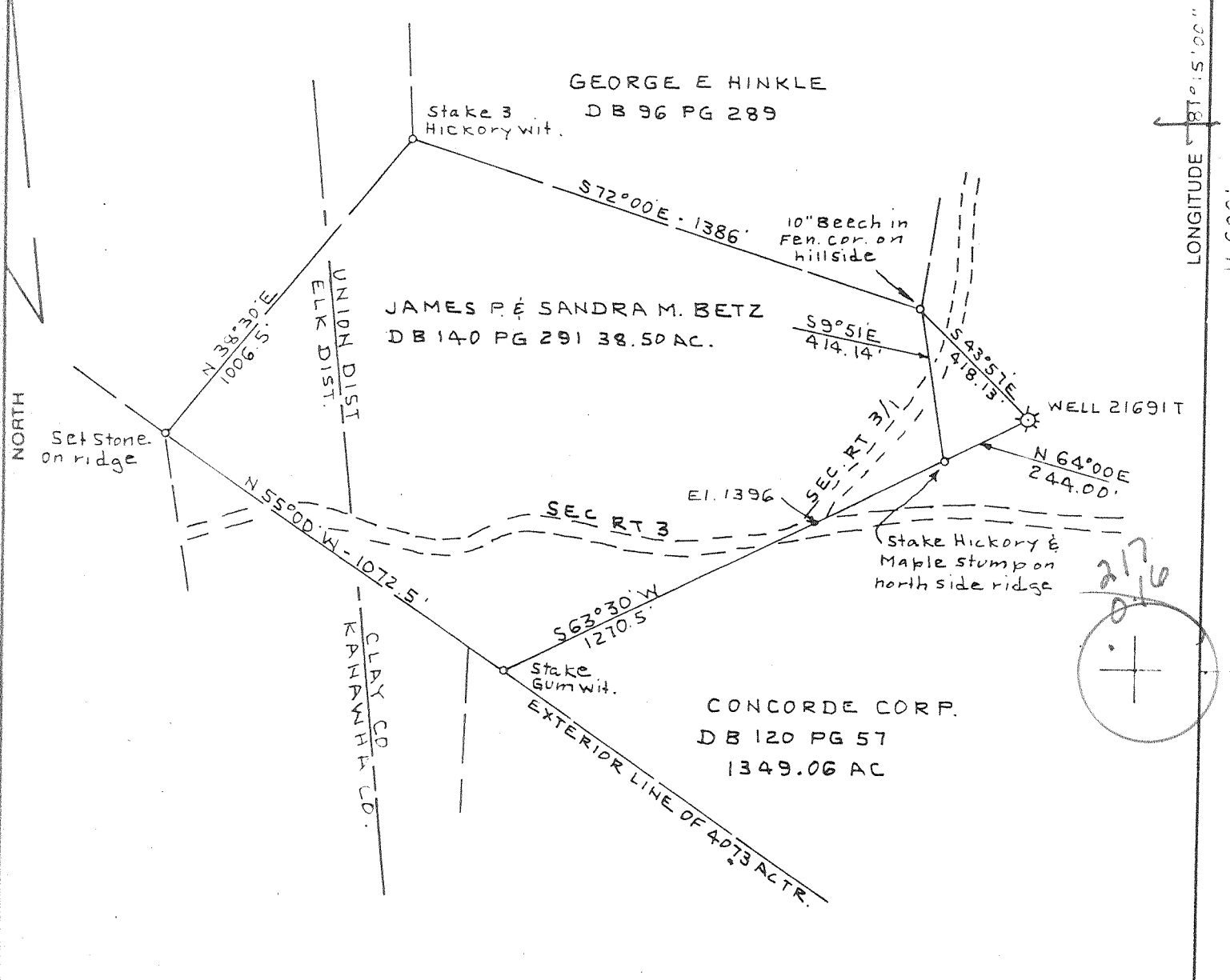


REVISED PLAT  
SHOWING WELL AS DRILLED

LATITUDE 38°25'00"

900



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

FILE NO. BK 111 PG 10A  
 DRAWING NO. 21691-T.P.I.  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION Road Forks as shown El 1396

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 ENERGY.

(SIGNED) [Signature]  
 R.P.E. \_\_\_\_\_ L.L.S. 92

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE SEPT 26 1988  
 OPERATOR'S WELL NO. 21691-T.P.I.  
 API WELL NO. 47-015-2426-Res.  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1439.90 WATERSHED FALLING ROCK CREEK  
 DISTRICT UNION 5 COUNTY CLAY  
 QUADRANGLE CLENDENIN 299 029.6 45'EC  
 SURFACE OWNER CONCORDE CORP. ACREAGE 1349.06  
 OIL & GAS ROYALTY OWNER CONCORDE CORP. LEASE ACREAGE 3338  
 LEASE NO. 201232

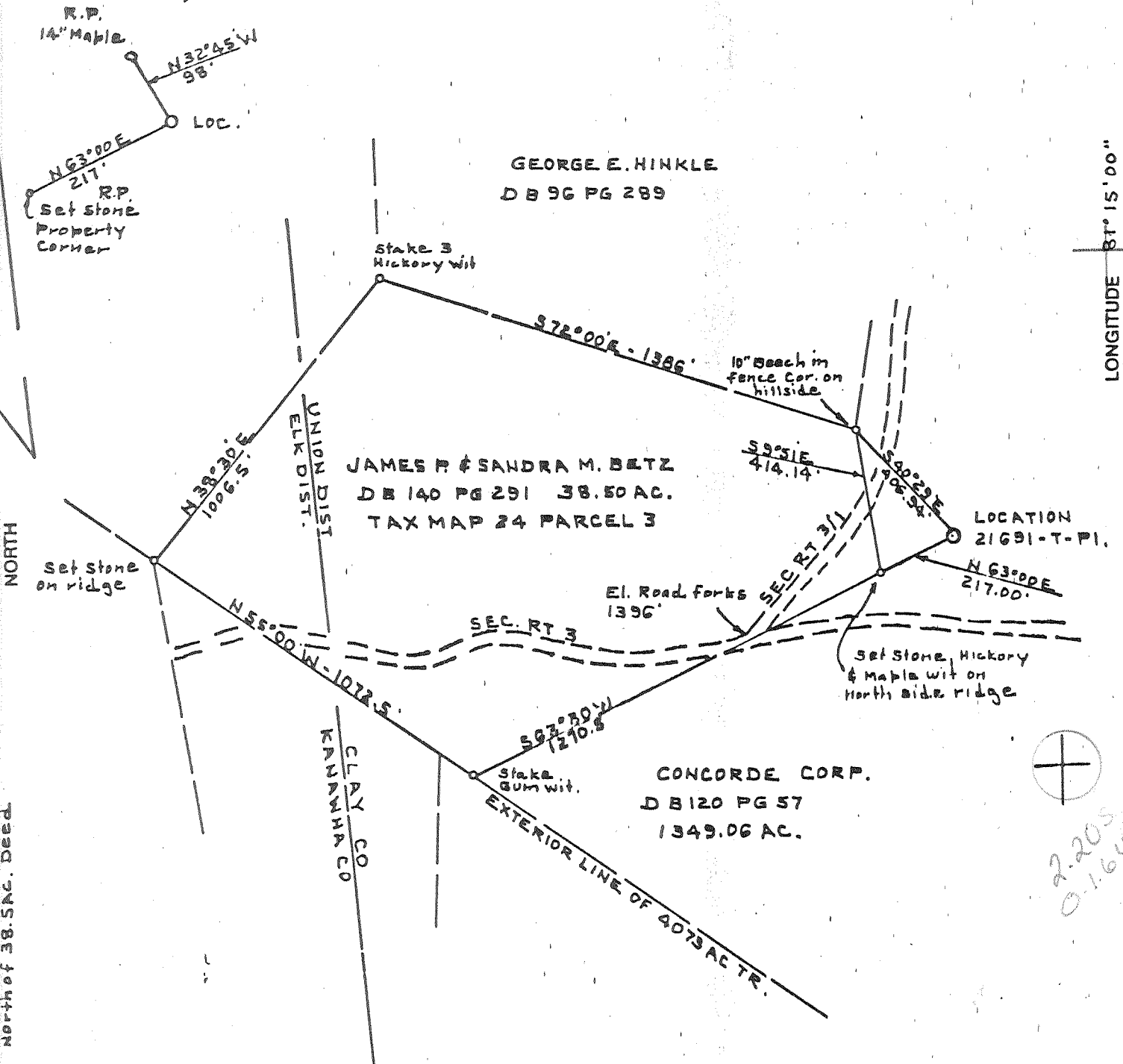
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 6000'  
 WELL OPERATOR COLUMBIA NATURAL RESOURCES DESIGNATED AGENT J.E. CAMPBELL  
 ADDRESS PO Box 1273 CHARLESTON WV 25325 ADDRESS PO Box 1273 CHARLESTON WV 25325

OCT 10 1988

DEEP WELL 3-6 Middle Sycamore Creek (224) DPT-Orisk

Janie 5/24/88



LONGITUDE 80°51'18"

5295'

NORTH  
North of 38.5 AC. DEED

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

FILE NO. BK III PG 10  
 DRAWING NO. 21691-T-P1  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1:2500'  
 PROVEN SOURCE OF ELEVATION Road Forks  
as shown E 1396'

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 ENERGY.  
 (SIGNED) C. J. Valley Jr.  
 R.P.E. \_\_\_\_\_ I.L.S. 92

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE MARCH 1, 1988  
 OPERATOR'S WELL NO. 21691-T-P1  
 API WELL NO.

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 1430.33 WATERSHED FALLING ROCK CREEK  
 DISTRICT UNION 5 COUNTY CLAY  
 QUADRANGLE CLENDENIN 299 029 6  
 SURFACE OWNER CONCORDE CORP. ACREAGE 1349.06  
 OIL & GAS ROYALTY OWNER CONCORDE CORP. LEASE ACREAGE 3338  
 LEASE NO. 201232

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

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 6000'  
 WELL OPERATOR COLUMBIA NATURAL RESOURCES DESIGNATED AGENT J. E. CAMPBELL  
 ADDRESS P.O. BOX 1273 1013 ADDRESS P.O. BOX 1273  
CHARLESTON WV 25325 deepwell CHARLESTON WV, 25325

COUNTY NAME

PERMIT

2.205  
 0.164

JAN 11 1990

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

015-2426

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

Farm name: Concorde Corporation Operator Well No.: 21691

LOCATION: Elevation: 1430' Quadrangle: Clendenin

District: Union County: Clay  
Latitude: 950 Feet South of 38 Deg. 25 Min. - Sec.  
Longitude 11,625 Feet West of 81 Deg. 15 Min. - Sec.

Company: COLUMBIA NATURAL RESOURCE  
P. O. Box 6070  
CHARLESTON, WV 25362

Agent: JOSEPH E. CAMPBELL

Inspector: Homer Dougherty  
Permit Issued: 6-3-88  
Well work Commenced: June 21, 1988  
Well work Completed: July 7, 1988  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2500  
Fresh water depths (ft) 65-540

Salt water depths (ft) 1700-1800

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 620-624

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	35	25	5
11-3/4"	340	330	156
8-5/8"	2485	2472	628
4-1/2"	6218	6218	960

OPEN FLOW DATA

Producing formation Injun/Weir Pay zone depth (ft) 2334-2418  
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/c  
Final open flow 1010 MCF/d Final open flow - Bbl/c  
Time of open flow between initial and final tests 6 Hours  
Static rock Pressure 465 psig (surface pressure) after 136 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/c  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/c  
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.

Vice President, Drilling & Production Operations  
For: COLUMBIA NATURAL RESOURCES, INC.

By: Joseph E. Campbell  
Date: 1-9-90

JAN 19 1990

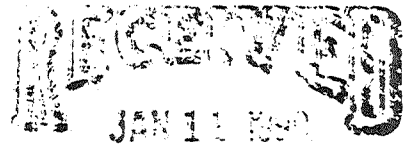
Well 21691

API #47-15-2426

Formation:

Surface	0 - 15	
Sand & Shale	15 - 35	
Sand	35 - 53	
Shale	53 - 60	
Sand	60 - 350	1/4" water @ 65'
Shale	350 - 370	
Sand & Shale	370 - 620	1/4" water @ 540'
Coal	620 - 624	
Sand & Shale	624 - 1260	
Salt Sand	1260 - 1908	3" water @ 1700'-1800'
Sand Shale	1908 - 2070	
Sand	2070 - 2110	
Lime	2110 - 2310	
Sand	2310 - 2334	
Injun	2334 - 2418	
Sand & Shale	2418 - 5521	Plug back T.D. 2500'
Marcellus Shale	5521 - 6103	
Onondaga Lime	6103 - 6234	
Oriskany	6234 - 6264	
Lime Sand	6264 - 6280	
Sand & Lime	6280 - 6325	
Lime	6325 - 6365	T.D.

6365  
 2418  
 3947



Well was plugged back to final T.D. of 2500' 6-8-89.

- 1) Set mechanical Bridge Plug @ 6175', cemented to 2700'.
- 2) Set Baker NC-1 plug @ 2500' and cemented to 2000'.

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

Treated Injun/Weir as follows:

Perf'd w/Alpha Jet (4 holes) 2468-2470.

Weir - 2404'-2418'

Fraced w/500 gal. 15% HCl acid, filled up & broke down w/75  
 qual. foam @ 3900#. Treating & flush water 217 bbls.  
 Total N<sub>2</sub> used 456,000 scf; total sand 500 sks.  
 Avg. press. 2980 psi, Avg. rate 24.5 BPM.

Injun - 2334'-2352'

Fraced w/1000 gal. 15% HCl acid, filled up & broke down w/75  
 qual. foam @ 2570#. Treating & flush water 203 bbls.  
 Total N<sub>2</sub> 386,000 scf. Total sand 500 sks, Avg. press. 2940 psi,  
 Avg. rate 31 BPM.

705j

3

015-2426 Drawn 6/3/88  
Expires 6/3/90

FORM WW-

Page 1 of 1

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

- 1) Well Operator: Columbia Natural Resources, Inc. 10460, 5, 299
- 2) Operator's Well Number: 21691-TPI 3) Elevation: 1430.33
- 4) Well type: (a) Oil  or Gas   
(b) If Gas: Production  Underground Storage   
Deep  Shallow
- 5) Proposed Target Formation(s): Oriskany 475
- 6) Proposed Total Depth: 5800 feet
- 7) Approximate fresh water strata depths: From Clay 310, 392, 445, 554, 857, 982, 2164, 2165, 2407  
90' - 160', 336'
- 8) Approximate salt water depths: 1300'
- 9) Approximate coal seam depths: Last coal @ 275', 325-329, 689-681, 734-730
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill & Free 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	20"	H-40	54#	20'	20' <i>GS</i>	20'
Fresh Water	-	-	-	-	-	38CSRB-11.3
Coal	13-3/8"	H-40	48#	325'	325' <i>GS</i>	38CSRB-11.2 230'
Intermediate	8-5/8"	H-40	24#	2450'	2450' <i>GS</i>	640'
Production	4-1/2"	J-55	11.6#	5800'	5800'	38CSRB-11.1 120'
Tubing	2-3/8"	J-55	4.6#	-	5800'	
Liners						

**RECEIVED**  
MAY 18 1988

PACKERS : Kind None  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

7058  
5013846  
14  
JJA

Fee(s) paid: JJA Well Work Permit JJA Reclamation Fund JJA WPCP  
JJA Plat JJA WW-9 JJA WW-2B JJA Bond 503 blanket JJA Agent

**RECEIVED**  
MAY 18 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1)  
2)  
3)

Date: May 6, 1988  
Operator's well number  
21691-TPI  
API Well No: 47 - 015 - 2426  
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 Concorde Corporation /  
Address 17787 Scarsdale Way  
Boca Raton, FL 33434  
(b) Name James P. Betz /  
Address 450 Dutch Ridge Road  
Clendenin, WV 25045  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Homer Dougherty  
Address Linden Route, Box 3-A  
Looneyville, WV 25259  
Telephone (304)-927-4591

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Morgantown Mine Management Corp. /  
Address c/o Porter Creek Coal Company  
Concorde Corporation  
Name P. O. Box 1066  
Address Morgantown, WV  
(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:

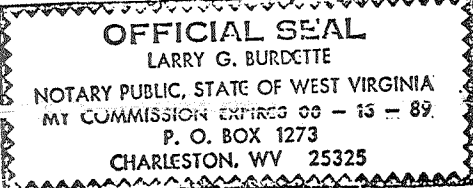
- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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 Columbia Natural Resources, Inc.  
By: [Signature]  
Its: Vice President, Drilling and Production Operations  
Address P. O. Box 1273  
Charleston, WV 25325  
Telephone 304/357-2000



Subscribed and sworn before me this 9th day of May, 1988

[Signature] Notary Public  
My commission expires August 13, 1989