

- New Location
- Drill Deeper
- Abandonment 10/19/78
- Fracture
- Redrill

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company REEL DRILLING PROGRAM, A W. Va. PARTNERSHIP

Address FT. LAUDERDALE, FLORIDA
Bx ST SPENCER WV.

Farm D. & K. FARMS

Tract _____ Acres 997.60 Lease No. _____

Well (Farm) No. 3 Serial No. _____

Elevation (Spirit Level) 665'

Quadrangle POINT PLEASANT NE

County MASON District ROBINSON

Engineer CHET WATERMAN

Engineer's Registration No. 3788

File No. 77003-510 Drawing No. _____

Date 12/6/77 Scale 1" = 60P

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

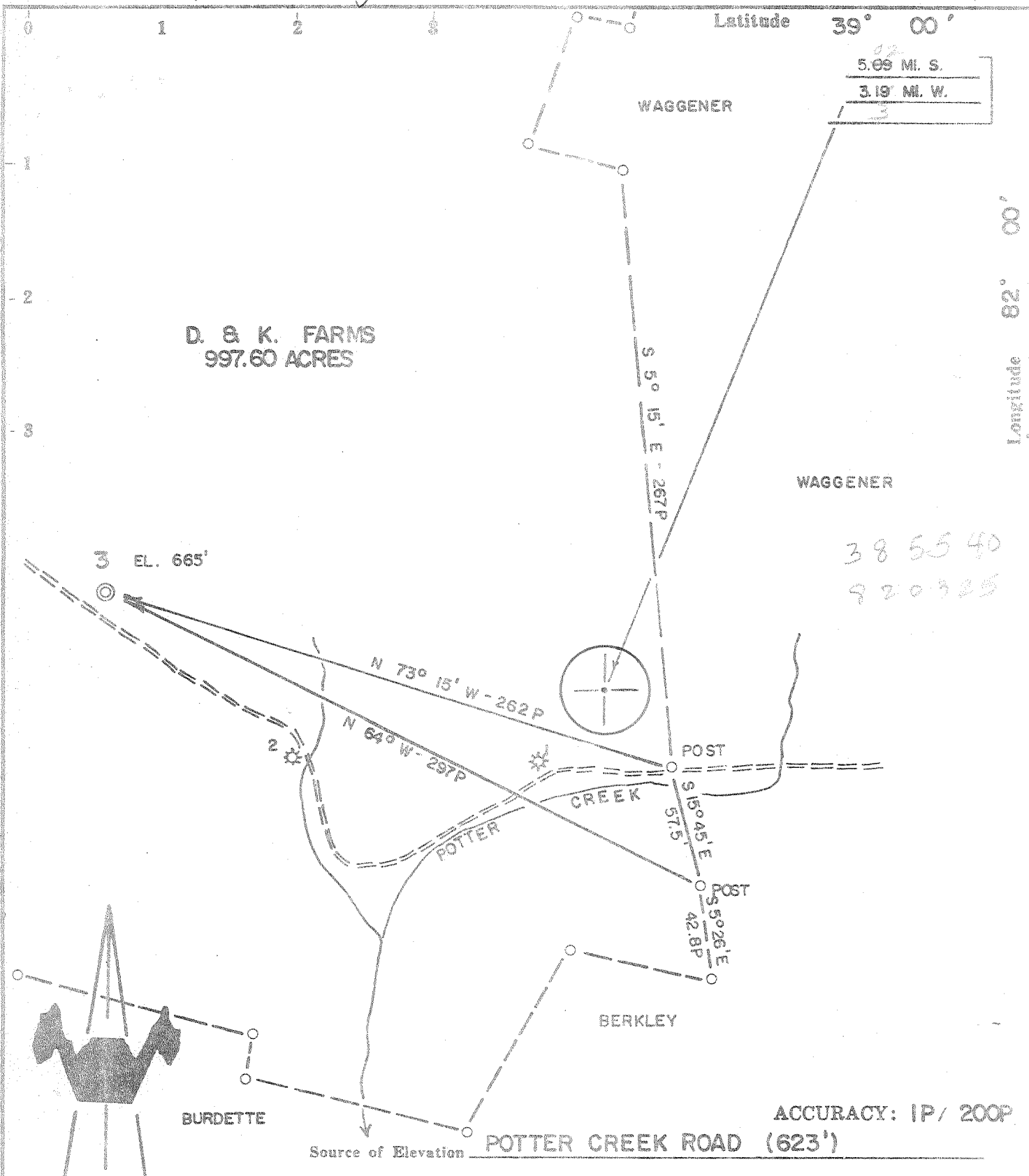
WELL LOCATION MAP
FILE NO. MAS-146-P

Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

Denotes one inch spaces on border line of original tracing.

47-053

3400' Drilling in hole EGSP cored well



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Chet Waterman

Company REEL DRILLING PROGRAM, A W. Va. PARTNERSHIP
 Address FT. LAUDERDALE, FLORIDA
Box 51 SPENCER WV.
 Farm D. & K. FARMS
 Tract _____ Acres 997.60 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 665'
 Quadrangle POINT PLEASANT NE
 County MASON District ROBINSON
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 77003-510 Drawing No. _____
 Date 12/16/77 Scale 1" = 60P

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

WELL LOCATION MAP
 FILE NO. MAS-146

Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

47-053

3400' Deverman Plate 6-6

DEC 29 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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Oil and Gas Division
WELL RECORD 14

OIL & GAS DIVISION
DEPT. OF MINES

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Pt. Pleasant

Permit No. MAS-146
47-053

Company Reel Energy Drilling Corporation
Address P O Box 51, Spencer, W.V. 25276
Farm Dean & Kingery Acres 997.6
Location (waters) Potter
Well No. 3 Elev. 665'
District Robinson County Mason
The surface of tract is owned in fee by Dean & Don Kingery
Address Pt. Pleasant, W. Va.
Mineral rights are owned by Same
Address Same
Drilling Commenced 12-13-77
Drilling Completed 1-13-78
Initial open flow 20 MCF cu. ft. _____ bbls.
Final production 400 MCF cu. ft. per day bbls.
Well open 8 hrs. before test NR RP.
Well treatment details: 500

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 13 3/8		120	60 sx
9 5/8			1000
8 5/8		1890	200 sx.
7"			
5 1/2			
4 1/2		3370	250 sx (500' into 878")
3			
2			
Liners Used			

Attach copy of cementing record.

First stage: Cryogenic frac treatment using 20-80 CO2, H2O, 300 sx 80-100 300 sx 20/40 with 1000 bbl water. Brown shale.
Second stage: Foam frac treatment using 60,000 water with 500,000 SCF Nitrogen using 100 sx of 80-100 600 sx 20/40. Berea shale

Coal was encountered at NR Feet _____ Inches _____
Fresh water NR Feet _____ Salt Water 1720-50' Feet _____
Producing Sand Brown shale Depth 2660 - 3370

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			300	400		
Sand			400	472		
Shale			472	534		
Sand			534	578		
Shale			578	594		
Sand			594	608		
Shale			608	718		
Sand			718	824		
Sand			824	970		
Shale			970	992		
Sand			992	1096		
Sand			1096	1018		
Sand			1018	1094		
Shale			1094	1118		
Sand			1118	1140		
Shale			1140	1148		
Sand			1148	1178		
Shale			1178	1190		
Shale			1190	1224		
Sand			1224	1234		
Shale			1234	1380		
Sand			1380	1410		
Shale			1410	1720		
Sand (Berea)			1720	1750		

(over)

* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1750	2660		
Shale (Dark)		Brown Sh.	2660	3370		
		ONONDAGA	3407	3420		LOGGERS T.D.
<p> 1/2 HOUSE BRING PILES 2 3/4 1754 4000 2075 Iowa 3032 Angola 3160 Rhinoc 3302 </p>						

Date 16 Oct 1978
 APPROVED R. L. Mann (Owner)
 R. L. Mann
 By _____ (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE 12-2-77

Surface Owner Dean Kingley
Pt. Pleasant, W. Va.

Company Reel Drilling Program

Address None

Address Box 51, Spencer, W. Va.

Mineral Owner None

Farm D/K Farm Acres 997.60

Address None

Location (waters) Potter

Coal Owner None

Well No. 3 Elevation 6025

Address None

District Robinson County Mason

Coal Operator None

Quadrangle Point Pleasant

Address None

THIS PERMIT MUST BE OBTAINED AT THE WELL SITE

All work being in accordance with Chapter 22,
Article 4 of the Code, this location is hereby approved
for Drilling. This permit shall expire if
operations have not been started by 4-12-78

INSPECTOR Kenneth Butcher

TO BE NOTIFIED RD #1, Barboursville, W. Va. 25500

ADDRESS RD #1, Barboursville, W. Va. 25500

PHONE 736-4835

Robert K. Hood
Secretary, Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated _____ 19____ by _____ made to _____ and recorded on the _____ day of _____ 19____ in _____ County, Book _____ Page _____

NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, R. L. Mann
(Sign Name) R. L. Mann
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

P.O. Box 51
Street
Spencer,
City or Town
W. Va.
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

Mas-146 PERMIT NUMBER
47-053

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME: Drilling Company NAME: R. L. FARM
 ADDRESS: Blairsville, W. Va. ADDRESS: Box 51, Upchurch, W. Va.
 TELEPHONE: 845-3375 TELEPHONE: 927-2140
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian shale
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8		240	240 SACKS
7			
5 1/2		1500	1500 SACKS
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS None
 IS COAL BEING MINED IN THE AREA? None BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location,

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: D & K FARMS Operator Well No.: 3

LOCATION: Elevation: 665.00 Quadrangle: CHESHIRE
 District: ROBINSON County: MASON
 Latitude: 11550 Feet South of 38 Deg. 57 Min. 30 Sec.
 Longitude 4500 Feet West of 82 Deg. 2 Min. 30 Sec.

Well type: OIL GAS

Company: Reel Drilling Program Coal Operator N/A
Box 51 or Owner _____
Spencer, WV _____

Agent: _____ Coal Operator N/A
 Inspector: _____ or Owner _____

Permit Issued: 10/19/78

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DIVISION OF OIL AND GAS

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Mason ss:

NR and NR being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by _____, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the _____ day of _____, 19____, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
<u>Cement</u>	<u>3400'</u>	<u>Surface</u>	<u>inside 4 1/2"</u>	
<u>Note: This information was taken from my own</u>				
<u>Plugging Report D/D 11/27/78 and signed</u>				
<u>by Inspector K.E. Butcher.</u>				

Description of monument: _____

and that the work of plugging and filling said well was completed on the 2 day of November, 1978.

And further deponents saith not.

Sworn and subscribe before me this _____ day of _____, 19____
My commission expires: _____

Notary Public