

92.7. 10/13/82

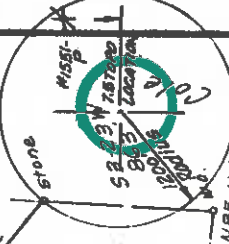
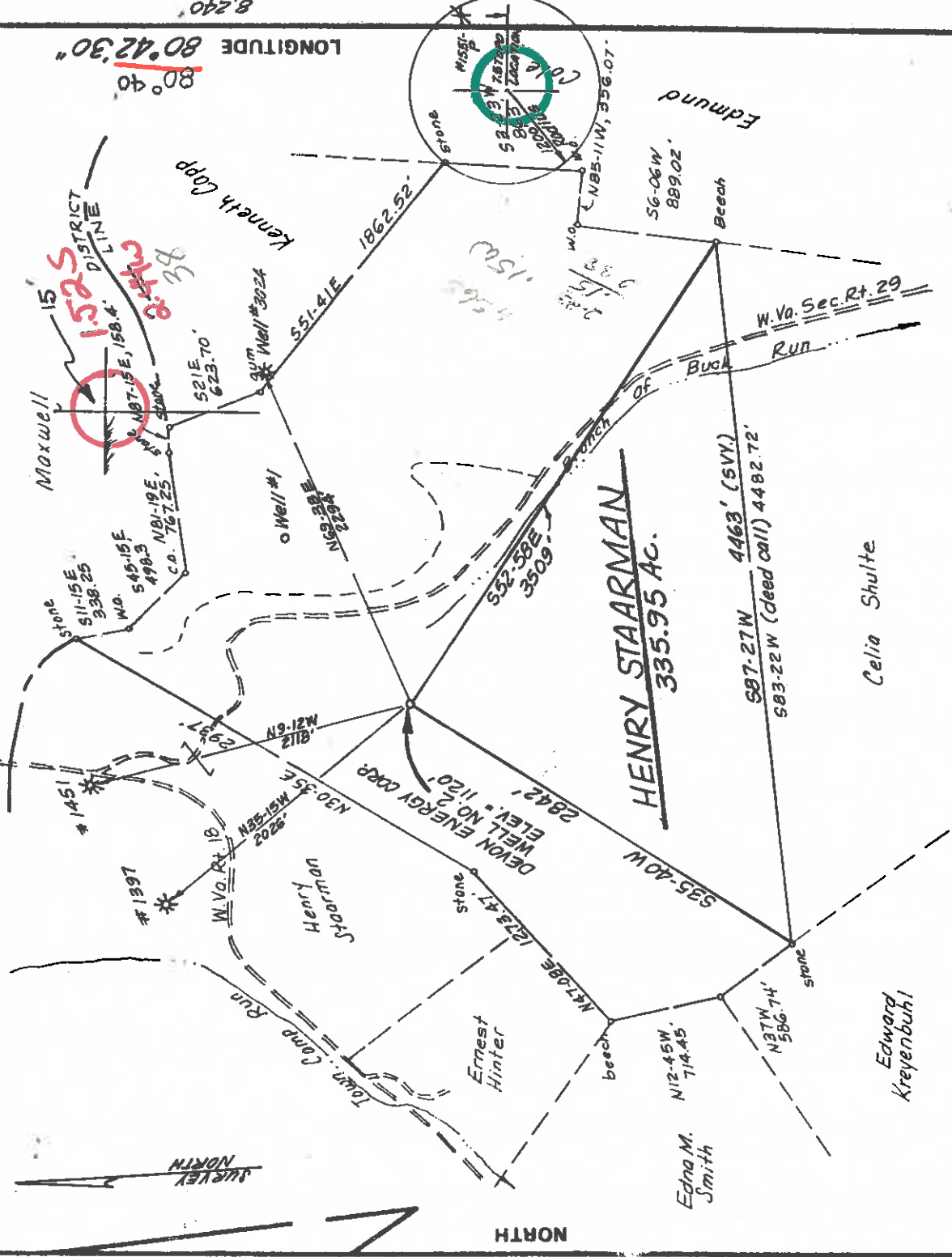
LATITUDE 39°10'00"

760'

LONGITUDE 80°42'30"

8.240

NEW MILTON DISTRICT



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 2165'
 SW OF LOCATION, ELEV = 1364'

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) Mark C. Echard
 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 17, 1982
 OPERATOR'S WELL NO. 2321
 API WELL NO. STAARMAN#2
47-017 STATE COUNTY PERMIT
3164

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 1120' WATERSHED BUCK RUN

DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' ACRES 335.95
 SURFACE OWNER HENRY STAARMAN
 OIL & GAS ROYALTY OWNER HENRY STAARMAN LEASE ACREAGE 335.95

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 HILLUN ESTIMATED DEPTH 2425 6-6 Leopold (306)
 WELL OPERATOR DEVON ENERGY CORP DESIGNATED AGENT MR. ART YOUSE
 ADDRESS P.O. BOX 1433 - 1207 QUARRIER ST. CHARLESTON, W. VA 25325

TRASCO



Handwritten text, possibly a signature or date, located in the bottom right corner of the page.

RECEIVED

OCT 24 1983



State of West Virginia
Department of Mines
Oil and Gas Division

Date January 13, 1983
Operator's Well No. #2321
Farm Staarman #2
API No. 47 - 017 - 3164

OIL & GAS DIVISION
DEPT. OF MINES 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: 1120 Watershed Buck Run
District: Cove County Doddridge Quadrangle New Milton

COMPANY Devon Energy Corporation
ADDRESS Box 1433, Charleston, WV 25325
DESIGNATED AGENT Arthur C. Youse
ADDRESS Box 1433, Charleston, WV 25325
SURFACE OWNER Henry Staarman
ADDRESS Rt. 1, Box 78, New Milton, WV
MINERAL RIGHTS OWNER Same as above

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey

ADDRESS Jane Lew, WV

PERMIT ISSUED October 14, 1982

DRILLING COMMENCED November 3, 1982

DRILLING COMPLETED November 6, 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	1128	1128	To Surface
7			
5 1/2			
4 1/2		2420	200 sax
3			
2		2264	
Liners used			

GEOLOGICAL TARGET FORMATION Injun Sand Depth 2425 feet

Depth of completed well 2430 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 2234-2244 feet

Gas: Initial open flow 77 Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 83 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 685 psig (surface measurement) after 96 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

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

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

Perforated 4 1/2" casing 2242' to 2252' with 20 shots.

Fractured Injun Sand 11/11/82 using 50,000# sand, 490 BBLs. water and 135,000 SCF Nitrogen.

2321

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale			0	186	
Sand			186	202	
Shale			202	312	
Sand			312	325	
Shale			325	592	
Sand			592	632	
Shale			632	832	
Sand			832	864	
Shale			864	1054	
Sand			1054	1079	
Shale			1079	1304	
Sand			1304	1320	
Shale			1320	1430	
Sand			1430	1440	
Shale			1440	1604	
Sand			1604	1668	
Shale			1668	1732	
Sand			1732	1776	
Shale			1776	1890	
Sand			1890	1910	
Shale			1910	1964	
Sand			1964	1981	
Shale			1981	2136	
Little Lime			2136	2162	
Blue Monday			2162	2182	
Pencil Cave			2182	2195	
Big Lime			2195	2234	
Injun Sand			2234	2332	
Shale			2332	2430	
Log Total Depth				<u>2430</u>	

(Attach separate sheets as necessary)

Devon Energy Corporation
Well Operator

By: A. L. Johnson

Date: January 13, 1983

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: October 6, 1982
 2) Operator's Well No. 3321 Submain #2
 3) API Well No. 47 State West Virginia County Wayne Permit 19

DRILLING CONTRACTOR:

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

4) WELL TYPE: A Oil Gas
 B (If "Gas", Production) Undergrnd storage Deep Shallow
 5) LOCATION: Elevation: 1100 Watershed: MASS RUN
 District: COVA County: Wayne Quadrangle: NEW HILTON 7-172

6) WELL OPERATOR MAINT ENERGY CORPORATION
 Address PO Box 1435
Charleston, WV 25325

7) OIL & GAS ROYALTY OWNER Fanny Stoutman
 Address PO Box 1435
Charleston, WV 25325

8) SURFACE OWNER 35.05 acres
 Address Henry Stoutman
PO Box 78
New Hilton, W. Va. 25914
35.75 acres

9) FIELD SALE (IF MADE) TO: West Virginia Industrial Gas Supply
 Address PO Box 1870
Charleston, WV 25303

10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name W. L. ...
 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 DEPT. OF MINES

16) GEOLOGICAL TARGET FORMATION, ...
 17) Estimated depth of completed well, 245 feet
 18) Approximate water strata depths: Fresh, 1000 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	8-7/8		20	X		115	
Fresh water	8-7/8		20	X		115	
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: ... Signed: ... Date ...
 My Commission Expires ... Its: ...

Permit number ... **OFFICE USE ONLY**
DRILLING PERMIT

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires ... unless drilling is commenced prior to that date and prosecuted with due diligence.
 Bond: ... Agent: ... Plat: ... Casing Fee ... Fee ...
 Administrator, Office of Oil and Gas

NOTE: Keep one 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 _____