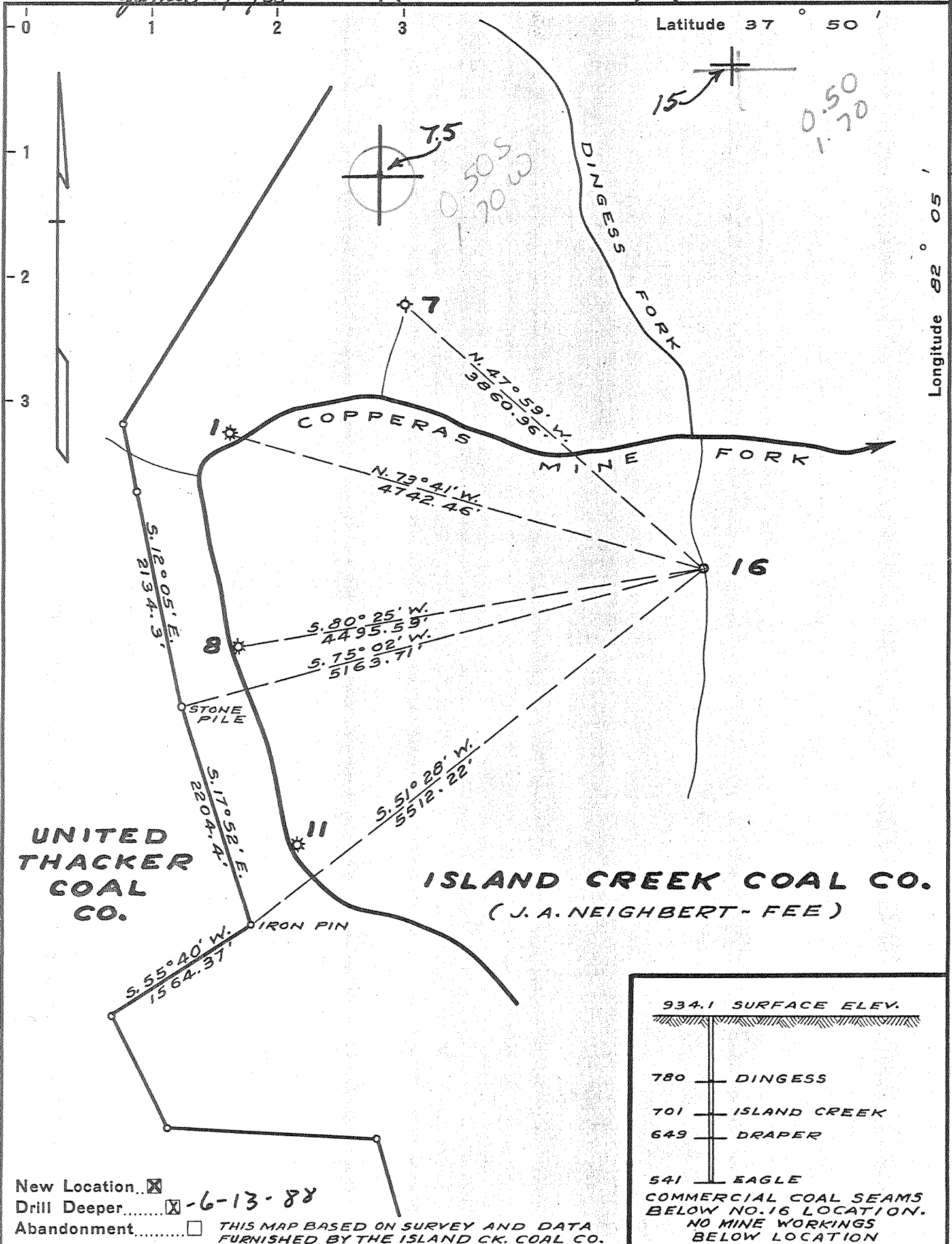


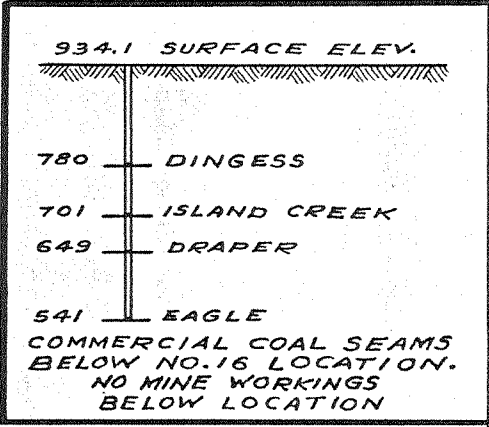
Jamie 6/10/88

9075



UNITED THACKER COAL CO.

ISLAND CREEK COAL CO. (J. A. NEIGHBERT - FEE)



New Location Drill Deeper -6-13-88
 Abandonment THIS MAP BASED ON SURVEY AND DATA FURNISHED BY THE ISLAND CK. COAL CO.

Company OXY USA, INC. 3072
 Address P.o. Box 873-Charleston, WVa. 25323
Surface: Georgia Pacific Corp.
 Farm ISLAND CREEK COAL CO.
 Tract _____ Acres 34.95347 Lease No. C-2448
 Well (Farm) No. 16 Serial No. EC
 Elevation (Spirit Level) 934.1 HOLDEN 7.5
 Quadrangle HOLDEN 8-050-175
 County LOGAN District LOGAN
 Engineer J. M. Sell
 Engineer's Registration No. 772
 File No. _____ Drawing No. 328
 Date MAY 14, 1945 Scale 1" = 1200'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. LOG-133-DD

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown. JUN 21 1988

- Denotes one inch spaces on border line of original tracing.

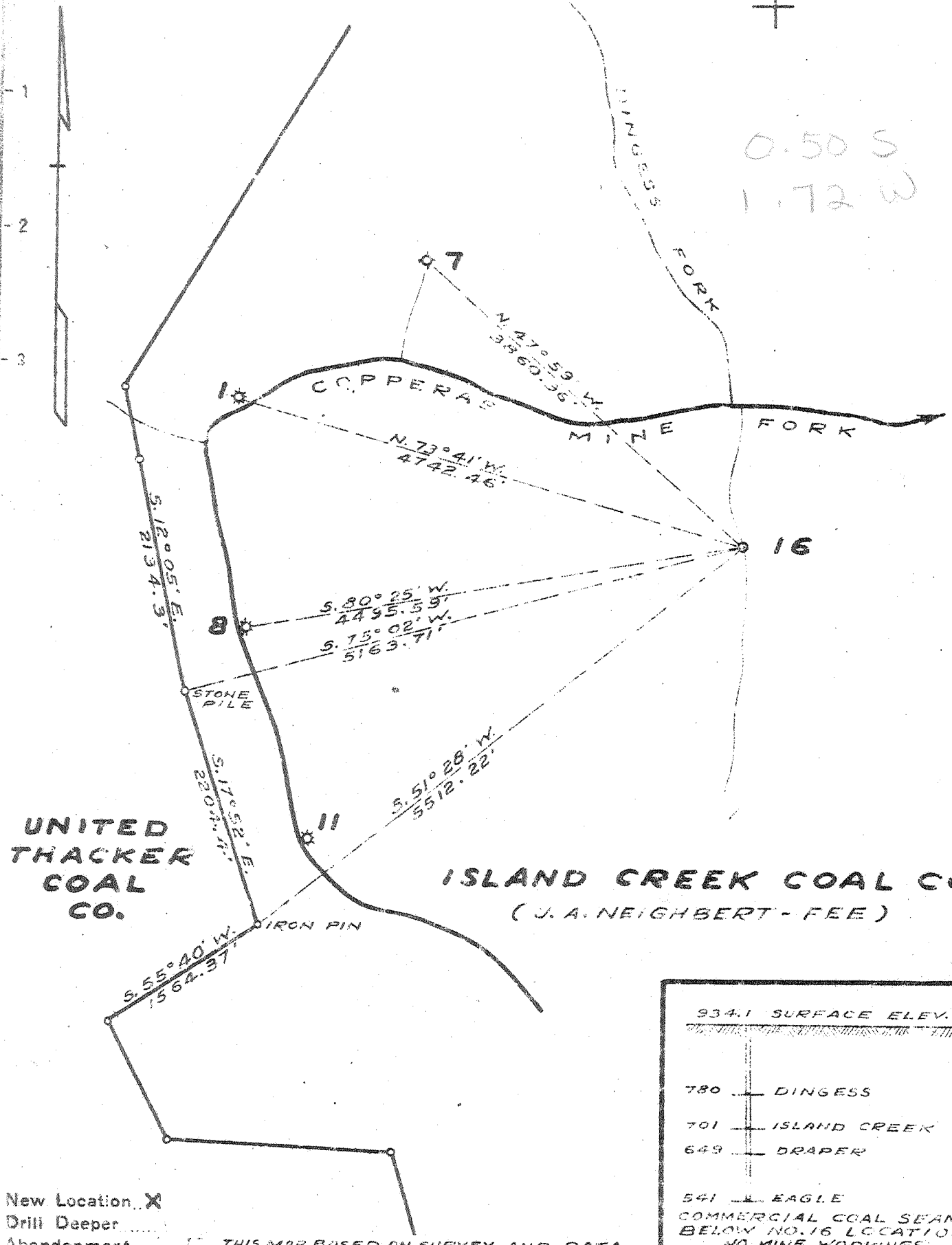
47-045

OWDD DEEP WELL 4360' - 6 1/2' Holden Logan - Dingsess (294) Dev. Shale

Latitude 37 50

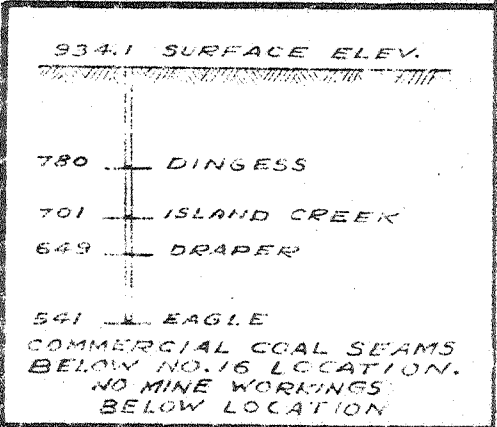
0.50 S
1.72 W

Longitude 82 05



UNITED THACKER COAL CO.

ISLAND CREEK COAL CO. (J. A. NEIGHBERT - FEE)



New Location X
 Drill Deeper
 Abandonment

THIS MAP BASED ON SURVEY AND DATA FURNISHED BY THE ISLAND CK. COAL CO.

Company COLUMBIAN CARBON CO.
 Address CHARLESTON W. VA.
 Farm ISLAND CREEK COAL CO.
 Tract Acres 34,953.47 Lease No. C-2448
 Well (Farm) No. 16 Serial No. _____
 Elevation (Spirit Level) 934.1
 Quadrangle HOLDEN SE 8-050-175
 County LOGAN District LOGAN
 Engineer J. M. Sell
 Engineer's Registration No. 772
 File No. _____ Drawing No. 528
 Date MAY 14, 1945 Scale 1" = 1200'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. LOG-133

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

6-6 274

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Log 133
Holden Quad.

Gas Well
CASING & TUBING

Company	Columbian Carbon Company	13 3/8	20'7	Same
Address	Box 873, Charleston, 23, W.Va.	10 1/2	32.75#	435'5 "
Farm	Island Creek Coal Co. Acres 34,953	8 1/2	24#	1481'3 Pld.
Location	Dingess Fork	7"	22#	1874'1 Same
Well No.	16-G.W. 801 Elev. 936' DF	3 1/2"	7.7#	2009'11 "
District	Logan Logan County	5 1/2	13#	64'8 "
Surface	Island Creek Coal Co. Guaranty Bank Bldg., Huntington, W.Va.			PACKER
Mineral	Same			
Commenced	5-24-45			Special Gas Anchor
Completed	7-20-45			Size 3 x 7 x 5 1/2
Not shot				Depth 1942'
Acidized	With 1500 Gallons of acid			
Volume	7,145,000 C.F.			
Rock Pressure	560 lbs. 24 hrs.			Coal at 40' 120";
Fresh Water	26'; 100' 5 blrs. 1 hr.; 180' H.F.			146' 48"; 280' 60"
Salt Water	1045' H.F.; 1650' H.F.			394' 72"

Surface	0	20	CEMENT RECORD:
Sand	20	40	6-2-45 10 1/2 Casing. Cemented
Slate & Coal	40	50	with 135 sacks cement- good returns.
Hard Rock	50	85	C.C.Co. Crew
Slate & Shells	85	146	6-30-45 8 5/8" casing. Ran
Coal	146	150	13 bags Aquagel and 1 bale Fibrotex.
Sand	150	197	Good Returns. Edwin Gandee, Cementer,
Slate	197	235	C.C. Co. Crew
Sand	235	280	
Coal	280	285	7-9-45 7" OD Casing. Ran
Slate	285	310	13 bags Aquagel mixed with 1 bale
Sand	310	331	Fibrotex. Good returns. Edwin Gandee,
Slate	331	394	Cementer, C.C.Co. Crew
Coal	394	400	
429 SLM -- 430' DLM			
Slate	400	517	
Sand	517	597	
Slate	597	700	
Sandy Lime	700	775	
Salt Sand	775	1060	
Slate	1060	1095	
Lime	1095	1125	
Salt Sand	1125	1350	
Slate	1350	1368	
Sand	1368	1430	
Black Lime	1430	1447	
Slate	1447	1462	
Lime	1462	1470	
Slate & Shells	1470	1510	
Red Rock	1510	1520	
Slate & Shells	1520	1632	
Sand	1632	1738	
Slate	1738	1742	
Lime	1742	1760	
Slate & Shells	1760	1822	
Lime	1822	1837	
Pencil Cave	1837	1843	
Big Lime	1843	1868	
Slate	1868	1874	
Big Lime	1874	2000	SLM
TOTAL DEPTH		2000	SLM

GAS PAYS: 1995' SLM 7/10 W 1" -- 27,900 C.F.
1995-1998 66/10 W 7" - 3,504 MCF
1998-2000 82/10 W 7" - 3,907 MCF

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State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Inspector's Report of Well Work

Farm name: GEORGIA PACIFIC CORP. Operator Well No.: A-16, GW-801

LOCATION: Elevation: 934.10 Quadrangle: HOLDEN

District: ISLAND CREEK County: LOGAN
Latitude: 2730 Feet South of 37 Deg. 50Min. 0 Sec.
Longitude 9075 Feet West of 82 Deg. 5 Min. 0 Sec.

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

Asent: DELBERT G. OLIVER

Inspector: ARTHUR ST. CLAIR
Permit Issued: 06/13/88
Well work Commenced: 7-17-88
Well work Completed: 12-29-88

Verbal Pluggings
Permission granted on:

Rotary Cable Ris

Total Depth (feet) 4400'

Fresh water depths (ft) 26', 100', 180'

Salt water depths (ft) 1045', 1650'

Is coal being mined in area (Y/N)? Y

Coal Depths (ft): 40', 146', 280', 394'

Casings & Tubings	Used in Drillings	Left in Well	Cement Fill Up Cu. Ft.
Conductor	Existing		
13.375"	21	21	
Fresh Wtr	Existing		
10.75"	435'	435'	Surface
Intermed.	Existing		
7"	1874'	1874'	13sx Aquagel
Production			TOC
4.5"	4375'	4375'	1960'
Tubing			
2.375"		4300'	

OPEN FLOW DATA

Producing formation Rhinestreet, Java, Lower Huron Pay zone depth (ft) 3637-4307'
Gas: Initial open flow 73 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 73 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ 24 Hours
Static rock Pressure 320 psis (surface pressure) after 216 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, APPALACHIAN PROJECT MANAGER

For: OXY USA, INC.

By: Delbert G. Oliver
Date: JAN 24, 1989

ISLAND CREEK A-16

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

Rhinestreet, Java 4197.5' to 4307' with 112 holes. Pumped 2200 gal. 2% KCLW with 199 ball sealers. Fracture stimulated with 105,025 lbs. 20-40 sand in 384 BW and 686 MCF of N₂.

Lower Huron 3637' to 3927.5' with 241 holes. Pumped 5400 gal. 2% KCLW with 482 ball sealers. Fracture stimulated with 260,000 lbs. 20/40 sand in 728 BW and 1,389,400 SCF of N₂.

WELL LOG

Note: Well was deepened from 2000' to 4400'.

<u>Formation</u>	<u>Top (ft)</u>	<u>Bottom (ft)</u>
Big Lime	2000	2023
Sandy Shale	2023	2044
Big Injun	2044	2100
Sandy Shale	2100	2118
Weir	2118	2334
Shale	2334	2650
Sunbury	2650	2674
Berea	2674	2719
Devonian	2719	3632
Lower Huron	3632	3972
Java	3972	4213
Rhinestreet	4213	4373
Marcellus	4373	4396
Onondaga	4396	4400

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

7176

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: 3072 OXY USA INC. 36205, 5, 401
- 2) Operator's Well Number: Island Creek A-16, GW-801 3) Elevation: 934.1
- 4) Well type: (a) Oil or Gas /
 (b) If Gas: Production / Underground Storage
 Deep Shallow
- 5) Proposed Target Formation(s): 441 Devonian Shale
- 6) Proposed Total Depth: 4360' feet
- 7) Approximate fresh water strata depths: 26', 100', 180'
- 8) Approximate salt water depths: 1045', 1650'
- 9) Approximate coal seam depths: 40', 146', 280', 394'
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: DEVONIAN SHALE DEEPENING

12) *NEW TUBULARS
 TUBING, LINER & PKR TO BE PULLED **CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8			21	21	
Fresh Water	10 3/4		33	435	435	135 sx cmt to surface
Coal	8 5/8		24	1481	0	18 sx Aquagel
Intermediate	7		22	1874	1874	13 sx Aquagel
* Production	4 1/2	K55	11.6	4360	4360	300 cu ft
* Tubing	2 3/8	NUE	4.6	4360	4360	
** Liners	5 1/2			2009 (65')	2009 (65')	

**TUBING 3 1/2 7.7 2009 2009
 PACKERS : Kind MBH **GAS ANCHOR
 Sizes 3" &" 3 X 7 X 5 1/2
 Depths set 1942

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

30071
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Blanket Agent
 (Type)

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JUN 08 1988

Page 1 of 4
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: May 27, 1988
2) Operator's well number Island Creek A-16, GW-801
3) API Well No: 47 - 045 - 0133-DD
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Georgia Pacific Corporation
Address 133 Peachtree St., NE
Atlanta, GA 30348
(b) Name Attn: W. C. Covington
Address _____
(c) Name _____
Address _____
6) Inspector Arthur St. Clair
Address P. O. Box 468
Benton, WV 24818
Telephone (304)-732-6223 (435-4507)

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name Island Creek Corporation
Address Island Creek Division
P. O. Box 840, Holden, WV 25625
Name Attn: Jerry Workman, Mgr Engr
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)
x 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 *[Signature]*
Its: Project Manager
Address P. O. Box 873
Charleston, WV 25323
Telephone (304) 344-8383

Subscribed and sworn before me this 24th day of May, 1988

Charles A. Stansbury Commissioner
My commission expires April 9, 1989 Notary Public