

0365
208W

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 1798'

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 ENERGY
 (SIGNED) Mr. Allen Jordan
 R.P.E. _____ L.L.S. 959

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL and GAS

DATE APRIL 3, 19 99
 OPERATOR'S WELL NO. WILSON B-1
 API WELL NO. 47 001 1354 F
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1630' WATERSHED Hunters Fork
 DISTRICT GLADE COUNTY BARBOUR
 QUADRANGLE BELINGTON 7.5'

SURFACE OWNER JAMES AND BRESTZ NEWILSON ACREAGE 154 of 228
 OIL & GAS ROYALTY OWNER TOM AND MABEL WILSON LEASE ACREAGE 154 of 228
 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 GANTZ ESTIMATED DEPTH 1680'
 WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN PALETTI
 ADDRESS 501 56th ST. CHARLESTON, WV 25304 ADDRESS BOX 820 GLENVILLE, WV 26351

FORM WV-6

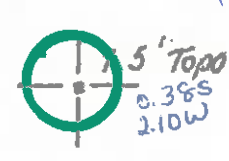
COUNTY NAME BAR
 PERMIT 1354 F

APR 7 1999

- A. 588E 99'
- B. 588-15W 429'
- C. N1-45W 93'
- D. 588-15W 136.13'
- E. 563-30E, 315.48'
- F. 525-30E, 165'
- G. 522-30W, 207.90'
- H. 553-15W, 339.90'
- I. 577W, 386.76'
- J. 584W, 171.60'

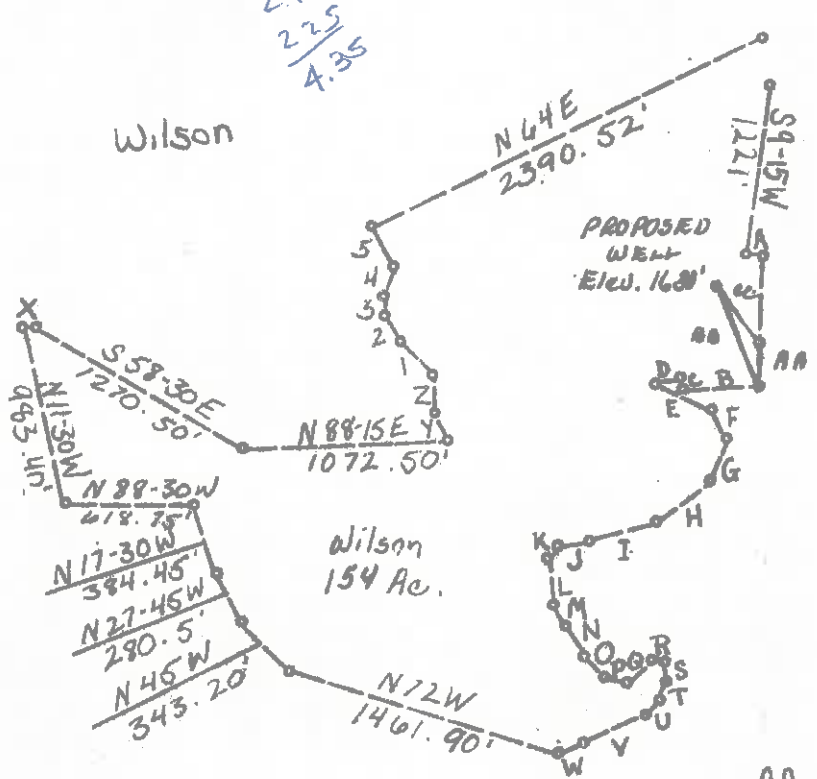
LATITUDE 39° 5' 00"

HO 5-27-80
039° 45' SW
4.35



39 04 40
79 54 35

2.10
2.25
4.35



Thomas

LONGITUDE 79° 50' 30"

- K. 538W, 93.06'
- L. 53E, 238.92'
- M. 527-30E, 123.75'
- N. 532E, 178.20'
- O. 539E, 126.72'
- P. 571-30E 99'
- Q. N50-30E, 165'
- R. 583-45E, 54.12'
- S. 52-30E, 91.41'
- T. 520W, 108.9'
- U. 553W, 99'
- V. 567W, 338.25'
- W. 569W, 123.75'
- X. 588E, 66'
- Y. N27W, 132'
- Z. N00-30W, 198'
- 1. N45W, 215.99'

- 2. N29W, 120.45'
- 3. North, 82.60'
- 4. N22-45E, 178.80'
- 5. N27-45W, 247.50'

- AA. 503-30W, 237.98'
- BB. N33-55W, 392.34'
- CC. S19-57E, 599.09'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM Hunter Fork, 1798', USGS Belington Quad

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) *Wayne A. Porter*
 R.P.E. _____ L.L.S. 624

PLACE SEAL HERE

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



DATE May 9, 19 80
 OPERATOR'S WELL NO. Wilson B-21
 API WELL NO. _____
47 - 001 - 1354
 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 1630' WATER SHED Hunter Fork
 DISTRICT Glade COUNTY Barbour
 QUADRANGLE Belington 7.5 d 15' SC
 SURFACE OWNER Tom + Mabel Wilson ACREAGE 228
 OIL & GAS ROYALTY OWNER Tom + Mabel Wilson LEASE ACREAGE 228
 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 DEVONIAN SHALE ESTIMATED DEPTH 5350
 WELL OPERATOR NRM Petroleum Corp. DESIGNATED AGENT R. L. Hopkins
 ADDRESS Box 816 ADDRESS Box 816
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

Reviewed AS

WR-35

West Virginia
Office of Oil & Gas
Permitting
MAR 24 2000
WV Division of
Environmental Protection

03-Jun-99
API # 47-001-01354-F

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: WILSON, JAMES & ERNESTINE Operator Well No.: Wilson B-1

LOCATION: Elevation: 1630.00 Quadrangle: Belington
District: Glade County: Barbour
Latitude: 1950 Feet South of 39 Deg. 5 Min. 0 Sec.
Longitude: 11000 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY CORP.
501 56th Street
CHARLESTON WV 25304

Agent: JOHN PALETTI

Inspector: PHILLIP TRACY

Permit Issued: 11/09/99

Well work commenced: 10/05/99

Well work completed: 10/15/00

Verbal plugging

permission granted on:

Rotary Cable Rig

Total Depth (feet) 5360' (08/80)

Fresh water depths (ft) 18', 340' Salt water depths (ft) NONE Is coal being mined in area? (Y/N) N

Coal Depths (ft) NONE

Casing & Tubing	Used in Well	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	32'	32'	
8-5/8"	1059'	1059'	290 SXS
4-1/2"		5202'	

OPEN FLOW DATA

Producing Formation Elizabeth Pay zone depth (ft) 2548' - 2560'
Gas: Initial open flow 200 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 600 psi (surface pressure) after 24 Hours

2nd Producing Formation Bayard Pay zone depth (ft) 2409' - 2424'
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock pressure psi (surface pressure) after Hours

3rd Producing Formation Gantz Pay zone depth (ft) 1677' - 1682'
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock pressure psi (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

JOHN PALETTI, AGENT
For: EASTERN AMERICAN ENERGY CORPORATION

By: John Paletti/KSA
Date: MARCH 28, 2000

MAR 31 2000

BAR 1354 F

WILSON B-1 WR35

STAGE ONE: Elizabeth

15 holes (2548' - 2560')

Fracture: 500 gal 15% HCl acid, 20# gel, and 26,400# 20/40 sand. Formation broke at 1972 psi

STAGE TWO: Bayard

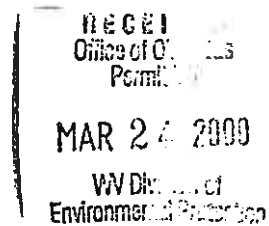
19 holes (2409' - 2424')

Fracture: 500 gal 15% HCl acid, 20# gel, and 25,000# 20/40 sand. Formation broke at 2787 psi.

STAGE THREE: Gantz

12 holes (1677' - 1682')

Fracture: 500 gal 15% HCl acid, 20# gel and 4,000# 20/40 sand. Formation broke at 3550 psi.



RECEIVED



JAN 26 1981

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES **Oil and Gas Division**

WELL RECORD

Quadrangle Belington
Permit No. 47-001-1354

Union Drilling
Rig No. 8
Rotary X Oil _____
Cable _____ Gas X _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company NRM Petroleum Corporation
Address P.O. Box 816, Buckhannon, WV 26201
Farm Tom & Mabel Wilson Acres 228
Location (waters) Hunter Fork
Well No. "B" 1 Elev. 1637 EKB
District Barker & Glade County Barbour
The surface of tract is owned in fee by _____
Tom & Mabel Wilson
Address Rt. 2, Belington, WV
Mineral rights are owned by Same
Address _____
Drilling Commenced 8-16-80
Drilling Completed 8-23-80
Initial open flow 133 M cu. ft. _____ bbls.
Final production 467 M cu. ft. per day _____ bbls.
Well open 3 hrs. before test 1150 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13 1/2" 11 3/4"	32.19	32.19	
9 5/8			
8 5/8	1059.38	1059.38	290 Sks.
7			
5 1/2			
4 1/2		5202'	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Elk Perforations - 14 holes, 5085-5192
Elk Frac - Broke down 2800#, average pressure 3350#, average rate 24 BPM
total fluid 360 Bbl. shut-in pressure 2400#
10,000# of 80/100 sand and 30,000# of 20/40 sand

Coal was encountered at _____ Feet _____ Inches
Fresh water 18 3/4 Feet _____ Salt Water _____ Feet _____
Producing Sand Elk, Benson and Alexander Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	10		
Sand and Shale			10	15		
Sand			15	125		1/4" Stream Water @ 18'
Sand and Shale			125	380		1 1/2" Stream Water @ 340'
Sand			380	580		
Sand and Shale			580	735		
Sand			735	815		
Sand and Shale			815	900		
Sand, Red Rock, Shale			900	1085		
Red Rock			1085	1135		
Sand and Shale			1135	1300		
Little Lime			1300	1328		
Sand and Shale			1328	1365		
Big Lime			1365	1504		
Injun			1504	1604		
Shale and Sand			1604	1676		
Gantz			1676	1694		
Sand and Shale			1694	2150		Gas Chk. @ 1700' - 3170 M
Gordon Stray - Gordon			2150	2278		Gas Chk. @ 1979' - 1710 M
Shale			2278	2306		
Fourth Sand - Fifth Sand			2306	2425		
Sand and Shale			2425	2536		Gas Chk. @ 2500' - 604 M

FEB 24 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Bayard			2536	2583		
Shale and Sand			2583	2764		
Speechley			2764	3144	Gas Chk. @ 3000'	- 604 M
Shale			3144	3706	Gas Chk. @ 3600'	- 604 M
Riley			3706	3834		
Shale			3834	3904		
Benson			3904	3981		
Shale and Siltstone			3981	4128	Gas Chk. @ 4050'	- 604 M
Alexander			4128	4213		
Shale			4213	4315		
Elk			4315	4500		
Shale and Siltstone			4500	4549	Gas Chk. @ 4500'	- 265 M
Elk			4549	4646		
Shale			4646	4730		
Elk			4730	4772		
Shale and Siltstone			4772	5081		
Elk			5081	5213	Gas Chk. @ 5176'	- 119 M
Shale and Siltstone			5213	5290		
Elk			5290	5325		
Shale			5325			
TOTAL DEPTH				5360		
Logged By Gearhart Owen						
Initial Open Flow - 133 Mcf						
Benson Perforations - 12 holes, 3908-73						
Benson Frac - Broke down 1900#, average pressure 2950#, average rate 29 BPM						
total fluid 505 Bbl, shut-in pressure 1500#						
10,-00# of 80/100 sand and 40,000# of 20/40 sand.						
Alexander Perforations - 12 holes, 4130-72						
Alexander Frac - Broke down 3400#, average pressure 3350#, average rate 33.5						
BPM, total fluid 555 BBL, shut-in pressure 2100#						
10,000# of 80/100 sand and 50,000# of 20/40 sand.						

Date Jan 23 19 51

APPROVED NRM Petroleum Corporation Owner

John Moore



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
MAY 23 1980
OIL & GAS DIVISION
DEPT. OF MINES

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

DATE May 12, 1980

Surface Owner Tom & Mabel Wilson
Address Rt. 2 Belington, WV
Mineral Owner Tom & Mabel Wilson
Address Rt. 2 Belington, WV
Coal Owner Hillman Coal Company
Address Grant Building, Pittsburg, PA
Coal Operator _____
Address _____

Company NRM Petroleum
Address P.O. Box 816 Buckhannon, WV
Farm Wilson Acres 228
Location (waters) Hunter Fork
Well No. "B" #1 Elevation 1630'
District Barker & Glade County Barbour
Quadrangle Belington

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 2-11-81.

INSPECTOR
TO BE NOTIFIED Robert Stewart
ADDRESS P.O. Box 345 Jane Lew, WV
PHONE (304) 884-7782

Robert Stewart
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 Dec. 14 19 71 by Thomas & Mabel Wilson made to C.E. Beck and recorded on the 1 day of April 19 72 in Barbour County, Book 70 Page 329

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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours,
(Sign Name) *B. O. Hall*
Well Operator

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 816
Street
Buckhannon
City or Town
West Virginia 26201
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.

47-001-1354 PERMIT NUMBER

"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 _____

BLANKET BOND

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 Union Drilling Company NAME Rickard L. Hopkins
 ADDRESS P.O. Box 40 Buckhannon, WV ADDRESS P.O. Box 816 Buckhannon, WV
 TELEPHONE (304) 472-4610 TELEPHONE (304) 472-9113
 ESTIMATED DEPTH OF COMPLETED WELL: 5350' ROTARY CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL GAS 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	1125	1125	Cement to surface
7			
5 1/2			
4 1/2	5350	5350	125 sx.
3			Perf. Top
2			Perf. Bottom
1 inch			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 500' FEET SALT WATER 1670' FEET
 APPROXIMATE COAL DEPTHS 128-134, 243-248, 325-332, 458-463
 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 Hillman Coal & Coke 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 Hillman Coal & Coke 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.

Elmer Jacobs

For Coal Company
Chief Engineer

Official Title

REVENUE BOARD