

LATITUDE 39° 40' 00"

39 39 40
79 59 10

LONGITUDE 79° 57' 30"

Minimum Error of Closure 1/7200

Source of Elevation U.S.G.S (P-100-F Milepost Top of South Rail)

Elev. = 828.00

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

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.

Signed: John W. Horne
 Squares: N S E W

Map No.

Company John Lynch Etal.
 Address P.O. Box 4286 STAR CITY, 26505
R.E. LYNCH ETUX.
 Farm N/A (STAR CITY W.V.A.)
 Tract No. 6 Acres 1.0± Lease No. N/A
 Well (Farm) No. No. 1 Lynch Serial No. _____
 Elevation (Spirit Level) 820.0 WC
 Quadrangle MORGANTOWN NORTH WVA-PA 7 1/2' SERIES
 County MONONGALIA District MORGAN
 Surveyor John W. Horne Sr.
 Surveyor's Registration No. W.V.A. L.L.S #72-Su.
 File No. _____ Drawing No. _____
 Date 1-19-78 Scale 1"=100'

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

WELL LOCATION MAP
 FILE NO. MON-368

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.

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

47-061 MAR 6 1978

3000' Speckley 3-3 Cassville-Bowlby (68)



RECEIVED
APR 28 1978

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 14

Quadrangle Morgantown North 7 1/2"

Permit No. Mon 368

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

Company John D. Lynch et. al.
Address Box 4286, Star City, WV 26505
Farm R.E. Lynch et. ux. Acres 5.431
Location (waters) Monongahela River
Well No. 1 Elev. 820.0'
District Morgan County Monongalia
The surface of tract is owned in fee by R.E. Lynch et. ux.
Address Box 4286, Star City, WV 26505
Mineral rights are owned by R.E. Lynch et. ux.
Address as above
Drilling Commenced 3-21-78
Drilling Completed 3-26-78
Initial open flow 21 m cu. ft. 0 bbls.
Final production 411 m cu. ft. per day 0 bbls.
Well open 24 hrs. before test 558# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	117.30	117/30	100 sks.
8 5/8	1096.02'	1096.02'	280 sks.
7			
5 1/2			
4 1/2	2347'	2347'	215 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Perf. Bayard, 2276-84', 12 holes; frac Bayard 566 bbls fluid+40,000# sand, treat. press. 3116
Perf Gordon, 1990-94'! 12 holes; frac Gordon 562 bbls fluid+40,000# sand, treat. press. 2800
Perf Injun 1243-76, 12 holes; frac Injun 716 bbls fluid+60,000# sand, treat press 2500#

Coal was encountered at none reported Feet _____ Inches _____
Fresh water 20 Feet _____ Salt Water 595 Feet _____
Producing Sand Injun, Gordon, Bayard Depth as above

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
sand & silts.			0	30		
silts. & shale w/ thin sand strgs			30	320		
sand (Big Dunkard)			320	345		
silts. & sand			345	402		
shale dark			402	456		
sand (Gas Sand)			456	540		
silts. & dark shale			540	603		
sand			603	630		
silt & shale			630	668		
sand (Upper Connequenessing)			668	760		
shale			760	785		
sand (Lower Connequenessing)			785	875		
shale			875	938		
sand & redrock			938	1030		
LITTLE LIME			1030	1065		
redrock			1065	1076		
BIG LIME			1076	1173		
redrock			1173	1180		
INJUN			1180	1297		
shale			1297	1365		
SQUAW			1365	1470		
silt, shale, & sand			1470	1633		
shale dark			1633	1650		gas test @1518: no show
sand, shaley (Berea?)			1650	1670		

3075
1297
1778 ft.
exploratory footage

* Indicates Electric Log tops in the remarks section.

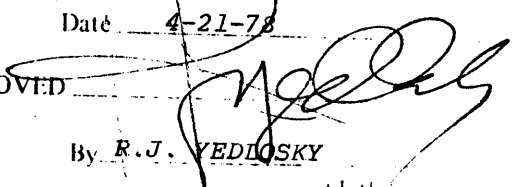
All tops shown are electric log tops

(over)

Formation	Color	Hard or Soft	Top Feet ¹⁴	Bottom Feet	Oil, Gas or Water	* Remarks
sand & shale			1670	1717		
sand w/ shale breaks (Fifty Foot)			1717	1783		gas test @ 1704: no show
shale			1783	1793		
sand (Thirty Foot)			1793	1854		gas test @ 1800: no show
red rock			1854	1896		
sand (Gordon Stray)			1896	1907		gas test @ 1900: no show
redrock			1907	1923		
sand & redrock			1923	1980		
sand (Gordon)			1980	2000		TEMPERATURE LOG SHOW
sandy redrock			2000	2065		
shaley sand (Fourth Sand)			2065	2107		
sand w/ shale (Fifth Sand)			2107	2195		
sand & silt			2196	2225		
sand (Bayard)			2225	2290		
sand & silt, gray			2290	2520		
sand & shale (Warren?)			2520	2635		
sand & shale			2635	2810		
sand (Speechley A)			2810	2833		TEMPERATURE LOG SHOW
shale			2833	2845		
shale & silt			2845	2895		
shale			2895	2910		
sand & shale			2910	2950		
sand (Speechley) ✓			2950	2960		
shale & silt			2960	2988		
sand			2988	2995		
shale			2995	3020		
silt & shale			3020	3075 T.D.		final gas test @ T.D.: 8/10 w 1" = 21 mcf/d

Electric Logs by Basin Surveys:
Gamma Ray, Caliper, Density, Temp.
Induction

Date 4-21-78

APPROVED  Owner
By R.J. VEDLOSKY (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

FEB 21 1978
RECEIVED

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

Surface Owner R.E. Lynch et. ux.
Address P.O. Box 4286 Star City W.V.
Mineral Owner R.E. Lynch et. ux.
Address As above
Coal Owner R.E. Lynch et. ux.
Address As above
Coal Operator None
Address -

DATE 2-2-78
Company John Lynch et. al.
Address P.O. Box 4286 Star City W.V.
Farm R.E. Lynch et. ux. Acres 5.413
Location (waters) Monongahela River
Well No. 1 Elevation 820.0
District Morgan County Monongalia
Quadrangle Morgantown North 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 6-22-78.

INSPECTOR
TO BE NOTIFIED William J. Blosser
ADDRESS Colfax, W.V.
PHONE 363-9105

Robert H. [Signature]
Deputy Director - 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 Jan 8 19 78 by R. E. Lynch et. ux. made to John Lynch et. al. and recorded on the 2 day of February 19 78 in Monongalia County, Book 802 Page 87

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~~ 2-2-78 or 13 days before, ~~or on the same day with~~ the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

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

Very truly yours, John D. Lynch
(Sign Name) John D. Lynch Well Operator
P.O. Box 4286 Street
Star City City or Town
West Virginia 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.

† Mr R.E. Lynch, coal owner, is also a participant in the operation of the proposed #1 Lynch well.

MON-368 PERMIT NUMBER

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

47-061

Signed by [Signature]

Agent **BOND DRILL**

[Signature]

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Union Drilling Co. NAME John Lynch
 ADDRESS Buckhannon W.V. ADDRESS P.O. Box 4286 Star City, W.V.
 TELEPHONE 472-4610 TELEPHONE 599-2244
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Speechley
 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	1000'	1000'	650' fill up
7			
5 1/2			
4 1/2	3000'	3000'	1500' fill up
3			Perf. Top 1240
2			Perf. Bottom 1250
Liners			Perf. Top 2900
			Perf. Bottom 2950

APPROXIMATE FRESH WATER DEPTHS 30 FEET SALT WATER 900 FEET
 APPROXIMATE COAL DEPTHS Freeport 370'-370 1/2' , Kittanning 468-468 1/2'
 IS COAL BEING MINED IN THE AREA? No 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