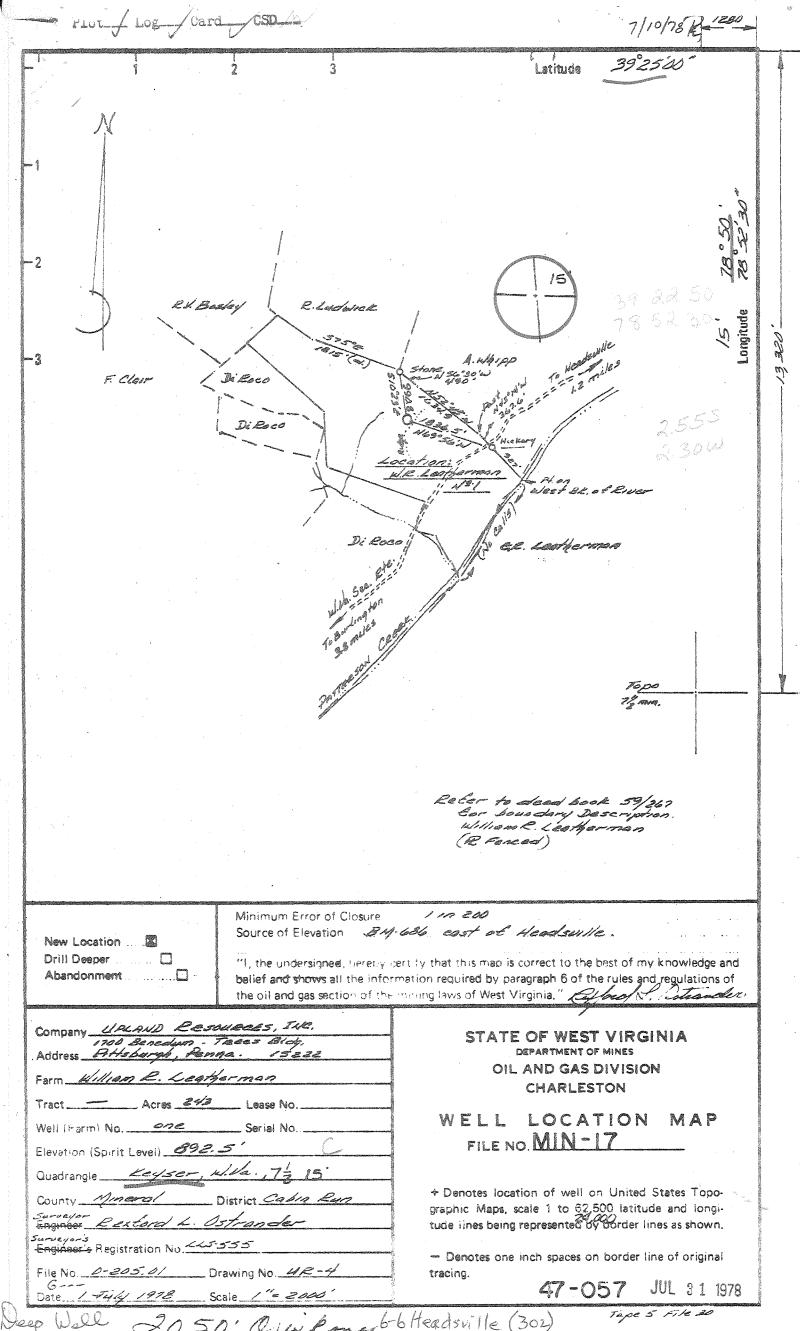


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STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

AARS S DECABA

JUL - 9 1979 47-057-0017 OIL & GAS DIVISION

Demination of MINES

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Signed by ____





OLS GAS DIVISION DEFT. OF WINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

	Charleston, W. Va.	DATE July 5, 1978 Upland Resources, Inc.			
	Surface Owner William R. Leatherman	Company c/o Huntley & Huntley, Inc.			
	Address Route 1, Box 110, Burlington, W.Va. 20	Address 1700 Benedum-Trees Bldg., Pgh. PA			
	Mineral Owner SAME	Farm William R. Leatherman Acres 243			
	Address	Location (waters) Patterson Creek			
	Coal Owner NO COAL	Well No1- Elevation 892.5			
	Address				
	Coal Operator NOT APPLICABLE	Quadrangle Keyser			
,	Address				
	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 receipt shall arrive	INSPECTOR			
	- Section of the second of the	TO BE NOTIFIED Robert S. Stewart			
	operations have not commenced by 11-17-78	ADDRESS P.O. Box 345, Jane Lew., W.Va. 2637			
	Topeth to al				
	Deputy Director - Oil & Gas Division	PHONE (304) 884-7782			
	GENTLEMEN:				
	The undersigned well operator is optished to double				
	title thereto (or as the once may be) and a series of	he above named farm or tract of land for oil and gas, having fe			
	Leatherman Columbia Gas Trans	dated January 23 1975 by William R.			
	made to columbia das italis.	Corp. and recorded on the 20th day of Februa			
	1975, in Mineral County, Book 195				
		Page			
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	XXXX NEW WELLDRILL DEEPER	REDRILL FRACTURE OR STIMULATE			
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THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

A COMPANIA CONTRACTOR OF TRACTOR		DEEPENFRACTURE-STIMULATE		
DRILLING CONTRACTOR: (NAME_Talkington-Brady		RESPONSIBLE AGENT: NAME Troy A. Brady, Jr. ADDRESS P.O. Box 371, Buckhannon, W. Va. 26		
ADDRESS P.O. Box 371,	Buckhannon, W. Va. 2620			
TELEPHONE (304) 472-4	677	TELEPHONE (304)	472-4677	
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Official Title



Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

	DATE August 20, 13	981 - STALL AND STATE OF STATE
writes Owner William R. Leatherman	Company Upland Reso	urces, c/o Westvaco
Rt. 1. Box 110, Burlington,		
fineral Owner Same as above	Farm William R. Leat	herman 243
4.	Location (waters) Patt	
	Well No. 1	
ddress	District Cabin Run	
Coal Operator N/A	Quadrangle Keyser 7½	
44700	RELIGITIMENTALISHAN INDICENCENTATION AND AND AND AND AND AND AND AND AND AN	The state of the s
RMIT MUST BE POSTED AT THE WELL SITE		
risions being in accordance with Chapter 22,		
W. Va. Code, the location is hereby approved	INSPECTOR	
racturing . This permit shall expire if	TO BE NOTIFIED Robert	Stewart
ons have not commenced by 5-10-82	D.O. Port 745	T
79 Hurry	ADDRESS P.O. Box 345,	Jane Lew, WV
uty Director - Oil & Cos Ovision	PHONE 884-7782	
entlemen:	o drill upon the above named farm or tract of	
in County, Bo		day of
made to County, Bo NEW WELL DRILL	ok and recorded on the _ DEEPER REDRILL XXX	day of
in County, Bo NEW WELL DRILL OIL AND GAS WELL ORIGINA	and recorded on the	FRACTURE OR STIMUL
in County, Bo NEW WELL DRILL OIL AND GAS WELL ORIGINA	ok and recorded on the _ DEEPER REDRILL XXX	FRACTURE OR STIMUL
made to	DEEPER REDRILL XXX LLY DRILLED BEFORE JUNE 5, 1969. ered engineer or licensed land surveyor and stor are hereby positived that are chication the	FRACTURE OR STIMUL.
made to	DEEPERREDRILL XXX LLY DRILLED BEFORE JUNE 5, 1969. ered engineer or licensed land surveyor and a tor are hereby notified that any objection the caived by, or filed with the Department of Mi	FRACTURE OR STIMUL. all coal owners and/or oper y wish to make, or are req ines within ten (10) days.
made to	and recorded on the	FRACTURE OR STIMUL all coal owners and/or oper y wish to make, or are req ines within ten (10) days. the above named coal oper
made to	and recorded on the Ok	FRACTURE OR STIMUL. all coal owners and/or oper y wish to make, or are requires within ten (10) days. the above named coal oper before, or on
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made to in	and recorded on the ok	FRACTURE OR STIMUL. Ill coal owners and/or oper y wish to make, or are req ines within ten (10) days. the above named coal oper before, or on yest Virginia. esources al Consultants, Ager perator te

clamation requirements as set forth in will carry out the specified requirements."

Blanket Bond Number on File

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	DRILL	DEEPEN XXX FRACTURE STIMULATE			
DRILLING CONTRACTOR: (I		RESPONSIBLE AGENT:			
NAME		NAME			
ADDRESS		ADDRESS			
TELEPHONE	·	TELEPHONE			
ESTIMATED DEPTH OF COMP	-	ROTARY	CABLE TOOLS		
PROPOSED GEOLOGICAL FOR					
		OMB STORAGE	DISPOSAL_		
TIPE OF WELL: OIL		NG WATER FLO			
	RECYCLI	NG WAIER FLC	OTHER		
TENTATIVE CASING PROGRA	M:				
CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WILL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16					
13 - 10					
9 - 5/8			i i i i i i i i i i i i i i i i i i i		
8 - 5/8	418'	418'	Cement to Surface		
7					
5 1/2					
4 ½		2290'	105 sks 229 5Ks		
3			Perf. Top Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom -		
APPROXIMATE FRESH WATER APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN THE	No Coal	BY WHOM?	r Dr.1		
TO DRILL:					
OF PLAT.	OF OG - 1, \$100.00 PERM.		OND AND PERMANENT COPY		
TO DRILL DEEPER OR REDRI	LL:				
	TO 1929, A PERMANENT C		ID PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE:					
	PICINALI V DRILI ED DEBO	DESIGNE F 1000 CIVE (E)	COPIES OC - 1, PERFORMANCE		
BOND, PERMANENT PLAT	T AND ORIGINAL WELL RE	CORD.			
	DRIGINALLY DRILLED ON A UMBER, AND PERFORMANCE		9, FIVE COPIES OG - 1, SHOW-		
Required forms must be file four (24) hours in advance.		completion for bond release.	Inspector to be notified twenty-		
,					
	Margary - Responsive communication and adaptive services and adaptive control of the service of				
· · · · · · · · · · · · · · · · · · ·					
The following waiver must thereof.	be completed by the coal op-	erator if the permit is to be	issued within ten days of receipt		
WAIVER: I the undersigned. Ag	ent for	Coal Company Owner	or Operator of the coal under		
	ned and place on our mine m				
providing operator has			ell being drilled at this location, 7, Chapter 22 of the West Virginia		
Code.	•				

For Coal Company

IV-35 (Rev 8-81)

RECEIVED



Date October 9, 1981 Operator's OCT 1 3 1981 State of West Hirginia Well No. 1

Farm Leatherman

API No. 47 -057 - 0017

OIL AND GAS DIVISION Bepartment of Mines WY DEPARTMENT OF MINES Gil und Gas Division

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X/ Underground	n/ Wast und Storag	ce Disposa ge/ Dee	l/ p/ Sha	llow (/)
LOCATION: Elevation: 893' Watershed P				-
District: Cabin Run County Mine	ral	Quadrangl	e <u>Keyse</u>	r
COMPANY Upland Resources %Westvaco				
ADDRESS 299 Park Ave., N.Y., N.Y. 10017	Casing	Used in	Left	Cement
DESIGNATED AGENT T. Brady	Tubing	Drilling		fill up Cu. ft.
ADDRESS P.O. 1016, Keyser, W.Va. 26726	Size			
SURFACE OWNER William R. Leatherman	20-16 Cond.	Anger Control		
ADDRESS Rt. 1, Box 110, Burlington, W.Va. 26710	13-10"			
MINERAL RIGHTS OWNER Same as above	9 5/8			
ADDRESS		419	430	
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	419	419	surface
R. Stewart ADDRESS Jane Lew, W.Va.	7			
PERMIT ISSUED	5 1/2		2290	105 -1
DRILLING COMMENCED 8/7/78	<u>4 1/2</u> 3		2290	105 sks
DRILLING COMPLETED 2/1/79				
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners			
ON	useđ			
GEOLOGICAL TARGET FORMATION Oriskany Sandstone	And the second s	Dept	h 1972	feet
Depth of completed well 2308 feet Ro	otary	/ Cable	Tools X	XX
Water strata depth: Fresh 380; 75@feet;	Salt	— feet	- National	
Coal seam depths: No Coal	Is coal b	eing mine	d in the	area?
DPEN FLOW DATA		-		
Producing formation Marcellus & Needmore Sh	ala Dav	zono donti	h 1 <i>44E</i> 10	05 5 .
Gas: Initial open flow 0 Mcf/d (il: Trit	ial open	Flan 0	Dia leet
Final open flow 15 Mcf/d	Fina	l onen fl	U	BDL/G
Time of open flow between initia	ul and fin	al tests	ba-	
Static rock pressure psig(surface	measureme	nt) after	IROU	rs :
(If applicable due to multiple completion-)	iic, arcer	nour	s shut in
Second producing formation		zone denti		£t-
Gas: Initial open flow Mcf/d C	il: Tni+	ial onen d	i.	7991
Final open flow Mcf/d C	ile Fina	l open fla	- ± UW	DDT\Q
Time of open flow between initia	l and fin	al toeto	/ **	
Static rock pressurepsig(surface m	easurement	t) after	nou	.a chut :-
,		— gr — were the Nationality — electricity	د شاهد د	, June III

FORM IV-35 (REVERSE)

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

Bridge Plug at 1999'
Perforated at 1828-1985; 22 shots; 1st stage
1445-1653; 20 shots; 2nd stage
Fractured 1st stage with a 15% acid foam frac of 140 bbls. of top hole

fluid and 240 sacks of 20/40 sand.

Fractured 2nd stage with an 8% acid foam frac of 100 bbls of top hole fluid and 160 sacks of 20/40 sand.

WELL LOG

	.71	علما سلتا	
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Hamilton Formation	0	1423	
Marcellus Shale	1423	1534	
Purcell Member of the Marcellus Shale	1534	1686	
Lower Marcellus Shale	1686	1787	
Tioga Bentonite	1787	1808	
Needmore Shale	1808	1972	
Oriskany Sandstone	1972	2196	
Shriver Chert	2196	2308	
T.D.	2308		

(Attach separate sheets as necessary)

Upland Resources Well Operator Agent: Energy (Energy Opega Date: 0ctober 9, 1981

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 contains, encountered in the drilling of a well."

STATE OF WEST VIRGINIA SECTION OF ENVIRONMENTAL PROTECTION SECTION OF OIL AND GAS

Permitting
Office or Cit & Gastfidavit of Plugging and Filling Well

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

respective a	addresses.				
Farm name:	LEATHERMAN,	W.E. MRS.	Operator	Well No.:LEA	THERMAN #1
LOCATION:	District:	892.50 Qu CABIN RUN 13320 Feet S 1280 Feet W	Couth of 39	EADSVILLE ounty: MINERA Deg. 25 Min. Deg. 52 Min.	L O Sec. 30 Sec.
Well Type:	OIL	GAS x	. *		
Company:	Upland Resource PO Box 429 Keyser, WV 26	726	Coal O or Own	perator <u>NA</u> er	
		r	Coal O		
Permit Issu	ed: 06/04/9	5		***************************************	
			FIDAVIT		
County of _	ST VIRGINIA Upshur	_ ss:			being are experienced
and fillir Gas Inspectommenced the well v	ng the above	well, andsenting the	Phillip T Director, ay of in the fol	<u>Pracy</u> say that	vork of plugging Oil and said work was 96, and that er: VED LEFT
Cement		2308	1750		
Ge1		1750	1400		
Cement		1400	1300		
Gel Cement		1300 850	850 750		
Gel		750	500		
Cement		500	400		
Gel		400	l50		1119119191
Cement		50	0) ' '
Descri and t	iption of monaterial intervals in the monaterial intervals in the world in the monaterial intervals in the monater	nument:	ng and fill	ing said well	was completed on
the		ily	, 19 ₉₆ .		<u>.</u>
	r deponents			K L. What	
	-		\mathcal{L}	01880	
Caro rannaman	SUBSCILERE	>>>>>>>> Afore me this	12 day	of July	, 19 96
My commission	SON EXPRIME	1 ×03-03		01 (00	
The state of the s	STATE OF WEST ILENE MUR 13 EAGLE BUCKHANNON. My Commission Expire	RRAY		Oline III A	Public .
S. Secretary	Manney O. T. Am	and Gas Inspe	ctor:	HIJ WA	<u>U</u>