

Static rock pressure, ____

_ psig (surface measurement) after _____Mhetis 1602: in

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

4339 to 4342 4 shots 4068 to 4086 8

ELL LOG

			<u>•</u>		:
FORMATION -::	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all and salt water, coal, cil-a
Shale	Gray	0	90		=
Sand	White	90	120	·	and the state of t
Shale Rock	Gray Red	120 450	: 450 : 685		
Lime	Gray	685	995		
Shale Big Lime	Gray Gray	995 1280	1280 1650		
Big Injun	Gray	1650 [°]	1705		
Shale Shale	Gray Boown	1705 2215	2215 2245		
Berea Sand	Gray	2245	2 250		* * #
Shale Thirty Foot Gordon Stray	Gray Gray .	2 250 2455	2455 2515		구 그
Shale	Gray	2515	2515 2560		· · · · · · · · · · · · · · · · · · ·
Gordon Sand Shale Lime	Gray Gray	2660 2680	2680 4320	· :	
Middle Devonian	Gray	4320	4420		
ime BENSON	Gray	4420	4558	HUNDER	
	. ' .			Manuel Line Co	
				: 2750 :	•
				2508	
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	. [•
	: l		I	•	••

(Attach separate sheets to complete at necessary

LAUDERMAN OIL & GAS DRILLING

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Welipperstor

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1. Assistant Service Copydinator

NITE: Repulation 2.02(1) provides as follows:

"The term 'log' or 'bell log' shall near a systematic, detailed peologial record of all formations, including coal, encountered in the drilling of a bell."

FORM IV-2 OFFICE OF OIL A	E OF WEST VIRGINIA ND GAS - DEPARTMENT O	F MINES Date: 5 7 9/
OII AND CAS	JELL DEDMIT ADDUTE	Name: C. D. HICKM
	WELL PERMIT APPLIC	
WELL TYPE: 0il X / Gas X / (If "Gas", Production / U	nderground storage	_/ Deep/ Shallow /
LOCATION: Elevation: 805 W	atershed: Muddle	Island Creek
District: UNION C	ounty: Tiller	Quadrangle:
WELL OPERATOR Loudelman Oil & Cas		
Address POBOX 366		
LANCER C. ta INIU,	<u> -</u>	
OIL & GAS ROYALTY OWNER (P)		
ROYALTY OWNER Charles To Lice Km	COAL OPERATOR_	
Address Rta Rolling Ac		
Acreage 190	,	
SURFACE OWNER SAMO		WITH DECLARATION ON RECORD:
Address	Name_ Address	DIRCEIVEM
Acreage	Name	MAY - 8 1981
FIELD SALE (IF MADE) TO:	Address	OIL & GAS DIVISION DEPT. OF MINES
lame///p		lead lease 1 1 1 Lal 1 1 VIII V lease lead
Address	COAL LESSEE WI	TH DECLARATION ON RECORD:
		N/A.
IL AND GAS INSPECTOR TO BE NOTIFIED:	Address_	
lame Millio TRACE BIME MU	Δ	
The undersigned well operator is entit	573tled to operate for o	l or gas purposes at the abov
ocation under a deed/ lease/ of	ther contract/ dat	ted 10. NACTI, 1971, to the
ndersigned well operator from Color of the If said deed, lease or other contract has		/
ecorded on 14 mm, 1974, in the off		he County Commission of This
ounty, West Virginia, in 186 Book		
PROPOSED WORK: Drill X Drill Deepe		
Plug off old formation		
Other physical change		en e
The above named coal operator, coal own pjection they wish to make or are required artment of Mines within fifteen (15) days Copies of this Permit Application and to registered mail or delivered by hand to ssees on or before the day of the mailing and of Mines at Charleston, West Virginia. **EASE SUBMIT COPIES OF ALL **TOPHYSICAL LOGS DIRECTLY TO:** **TOPHYSICAL LOGS DIRECTLY	er(s), and coal lesse to make by Code § 22- after the receipt of he enclosed plat and the above named coal or delivery of this	e are hereby notified that an 4-3 must be filed with the De this Application by Departmen reclamation plan have been ma

PROPOSED WORK ORDER

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

DRILLING CO	NTRACTO	R (IF	KNOWII)	5	LAN	CC_	# ##		
				Addre	:ss	MARRIETI	n. 8 1,0		•
			•		****				
GEOLOGICAL 1	TARGET	FORMAT	TON	Blo	_	of Ohio	51.1		
									Cable tools/
							· ·	1600 feet.	· ·
									ea? Yes/ No/
•				-					ca. 163/ NO/
CASING AND	rubing -								·
CASING OR TUBING TYPE	Size	t	IFICATION Weight	1	Usad	1	INTERVALS	CEMENT FILL- OR SACKS (Cubic feet	*
Conductor					10000	. Or drilling	reit in well	(Cdbic leet	Kinds
Fresh water	85/8		20	X		260	Concer la	1 10 50%	
Coal							C m c m c v	20 201	Sizes
Intermediate		·							51265
Production	4/2		10.50	Х		: 4900 f	cet Co	mente d	Depths set
Tubing							1	o Within	
Liners									Perforations:
		•							Top Bottom
									20000
· *****						-			
TH Al of fo	IIS- PERA I provise the War drift dr	AIT MU ons be . Va. C illing	n the P IST BE F ing in a ode, the	Coorde locati The enced	D AT more work on is his period by 1	THE WELL SITE with Chapter 22, more by approved mit shall expire it	the work for ction therewi		mulating a well it is sought and
	Deputy	y Directo	or - On 6		DIVISIO				
The location has well location the work protection the work protection the work protection to the work protection with the work protection the work protection the work protection to the work protection that the work protection the work protection that the work protection the work protection that the work protection the work prote	to be under examing the cosed t	issued signed ed thi well 1	coal o	fift perat sed w	or_	d declaration (15) days of r WAIVER / owner ocation. If	under Code seceipt thereo	of the ists which co	cocl owner the permit coal under this well vers the area of the has no objection to aplied with all
Date:			_, 19			•			
			•,			1	Ву		

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