

EXISTING A-II  
882

Jamie 10/18/90

NORTH

SMALL CROSS ON LARGE ROCK  
MARIE LESTER, HEIRS 342/34 T.M. 119, Par. 7  
J. & L. BLANKENSHIP 104/82 T.M. 119, Par. 8

HAROLD SHANNON 350/829 T.M. 119, Par. 6

DRILL HOLE IN STONE AT BASE OF 20" BEECH

SET STONE w/ DOGWOOD & BEECH POINTERS

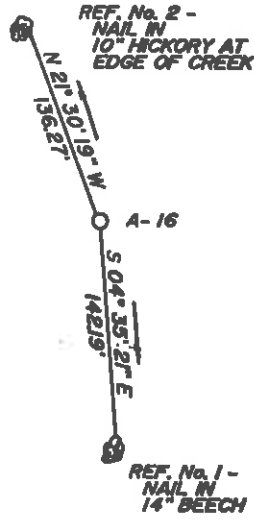
PROPOSED GILBERT/PLUMLEY A-16

GEORGIA PACIFIC CORP. (JOHN GILBERT) 184/62 T.M. 119, Par. 1 12,633.81 Ac.

SURVEY TIES

"A" TO "B" N 16° 01' 00" E 415.20'  
"B" TO "C" S 32° 40' 19" E 300.11'  
"C" TO "A" S 62° 05' 52" W 312.96'

REFERENCES  
N.T.S.



7.5' LOC

1.74 S  
0.10 W

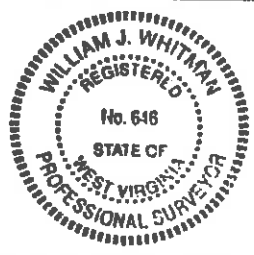
Gilbert SE  
4.625  
0.10 W

1169  
PROPOSED A-15

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

FILE NO. 8723-128  
DRAWING NO. GIL/PLUM. A-16  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1:2500  
PROVEN SOURCE OF ELEVATION SPOT EL. 1247  
INT. OF ROADS N. OF LOC.

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



PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



DATE SEPTEMBER 17, 19 90  
OPERATOR'S WELL NO. GL/PLUM. A-16  
API WELL NO. \_\_\_\_\_

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

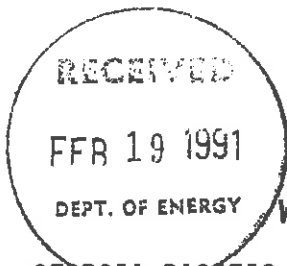
LOCATION: ELEVATION 1288.46 WATER SHED SUKE CREEK OF LITTLE HUFF CREEK  
DISTRICT HUFF CREEK 5 COUNTY WYOMING

QUADRANGLE GILBERT, W. VA.  
SURFACE OWNER GEORGIA PACIFIC CORP. ACREAGE 20,000±  
OIL & GAS ROYALTY OWNER JOHN GILBERT ET AL LEASE ACREAGE 20,624

LEASE NO. 47-0470  
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 B. LIME & BEREA ESTIMATED DEPTH 3800  
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.

OCT 30 1990



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

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: GILB/PLUMLY A16

Location: Elevation: 1288.46 Quadrangle: GILBERT

District: HUFF CREEK County: WYOMING  
Latitude: 9100 Feet South of 37 Deg. 32 Min. 30 Sec.  
Longitude: 500 Feet West of 81 Deg. 45 Min. 0 Sec.

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

Agent: DAVID G. MCCLUSKEY

Inspector: RODNEY G. DILLON  
Permit Issued: 10/22/90  
Well Work Commenced: 12/09/90  
Well Work Completed: 12/18/90  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 3786  
Fresh water depths (ft) 15, 50, 173

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? Y  
Coal Depths (ft): 154-157

Casing &	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	56'	56'	
11-3/4"	415'	415'	215 sks CL-A
8-5/8"	1249'	1249'	300 sks CL-A
4-1/2"	3716'	3716'	300 sks CL-A
1-1/2"		3681.67'	

OPEN FLOW DATA

Producing formation Berea Big Lime Pay zone depth (ft) 3642-3676 2846-2974  
Gas: Initial open flow 110 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1302 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 580 psig (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 \_\_\_\_\_ 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 FEB 25 1991

By: David G. McCluskey

Date: 2-14-91

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

Perforate Berea 3642'-3648' 1 SPF (7 holes) & 3662'-3676' 1 SPF (15 holes). Break down Berea w/500 gal 15% HCl & displ w/70,600 scf N<sub>2</sub> @ 12,000 scfm. BDP 1670 psi. Surf ISIP 1600 psi. Treated w/100,000 lbs 20/40 sand & 593,000 scf N<sub>2</sub> in 75Q foam. Perforate Big Lime 2846'-2854' 1 SPF (9 holes), 2954'-2964' 1 SPF (11 holes) & 2967'-2974' 1 SPF (8 holes). Break down Stage 1 w/ 500 gal 15% HCl & displ w/ 52,300 scf N<sub>2</sub> @ 27,000 scfm. BDP 2600 psi. Surf ISIP 2000 psi. Treated w/8000 gal 15% HCl & 242,260 scf N<sub>2</sub>. Perforate Big Lime 2684'-2696 1 SPF (12 holes). Set Alpha plug @ 2726.5'. Break down Stage 2 w/500 gal 15% HCl & displ w/46,000 scf N<sub>2</sub> @ 18,000 scfm. BDP 2850 psi. Surf ISIP 2150 psi. Treated w/4000 gal 15% HCl & 176,000 scf N<sub>2</sub>.

FORMATION	TOP	BOTTOM
Surface Rock	0	50
Shale	50	80
Sandstone	80	370
Sandy Shale	370	528
Shale	520	670
Sandstone	670	1220
Shale/Shells	1220	1532
Pride Shale	1532	1564
Princeton	1564	1592
Shale	1592	1620
Ravencliff	1620	1666
Shale	1666	1706
Avis	1706	1751
Shale/Sandstone	1750	2354
Lower Maxton	2354	2434
Shale	2434	2472
Little Lime	2472	2632
Pencil Cave	2632	2670
Big Lime	2670	2996
Sandy Shale	2996	3606
Sunbury Shale	3606	3630
Berea	3630	3684
Shale	3684	3786

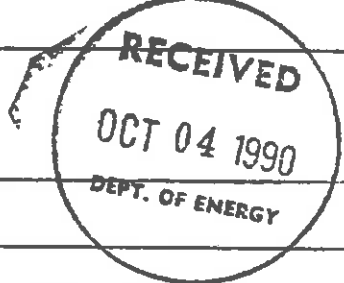
11370

109-1170  
Issued 10/22/90

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

Page \_\_\_ of \_\_\_  
Expires 10/22/92

- 1) Well Operator: CABOT OIL & GAS CORPORATION 8145 (5) 363
- 2) Operator's Well Number: Gilbert & Plumly A-16 3) Elevation: 1288.4
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Big Lime, Berea
- 6) Proposed Total Depth: 3800 feet
- 7) \* Approximate fresh water strata depths: 215, 345
- 8) \* Approximate salt water depths: None expected
- 9) \* Approximate coal seam depths: 138, 418, 795, 981, 1056, 1140
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill and stimulate a commingled gas well.  
\* Based on Wyom: 638, 652, 654, 841, 880, 882 and 950.
- 12)



CASING AND TUBING PROGRAM

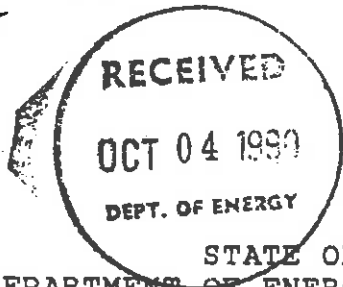
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"	LS	65	40'	40'	10 sks Neat GFS
Fresh Water	11-3/4"	LS	42	400'	400'	220 sks CL-A CTS
Coal						38 CS 18-11-3 38 CS 18-11-2
Intermediate	8-5/8"	J55	24	1200'	1200'	325 sks CL-A CTS
Production	5-1/2"	J55	15.5	3750'	3750'	295 sks CL-A w/ 2% gel
Tubing	1-1/2"	CW55	2.75		3700'	38 CS 18-11-1 N/A
Liners	N/A					

PACKERS : Kind N/A  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

002130  
28

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



- 1) Date: October 2, 1990
- 2) Operator's well number GILBERT & PLUMLY A-16
- 3) API Well No: 47 - 109 - 1170  
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 Corp.  
Address General Delivery  
Wyoming, WV 24898
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name National Mines Corp.  
Address Attn: Dave Dancy  
P. O. Box 960, Pineville, WV 24874
  - (b) Coal Owner(s) with Declaration  
Name SEE ATTACHED  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Rodney G. Dillon  
Address P. O. Box 131  
Bradley, WV 24818  
Telephone (304)-683-3989  
877-2921
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
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 \_\_\_\_\_ 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. Charles  
Its: Drilling Superintendent  
Address P. O. Box 1473  
Charleston, WV 25325  
Telephone (304) 347-1600

Subscribed and sworn before me this 2nd day of October, 1990

Norma L. Profit Notary Public  
My commission expires May 31, 1999