

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

Janice
1/9/91

FILE NO. 8723-141
 DRAWING NO. G. BOURNE # 1
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION B.M. A-9 - BRASS DISC IN CONC. MERCER CO. AIRPORT
EL. 2843.09

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) *William J. Whitman* R.P.S.
 R.P.E. _____ R.P.S. 646



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE DECEMBER 10, 1990
 OPERATOR'S WELL NO. G. BOURNE # 1
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___

LOCATION: ELEVATION 2445.48 WATER SHED BRUSH FORK
 DISTRICT BEAVER POND COUNTY MERCER
 QUADRANGLE BLUEFIELD, W. VA.

SURFACE OWNER GLEN BOURNE, Sr. ACREAGE 172.54
 OIL & GAS ROYALTY OWNER GLEN BOURNE, Sr. LEASE ACREAGE 175.35
 LEASE NO. 47-9174

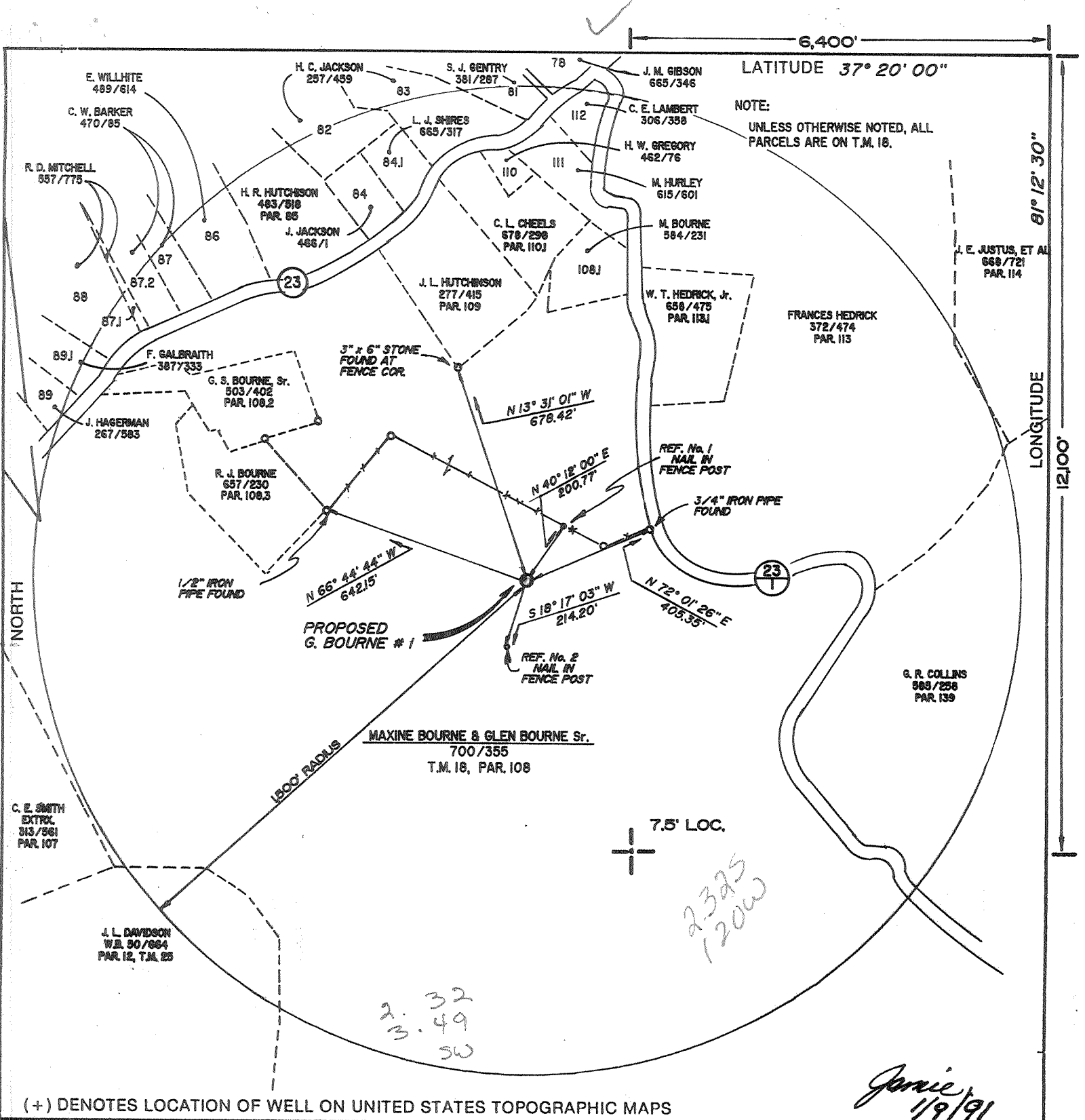
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION TUSCARORA ESTIMATED DEPTH 9500'

WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT DAVID G. McCLUSKEY
 ADDRESS P.O. BOX 1473 ADDRESS P.O. BOX 1473
CHARLESTON, W. VA. CHARLESTON, W. VA.

NOV 22 1991

MERCER 0108



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

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 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1: 2500
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 (SIGNED) William J. Whitman RPS
 R.P.E. _____ R.P.S. 646

WILLIAM J. WHITMAN
 REGISTERED
 No. 646
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE DECEMBER 10, 1990
 OPERATOR'S WELL NO. G. BOURNE # 1
 API WELL NO. 47 055 0108
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2445.48 WATER SHED BRUSH FORK
 DISTRICT BEAVER POND COUNTY MERCER
 QUADRANGLE BLUEFIELD, W. VA. d 15

SURFACE OWNER GLEN BOURNE, Sr. ACREAGE 172.54
 OIL & GAS ROYALTY OWNER GLEN BOURNE, Sr. LEASE ACREAGE 175.35
 LEASE NO. 47-9174

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

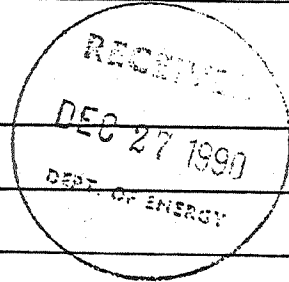
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION TUSCARORA ESTIMATED DEPTH 9500'
 WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT DAVID G. McCLUSKEY
 ADDRESS P.O. BOX 1473 ADDRESS P.O. BOX 1473
CHARLESTON, W. VA. CHARLESTON, W. VA.

PI - 70 received 9/11/91 70 9000

055-0108
 Issued 1/8/91
 Expires 1/8/93
 Page ___ of ___

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

- 1) Well Operator: CABOT OIL & GAS CORPORATION ¹⁰⁹ 7145 (1) 259
- 2) Operator's Well Number: G. Bourne #1 3) Elevation: 2445.
- 4) Well type: (a) Oil / or Gas X/
 (b) If Gas: Production X/ Underground Storage /
 Deep / Shallow X/
- 5) Proposed Target Formation(s): Tuscarora
- 6) Proposed Total Depth: 9660' feet
- 7)* Approximate fresh water strata depths: 700'
- 8)* Approximate salt water depths: None expected.
- 9)* Approximate coal seam depths: 280'
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Drill and stimulate a Tuscarora gas well.
- * Based on Mercer: 1, 3, 14, 77, and 86.
- 12)



CASING AND TUBING PROGRAM

Deep New Well

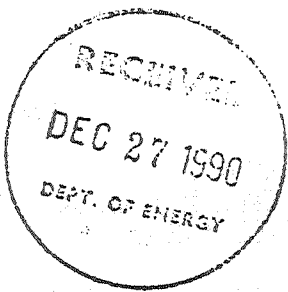
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	20"	LS	94	30'	30'	20 sks Neat
Fresh Water	13-3/8"	J-55	54.5	1000'	1000'	380SP18-11.3 675 sks CTS
Intermediate	9-5/8"	J-55	40	3445'	3445'	380SP11-2.2 610 sks
Intermediate	7"	J-55	23/26	7925'	7925'	130 sks
Production	4-1/2"	J-55/M15	11.6	9600'	9600'	380SP18-11.1 100 sks
Tubing	2-3/8"	J-55	4.7	9600'	9600'	N/A
Liners	N/A					

PACKERS : Kind N/A
 Sizes
 Depths set

For Division of Oil and Gas Use Only

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

2433
38



1) Date: December 21, 1990
2) Operator's well number G. Bourne #1
3) API Well No: 47 - 055 - 0108
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Glen Steve Bourne Sr. et ux</u> Address <u>Rt. Box 465-A</u> <u>Bluefield, WV 24701</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator:</p> <p>Name <u>NOT OPERATED</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>Glen Steve Bourne Sr. et ux</u> Address <u>Rt. 1 Box 465-A</u> <u>Bluefield, WV 24701</u></p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration Name _____ Address _____</p>
<p>6) Inspector <u>Rodney G. Dillon</u> Address <u>P. O. Box 131</u> <u>Bradley, WV 25818</u> Telephone (304)- <u>877-2912</u></p>	

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 _____ 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 CABOT OIL & GAS CORPORATION
 By: David M. Cluskey
 Its: Drilling Superintendent
 Address P. O. Box 1473
Charleston, WV 25325
 Telephone (304) 347-1600

Subscribed and sworn before me this 21st day of December, 1990

Norema L. Proffitt Notary Public
My commission expires May 31, 1999

WR-38
18-Nov-91
RECEIVED
JAN 17
DEPT. OF ENERGY

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

APR 7 41-33-001100-

055-0108-P

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: BOURNE, GLEN STEVE SR. Operator Well No.: G. BOURNE #1

LOCATION: Elevation: 2445.48 Quadrangle: BLUEFIELD
District: BEAVER POND County: MERCER
Latitude: 12100 Feet South of 37 Deg. 20 Min. 0 Sec.
Longitude 6400 Feet West of 81 Deg. 12 Min. 30 Sec.

Well Type: OIL _____ GAS X

Company: CABOT OIL & GAS CORPORATION Coal Operator Glen Steve Bourne, Sr. et
P. O. Box 1473 or Owner Rt. 1 Box 465-A
Charleston, WV 25325 Bluefield, WV 24701

Agent: David G. McCluskey Coal Operator _____
or Owner _____

Permit Issued: 11/18/91

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Kanawha ss:

Milford Shoffner and Gary Shoffner being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Rodney Dillon Oil and Gas Inspector representing the Director, say that said work was commenced on the 16th day of September, 1991, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CL-A	8163'	7400'	13-3/8" 0'	1071'
6% gel	7400'	4100'	9-5/8" 0'	4418'
CL-A	4100'	3600'	7" 4123'	3687'
6% gel	3600'	500'		
CL-A	500'	0'		
CIBP set @ 7000'				

Description of monument: Casing w/ API #
and that the work of plugging and filling said well was completed on the 16th day of September, 1991.

And further deponents saith not.

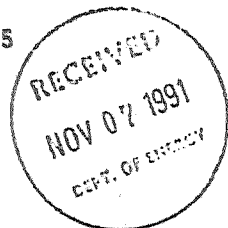
Milford Shoffner
Gary Shoffner

Sworn and subscribe before me this 15th day of January, 1992
My commission expires: May 31, 1999

Narema L. Profit
Notary Public

Oil and Gas Inspector: _____

WR-35



08-Jan-91
API # 47-055-00108

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

Farm name: BOURNE, GLEN STEVE SR. Operator Well No.: G. BOURNE #1

Location: Elevation: 2445.48' Quadrangle: BLUEFIELD

District: BEAVER POND County: MERCER
Latitude: 12100 Feet South of 37 Deg. 20 Min. 0 Sec.
Longitude: 6400 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: CABOT OIL & GAS CORPORATION
P. O. Box 1473
Charleston, WV 25325

Agent: DAVID G. MCCLUSKEY

Inspector: RODNEY G. DILLON
Permit Issued: 01/08/91
Well Work Commenced: 08/06/91
Well Work Completed: 09/14/91
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 8163
Fresh water depths (ft) 40, 455

Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	1071'	1071'	835 sks CL-A
9-5/8"	4418'	4418'	1141 sks CL-A
7"	7810'	3687'	392 sks CL-A

OPEN FLOW DATA

Producing formation Plug & Abandon 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 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 Bbl/d
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: CABOT OIL & GAS CORPORATION

By: [Signature]

Date: 11/14/91

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Spot cmt 8163'-7400'. Spot 6% gel 7400'-4100'. Set 7" Baker CIBP @ 7000'. Cut 7" csg & rec'd 4123'. Spot cmt 4100'-3600'. Spot 6% gel 3600'-500'. Cmt plug 500'-0'. Erect monument w/API #.

FORMATION	TOP	BOTTOM
Surface	0	100
Shale	100	1830
Sandstone w/Shale	1830	2095
Shale	2095	2530
Lime	2530	3930
Shale	3930	4775
Sandstone	4275	4295
Shale	4295	7800
Limestone & Shale	7800	8093
Sandstone	8093	8110
Dolomite	8110	8172

117711
12019