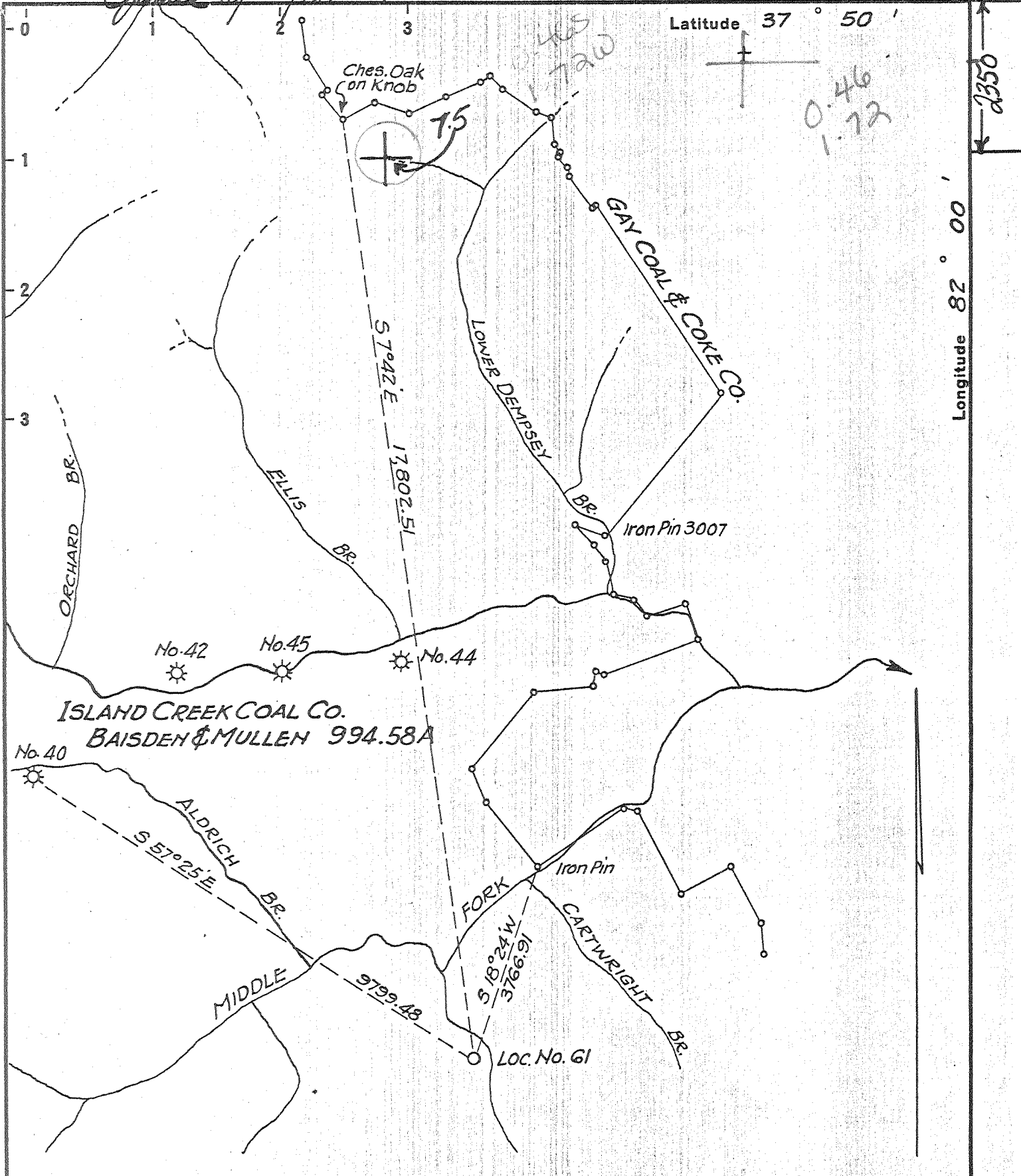


Done 6/27/88

9200



0.46
1.72

2350

New Location...
 Drill Deeper... - 7/9/88
 Abandonment...

ISLAND CREEK COAL CO. COORDINATES
 S 4075.58 W 2259.94
 W/25/48

Company OXY U.S.A., INC.

Address BOX 873 CHARLESTON W.VA. 25323

Farm ISLAND CREEK COAL CO.

Tract Acres 34,953.47 Lease No. C 2448

Well (Farm) No. 61 Serial No. 401 059

Elevation (Spirit Level) 705.0

Quadrangle HOLDEN 7 S039 W178 Holden 7.5

County LOGAN District LOGAN

Engineer C.A. Branham

Engineer's Registration No. 683

File No. _____ Drawing No. _____

Date 6/15/48 Scale 1" = 2400'

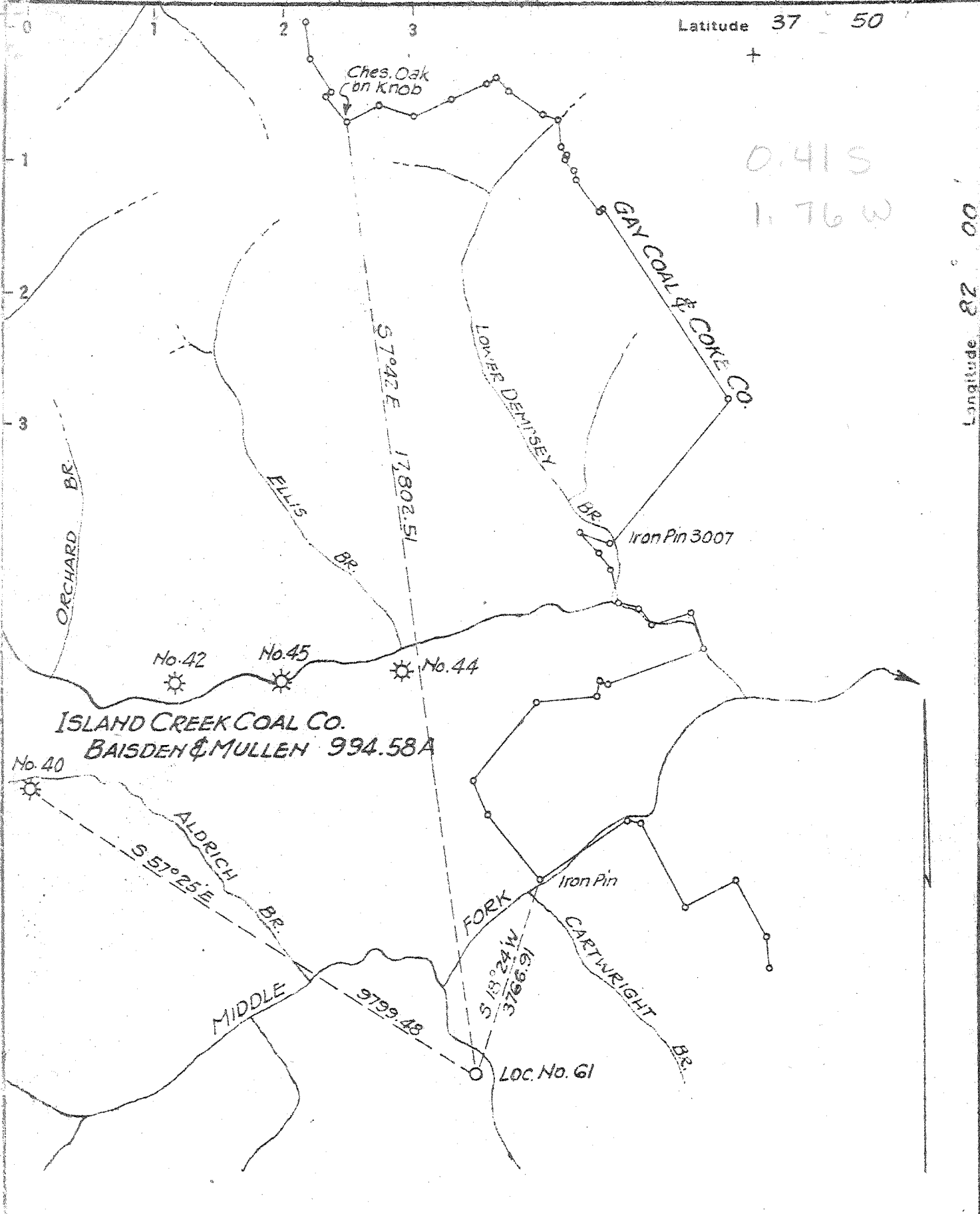
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. LOG-205-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.

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

47-045



Latitude 37 50

Longitude 82 00

0.41 S
1.76 W

New Location X
 Drill Deeper
 Abandonment

ISLAND CREEK COAL CO. COORDINATES
 S 4075.58 W 2259.94
 W/25/48

Company	COLUMBIAN CARBON CO.
Address	BOX 873 CHARLESTON W.VA.
Farm	ISLAND CREEK COAL CO.
Tract	Acres 34,953.47 Lease No. C 2448
Well (Farm) No.	61 Serial No.
Elevation (Spirit Level)	705.0
Quadrangle	HOLDEN 7 5039 W178 SE
County	LOGAN District LOGAN
Engineer	C.A. Branham
Engineer's Registration No.	683
File No.	Drawing No.
Date	6/15/48 Scale 1" = 2400'

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

WELL LOCATION MAP
 FILE NO. LOG-205

+ 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 205
Holden Quad.

Gas Well
CASING & TUBING

Company	Columbian Carbon Company	
Address	Box 873, Charleston, 23, W.Va.	13 3/8 18'10 Same
Farm	Island Creek Coal Co. A 34,953.47	10 3/4 32# 302'3 160
Location	Middle Fork	8 1/2 34# 1344'5 Pld.
Well No.	61-GW-1076 Elev. 705' G	7 23# 1766'10 Same
District	Logan Logan County	3 1/2 7# 1961'10 Same
Surface	Island Creek Coal Co. Guaranty Bank Bldg.,Huntington, W.Va.	with 3" tubing cage
Mineral	Same	Liners used
Commenced	6-12-48	5 1/2 14# 135 135
Completed	8-3-48	
Not shot		Gas Anchor Packer
Acidized	8-6-48 with 1000 gal. acid	Size 3 x 5 x 7
Open flow	22# in 3"	Depth 1825'
Volume	7,400,000 C.F.	
Rock Pressure	540 lbs. in 48 hrs.	Coal at 137'
Fresh Water	39° H.F.	
Salt Water	840° 1/2 10" blr. per hr. 850° H.F.	

OCT - 6 1948

Gravel	0	18	Gas Pays: 1882-95 90/10 W 1" 99,990 C.F.
Sand	18	137	1903-07 115/10 W 4" 1,808,320 C.F.
Coal	137	140	1912-17 121/10 W 4" 1,855,040 C.F.
Sand	140	163	1923-27 119/10 W 4" 1,839,520 C.F.
Slate	153	174	
Sand	174	190	CEMENT RECORD:
Slate	190	244	6-18-48 10 3/4" casing, ran as water
Sand	244	284	string at 300 DLM. not cemented.
Slate 296' DLM-300 SLM	284	292	
Sand	292	320	7-10-48 Pulled 10 3/4" casing to 160' SLM-
Slate	320	420	ran bridge below casing and cemented with
Sand	420	441	50 sacks cement followed by plug.
Slate	441	495	Pumped plug to 151' SLM. no circulation.
Sand	495	544	7-13-48 8 5/8" casing set in 10' of red
Slate	544	568	mud.
Sand	568	734	
Slate	734	746	7-26-48 7" casing- ran 12 sacks aquagel
Sand	746	854	mixed 6%. Pumped plug to 1700'- good
Slate	854	933	circulation- no returns.
Sand	933	1088	
Slate	1088	1128	C.C. Co. Crew
Sand	1128	1220	
Slate	1220	1227	
Lime	1227	1239	
Sand	1239	1255	
Slate	1255	1265	
Lime	1265	1281	
Slate	1281	1286	
Red Rock	1286	1320	
Lime	1320	1331	
Red Rock	1331	1342	
Lime	1342	1349	
Slate	1349	1394	
Lime	1394	1458	
Slate	1458	1528	
Sand	1528	1536	
Red Rock	1536	1550	
Slate & Shells	1550	1569	
Lime	1569	1590	
Slate & Shells	1590	1597	
Lime	1597	1624	
Sand	1624	1637	
Slate	1637	1664	
Lime	1664	1684	
Slate	1684	1687	
Lime	1687	1712	
Slate 1729' SLM	1712	1717 DLM	
Big Lime 1740 DLM-1752 SLM 1729 SLM	1729 SLM	1952	
Big Injun Sand	1952	1960 SLM	
Total Depth		1960' SLM	



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

Well Operator's Report of Well Work

Farm name: LOGAN CO. COMMISSION Operator Well No.: A-61, GW-1076

LOCATION: Elevation: 705.00 Quadrangle: HOLDEN

District: ISLAND CREEK County: LOGAN
 Latitude: 2350 Feet South of 37 Des. 50Min. 0 Sec.
 Longitude 9200 Feet West of 82 Des. 0 Min. 0 Sec.

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

Agent: DELBERT G. OLIVER

Inspector: ARTHUR ST. CLAIR
 Permit Issued: 07/09/88

Well work Commenced: 7-27-88
 Well work Completed: 2-17-89

Verbal Plussings
 Permission granted on: _____

Rotary Cable _____ Ris _____
 Total Depth (feet) 4355'

Fresh water depths (ft) _____
 Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): _____

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7.0"	1767'	1767'	Surface
4.5"		4355'	204 CuFt
2.375"		4013'	

RECEIVED
 MAR 24 1989

OPEN FLOW DATA

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Producing formation Lower Huron Pay zone depth (ft) 3852'
 Gas: Initial open flow 94 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 92/142 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 400 psig (surface pressure) after 194 Hours

Second producing formation Berea Pay zone depth (ft) _____
 Gas: Initial open flow 70 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 50 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 48 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.

Delbert G. Oliver

For: OXY USA, INC.

By: Delbert G. Oliver

Date: 2-28-89

MAR 31 1989

Island Creek A-61 (DEEPENING):

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

Lower Huron: Perforated 3529-3852' (122 holes). Frac'd w/ 260,000# sand,
727 BW, 1320 MCF of N2.

Berea: Perforated 2510-2518 (33 holes). Frac'd w/ 20,000# sand,
43 BW, 220 MCF of N2.

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MAR 24 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG:

<u>Formation</u>	<u>Top (Ft)</u>	<u>Bottom (Ft)</u>
Siltstone	1960	2100
Weir	2100	2162
Shale	2162	2479
Sunbury	2479	2508
Berea	2508	2540
Devonian Shale	2540	3526
Lower Huron	3526	3860
Java	3860	4190
Rhinestreet	4190	4345
Marcellus	4345	4370
Onondaga	4370	4374 = Total Depth

4374 new TD
1960 old TP
2414 - new ftg

7297

MAR 31 1989

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

- 1) Well Operator: OXY USA INC. 36205, 5, 401
- 2) Operator's Well Number: Island Creek A-61, GW-1076 3) Elevation: 705.0
- 4) Well type: (a) Oil or Gas
 (b) If Gas: Production Underground Storage
 Deep Shallow
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 4500' feet
- 7) Approximate fresh water strata depths: 39'
- 8) Approximate salt water depths: 840', 850'
- 9) Approximate coal seam depths: 137'
- 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 CASING AND TUBING PROGRAM
 TO BE PULLED

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8		48	18	18	
Fresh Water	10 3/4		33	302	160	50 sx cmt
Coal	8 5/8		24	1344	0	10' of red mud
Intermediate	7		23	1766	1766	12 sx Aquagel
* Production	4 1/2	K55	11.6	4500	4500	30CSR18-16.1 300 cu ft
* Tubing	2 3/8	NUE	4.6	4500	4500	
** Liners	5 1/2		14	1960 (135')	1960 (135')	

**TUBING PACKERS : Kind 3 1/2 7.7 1961 1961
 Sizes 7" MBH ANCHOR PKR
 Depths set 1752' 1825'

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 JUN 23 1988

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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

30072
 79

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JUN 23 1988

1) Date: May 27, 1988
2) Operator's well number
Island Creek A-61, GW-1076
3) API Well No: 47 - 045 - 0205-DD
State - County - Permit

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

4) Surface Owner(s) to be served:
(a) Name Georgia Pacific Corporation
Address 133 Peachtree St. N.E.
Atlanta, GA 30348
(b) Name Attn: xxxxxxxx
Address Logan County Commission
Logan County Courthouse
(c) Name Logan, WV 25601
Address Attn: Danny Ellis

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 _____

6) Inspector Arthur St. Clair
Address P. O. Box 468
Benton, WV 24818
Telephone (304)-732-6217 (436-4527)

(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
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

Chewer S. Stensbury Commissioner
My commission expires April 9, 1989 Notary Public