



FILE NO. L+M  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION FK OF RD 803'

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) Neal Hughes  
 R.P.E. \_\_\_\_\_ L.L.S. 032

PLACE SEAL HERE

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



DATE MAY 12, 1981  
 OPERATOR'S WELL NO 1  
 API WELL NO. 47-095  
 STATE COUNTY PERMIT 0915

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 804' WATER SHED RUSH FORK  
 DISTRICT MEADE COUNTY TYLER  
 QUADRANGLE MIDDLEBOURNE 75' West Union 15 NW  
 SURFACE OWNER HAROLD GREGG ACREAGE 75  
 OIL & GAS ROYALTY OWNER HAROLD GREGG 1/2 LEASE ACREAGE 75  
 LEASE NO T-100  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ GRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
 STIMULATE \_\_\_\_\_ PLUS (SEE OLD FORMATION) \_\_\_\_\_ PERFORATE NEW  
 FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY): \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Lower 3' ESTIMATED DEPTH 4500'  
 WELL OPERATOR L.M. Petroleum Co. DESIGNATED AGENT David Clark  
 ADDRESS Box 89, Lewis, Ohio 45222 PHONE 614-278-2971  
Richwood, WV 26018



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Oil and Gas Division  
WELL RECORD

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

Quadrangle Middlebourne

Permit No. 47-095-0915

Company RIDGEWOOD RESOURCES, INC.  
Address P.O. Box 157, Reno, Ohio 45773  
Farm Harold Gregg # 1 Acres 75  
Location (waters) Rush Fork  
Well No. 1 Elev. 804'  
District Meade County Tyler  
The surface of tract is owned in fee by \_\_\_\_\_  
Harold Gregg  
Address Rt. 1, Middlebourne, WV 26149  
Mineral rights are owned by See Attached  
Address \_\_\_\_\_  
Drilling Commenced 6-16-81  
Drilling Completed 6-23-81  
Initial open flow 100 cu. ft. \_\_\_\_\_ bbls.  
Final production 85 cu. ft. per day \_\_\_\_\_ bbls.  
Well open 6 hrs. before test \_\_\_\_\_ 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			
8 5/8	300'	300'	140 sxs.
7			
5 1/2			
4 1/2	3996.59'	3996.59'	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Pressure test surface equipment to 6000 psi.  
Spearhead with 100 bbls. of foamed crude oil.  
Sanded off with 19000 lbs. sand in formation.  
Injection rates; treating 16 b/m, average 16 b/m.  
Pressures; breakdown 2400 psi; minimum 2400 psi, maximum 4000 psi.

D.T.D. - 4000'  
L.T.D. - 4018'

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Devonian Shale WARREN Depth 3245' - 3302'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Maxon Sand			1575	1605	Water	
Big Lime (Maxville)			1658	1710		
Big Injun			1720	1834	Water	
Squaw Sand			1842	1880	Water	
Weir Sand			2118	2190	Gas	
Berea Sand			2241	2244	Water	
Gordon Sand			2477	2490	Gas	
5th Sand			2664	2682	Gas	
<u>Warren</u>			3244	3284		

(Note: No logs or samples were taken above these depths.)

(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

Date Oct. 7 19 81

APPROVED RIDGEWOOD RESOURCES, INC. Owner

By Gerald Tattersall Vice President

(T.M.C.)

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CV-35  
rev 8-81)

**State of West Virginia**  
**Oil & Gas Division**  
**DEPT. OF MINES**  
Department of Mines  
Oil and Gas Division

Date May 19, 1983 "REVISED"  
Operator's  
Well No. #1  
Farm Harold Gregg  
API No. 47 - 095 - 0915

**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: 804 Watershed Rush Fork  
District: Meade County Tyler Quadrangle Middlebourne

COMPANY Ridgewood Resources, Inc.  
ADDRESS P.O. Box 157, Reno, Ohio 45773  
DESIGNATED AGENT David Clovis  
ADDRESS P.O. Box 288, Parkersburg, WV 26101  
SURFACE OWNER Harold Gregg  
ADDRESS Rt. # 1, Middlebourne, WV 26149  
MINERAL RIGHTS OWNER See Attachment  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
ADDRESS P.O. Box 173 Middlebourne, WV  
PERMIT ISSUED 6-5-81  
DRILLING COMMENCED 6-16-81  
DRILLING COMPLETED 6-23-81  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

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	300.	300.	140 Sx' S
7			
5 1/2			
4 1/2	3996.59	3996.59	400 Sx'S
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3245--3302 feet  
Depth of completed well 4000 feet Rotary XX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh --- feet; Salt --- feet  
Coal seam depths: --- Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA  
Producing formation Devonian Shale Pay zone depth 3245-3302 feet  
Gas: Initial open flow 100 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 85. Mcf/d Final open flow 0. Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ 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

JUN 21 1983

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

Selectively perforated 25 shots from 2477. 2613' K.B.  
Acidized perforations with 1000 gals. 15% MDA + 10% HAC nitrified acid. Spearheaded with 100 bbls. of foamed crude oil. Sanded off with 19000 lbs. of sand in the formation.

95-915

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and c	
SICT, Unconsolidated Sand & Gravel			0.	165.	this data not on original record; needs to be added to 5 card -	
Pittsburgh Coal			165.	170.		
Carroll Sand			395.	410.		
Murphy Sand			760.	782.		
Little Dunkard			1095.	1112.		
Cow Run Sand			1310.	1330.		
Salt Sand			1496.	1525.		
Maxton Sand			1575.	1605.		
Big Lime (Maxville)			1658.	1710.		
Big Injun Sand			1720.	1834.		
Squaw Sand			1842.	1880.		
Weir Sand			2118.	2190.		Gas
Berea Sand			2241.	2244.		
Gordon Sand			2477.	2490.		Gas
Fifth Sand			2664.	2682.	Gas	
Warren			3244.	3284.		
Total Depth: 4000.'						

(Attach separate sheets as necessary)

RIDGEWOOD RESOURCES, INC.

Well Operator

By: W. J. Panchest / Drilling & Production Supt.

Date: May 19, 1983 "REVISED"

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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Harold Gregg  
Address Rt. #1, Middlebourne, WV 26149  
Mineral Owner See Attachment  
Address \_\_\_\_\_  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator None  
Address \_\_\_\_\_

DATE May 21, 1981  
Company L&M Petroleum Co.  
Address P.O. Box 89, Reno, OH 45773  
Farm Harold Gregg Acres 75  
Location (waters) Rush Fork  
Well No. 1 Elevation 804'  
District Meade County Tyler  
Quadrangle Middlebourne

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 2-5-82.

INSPECTOR  
TO BE NOTIFIED Phil Tracy  
ADDRESS Rt. 23, Alma, WV 25320  
PHONE 758-4573

Frederick R. Smith  
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 See Attached 19     by      made to Key Oil Co. and recorded on the See attached day of      19    , in Tyler 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.

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, L&M Petroleum Co.

(Sign Name) Jaanne Cogan  
Well Operator

P.O. Box 89  
Street  
Reno  
City or Town  
Ohio 45773  
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.

BLANKET BOND

47-095-0915

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 \_\_\_\_\_

**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 \_\_\_\_\_ NAME David Clovis  
 ADDRESS \_\_\_\_\_ ADDRESS Box 288, Parkersburg, WV  
 TELEPHONE \_\_\_\_\_ TELEPHONE 304-485-4403  
 ESTIMATED DEPTH OF COMPLETED WELL: 4500' 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	250	250	125 sx to surface
7			
5 1/2			
4 1/2	TD	TD	400 sx or as req. by
3			Perf. Top rule 15.01
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 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

MINERAL OWNERS-HAROLD GREGG #1

Harold Gregg & Pauline Gregg  
Rt. #1  
Middlebourne, WV 26149

Lease dated June 18, 1979 to Key Oil Co. recorded in Deed Book  
220, Page 25, Tyler Co., WV

Lena Webb & Troy Webb  
%Martha Nash  
Mulberry Heights  
Pomeroy, Ohio

Lease dated October 19, 1979 to Key Oil Co. recorded in Deed Book  
222, Page 126, Tyler Co., WV

Paul C. Smith & Hazel I Smith  
912 Walnut St.  
Elyria, Ohio 44035

Lease dated December 10, 1979 to Key Oil Co. recorded in Deed Book  
222, Page 535, Tyler Co., WV

Gertrude S. Wells, a Widow  
500 W. Main Street  
Harrisville, WV 26362

Lease dated December 12, 1979 to Key Oil Co. recorded in Deed Book  
222, Page 632, Tyler Co. WV

Beverly J. Miller & Fred Miller  
816 Main Avenue  
Sistersville, WV

Lease dated December 5, 1979 to Key Oil Co. recorded in Deed Book  
222, Page 537, Tyler Co., WV

Martha Sue Huggins  
610 RR Main Street  
Sistersville, WV

Lease dated December 5, 1979 to Key Oil Co. recorded in Deed Book  
222, Page 539, Tyler Co., WV

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OIL & GAS DIVISION  
DEPT. OF MINES