Signed by _





DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE Feb. 6, 1981	Constant of the second
	1.	2
Surface Owner George A. Little	Company Lauderman Oil	
Address R.F. D. St. Marys, W.Va. 26170	Address 311 S. 4th Avenue	Paden City, W.Va. 2
Mineral Owner Same	Farm Geørge A. Little	Acres 24.56
Address	Location (waters) Middle Isl	and Creek
Coal Owner No Coal	Well No. One	Elevation 720
Address	District Washington	County Pleasants
Coal Operator	Quadrangle Raven Rock	
Address		
S PERMIT MUST BE POSTED AT THE WELL SITE		
provisions being in and I		
to code, the torotton is been	THENEOTOR	
drilling . This permit shall expire if	INSPECTOR TO BE NOTIFIED Phillip Tra	CV
nations have not commenced by 10-17-81	TO BE NOTIFIED THE	Cy
4	ADDRESS RFD Alms, W.Va.	
Supple !	PHONE	Section Section 1
Pepuly Director - Oil & Gas Division	PHONE	
GENTLEMEN:		
The undersigned well operator is entitled to drill upon	the above named farm or tract of land	for all and me having for
title thereto, (or as the case may be) under grant or lea		
Little made to Eugene Carr	25t	h Aug.
1981, in Pleasants County, Book 157		
X NEW WELL BOLLL BERDEN		
NEW WELLDRILL DEEPER _		TURE OR STIMULATE
NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRIL		TURE OR STIMULATE
The enclosed plat was prepared by a registered engine	LED BEFORE JUNE 5, 1969.	
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THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER DRILLING CONTRACTOR:	(If Known)	DEEPEN FR RESPONSIBLE AGENT:	ACTURE-STIMULATE		
NAME Unknown ADDRESS		NAME Phillip Morgan			
		ADDRESS P.O. Box 266 Paden City, W.Va. 26			
TELEPHONE		TELEPHONE337-221	5 (304)		
	OMPLETED WELL: 4600		CABLE TOOLS		
	FORMATION: Ohio Shale!				
	OIL GAS CO	OMB Y STORAGE	DISPOSAL		
THE OF WELL.			DD OTHER		
and the second of the second	RECICEN	WATER PEOC	OTHER		
TENTATIVE CASING PROC	GRAM:	and the second s			
4					
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP		
SIZE	DRILLING	WFL.L.	OR SACKS - CUBIC FT.		
20 - 16					
13 - 10	 				
9 - 5/8	050	050.0			
8 - 5/8	250'	250 Cemented I	rom Btm to surface		
7	<u> </u>				
5 ½					
4 ½	Run to Production levely				
3 company of the second			Perf. Top Perf. Bottom		
Liners			Perf. Top		
I.IIKIS			Perf. Bottom		
TO DRILL:	NICO OF OC. 1 ALMO OD DEDMIN	B FEE BEDECRMANGE DO	AND AND DEDMANDING COOK		
OF PLAT.	PPIES OF OG 1, \$100.00 PERMIT	r FEE, PERFORMANCE BO	OND AND PERMANENT COPY		
TO DRILL DEEPER OR RE	EDRILL:				
	PIES OF OG - 1, SHOWING ORIGIN		D PED FORMANCE BOND ON		
	IOR TO 1929, A PERMANENT CO				
TO FRACTURE - STIMULA					
	LL ORIGINALLY DRILLED BEFOR	RE JUNE 5, 1929, FIVE (5) C	OPIES OG - 1, PERFORMANCE		
the state of the s	PLAT AND ORIGINAL WELL REC				
	LL ORIGINALLY DRILLED ON AN IT NUMBER, AND PERFORMANCE		9, FIVE COPIES OG - 1, SHOW-		
Required forms must b	pe filed within ninety (90) days of c	ompletion for bond release.	Inspector to be notified twenty-		
four (24) hours in adv	ance.				
	· · · · · · · · · · · · · · · · · · ·				
The Callestine with	must be completed by the coal ope	rator if the name is in the best	send within lan days of reseint		
thereof.	must be completed by the coal ope	rator if the permit is to be i	ssard within art days of receipt		
	d, Agent for				
this lease have e	xamined and place on our mine ma	aps this proposed well locati	on.		
We the	Coal Company l	have no objections to said we	ell being drilled at this location,		
providing operato Code.	or has complied with all rules and regu	ulations in Articles 4, 5, and 7	, Chapter 22 of the West Virginia		
		Fic	or Coal Company		

ORIGINAL

Form IV-9 (01-80)

D	ate	15 [Dec	19 80
Well	No.	Little	2 # 1	
API	No.		_ 073	- 1/2/
		State	County	Permit

The state of the s

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS

Company Name Lauderman O	1 + Gas	Designated Agent	Phillip Mo	06.00
Address Box 266 , Paden City				
Telephone 337-2215		Telephone	337-2215	<u></u>
Landowner George A. Litt	10	Soil Cons. Distr	ict Upper Or	110
Revegetation to be carried out	t by <u>Jir</u>	n Renner		(Agent)
This plan has been reveiwed by	y Uppe	or Ohio	SCD. All corre	tions
and additions become a part of	f this plan.	2/5/8/ (Date)	Kennoth L (SCD Age)	Masin (nt)
Access Road		Loca	tion	
Structure	(A)	Structure		(1)
Spacing 2		Material .		
Page Ref. Manual		Page Ref. Manua	1	
Structure	(B)	Structure	1	(2)
Spacing		Material ^		
Page Ref. Manual		Page Ref. Thue	1 60	2
Structure	(C)	Structure 1	G Y	(3)
Spacing		Material .	6 10	Can h
Page Ref. Manual		Page Ref. Manua	D. 0	1/2)
All structures should be inspe	cted regula	rly and repaired	if necessary.	and the second
			7.9	
	Revegetat	ion	(3)	
	Revegetat		,0	
Treatment Area I		Treatr	ment Area II	
Lime	Tons/acre			s/Acre
or correct to ph 6.5	• 17 Marie 1940	or correct to	pH	
Fertilizer 500 (10-20-20 or equivalent	lbs/acre t)	Fertilizer (10-20-	500 lbs	d/acre
Mulch Hay 2	Tons/Acre	Mulch Hav	2 Tor	is/Acre
Seed* KY31 Fescue 35	lbs/acre	Seed KY31 Fes	cue 35 lbs	/acre
Redtop 5	lbs/acre	Redtop	5 108	/acre
*Incomisto all legumes such as u				

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved. Topographic map.

Quadrangle Raven Rock, W.Vo.

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Quadrangle Raven Rock, W.Vo.

Attach or photocopy section of involved. Topographic map.

At

Well Site Plan

Legend: Property Boundry

Road = = = =

Existing Fence - x - x - |

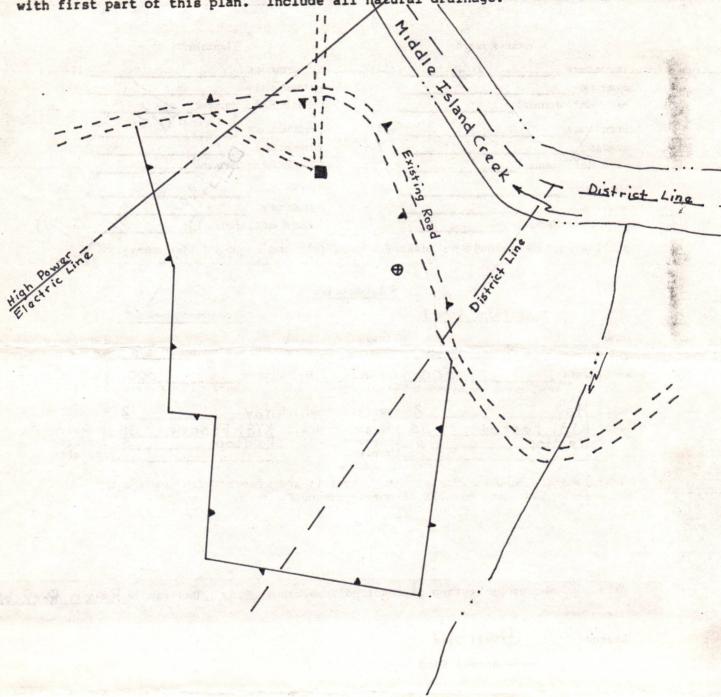
Planned Fence - |

Stream - |

Open Ditch - |

Diversion
Spring O
Wet Spot O
Building Drain Pipe O
Waterway C

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Comments: (1) No Access Road Needed

(2) Location Located in Field-No Brush or Trees

(3) Site Level-No Cut or Fill (4) Metal Rit to be Used

Signature Roll Day all Louden Cety Miles

Address Phone Number

Please request landowners cooperation to protect new seeding for one growing season.

800x 157 FAGE 202	
Uhis Tease, Made and entered into this 11th day on and between George A, and Eleave	ay of JUNE, 1980,
by and between GEORGEA, AND DEANE. RIH 39, ST, MARYS,	IN VA 26/70
NF# 27, 21, 14 HA 12,	W. A. I.C.
of the County of PLEASANTS and Sta	ate of West VA. lessor
of the County of 12th SAR, P.O. Box 194, FRICA	
1/23	dollarpaid by the lesses, the receipt of
is hereby acknowledged, dohereby grant, demise and let unto the der the following described tract of land, and also the said tract of l and operating thereon for said oil and gas, together with the right of	way, and the right to lay pipes to charten water in seem as are and operate wells thereon, also such other prioringes as are
necessary for conducting said operations, and the right to remove at	any time an property placed
in a growing group hy said ope	rations.
All that certain tract of land situate in WADALING	the waters of Middle Island Creek.
and State of West VA.	anded and described as follows, to-wit:
On the North by lands of Route 39 On the East by lands of RT 39 william Kidd	OR
On the East by lands of	PROPERTY)
On the West by lands of william Elder	
containing 95-ACRES	ACRES, more or less
containing	
but no wells are to be drilled within 300 on AS Mutake the premises without the lessor's consent.	Two years)
To have and to hold the same unto the lesseefor the term of particular gas, or	f years from the date hereof and as much longer as the r as oil or gas is found in paying quantities thereon, yielding
and paying to the lessorthe one-eighth (1/8) part or share of all the of expense into tank or pipe line to the lessor's credit; and should as	e oil saved from that produced on the premises, delivered free ny well produce gas or casing-head gas in sufficient quantities
of expense into tank or pipe line to the least	
of one-eighth (78) of the manager	be gas therefrom is conveyed and some out out providing the rate of said gas well payments, or said royalty of oil by
Said lesseeshall not be required in any event, to increase to reason of any royalty or interest in said oil or gas that may have be	he rate of said gas well payments, or said royalty of oil by
reason of any royalty or interest in said oil or gas that may have b	redecessors in title or otherwise.
mill and void a	and all the rights thereunder shall cease and determine unless
Provided, however, that this lease shall become han and	from the date hereof, or unless
one well shall be completed on the said promises within the lessee shall pay at the rate of the lessee shall pay at the rate of months such completion is delayed from the time above mentioned f	or the completion of said well until one well is completed. dRess Abive or deposited to
All payments may be made direct to Section Control of the credit in	or by check mailed to
credit in	P. OCounty
on in the same manner to	who is hereby appointed Agent
State ofor in the same manner to for such purpose; and 10 days grace shall be allowed on all p	yed from the premises, the lessormay have 150,000 of gas
그는 그는 사람들이 아이들 아이들 아이들이 아이들에게 되었다면 하다는 사람들이 되었다면 하는데 아이들이 아이들이 되었다면 하는데 그렇게 그렇게 되었다면 하는데 그렇게 되었다면 하는데 그렇게 되었다면 하는데 그렇게 되었다면 하는데 그렇게 되었다면 그렇게 그렇게 그렇게 되었다면 그렇게 그렇게 그렇게 되었다면 그렇게	annotione of locant (OSL M. Such Dulle as may be done
by the lessee for $\pm wo$ dwellings.	American III
	in the mansion nouse on said premises, to be as a
	and league met to be
in any way hable for insufficient supply of all desires any well	or wells and removing the pipe therefrom.
ing herein shall prevent the lesseefrom abandoning any work	ther adjacent tracts for a drilling unit of not more than three
Lessee at his option may combine the above property with o hundred (300) acres on which unit one well may be drilled. If it is of each tract in the unit and no delay rental shall be due to free gas from such unitized well as heretofore provided, and Less	or agrees to give free right of way for service mes of all service
members of the unit. Lessee is Notto useexisting Rom well Location is by mutual Agree LAND-RETURNING IT AS NEAR AS POSS	Ads To farm, but 15 to build the IROW
well Location is by mutual AGREC	Mento Lessee 13/0 GAAde & Reseed
LAND-RETURNING IT AS NEAR AS POSS	ible 16 15 ORIBINAL CINTIBER.
It is further agreed, that the second party shall, by paying time to the first partand thereafter be fully discharged from	all moneys due, have the right to surrender this grant at any any and all claims whatsoever arising from any neglect or non-
fulfillment of the foregoing contract.	all conditions between the parties hereunto shall extend to the
It is understood between the parties to this agreement that heirs, executors, successors and assigns of the respective parties.	and conditions between the parties and year first above written.
IN WITNESS WHEREOF, The said parties have hereunto	set their hands and seals the day and year first above written.
Signed, sealed and delivered in the presence of	× Llorge U. Lettlo (SEAL)
grace vivine con	x Eleanor Little (SEAL)
	(SEAL
- Carr	(SEAL)
this instrument pregrated by Gugan	(SEAL)
TO RE-ONDER WRITE THE PARBORS ADVOCATE PARBORS W. W. W.	(SEAL)
PARSONS, W. VA.	La Land Control

at he certificate thereto an-	S/25/80 in, together wit	is day and thereupo	writing was th in my office, i	egoing paper brooss for record	The for
WIT: SANTS COUNTY.	EASANTS, TO-	OUNTY OF PL	RGINIA, CO.	OF THE CLE	STATE OFFICE
	said County of	Public in and for	viatoN a	CO SECTION OF THE PARTY OF THE	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	o dia populari	:tiw-ot ,			COUNTY OF.
a the second of		10 JEAN 1		ST VIRGINIA,	STATE OF WE
State of Expressive State of the AND RECORDED IN THE OFFICE OF THE COUNTY COURT COURT.	No. of	Date	State of TO	FROM P. O. Address	Oil and Gas Lease
County, W. Va.			County,		My commission
. A. D., 19			he same before mo Teial seal, this		PARTIES NOT
ei "G .A	date gair				
муроке пате					dertify that
M	. said County of	Public in and for	VisioN s		'I
		:diw-ot ,			COUNTY OF.
		L		ST VIRGINIA,	STATE OF WE
		9861	zi wedno	expires - Meco	noisaimission yn
or (Alegoanta) County, W. Va	tary Public in and fo	°N		2	115
wee Care	hase for	7	en Service		000
0.8-81 ,a .A	ours 30	day	icial seal, this	ito bas basd ym	F. Civen under
		o) in my said Co	he same defore me	y acknowledged th	sb sidtsr
whose name	duttle	GROONER.	2. Justille +	Depresols	le certify that
Cotrosoph	Said Sounty of	Public in and for			
EDS 30A1 TEL MO	Ć a	:tiw-ot ,	Cof	LLOODON'S	
503 157 AGE EOS				ST VIRGINIA,	TW TO TTATE

County Court of Pleasants County

Teste: Juda W. Hammeld



IV-35 (Rev 8-81) OIL & GAS DIVISION

DEPT. of MINES of Mest Mirginia

Bepartment of Mines Gil und Gas Division

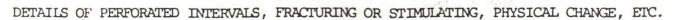
Date	9/22/83			
Operato		0.		
Well No).	-		
Farm Ge	orge Little			
API No.	47 - 073	-	1121	

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 721 Watershed Mi	ddle Isl	and Creek		
District: Washington County Please	ants	_Quadrangle	e Raven F	lock
COMPANY Lauderman Oil & Gas	1001			
ADDRESS Paden City, West Virginia	Casing	Used in	Left	Cement
DESIGNATED AGENT Phillip Morgan	Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS P.O. Box 266, Paden City, W.Va. 26159	Size			
SURFACE OWNER George A. Little	20-16			l de
ADDRESS Rt. 39, Box 109, St. Marys, W.Va. 26170	Cond.			
MINERAL RIGHTS OWNER Same	9 5/8			
ADDRESS	8 5/8	1160	1160	Cumfaca
OIL AND GAS INSPECTOR FOR THIS WORK Bob	7	1100	1160	Surface
Lowther ADDRESS Middlebourne, W.Va.26149	5 1/2			
PERMIT ISSUED 2-17-81	4 1/2	4157	4157	300 cu.
DRILLING COMMENCED 4-23-81	3	1107	4107	300 ca.
DRILLING COMPLETED 5-31-81	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners			
GEOLOGICAL TARGET FORMATION Devonian Shale	-	Dep	h 4,000	feet
Depth of completed well 4,190 feet R				
Water strata depth: Fresh 120 feet;	Salt Nor	ne feet		
Coal seam depths: No	Is coal	being mine	ed in the	area? No
OPEN FLOW DATA				
Producing formation Devonian Shale	Pay	z zone den	-h 3500_3	659 feet
Gas: Initial open flow 150 Mcf/d				
Final open flow 30 Mcf/d		nal open fi		Bbl/d
Time of open flow between initi				
Static rock pressure 865 psig(surface				
(If applicable due to multiple completion-		, 0230		IS SINCE II.
Second producing formation		y zone dept	-h	feet
		itial open		Bbl/d
			-	Bbl/d
Final open flow Mcf/d	OTT - I'II			



The George A Little #1 was frac'd from 3,659 to 3509, using twenty select fere perfs .39 in diamieter. Nitrogen was used for the frac in the amount of 750,000 std. cubic feet.

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 Rock Sand & Shale	Surface	1224	
Salt Sand	1224	1276	
Shale	1276	1280	realization for manage with
Maxton	1280	1319	
Big Lime	1319	1348	real difference to be a property of
Big Injun	1348	1526	
Shale	1526	1551	70 J 70
Squaw	1551	1566	
Shale	1566	1918	
Berea	1918	1920	
Shale	1920	2026	
Fifty Foot	2026	2040	
Shale	2040	2312	- X - X
Gordon Stray	2312	2326	
Shale	2326	2342	
Gordon	2322	2416	
Shale	2416	4157	
	7-6:		
	AND THE RESERVE OF THE PARTY OF		
		181	

(Attach separate sheets as necessary)

Golden Black	
Well Operator	
By: Edward E. Illing	
Date: 3/19/85	

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 coal, encountered in the drilling of a well."





OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines Gil and Gas Bivision Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT March 26, 1985

	March 26,	1985
COMPANY	Lauderman Oil & Gas	PERMIT NO 073-1121
	Golden Black, Inc	FARM & WELL NO George Little #1
Market Committee of the	Gale Road ac, Michigan 48054	DIST. & COUNTY Washington/Pleasant
		IN COMPLIANCE
RULE	DESCRIPTION	YES NO
23.06	Notification Prior to Starting W	ork
25.04	Prepared before Drilling to Prev	ent Waste
25.03	High-Pressure Drilling	
16.01	Required Permits at Wellsite	
15.03	Adequate Fresh Water Casing	
15.02	Adequate Coal Casing	
15.01	Adequate Production Casing	
15.04	Adequate Cement Strenght	
15.05	Cement Type	
23.02	Maintained Access Roads	
25.01	Necessary Equipment to Prevent W	aste
23.04	Reclaimed Drilling Pits	
23.05	No Surface or Underground Pollut	
23.07	Requirements for Production & Ga	thering Pipelines
16.01	Well Records on Site	
16.02	Well Records Filed	
7.05	Identification Markings	
I HAVE	INSPECTED THE ABOVE CAPTIONED WELL	AND RECOMMEND THAT IT BE REPEASED:
		SIGNED Kith Lowthle
		DATE apr/, 1985
with Ch		tion requirements approved. In accordance e above well will remain under bond
		Administrator-Oil & Gas Division
		April 18, 1985
		DATE

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