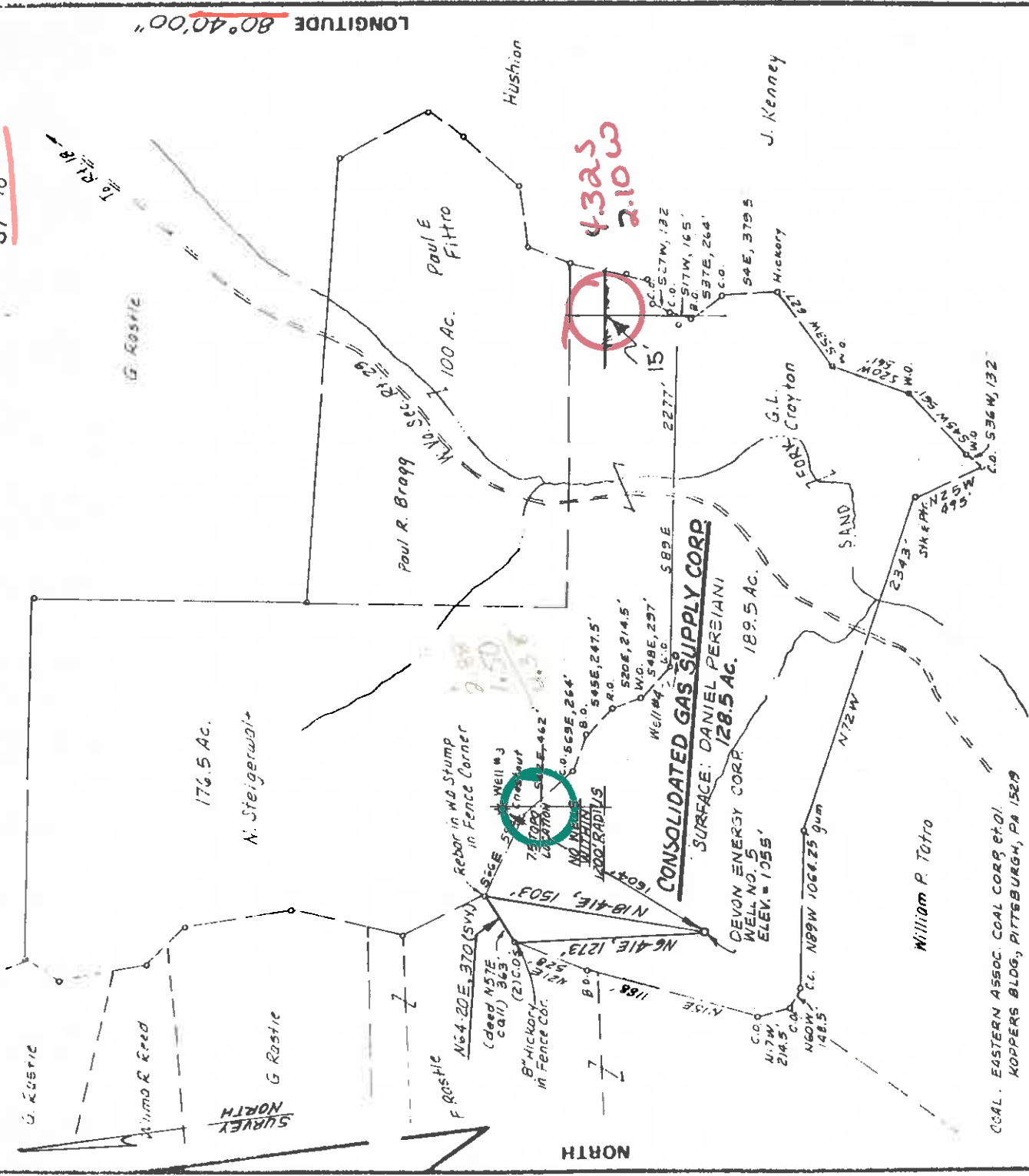


M. A. 10/14/82
 10,750' LATITUDE 39°07'30" 39° 10'
 LONGITUDE 80°40'00" 7900'



COAL - EASTERN ASSOC. COAL CORP. ET AL.
 KOPPERS BLDG, PITTSBURGH, PA 15219

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOWN 1400' ±
 NE OF LOCATION, ELEV. = 1228'

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.
 Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE SEPTEMBER 24 19 82
 OPERATOR'S WELL NO. 2326 KREEN'S
 API WELL NO. _____
 47 - 017 - 3168
 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 1055' WATER SHED SAND FORK
 DISTRICT COVE COUNTY DODDRIDGE

QUADRANGLE VADIS 7.5' 415 WBE
 SURFACE OWNER DANIEL PERSIANI ACREAGE 128.5
 OIL & GAS ROYALTY OWNER CONSOLIDATED GAS SUPPLY CORP. LEASE ACREAGE 466

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 BIG INJUN ESTIMATED DEPTH 2250' 6-6 Comings (142)
 WELL OPERATOR DEVON ENERGY CORP. DESIGNATED AGENT MR ART YOUSE
 ADDRESS P.O. BOX 1433-1207 QUARRIER ST. ADDRESS P.O. BOX 1433 - 1207 QUARRIER ST.
 CHARLESTON, W.VA. 25325 CHARLESTON, W.VA. 25325

T.C. & S.C.

Date January 12, 1983
 Operator's
 Well No. #2326
 Farm Kreen #5
 API No. 47 - 017 - 3168

State of West Virginia
 Department of Mines
 Oil and Gas Division

NOV 21 1983

WELL OPERATOR'S REPORT
 OF
 DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
 (If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1055 Watershed Sand Fork
 District: Cove County Doddridge Quadrangle Vadis

COMPANY Devon Energy Corporation
 ADDRESS Box 1433, Charleston
 DESIGNATED AGENT Arthur C. Youse
 ADDRESS Box 1433, Charleston, WV 25325
 SURFACE OWNER Daniel Persiani
 ADDRESS 103 Greenbrier Dr., Carnegie, PA
 MINERAL RIGHTS OWNER Consolidated Gas Supply
 ADDRESS Box 2450, Clarkshurg, WV 26301
 OIL AND GAS INSPECTOR FOR THIS WORK Stephen
 Casey ADDRESS Jane Lew, WV
 PERMIT ISSUED October 15, 1982
 DRILLING COMMENCED November 8, 1982
 DRILLING COMPLETED November 11, 1982
 IF APPLICABLE: PLUGGING OF DRY HOLE ON
 CONTINUOUS PROGRESSION FROM DRILLING OR
 REWORKING. VERBAL PERMISSION OBTAINED
 ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	952	952	To Surface
7			
5 1/2			
4 1/2		2192	200 sax
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Injun Sand Depth 2250 feet
 Depth of completed well 2200 feet Rotary X / Cable Tools
 Water strata depth: Fresh feet; Salt feet
 Coal seam depths: None reported Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Injun Sand Pay zone depth 2102-2134 feet
 Gas: Initial open flow 45 Mcf/d Oil: Initial open flow Bbl/d
 ← Final open flow 2000 MCF/D (ZMMCFD) Final open flow Bbl/d
 2000 MCF/D
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 860 psig (surface measurement) after 72 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation Pay zone depth feet
 Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
 Final open flow Mcf/d Oil: Final open flow Bbl/d
 Time of open flow between initial and final tests hours
 (If applicable due to multiple completion) after hours shut in

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

Performed 4 1/2" casing 2102' to 2134' with 36 shots.
 Fractured Injun Sand 11/17/82 using 500 gallons 15% HCL, 60,000# sand, 618 BBLs water and 115,500 SCF Nitrogen.

EAR 12 WIN

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and gas
Soil			0	8	
Shale			8	47	
Sand			47	58	
Shale			58	166	
Sand			166	196	
Shale			196	396	
Sand			396	453	
Shale			453	626	
Sand			626	660.	
Shale			660	854	
Sand			854	972	
Shale			972	1132	
Sand			1132	1158	
Shale			1158	1345	
Sand			1345	1352	
Shale			1352	1396	
Sand			1396	1506	
Shale			1506	1549	
Sand			1549	1580	
Shale			1580	1634	
Sand			1634	1658	
Shale			1658	1752	
Sand			1752	1806	
Shale			1806	1860	
Sand			1860	1896	
Shale			1896	1914	
Sand			1914	1925	
Shale			1925	1950	
Little Lime			1950	1980	
Blue Monday			1980	2004	
Pencil Cave			2004	2014	
Big Lime			2014	2074	
Injun Sand			2074	2160	
Shale			2160	2190	
Log Total Depth			2190		

(Attach separate sheets as necessary)

Devon Energy Corporation
 Well Operator

By: Neal Stause

Date: January 12, 1983

Note: Regulation 2.02(i) provides as follows:

- 1) Date: _____, 19__
- 2) Operator's Well No. _____
- 3) API Well No. _____



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

DRILLING CONTRACTOR: _____

OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil _____ / Gas _____ / B (If "Gas", Production _____)
Underground storage _____ / Deep _____ / Shallow _____

5) LOCATION: Elevation: _____ / Watershed: _____
District: _____ / County: _____

6) WELL OPERATOR _____
Address _____

7) OIL & GAS ROYALTY OWNER _____
Address _____

8) SURFACE OWNER _____
Address _____

9) FIELD SALE (IF MADE) TO: _____
Address _____

10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____
Address _____

11) DESIGNATED AGENT _____
Address _____

12) COAL OPERATOR _____
Address _____

13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____

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

15) PROPOSED WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
Plug off old formation _____ / Perforate new formation _____

16) GEOLOGICAL TARGET FORMATION, _____
Other physical change in well (specify) _____

17) Estimated depth of completed well, _____ feet
18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used		
Conductor							
Fresh water							
Coal							
Intermediate							
Production							
Tubing							
Liners							

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 for flat well royalty or any 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 so extracted, produced or marketed? Yes No
If the answer above is No, nothing additional is needed. If the answer is Yes, you may 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 delivered by hand to the above named coal 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 Mines at Charleston, West Virginia.

Notary: _____
My Commission Expires _____

Signed: _____ (ts: _____)
Date _____

Permit expires _____ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: _____ Agent: _____ Plat: _____ Casing _____ Fee _____
Administrator, Office of Oil and Gas

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

Geological Survey

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 _____