



1) Date: March 14, 19 83
 2) Operator's Well No. Cornell #2
 3) API Well No. 47 State 073 County 1609 Permit

ILLING CONTRACTOR:

Beacon Resources Corp.
17th Street
Vienna, W. Va. 26105

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

- 4) WELL TYPE: A Oil Gas Underground storage Deep Shallow
 B (If "Gas", Production) _____
 Elevation: 875'
 5) LOCATION: District: Jefferson Watershed: Sharps Run Quadrangle: Schultz
 County: Pleasants Address: #1 - 17th Street
 6) WELL OPERATOR Beacon Resources Corp. Address: Vienna, W. Va. 26105
 7) OIL & GAS ROYALTY OWNER Lillian A. Cornell Address: 305 Riverside Drive
St. Marys, W. Va. 25170
 8) SURFACE OWNER Lillian A. Cornell Address: 305 Riverside Drive
St. Marys, W. Va. 25170
 9) FIELD SALE (IF MADE) TO: Consolidated Gas Co. Address: _____
 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name: Robert Lowther Address: _____
 Phone #1-758-4764
Middlebourne, W. Va.
 15) PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) Marcellus
 16) GEOLOGICAL TARGET FORMATION, 4000' feet
 17) Estimated depth of completed well, _____ feet; salt, -0- feet.
 18) Approximate water strata depths: Fresh, 800 feet; Is coal being mined in the area? Yes _____ / No _____
 19) Approximate coal seam depths: n/a

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 MAR 17 1983
 OIL AND GAS DIVISION
 WV DEPARTMENT OF

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		PERCENT FILL-UP OR SACKS (cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor						975	975		Kinds <u>NEAT</u>
Fresh water	<u>8-5/8"</u>								Sizes
Coal									Depths set <u>OR</u>
Intermediate						<u>4000 T.D.</u>	<u>4000 T.D.</u>	<u>330 SK</u>	<u>by Rule 15</u>
Production	<u>4-1/2"</u>					<u>3900</u>	<u>3900</u>		Perforations:
Tubing	<u>2"</u>								Top _____
Liners									Bottom _____

21) EXTRACTION RIGHTS

Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing a similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you must use Affidavit Form IV-60.
 23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivery to the named coal operator, coal owner(s), and coal lessee on or before the day of mailing of this Permit Application to the above named Mines at Charleston, West Virginia.

Notary: John E. Smittle
 My Commission Expires July 16, 1991

Permit number 47-073-1609

OFFICE USE ONLY
 DRILLING RMY

This permit covering the well operator and well location shown below is evidence of permit requirements subject to the conditions contained herein and on the reverse hereof. Notification is given that the permit holder shall be liable for the cost of any drilling or other work required for flat well royalty or for oil or gas so extracted.
 (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work, the permit holder shall cause a well operator or his contractor to be notified to drill in accordance with the pertinent legal requirements and to be drilled in accordance with the pertinent legal requirements and to be drilled in accordance with the pertinent legal requirements.

Permit expires <u>November 22, 1983</u>	Bond: <u>BB</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>1199</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

Signed: John E. Smittle
 Agent
 Date: March 22
 1983

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
- "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.07 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a; and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make must be filed with the Department of Mines within fifteen (15) days of the receipt of this Application by the Department.

The undersigned coal operator _____ owner/lessee _____ of the coal under this well location has examined this proposed well location. If a mine map which covers the area of the well location, the well location has been recorded to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well location complies with all applicable regulations of the West Virginia Code and the governing regulations.

The following waiver must be completed the coal operator and by any coal owner or coal lessee and recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

By _____

Its _____

19____

NOTE: Keep one copy of this permit posted at the drilling location.

THE OIL AND GAS DIVISION
OF THE DEPARTMENT OF MINES

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MAR 17 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BEACON RESOURCES DESIGNATED AGENT WALTER ALLEN
Address No 1, 17TH ST, VIENNA, WVA Address No 1, 17TH ST, VIENNA W,VA
Telephone 295-3284 Telephone 295-3284
LANDOWNER RALPH L. CORNELL SOIL CONS. DISTRICT UPPER OHIO
Revegetation to be carried out by BEACON RESOURCES (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan: 3/11/83 (Date)
 Kenneth R. Mason (SCD Agent)

ACCESS ROAD

LOCATION

Structure 15" CULVERT (A)
Spacing _____
Page Ref. Manual 2-7, 2-8
Structure CRUSHED STONE (B)
Spacing AT CULVERT
Page Ref. Manual _____
Structure CROSS DRAINS (C)
Spacing 60-135
Page Ref. Manual 2-4

Structure _____ (1)
Material _____
Page Ref. Manual _____
Structure _____ (2)
Material _____
Page Ref. Manual _____
Structure _____ (3)
Material _____
Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I + II

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 500 400 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* KY FESCUE 40 lbs/acre
RED CLOVER 8 lbs/acre
_____ lbs/acre

Treatment Area III

Lime _____ Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/acre
Seed* _____ lbs/acre
_____ lbs/acre
_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY DARRELL BOICE
ADDRESS RT 1
ELIZABETH, W. VA
PHONE NO. 474-3654

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

PERFORATED: 36 HOLES 3670'-4087'

FRACTURED: 1st STAGE BROKE @ 3000 # 1,000,000 SCF N2

2nd STAGE BROKE @ 2800 # 1,400,000 SCF N2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
SANDSTONE			1040	1220	
SHALE	GRAY		1220	1230	
SANDSTONE			1230	1490	
SHALE	GRAY		1490	1590	
SANDSTONE			1590	1850	
SHALE	GRAY		1850	1920	
SILTSTONE			1920	2290	
SHALE			2290	2490	
SILTSTONE/SHALE			2490	2870	
SHALE/SILTSTONE			2870	2950	
SILTSTONE	GRAY		2950	3050	
SHALE/SILTSTONE			3050	3180	
SILTSTONE			3180	3270	
SHALE/SILTSTONE			3270	3370	
SILTSTONE/SHALE			3370	3730	
SILTSTONE			3730	3780	
SHALE			3780	4080	
SHALE/SILTSTONE			4080	4160	
SHALE			4160	TD	

(Attach separate sheets as necessary)

VISTA OIL AND GAS CORPORATION
Well Operator

By: Russell T. Poole

Date: 07/01/83

Note: Resolution 2.02 (1) provides as follows:
The well log shall have a systematic numbering

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NOV 14 1984

corrected 11/07/84

Date: 7-16, 19 84

OIL & GAS DIVISION
DEPT. OF MINES

Operator's
Well No. RL Cornell #2

API Well No. 47 - 073 - 1609
State County Permit

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

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Beacon Resources Corp.
Address PO Box 5370
Vienna, WV 26105

DESIGNATED AGENT John Smittle
Address No. 1 17th Street
Vienna, WV 26105

GEOLOGICAL TARGET FORMATION: Marcellus Depth 4000 feet
Perforation Interval 3670-4087 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 51.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE 1-9-84	TIME 10:00am	END OF TEST-DATE 1-10-84	TIME 10:00am	DURATION OF TEST 24 hours
TUBING PRESSURE	CASING PRESSURE 300	SEPARATOR PRESSURE 120	SEPARATOR TEMPERATURE	
OIL PRODUCTION DURING TEST 11 bbls.	GAS PRODUCTION DURING TEST 48 Mcf		WATER PRODUCTION DURING TEST & SALINITY bbls. ppm.	
OIL GRAVITY 52°API	PRODUCING METHOD (flowing, pumping, gas lift, etc.) flowing			

GAS PRODUCTION		
MEASUREMENT METHOD: FLANG TAP <input checked="" type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>	POSITIVE CHOKE <input checked="" type="checkbox"/> CRITICAL FLOW PROVER <input type="checkbox"/>	
ORIFICE DIAMETER 3/4"	PIPE DIAMETER (INSIDE DIAM.) 2.067	NOMINAL CHOKE SIZE - IN. 24/64
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE 500	PROVER & ORIFICE DIAM. - IN.
DIFFERENTIAL 20" -2"	STATIC	GAS GRAVITY (AIR-1.0) MEASURED <input checked="" type="checkbox"/> ESTIMATED
GAS GRAVITY (AIR-1.0) .75	FLOWING TEMPERATURE	GAS TEMPERATURE _____ °F
24 HOUR COEFFICIENT.	24 HOUR COEFFICIENT	
		PRESSURE - _____ psia

TEST RESULTS			
DAILY OIL 11 bbls.	DAILY WATER bbls.	DAILY GAS 48 Mcf.	GAS-OIL RATIO 4.36 SCF/STB

Beacon Resources Corp.

Well Operator
By: Ken Wharton
Its: Completions Manager

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

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JUN -7 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 073-1609

Oil or Gas Well _____
(KIND)

Company Beacon Resources
 Address Vienna w. Va.
 Farm Lillian A. Cornell
 Well No. 2
 District Jefferson County Pleasant
 Drilling commenced 6-3-83
 Drilling completed _____ Total depth 1262
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4	10 15	10 15	
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8 5/8 SIZE 10 15 No. FT 6-5-83 Date
 NAME OF SERVICE COMPANY Howser
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names Dick Burnham Tool pusher
C.H. Manning Contractor
 Remarks: _____

6-6-83

DATE

R.A. Lowther

DISTRICT WELL INSPECTOR

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

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JUN 15 1983

INSPECTOR'S WELL REPORT

Permit No. 073-1609

OIL & GAS DIVISION
DEPT. OF MINES
(KIND)

Company Beacon Resources
 Address Vienna W. Va
 Farm L. Cornell
 Well No. 2
 District Jefferson County Pleasant
 Drilling commenced _____
 Drilling completed 6-8-83 Total depth 4173
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/2			
6 3/4			Depth set _____
5 3/16	<u>4 1/2</u>	<u>4135</u>	<u>4135</u>
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 4 1/2 SIZE 4135 No. FT 6-8-83 Date
 NAME OF SERVICE COMPANY NowSCO
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: _____

6-8-83
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR

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SEP 12 1984

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
August 31, 1984

COMPANY Beacon Resources Corporation

PERMIT NO 073-1609 (3-22-83)

#1 Seventeenth Street

FARM & WELL NO Lillian Cornell #2

Vienna, West Virginia 26105

DIST. & COUNTY Jefferson/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	✓	
25.04	Prepared before Drilling to Prevent Waste	✓	
25.03	High-Pressure Drilling	✓	
16.01	Required Permits at Wellsite	✓	
15.03	Adequate Fresh Water Casing	✓	
15.02	Adequate Coal Casing	✓	
15.01	Adequate Production Casing	✓	
15.04	Adequate Cement Strenght	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED

R. H. Lowther

DATE

Sept 10, 1984

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

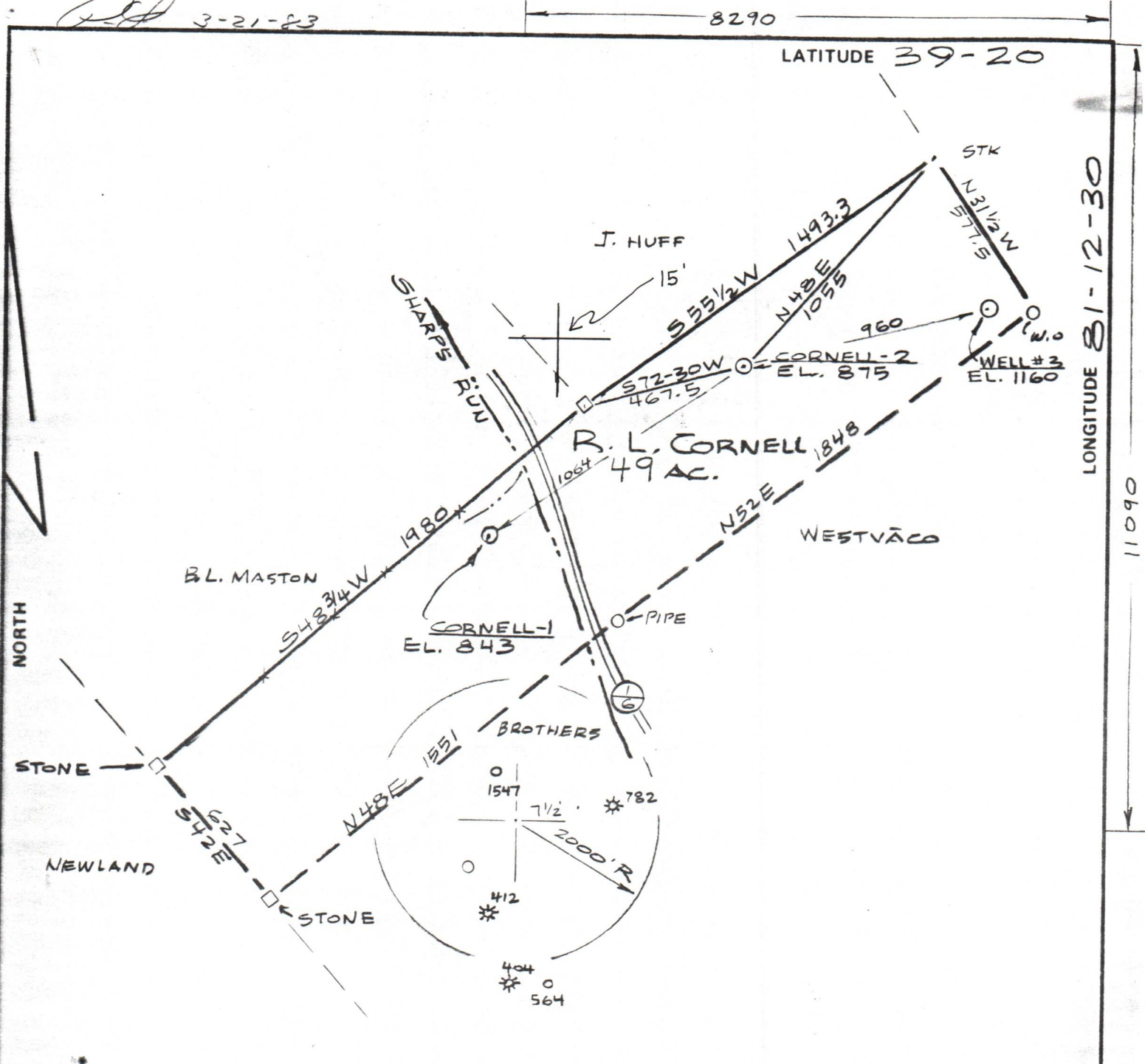
T. H. v. B.

Administrator-Oil & Gas Division

October 9, 1984

TMS/chm

DATE



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION USGS BM EL. 724 (SCHULTZ)

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) Danell R. Boice
 R.P.E. _____ L.L.S. 667

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MAR 8, 19 83
 OPERATOR'S WELL NO. R. CORNELL-2
 API WELL NO. 47-073-1609
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 875 WATER SHED SHARPS RUN
 DISTRICT JEFFERSON COUNTY PLEASANTS
 QUADRANGLE SCHULTZ 7 1/2
 SURFACE OWNER R. L. CORNELL ACREAGE 49
 OIL & GAS ROYALTY OWNER R. L. CORNELL LEASE ACREAGE 49
 LEASE NO. _____
 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 MARCELLUS ESTIMATED DEPTH 4000
 WELL OPERATOR BEACON RESOURCES DESIGNATED AGENT WALTER ALLEN
 ADDRESS No 1, 17TH ST. VIENNA, W. VA. ADDRESS No 1, 17TH ST. VIENNA, W. VA.

LONGITUDE 81-12-30
 110911
 PLEAS. 1609



1) Date: March 14, 19 83
 2) Operator's Well No. Cornell #2
 3) API Well No. 47 073 1609
 State County Permit

TRACTOR:

STATE OF WEST VIRGINIA

Resources Corp. DEPARTMENT OF MINES, OIL AND GAS DIVISION
 Street
 W. Va. 26105

OIL AND GAS WELL PERMIT APPLICATION

A Oil / Gas
 B (If "Gas", Production _____) / Underground storage _____ / Deep _____ / Shallow /
 Elevation: 875' / Watershed: Sharps Run
 District: Jefferson / County: Pleasants / Quadrangle: Schultz

ATOR Beacon Resources Corp. 11) DESIGNATED AGENT Walter H. Allen
#1 - 17th St. Address #1 - 17th Street
Vienna, W. Va. 26105 Vienna, W. Va. 26105

OWNER Lillian A. Cornell 12) COAL OPERATOR _____
305 Riverside Drive Address _____
St. Marys, W. Va. 25170
49 Acres

OWNER Lillian A. Cornell 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
305 Riverside Drive Name _____
St. Marys, W. Va. 25170 Address _____
49 Acres Name _____
 Address _____

E (IF MADE) TO:
Consolidated Gas Co.

INSPECTOR TO BE NOTIFIED
Robert Lowther
Phone #1-758-4764
Middlebourne, W. Va.

14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____

RECEIVED
MAR 17 1983
 OIL AND GAS DIVISION
 WV DEPARTMENT OF MINES

WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
 CAL TARGET FORMATION, Marcellus
 ed depth of completed well, 4000' feet
 imate water strata depths: Fresh, 800 feet; salt, -0- feet.
 imate coal seam depths: n/a Is coal being mined in the area? Yes _____ / No _____

ND TUBING PROGRAM

SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
<u>8-5/8"</u>					<u>975</u>	<u>975</u>	<u>CTS</u>	<u>NEAT</u>	
<u>4-1/2"</u>					<u>4000 T.D.</u>	<u>4000 T.D.</u>	<u>3305x</u>	<u>OR AS REQ.</u>	
<u>2"</u>					<u>3900</u>	<u>3900</u>	<u>by</u>	<u>Rule 15-01</u>	
								<u>Perforations:</u>	
								Top	Bottom

ION RIGHTS
 provide one of the following:
 ded is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

PROVISIONS
 o extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any
 ision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted,
 marketed? Yes No
 ove is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
 copies (See reverse side.)

his Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above
 operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of
 Charleston, West Virginia.

John E. Smittle
 ion Expires July 16, 1991
 Signed: John E. Smittle
 Its: AGent

OFFICE USE ONLY
DRILLING PERMIT

47-073-1609 March 22 19 83

ring the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal re-
 ect to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector.**
Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the
 il and gas inspector 24 hours before actual permitted work has commenced.)

November 22, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Agent: <input checked="" type="checkbox"/>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>1199</u>
--	-----------------	-------------------	------------------

Administrator, Office of Oil and Gas

ne copy of this permit posted at the drilling location.

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a; and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____

Its _____

NOTE: Keep one copy of this permit posted at the drilling location.