



BELMONT  
WEST VIRGINIA

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION B.M. 626'

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) William R. Mossel  
R.P.E. \_\_\_\_\_ L.L.S. 551

PLACE SEAL HERE



DATE 1 AUGUST, 19 60  
OPERATOR'S WELL NO. 1  
API WELL NO. 47-073  
STATE COUNTY PERMIT 0954

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 612' WATER SHED OHIO RIVER  
DISTRICT GRANT COUNTY PLEASANTS EC  
QUADRANGLE BELMONT, OHIO-W.VA. 7 1/2' QUAD. ST. MARY'S, 15' MARIETTA  
SURFACE OWNER JIM & SHIRLEY GREENWOOD ACREAGE 41  
OIL & GAS ROYALTY OWNER JIM & SHIRLEY GREENWOOD LEASE ACREAGE 41  
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 SHALE ESTIMATED DEPTH 4000'  
WELL OPERATOR LAUDERMAN O. EG. DESIGNATED AGENT PHILLIP MORGAN  
ADDRESS 311 S. 4TH AVE ADDRESS 311 S. 4TH AVE.  
P.O. Box 266 P.O. Box 266  
PADEN CITY, W.VA. 26159 PADEN CITY, W.VA. 26159

6-0 BELMONT

76 SEP 25 1960



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OCT 16 1981

Oil and Gas Division

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

WELL RECORD

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

Quadrangle 7 1/2 Raven Rock

Permit No. 0954

Company Lauderman Oil & Gas Drilling  
Address 311 S. 4th Avenue Paden City, W.Va.  
Farm Greenwood Acres 4  
Location (waters) Ohio Waters  
Well No. 1 Elev. N/A  
District Washington County Pleasants  
The surface of tract is owned in fee by James & Shirley Greenwood  
Address St. Mary's W.Va.  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced 11/7/80  
Drilling Completed 11/12/80  
Initial open flow Testing cu. ft. \_\_\_\_\_ bbls.  
Final production N/A cu. ft. per day \_\_\_\_\_ bbls.  
Well open N/A hrs. before test \_\_\_\_\_ RP.  
Well treatment details:

W.Va.	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	249	249	Cemented to Sur
	7			
	5 1/2			
	4 1/2	4000	4000	Cemented thru Pay Zone to surface
	3			
	2			
	Liners Used			

Attach copy of cementing record.

*Well Tested by Columbia Test Open Flow 180,000 Mc*

~~HAS NOT BEEN FRAC YET.~~

*1800M Farm Frac.*

Perf- 3771-3772 2 shots 3596-3597-2 sho

3682-3683 2 shots 3566-3569 4 sho

*APPROX. 6000 70/40 sand*

3618 1 shot

3614 1 shot

3606-3608 2 shots

Coal was encountered at No Coal Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 80 Feet \_\_\_\_\_ Salt Water 1500 Feet \_\_\_\_\_  
Producing Sand Ohio Shale Depth 3900

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
SHALE	Gray	Soft	0	80		
Sand	Gray		80	120		
Shale	Black		120	130		
Shale	Gray		130	315		
Rock	Red		315	480		
Shale	Gray		480	545		
Lime	Gray		545	720		
Shale	Gray		720	805		
Rock	Red		805	945		
Shale	Gray		945	1045		
Salt	White	Hard	1045	1155		
Shale	Gray		1155	1465		
Big Lime	Green		1465	1515		
Big Injun			1515	1570		
Shale	Gray		1570	1775		
Lime	Gray		1775	2090		
Shale	Brown		2090	2110		
Berea	Sand		2110	2115		
Shale	Gray		2115	2420		
Gordon Stray			2420	2590		
Shale	Gray		2590	2620		
Lime	Gray		2620	3175		
Shale	Gray		3175	3305		

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JUN 26 1981

OIL & GAS DIVISION  
DEPT. OF MINES

(over)

\* Indicates Electric Log tops in the remarks section.

NOV 5 1981



[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Greenwood #1  
API Well No. 47-073-954  
State County Perm

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

LOCATION: Elevation: 612 Watershed: OHIO RIVER  
District: GRANT County: Pleasants Quadrangle: Belmont 7 1/2

WELL OPERATOR Lauderman Oil & Gas  
Address 34 S. 4th Ave  
Paden City, WVA 26159

DESIGNATED AGENT Phillip Morgan  
Address \_\_\_\_\_

OIL & GAS ROYALTY OWNER Jim & Shirley Greenwood  
Address Newport, Ohio  
45768

COAL OPERATOR N/A.  
Address \_\_\_\_\_

Acreage \_\_\_\_\_

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER same

Name N/A.

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SEP 11 1980

Address \_\_\_\_\_

Address \_\_\_\_\_

Acreage \_\_\_\_\_

Name \_\_\_\_\_

FIELD SALE (IF MADE) TO:

Address OIL & GAS DIVISION  
DEPT. OF MINES

Name \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:

Address \_\_\_\_\_

Name \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Phillip Tracy

Address RD 3, ALMA  
West Virginia, 2

Address \_\_\_\_\_

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated 8 SEPT, 19 80, to the undersigned well operator from JAMES & SHIRLEY GREENWOOD

[If said deed, lease, or other contract has been recorded:]  
Recorded on \_\_\_\_\_, 19\_\_\_\_, in the office of the Clerk of the County Commission of Pleasants County, West Virginia, in \_\_\_\_\_ Book \_\_\_\_\_ at page \_\_\_\_\_. A permit is requested as follows:

PROPOSED WORK: Drill  / 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  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311

LAUDERMAN OIL & GAS  
Well Operator

By Phillip Morgan  
Its Land Agent

BLANKET BOND

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) UNKNOWN

Address \_\_\_\_\_  
\_\_\_\_\_

GEOLOGICAL TARGET FORMATION, OHIO shale

Estimated depth of completed well, 3990 feet Rotary  Cable tools

Approximate water strata depths: Fresh, 60 feet; salt, 1600 feet. if encountered

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

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKL.
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	<u>8 7/8</u>		<u>31</u>	<input checked="" type="checkbox"/>		<u>250</u>	<u>To be left in well</u>	<u>Kind</u>
Fresh water							<u>Cemented to sur</u>	
Coal								<u>Sizes</u>
Intermediate								
Production	<u>4 1/2</u>		<u>10.50</u>	<input checked="" type="checkbox"/>		<u>T.O. of hole</u>	<u>&amp; cemented</u>	<u>Depth set</u>
Tubing							<u>BACK ABOVE ANY PAY ZONES</u>	
Lines								<u>Perforations:</u>
								<u>Top Bottom</u>

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 drilling within 200 feet of the proposed well.

THIS PERMIT MUST BE DEPOSITED AT THE WELL SITE. 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 on such on the Form filed in connection therewith.

All provisions being in accordance with Code of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5/15-81.

[Signature]  
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:

W A I V E R

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 \_\_\_\_\_