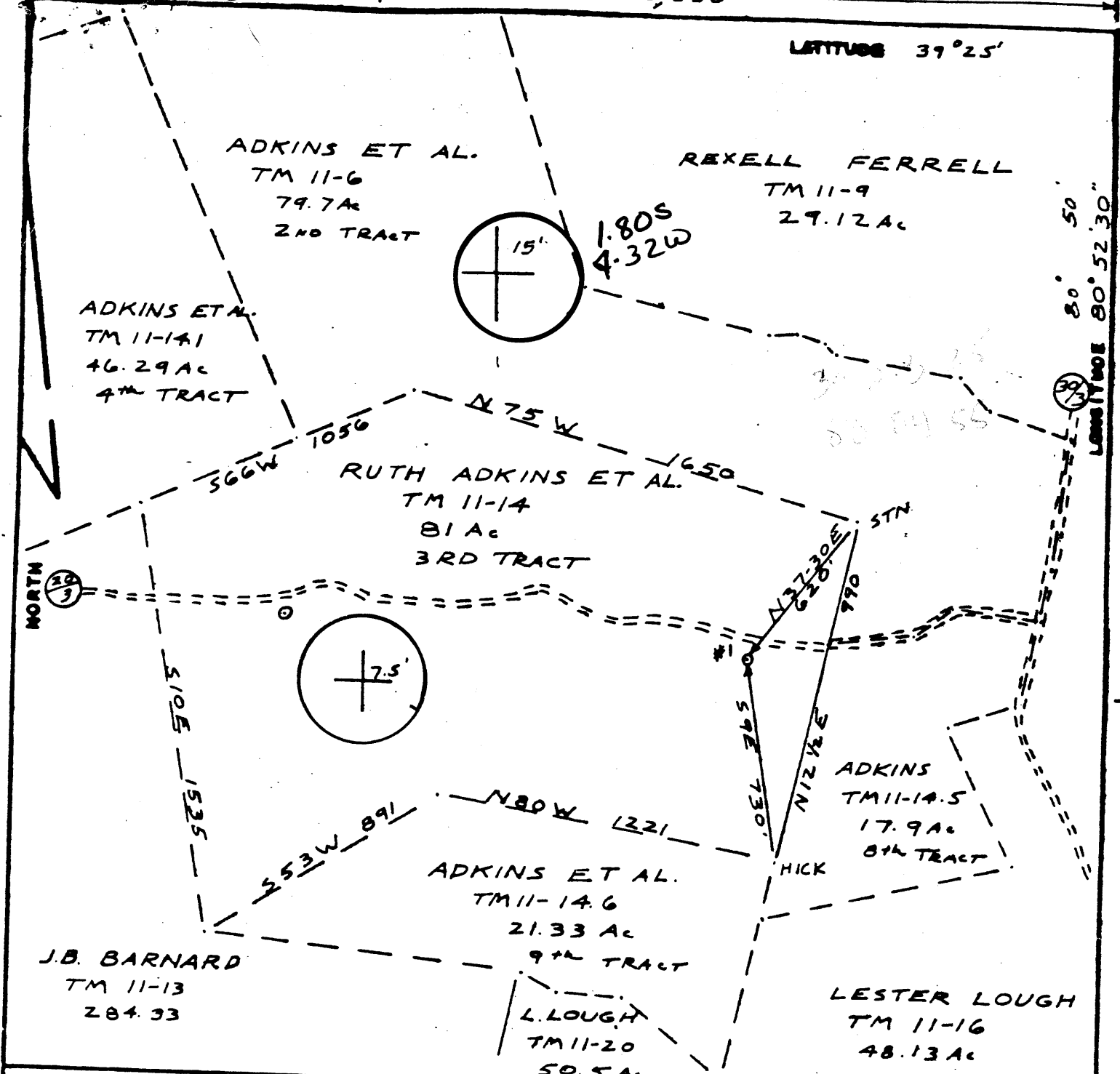


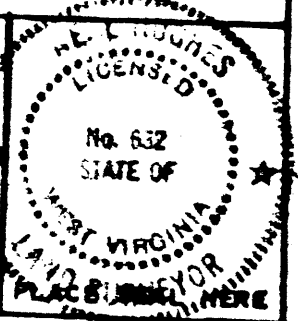
LATITUDE 39°25'

LONGITUDE 80°52'30"



FILE NO. L-11
 DRAWING NO. 1
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION ROAD 834

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. 632



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



DATE August 3, 1981
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-095-0941
 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 850' WATER SHED SANGHO CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE MIDDLEBOURNE 7.5' West U. C
 SURFACE OWNER RUTH ADKINS ET AL. ACRES 81
 OIL & GAS ROYALTY OWNER RUTH ADKINS ET AL. LEASE NO. _____ LEASE ACRES 420
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Wagon Wheel ESTIMATED DEPTH 1500'
 WELL OPERATOR W. M. Petroleum Co. DESIGNATED AGENT David Clavin
 ADDRESS P.O. Box 89 ADDRESS P.O. Box 288
Paris, Ohio 45773 Parkersburg, W. Va. 26101

AUG 31 1981

RECEIVED



JUN - 9 1983

Date May 19, 1983 (REVISED)
Operator's
Well No. # 1
Farm Ruth Adkins
API No. 47 - 095 - 0941

TV-35
rev 8-81)

State of West Virginia
OIL & GAS DIVISION
DEPT. OF MINES Department of Mines
Oil and Gas Division

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

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 850 Watershed Sancho Creek
District: Centerville County Tuler Quadrangle Centerville

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 Ruth Adkins
ADDRESS 1574 Picardy Circle, Clearwater, FLA
MINERAL RIGHTS OWNER Ruth Adkins
ADDRESS 1574 Picardy Circle, Clearwater, FLA
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS P.O. Box 173, Middlebourne, WV
PERMIT ISSUED 8-19-81
DRILLING COMMENCED 10-2-81
DRILLING COMPLETED 10-10-81
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	1654.55	1654.55	450 Sx'S
7			
5 1/2	4291.56	4291.56	500 Sx'S
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2304-TD feet
Depth of completed well 4291.56 feet Rotary XX / Cable Tools
Water strata depth: Fresh --- feet; Salt --- feet
Coal seam depths: --- Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale workover Pay zone depth 3231-3737 - 3833-3854 - feet
Gas: Initial open flow 85 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 25 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.

Huron

Selectivity perforate interval 3995-4005 with 40 shots. Stressfrac interval 3995.'-4005'.

N₂ Frac well with 1,298,400 scf N₂. *Huron*

Set Baker Model 45A retrievable bridge plug at 3797.5'K.B.

Selectivity perforate interval 3231-3737 with 22 shots. Acidize perforations 3231-3737'K.B. with 1500 gals. 15% HCL acid + 10% HAC. N₂Frac interval 3231-3737'K.B. with 1,250,000 scf N₂.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free gas and salt water, coal, oil and gas
SICT, Unconsolidated gravel			0.	98.	} this data not on original record - add to 5 cards
Pittsburgh Coal			98.	103.	
Minshall Sand			290.	347.	
Murphy Sand			443.	491.	
Moundsville Sand			675.	714.	
First Cow Run			875.	903.	
Dunkard Sand			1090.	1119.	
Second Cow Run			1310.	1362.	
Salt Sand			1580.	1602.	
Maxton Sand			1645.	1663.	
Big Lime (Maxville)			1714.	1774.	
Big Injun Sand			1774.	1896.	Oil
Squaw Sand			1896.	1950.	
Weir Sand			2138.	2232.	Oil
Berea Sand			2298.	2304.	Gas
Gantz Sand			2304.	2315.	
30' Sand			2567.	2580.	Oil
Gordon Sand			2721.	2734.	Oil
Warren Sand			3246.	3297.	Oil
Total Depth: 4325.'					

(Attach separate sheets as necessary)

RIDGEWOOD RESOURCES, INC.

Well Operator

By: *[Signature]* / Drilling & Production Supt.
Date: May 19, 1983

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



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STATE OF WEST VIRGINIA JAN 18 1982
DEPARTMENT OF MINES AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Middlebourne 7.5'

Permit No. 47-095-0941

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

Company Ridgewood Resources, Inc.
Address P.O. Box 157, Reno, OH 45773
Farm Ruth Adkins # 1 Acres 430
Location (waters) Sancho Creek
Well No. # 1 Elev. 850'
District Centerville County Tyler
The surface of tract is owned in fee by Ruth Adkins

Address 1574 Picardy Circle, Clearwater
Mineral rights are owned by Same as above FL

Address _____
Drilling Commenced 10-2-81
Drilling Completed 10-10-81
Initial open flow 100 cu. ft. _____ bbls.
Final production 85^M 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	1654.55	1654.55	450 sxs.
7			
5 1/2	4291.56	4291.56	500 sxs.
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforate 3231 - 3737' KB with 22 .38" holes, 3833 - 3854' with 48 .38" holes and 3995 - 4005' with 40 .38" holes. FRAC DATA: Stress frac 3833-3854 and 3995-4005' followed by nitrogen injection of 1,300,000 scf @ 45,000 scf/minute.

D.T.D. - 4325'

L.T.D. - 4284'

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Devonian Shale Depth 2304' to T.D.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			1714'	1774'		
Big Injun Sand			1774'	1896'	Oil	
Squaw Sand			1896'	1950'		
Weir Sand			2138'	2232'	Oil	Wet
Berea Sand			2298'	2304'	Gas	
Gantz Sand			2304'	2315'		
30' Sand			2567'	2580'	Oil	
Gordon Sand			2721'	2734'	Oil	
Warren Sand			3246'	3297'	Oil	
Total Depth - 4325'			<u>DEV. SH.</u>			<u>4325</u> <u>2304</u> <u>2021</u> → <u>Wet</u>

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

(over)

FEB 01 1982

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date January 12 19 82

APPROVED Ridgewood Resources, Inc. Owner

By G. G. Smith Operations Mgr.
(Title)



FORM IV-2
(Reverse)
08-78)

Date: Aug. 5, 19 81

Operator's Well No. Ruth Adkins #1

API Well No. 47 - 095 - 0941
State County Permit

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

OIL AND GAS WELL PERMIT

WELL TYPE: Oil X / Gas X /
(If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____ /)

LOCATION: Elevation: 850' Watershed: Sancho Creek
District: Centerville County: Tyler Quadrangle: Middlebourne 7.5'

WELL OPERATOR L&M Petroleum Co.
Address P.O. Box 89
Reno, Ohio 45773

DESIGNATED AGENT David Clovis
Address P.O. Box 288
Parkersburg, WV 26101

OIL & GAS ROYALTY OWNER Ruth Adkins et al
Address 1574 Picardy Circle
Clearwater, Fla.

COAL OPERATOR None
Address _____

Acreage 81 acres

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address _____
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SURFACE OWNER Same as above
Address Same as above
Acreage 81 acres

Name N/A
Address _____
OIL & GAS DIVISION
DEPT. OF MINE

FIELD SALE (IF MADE) TO:
Address N/A

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Lee Tracy
Address Rt. 23
Alma, W. Va. 26320

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X other contract _____ / dated Nov. 16, 19 77, to the undersigned well operator from Ruth Adkins et al
(If said deed, lease, or other contract has been recorded:)

Recorded on _____, 19_____, in the office of the Clerk of the County Commission of Tyler County, West Virginia in Deed Book 214 at page 584. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1015 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

L&M Petroleum Co.
Well Operator
By Joanne Cogan
Its Vice President

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 4500 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, N/A feet; salt, N/A feet.

Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS		
	Size	Grade	Weight per ft	New	Used	For drilling		Left in well	Kinds	Sizes
Conductor	8 5/8			X		250'	250	To surface		
Fresh Water										
Coal										
Intermediate										
Production	4.5			X		4500 T.D.	4500 T.D.	450 150-165 sacks according to Rule 15.01		Depths set
Tubing										
Liners										Perforations:
										Top Bottom


NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 4-19-82.


Deputy Director - Oil & Gas Division



The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____

Its _____