

LATITUDE 39° 07' 30"  
(15') 39° 10'

LONGITUDE 80° 45' 00"

HOWARD W. HERRINGTON OF VA  
M. 8 P. 23  
170 / 659  
78.0 AC.

W.VA. SEC. RT.

FAYRON SPURGEON  
M. 12 P. 6 P. 02  
85 / 450  
60.0 AC.

WILMER M. COLE  
M. 12 P. 03  
121 / 462  
101.6 AC.

NORTH

(DEED) N 7° 30' E  
292.18'

(DEED) N 17° W  
237.6'

(DEED) N 3° 30' E  
392.21'

FLUENCE HINTER  
M. 12 P. 01  
85 / 450  
59.45 AC.

L.K. MATHENY  
PROPOSED WELL  
NO. 1

(SURFACE)  
FAYRON SPURGEON  
M. 12 P. 6 P. 02  
85 / 450  
P. 6 60.0 AC.

FAYRON SPURGEON  
M. 12 P. 6 P. 02  
85 / 450  
60.0 AC.

LINE	BEARING	DISTANCE
A	S 20° 03' 32" E	259.38'
B	N 10° 46' 44" E	668.57'
C	N 10° 00' 00" E	292.18'
D	N 14° 30' 00" W	237.60'
E	N 6° 00' 00" E	392.21'

FILE NO. 657  
DRAWING NO. 1  
SCALE 1" = 500'  
MINIMUM DEGREE OF  
ACCURACY 1:200  
PROVEN SOURCE OF  
ELEVATION U.S.D.I. J.E.A. 57  
1962

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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF MINES.  
(SIGNED) [Signature]  
R.P.E. / 3994 L.L.S.

PLACE SEAL HERE

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



DATE SEPT., 19 80  
OPERATOR'S WELL NO. 1  
API WELL NO.  
47 - 017 - 2853  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 853.25' WATER SHED BEAR FORK OF COVE CREEK  
DISTRICT COVE COUNTY DODDRIDGE  
QUADRANGLE AUBURN (7.5') series Holbrook 26 EC  
SURFACE OWNER FAYRON SPURGEON ACREAGE 30.0 AC.  
OIL & GAS ROYALTY OWNER L.K. MATHENY LEASE ACREAGE 30.0 AC.  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL X 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 ALEXANDER ESTIMATED DEPTH 5103  
WELL OPERATOR MERT DEVELOPMENT INC. DESIGNATED AGENT R.J. YEDLOSKY  
ADDRESS RT. 8 BOX 336 AA ADDRESS RT. 8 BOX 336 AA  
FAIRMONT, W.VA. 26554 FAIRMONT, W.VA. 26554

NOV 25 1980

6-6 Straight Fork-Bluestone Creek (133)



REVISED B-2

35  
8-81)

Date October 15, 1984  
 Operator's Well No. #1  
 Farm L. K. Matheny #1  
 API No. 47 - 077 - 2853

State of West Virginia  
 Department of Mines  
 Oil and Gas Division

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

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
 (If "Gas," Production  / Underground Storage  / Deep  / Shallow  / )  
 LOCATION: Elevation: 853 Watershed Bear Fork  
 District: Cove County Doddridge Quadrangle Auburn

OWNER MERT Development, Inc.  
 ADDRESS Fairmont, WV  
 DESIGNATED AGENT Jerry Poling  
 ADDRESS Fairmont, WV  
 SURFACE OWNER Fayron Spurgeon  
 ADDRESS \_\_\_\_\_  
 FEDERAL RIGHTS OWNER L.K. Matheny  
 ADDRESS \_\_\_\_\_  
 OIL AND GAS INSPECTOR FOR THIS WORK Mike  
Underwood ADDRESS Salem, WV  
 PERMIT ISSUED \_\_\_\_\_  
 DRILLING COMMENCED 12-26-80  
 DRILLING COMPLETED 1-2-81  
 IF APPLICABLE: PLUGGING OF DRY HOLE ON  
 CONTINUOUS PROGRESSION FROM DRILLING OR  
 WORKING. VERBAL PERMISSION OBTAINED  
 IN \_\_\_\_\_

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4"	111	111	CTS
9 5/8			
8 5/8	905	905	CTS
7			
5 1/2			
4 1/2		5120	1245' Fillup
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5000 feet  
 Depth of completed well 5166 feet Rotary  / Cable Tools \_\_\_\_\_  
 Water strata Depth: Fresh 220 feet; Salt - feet  
 Coal seam depths: Not encountered Is coal being mined in the area? No

OPEN FLOW DATA  
 Producing formation Alexander Pay zone depth (5061-5074) feet  
 Gas: Initial open flow 15 Mcf/d Oil: Initial open flow - Bbl/d  
 Final open flow 68 Mcf/d Final open flow - Bbl/d  
 Time of open flow between initial and final tests 4 hours  
 Static rock pressure 1000 psig (surface measurement) after 4 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

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

Perforated Alexander (5061-5074) 16 Holes, Frac with 200 sbs 80/100, 400 sbs 20/40, 48 Gal Cla Sta, 55 Gal Fr 282, 48 Gal 15N, 1000 Gal HCL, Avg Rate 11.5 BPM, Avg Psi 3450, Frac through 2" tubing

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Clay			0	10	
Shale/RR			10	220	
Sand			220	290	
Sand/Shale			290	480	
RR Shale			480	740	
RR			740	800	
Sand/Shale			800	1590	
Big Lime			1590	1796	Hole Wet 1650'
Injun			1796	1966	
Squaw - Weir			1966	2054	
Gartz			2054	2164	
Sand/Shale			2164	2450	
Gordon/Gordon Stray			2450	2572	
Sand/Shale			2572	2606	
5th Sand			2606	2664	
Sand/Shale			2664	3078	
Bayard			3078	3152	
Sand/Shale			3152	3616	
Balltown			3616	3654	
Sand/Shale			3654	4696	Gas 4649 - No Show
Benson			4696	4720	
Sand/Shale			4720	5054	Gas 4932 - Smell
Alexander			5054	5166	Gas DC 2/10 - 1" H2O
Total Depth			5166		

(Attach separate sheets as necessary)

Continental Reserves Oil Company  
 Well Operator  
 By: *Thomas P. Sanders*  
 Thomas P. Sanders - Manager Oil & Gas Production  
 Date: October 15, 1984

Note: Regulation 2.02(a) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil X<sup>?</sup>  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Auburn  
Permit No. 47-017-2853

FEB 21 1983

Company MERT Development, Inc.  
Address R8-B336-AA, Fairmont, W. Va. 26554  
Farm Matheny Acres 30  
Location (waters) Bear Fork  
Well No. 1 Elev. 853.0  
District Cove County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Fayron Spurgeon  
Address \_\_\_\_\_  
Mineral rights are owned by L. K. Matheny  
Address \_\_\_\_\_  
Drilling Commenced December 26, 1980  
Drilling Completed January 2, 1981  
Initial open flow 15 cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
<del>13-10</del> 11 3/4	111	111	CTS
9 5/8			
8 5/8	905	905	CTS
7			
5 1/2			
4 1/2		5120	1245' Fillup
3			
2 1 1/2		5630	
Liners Used			

Well treatment details: Attach copy of cementing record.  
Perforate Alexander (5064-5074) 16 holes, Frac with 200 SKS 80/100, 400 SKS 20/40,  
48 Gal Cla Sta, 55 Gal Fr 282, 48 Gal 15N, 1000 Gal HCL. Avg Rate 11.5 BPM, Avg.  
PSI 3450, Frac thru 2" tubing

Coal was encountered at Not Encountered Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 220' - 1" Stream Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Alexander Depth 5664-5674  
5064-5074

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Red Clay			0	10		
Shale/RR			10	220		
Sand			220	290		
Sand/Shale			290	480		
RR/Shale			480	740		
RR			740	800		
Shale/Sand			800	1590		
Lime			1590	1670		Hole Wet 1650
Shale			1670	1770		
Lime/Shale			1770	1790		
Shale			1790	1830		
Lime			1830	1960		
Shale/Sand			1960	2210		
Sand/Shale			2210	2650		
Shale			2650	3400		
Sand			3400	3412		
Sand/Shale			3412	4920		Gas ✓ 4649 - No Show
Sand			4920	5030		Gas ✓ 4932 - Smell
Shale			5030	5153		Gas ✓ DC 2/10 - 1" H <sub>2</sub> O
						T.D. at least <del>5164</del> base perfs
						T.D. 5164 (LOG)

(over)

\* Indicates Electric Log tops in the remarks section.



RECEIVED

SEP 30 1980

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE September 29, 1980

Surface Owner Fauron Spurgeon

Company MERT Development, Inc.

Address \_\_\_\_\_

Address Fairmont, W.Va.

Mineral Owner L. K. Matheny

Farm L. K. Matheny Acres 30

Address Troy, W.Va.

Location (waters) Bear Fork

Coal Owner L. K. Matheny

Well No. 1 Elevation 853

Address Troy, W.Va.

District Cove County Doddridge

Coal Operator None

Quadrangle Auburn

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 6-22-81.

INSPECTOR  
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St., Clarksburg, W.va.

PHONE 622-3871

[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 June 6, 19 80 by L. K. Matheny made to Domestic Producers and recorded on the 8 day of June 19 80 in Doddridge County, Book 116 Page 151

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:

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

Very truly yours,  
(Sign Name) [Signature]  
Well Operator

Address of Well Operator  
Rt. 8 Box 336-AA Street  
Fairmont City or Town  
W.Va. 26554 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.

47-017-2853

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 [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 Ray Resources \_\_\_\_\_ NAME R. J. Yedlosky \_\_\_\_\_  
 ADDRESS Charleston, W.Va. \_\_\_\_\_ ADDRESS Fairmont, W.Va. \_\_\_\_\_  
 TELEPHONE 344-8393 \_\_\_\_\_ TELEPHONE 366-9111 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 5183 \_\_\_\_\_ ROTARY X \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Alexander \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16	30'	30'	To surface
13 - 10			
9 - 5/8			
8 - 5/8	898	898	To surface
7			
5 1/2			
4 1/2	5150	5150	2000' fill up
3			Perf. Top
2	5000'	5000'	Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 20 FEET SALT WATER 180' FEET  
 APPROXIMATE COAL DEPTHS None  
 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