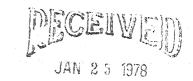


6481. Nowbur 5-5 Burnwell (262) Deep Wel



STATE OF WEST VIRGINIA DEPARTMENT OF MINES



OIL & GAS CIVISION DEFT. OF MINES

Oil and Gas Division

Quadrangle Eskdale Permit No. Kan-2796	,		RECORD:	2	Cable Recycling_	Comb
Company Appalachia Address P.O. Box 62 Farm Shonk Land	8, Charleston.	W. Va. 2532	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters)	Cabin Creek	ciez Tordo	any a na and any domain of charactery during the confidence of the	VIII.		(ons.)
Well No. 31		11201	Size	o deliberation	THE COLUMN TWO IS NOT	
District Cabin Creek	C	16 V	20e16	The state of the s	OPPRISON NO.	
The surface of tract is o	County Na	<u>inawna</u> Lhonb	Cond.	431	431	
Land Co	when in iee by	Andrews approximate control of the second of	13-10"	-		
Land Co. Attn: Address Box 969, Ch	Mr. J.S. Ste	vens	9 5/8	1556'	15561	
Mineral rights are	erreston, w.va	2	8 5/8	and and an inches		
Mineral rights are owned						
Address			5 1/2			
Drilling Commenced	10/12/77		4 1/2	24221	24221	
Drilling Completed	10/31/77	PROCESSION CONTRACTOR		***************************************		
Initial open flow	ou s	bbls.	2	-		
Final production 219 1	L_cu. ft. per day	hhie	Liners Used			•
Well open 4 Well treatment details:	hrs. before test_	285# RP	- 15 3 Providing and Marginery politics of the control of the cont			
Coal was encountered at 50 resh water 50 roducing Sand Big	F.p.	at a	Salt \	Water 107 2270-2271	0 ': 2267-2	Feet
Formation Color	Hard or Soft			<u> 2226=2240</u>	*	The Control of the Co
	ARIG OF DOLL	Top Feet	Bottom Feet	Oil, Gas or	Water *	Remarks
Sand						
Shale		0	142	NA-		
Sand		142 350	350			
Shale	OD LINE	456	456			
Sand	a discrete	695	695 828			
Shale		828	870			
Salt Sand		870	1091			
Shale		1091	1108			
Salt Sand		1108	1218			
Shale		1218	1392			
Shaley Sand	Miller	1392	1560			
Sand Shale		1560	1582			
Sandy Shale	bias di Caracina d	1582	1706	فو	1160	
faxton	MEANO (COLOR	1706	1864	4	0000	
exton ittle Lime	NETURIOZA	1864	1938	×	2240	
ine and Shale		1000	1	al and a second		
ine and Share		1938	1982	C.	X Charles	LANA
	© CORRES HERECONNE	1982	2024	enterproduction of	442	5 NAY
		1982 2024	2024 2308	essensians An	442	o dry
and hale		1982	2024	W.	442	5 dry

2785

2802

3017

2802

3017 3028

(over)

Berea

Shale

	On the second		
Formation Color Hard or Soft	Top Feet 2	Bottom Feet	Oil, Gas or Water * Remarks
Shale Brown Shale Shale	3028 4370 4700	4370 4700 5260	
Brown Shale Onondoga Oriskany Helderberg Dolomite and Anhydrite	5260 5806 5910 5926 6112	5806 5910 5926 6112 6394	* * * * * * * * * * * * * * * * * * *
Dolomite Newburg	6394 6574	6574 65 9 4	*
	6594	T.D.	L.T.D. 6657' D.T.D. 6660'
Cement Record			
Casing 16"	No. of sks.	-	Type Cement
9-5/8 ¹¹	400 sks. 100 sks.		Pozmix Class A, cement circ.
4-1/2**	175 sks.		Thixotropic
			5806 5910 6574 1120 1120 1120 4686 4790 5454
		-	
			in the first of the second of
	TO THE CONTRACT OF THE CONTRAC		
	TO THE COLUMN PROPERTY OF THE COLUMN PROPERTY		
	The second secon	70000000000000000000000000000000000000	i de la companya de La companya de la co

Date	Januarv	19.	1978



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OIL & GAS DIVISION DELTT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

	A 10 000 000 000 000 000 000 000 000 000	20					
	ARTMENT OF MINI	58,			a .	1 00	
	eston, W. Va. Shonk Land Cor	mpany		DATE	Appa	ember 20, lachian Exp	ploration &
Surface Owner_	Attn: Mr J Box 969, Char		2532/4			lopment, Ii	
Address							on, W.Va. 25322
	Same as above			Farm			Acres 16,000
Address	Same as above				(waters)	Cabin Cre	ek
Coal Owner	Same as above						Elevation 1120
Address	Same as above	•		District_	Cabin	Creek	County_Kanawha
Coal Operator	Bethlehem Min Attn: Mr. J. Box 4337	es F. Wildey		Quadrang	gle Eskd	ale (7.5'	Series)
	Charleston, W						
of the W. Va. Co	ng in accordance winde, the location is hing	ereby approved	TO	SPECTOR BE NOTI	IFIED	Martin	Nichols
	of commenced by		V 1313	RESS _		Clende	nin, W. Va.
Holestan	and the same of th	me perhamban en fajlikkelenkkan mengeli oge-		NE	548-69	93	
The undersim	and well appropriate	antitled to drill	upon the a	bove nam	ed farm or	tract of land f	or oil and gas, having fee
title thereto, (or Shonk	as the case may be	e) under grant o	or lease date	ed <u>Ap</u>	ril 28		by Donald C. h day of May
39 Ka	made to nawha		57	and	recorded o	n the	day of
19, in	Co	ounty, Book		Page _	<u> </u>		
							TURE OR STIMULATE
	L AND GAS WELL						
have been notific	ed as of the above da	ate.					owners and/or operators
							to make, or are required thin ten (10) days. *
or coal owners	s notice and the encle at their above shows he mailing or deliver	n respective add	ress		day	y <u> </u>	ove named coal operators before, or on the Virginia.
			Ve	ery truly ;	yours, _		C D1
	IT COPIES OF AL					exploration of the	& Development, I
GEOPHYSICAL	LOGS DIRECTLY	TO:	(3)	ign Name) I	7	Well Operator	<u> </u>
WEST VIRGIN	IA GEOLOGICAL A	ND		(Box 628		
ECONOMIC SUI			Address	-		Street	
P. O. BOX 8			of Well Operato	or	Charlest	on.	
		26505				City or Town	
AC-304 - 29	32-0331				West Vir	ginia 2532	22
						State	
notice and plat by the filing of such p	the department of min-	es, to said propose have been made by	d location, the	e departmei	nt shall forthy	vith issue to the v	ten days from the receipt of well operator a permit recitin and that the same is approve
B.					KA	N- 2796	PERMIT NUMBER
"I have read and	understand the reclan	nation requiremen	ts as set fort	th in		47-039	

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

PROPOSED WORK ORDER T	O X DRILL	DEEPEN FRACTURE-STIMULATE RESPONSIBLE AGENT:			
DRILLING CONTRACTOR: (If Known)				
NAME Union Drilling (Company, Inc.	NAME James R			
ADDRESS Drawer 40, Buc	The state of the s	ADDRESS Box 628, Charleston, W.Va. 25322			
			8355		
ESTIMATED DEPTH OF COM		ROTARY X	_ CABLE TOOLS		
PROPOSED GEOLOGICAL FO					
TYPE OF WELL: OIL	GAS X CO	OMBSTORAG	GE DISPOSAL		
	RECYCLIN	NG WATER F	LOODOTHER		
TENTATIVE CASING PROGRA	AM:				
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILE UP OR SACKS - CUBIC FT.		
20 - 16					
13 - XX	60 ¹	60'	circ.		
9 - 5/8	1500'	1500'	circ.		
8 - 5/8					
7					
5 ½					
4 ½	6480 °	6480	100 sks.		
3			Perf. Top		
Liners			Perf. Bottom		
			Perf. Top Perf. Bottom		
		and again	2 Cr., BORON 7.2		
OF PLAT. TO DRILL DEEPER OR REDR SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMIT TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL BOND, PERMANENT PLA OIL AND/OR GAS WELL ING ORIGINAL PERMIT N	ILL: S OF OG - 1, SHOWING ORIGINATED. ORIGINALLY DRILLED BEFORM AND ORIGINAL WELL RECORDINALLY DRILLED ON AN OUMBER, AND PERFORMANCE	NÅL PERMIT NUMBER A DPY OF THE PLAT AND REJUNE 5, 1929, FIVE (5 ORD. ID/OR AFTER JUNE 5, 19 BOND.	BOND AND PERMANENT COPY AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 929, FIVE COPIES OG - 1, SHOW- E. Inspector to be notified twenty-		
WAIVER: I the undersigned, A this lease have exam	gent for ined and place on our mine ma Coal Company h	Coal Company, Own ps this proposed well locative no objections to said	e issued within ten days of receipt er or Operator of the coal under ation. well being drilled at this location, dr. 7, Chapter 22 of the West Virginia		
	The state of the s		For Coal Company		
			Official Title		