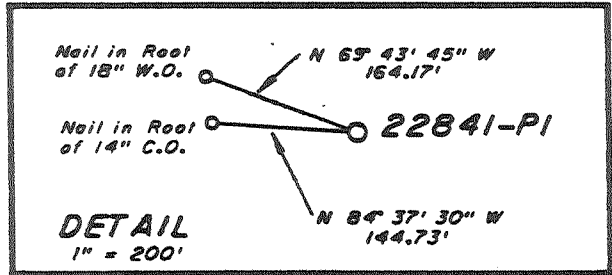


11,675'

LATITUDE 39° 07' 30"

LONGITUDE 79° 12' 30"

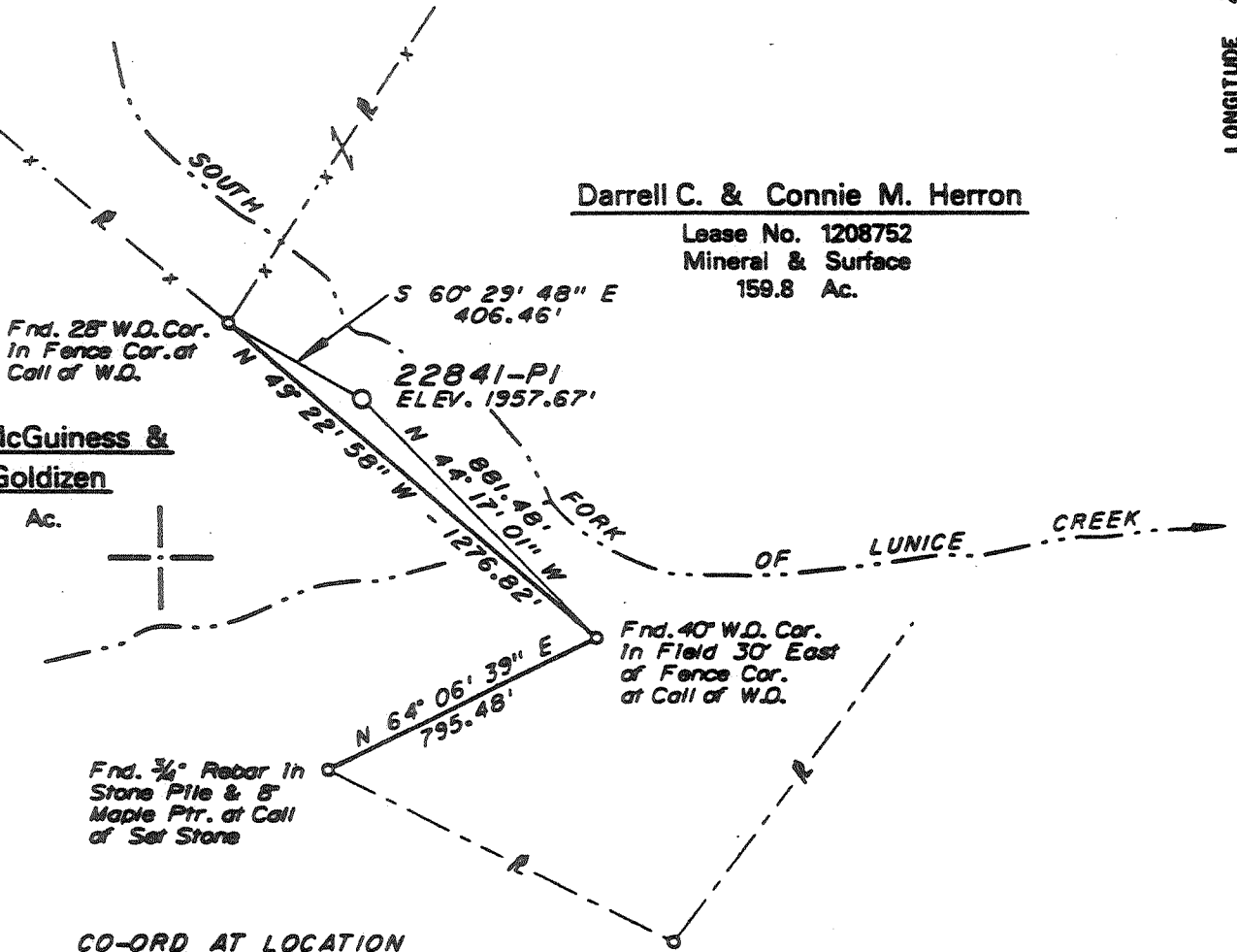


Darrell C. & Connie M. Herron

Lease No. 1208752
Mineral & Surface
159.8 Ac.

James G. McGuinness & Willis Goldizen

330 Ac.



CO-ORD AT LOCATION

LAT : 39° 05' 48"
LONG : 79° 14' 28"

REVISED 08-10-94

NOTE BOOK 449-A PG. 13-B
L.D.R.

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

FILE NO. _____
 DRAWING NO. 22841-PI
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION U.S. GOV'T BM 1967 ELEV. 1732' ON S.E. WINGWALL OF CULVERT

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) James L. Banning
 R.P.E. _____ L.L.S. 398

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE 07-27, 1994
 OPERATOR'S WELL NO. 22841-PI
 API WELL NO.

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1957.67' WATER SHED SOUTH FORK OF LUNICE CREEK
 DISTRICT UNION COUNTY GRANT
 QUADRANGLE MAYSVILLE, WY
 SURFACE OWNER DARRELL C. & CONNIE M. HERRON ACREAGE 159.8
 OIL & GAS ROYALTY OWNER D.C. & C.M. HERRON LEASE ACREAGE 159.8 - (590 AC. UNIT)
 LEASE NO. 1208752

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 ORISKANY ESTIMATED DEPTH 8100'
 WELL OPERATOR COLUMBIA NATURAL RES. INC. DESIGNATED AGENT J. E. CAMPBELL
 ADDRESS P.O. BOX 6070 ADDRESS SAME
CHARLESTON, WY 25362

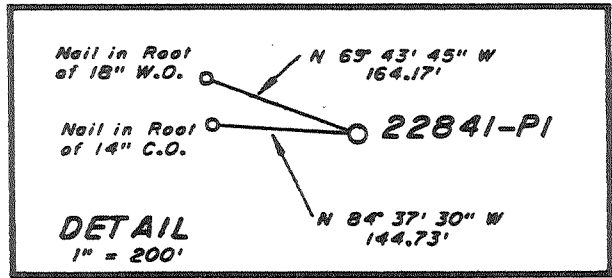
GRA COUNTY NAME PERMIT 0032-1-1

9-AM 88-3

11,675'

LATITUDE 39° 07' 30"

LONGITUDE 79° 12' 30"
10,500'



Darrell C. & Connie M. Herron

Lease No. 1208752
Mineral & Surface
159.8 Ac.

**James G. McGuinness &
Willis Goldizen**

330 Ac.

Fnd. 28" W.D. Cor.
In Fence Cor. at
Call of W.D.

S 60° 29' 48" E
406.46'

22841-PI
ELEV. 1957.67'

N 42° 22' 56" W - 1276.82'
N 44° 17' 01" W - 881.46'

Fnd. 40" W.D. Cor.
In Field 30' East
of Fence Cor.
at Call of W.D.

Fnd. 3/4" Rebar in
Stone Pile & 8"
Maple Pfr. at Call
of Set Stone

CO-ORD AT LOCATION

LAT : 39° 05' 48"
LONG : 79° 14' 28"

4.83S
4.44W

REVISED 08-10-94

NOTE BOOK 449-A PG. 13-B
L.D.R.

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

FILE NO. _____
DRAWING NO. 22841-PI
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1:2500
PROVEN SOURCE OF
ELEVATION U.S. GOV'T BM 1967
ELEV. 1732' ON S.E. WINGWALL
OF CULVERT

I THE UNDERSIGNED, HEREBY CERTIFY THAT
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KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.

(SIGNED) James L. Browning
R.P.E. _____ L.L.S. 398

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE 07-27, 1994
OPERATOR'S WELL NO. 22841-PI
API WELL NO.

47 023 0032-T
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1957.67' WATER SHED SOUTH FORK OF LUNICE CREEK

DISTRICT UNION COUNTY GRANT

QUADRANGLE MAYSVILLE, WV Greenland Gap WV

SURFACE OWNER DARRELL C. & CONNIE M. HERRON ACREAGE 159.8

OIL & GAS ROYALTY OWNER D.C. & C.M. HERRON LEASE ACREAGE 159.8 - (590 AC. UNIT)

LEASE NO. 1208752

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 ORISKANY ESTIMATED DEPTH 8100'

WELL OPERATOR COLUMBIA NATURAL RES. INC. DESIGNATED AGENT J. E. CAMPBELL

ADDRESS P.O. BOX 6070 1013 ADDRESS SAME

CHARLESTON, WV 25362

DEEP WELL 6-0 2 (376)

SEP 17 1994

9-AM RWD

COUNTY NAME PERMIT

RECEIVED

WV Division of Environmental Protection

15-Sep-94
API #47-23-00032

SEP 06 1995

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

Permitting
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: HERRON, DARREL C.

Operator Well No. 22841

LOCATION: Elevation 1,957.67 Quadrangle: MAYSVILLE GAP

District: UNION County: GRANT
Latitude: 10300 Feet South of 39 Deg. 7 Min. 30 Sec.
Longitude: 11675 Feet West of 79 Deg. 12 Min. 30 Sec.

Company: COLUMBIA NATURAL RESOURCES
P. O. BOX 6070
CHARLESTON, WV 25362-0070

Agent: JOSEPH E. CAMPBELL

Inspector: PHILLIP TRACY
Permit Issued: 09/15/94
Well Work Commenced: 10/24/94
Well Work Completed: 06/29/95
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 8118
Fresh water depths (ft) -
35-78 363
Salt water depths (ft) -

Casing & Tubing	Used in Drilling	Left in Well	Fill Up Cu. Ft.
13-3/8	184	184	118
9-5/8	2273	2273	710
5-1/2	7923	3970	-
			-

*See Plugging Affidavit

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

OPEN FLOW DATA Well P&A

Producing formation - Pay zone depth (ft) 10120
 Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
 Final open flow - MMCF/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: COLUMBIA NATURAL RESOURCES, INC.
By: *Joseph E. Campbell*
Date: 8-31-95

FORMATION

WELL NO. 22841

0	-	3657	Devonian Shale
3657	-	5872	Brallier Shale
5872	-	6030	Harrell Shale (Black Shale)
6030	-	6050	Tully LS
6050	-	6975	Mahantango Sh
6975	-	7246	Upper Marcellus (Black Shale)
7246	-	7406	Purcell LS (Fault 7406')
7406	-	7521	Purcell
7521	-	7599	Lower Marcellus (Tioga Metabentonite 7580-90)
7599	-	7740	Needmore Sh
7740	-	7840	Oriskany Sd (Fault 7840')
7840	-	7921	Needmore Sh
7921	-	DTD	Oriskany Sd

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WV Division of
Environmental Protection

47-023-00032

FORM WW-2B

SEP 07 1994

Page 3 of 4

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Permitting
Office of Oil & Gas
WELL WORK PERMIT APPLICATION

Issued 9/15/94
Expires 9/15/96
③ 465

- 1) Well Operator: Columbia Natural Resources, Inc. 10460
- 2) Operator's Well Number: 22841 3) Elevation: 1957.67'
- 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: 8100 feet
- 7) Approximate fresh water strata depths: -
- 8) Approximate salt water depths: -
- 9) Approximate coal seam depths: -
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and Stimulate 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	13-3/8	H	54.5	140	140	97
Fresh Water						38 CSR 18 11.3
Coal						38 CSR 18 11.2.2
Intermediate	9-5/8	J	40	2200	2200	689
Production	5-1/2	N	17	8100	8100	519
Tubing	2-3/8	N	4.7		8000	38 CSR 18 11.1
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

50117090
39

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

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WV Division of
Environmental Protection

SEP 07 1994

- 1) Date: August 19, 1994
- 2) Operator's well number: 22841
- 3) API Well No: 47 - 023 - 0032-T
State - County - Permit

Permitting STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Darrel C. Herron
 - Address Rt. 1, Box 83, Jordan Run Rd. Maysville, WV 26833
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 5) (a) Coal Operator:
 - Name _____
 - Address _____
 - (b) Coal Owner(s) with Declaration
 - Name Darrel C. Herron
 - Address Rt. 1, Box 83, Jordan Run Rd. Maysville, WV 26833
 - Name _____
 - Address _____
 - (c) Coal Lessee with Declaration
 - Name _____
 - Address _____
- 6) Inspector Phillip Tracy
 - Address Route 2, Box 37-A Montrose, WV 26283
 - Telephone (304)- 636-8798

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
 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)
 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 & Production Operations
Address P. O. Box 6070
Charleston, WV 25362-0070
Telephone 304/353-5000

Subscribed and sworn before me this 23 day of August, 1994

[Signature] Notary Public
My commission expires May 25, 1998

NOTARIAL SEAL
NOTARY PUBLIC STATE OF WEST VIRGINIA
STEPHEN V. SMOLLETT
P. O. BOX 4100
CHARLESTON, WV 25362
MY COMMISSION EXPIRES 05-25-98

WELL NO. 22841

Sand or Zone Record	Filling Material	Plugs Used	Casing Pulled	Casing Left In
Formation		Size and Kind		
7800-7400' Oriskany, Needmore, Marcellus	Cement	400'	5-1/2" - 4003'	3970
7400-4000' Purcell, U. Marcellus, Shale & Tully Limestone	Gel		9-5/8" - 0'	2273
4000-3800' (Casing cmt)	Cement	200'		
3800-2400' Brallier Shale	Gel			
2400-2150' (9-5/8" shoe)	Cement	250'		
2150-80' Devonian Shale	Gel			
80' - Surface Shale	Cement	80		

Coal Seams

Description of Monument

(Name)				40" - 5-1/2" casing w/API # inscribed on sides
(Name)				
(Name)				
(Name)				