

DEEP WELL Comment and

6.6 midway-Extra (278)

STATE OF WEST DEPARTMENT OF MINES, O

VIRGINIA	Date: -	7/1/85 , 19	
IL AND GAS DIVIS	ON Operator's		
	Well No.	TV- 97	

FORM IV-35 (Obverse)

[08-78]

mar 0.77	
エマーン!	

	WELL	OPERATOR'S	REPORT
08-78.		OF	

		DRILLIN	U, FRAC	TURING	AND/OR	STIMULAT	ING, OR PHISES.	-L UHANGE	9,	a wastay rate.
ELL TYPE:	011	/ Gas	<u> </u>	Liqui	ld Injec	tion	/ Waste Dis	oosal/		
							orace/		Shallaw_	, . ·
							Eighteen Mile			-
	District	: <u>B</u> u	ffalo		County	Putna	m Qua	drangle:	Winfield	7.5
TT OPERATO	r Teav	ee Oil	. & Gas	. Inc.		DI	ESIGNATED AGEN	T D. K.	Bowers	
Address	1901	Kan.	ASTITEA	Dank	D& ಚಿತ್ರ _ಅ					. Bldg.
71000	-									776.
		. =								
ERMITTED WO										aranniare <u>x</u>
							e new formation			RETA GI
	·Oth	er phy	sical c	hange 1	n well	(specify)				1111 1 0 1385

PERMIT ISSU						1	OIL & GAS INSP	ECTOR FOR TH	neon	GAS DIVISION F. OF MINE
IF APPLICA	HOUS PRO	GRESSI	ON FROM	DRILLI	NG OR		Name <u>C. FL.</u> Address _	Elkview	, WV	
	ING. VE				INED		Address _			
			, 19		ni ekan	17		Depth	4544	***
BEOLOGICAL	TARGET F	ORMATI	ON:	1: 1:77):	JI'I Shaii	t Rot	ary <u>X</u> / Ca	able Tools		
							1191 feet.			
							eing mined in	the area?	No.	
Coals	seam dept	ns:	<u>N/A</u> 7/29			no	and completed	8/3/78	2	, 13
Work (was comme	nced _	1/40,	, 10		19,	and completed	•		
CASING AND	TUBING H	PROGRAM	4							
CASING OR	dimension application	SPECI	FICATIO	NS		FOOTAGE	INTERVALS	CEMENT FILL		FA MEERS
TUBING TYP	E Size	Grade	Weight per ft	New U	sed For	drilling	Left in well	OR SACKS (Cubic fee	(t)	
Ganquetor	and the second s								Rinds	
Fresh wate	r 103/1	90				167	167	85		
Ccal								Bottom ho	Cines	
: Intermedia	te 7					2171	2171	Packer		
Production	31					. 7	4474	200		ic set
Tubing								pozmix		
liners									Perfo	orați ns:
										10 p
	And the state of t			 						
· ·			1						general	
OPEN FLOW	DATE									
		marion	, *	Brown	shal e			Pay zone d	lepth	3535 ::
Frod							Oil: Initia			
	m.	inal or	en flow	Paris	100	Mcf/d	Final	open flow,	N/A	Bb1/d
	L`.			4904	Mediatriconone provides (Constitution)		l and final te			
	Statio						e measurement)			nut in
F - A	applicab						·			
L-J	appireas	oe aue	ormation	n Ma	arcellu	s shale		Pay zone	depth	The second secon
Second Second	Gee: T	natta!	onen f	low as	ee abov	eMcf/d	Oil: Initia	al open flow	,	Bb1/d
,	uab. 1	inal c	nen flo	, <u>-</u>	4201	Mcf/d	Final	open flow,		Bb1/i
										ML 2.1 1965
	Static						e measurement			
	U Cat LC	LUCK P		-		-				

30-103

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

Perforated intervals: 3410-3445 5 shots, 3538-3574, 5 shots, 3670-3705 5 shots, 3772-3807 5 shots, 4430-4450, 5 shots.

Treated with Foam Frac. 80/100 15,000 lbs. , 20/40 30,000 lbs.

1000 gal. 15% HCI 530 MSCF N2

ELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and sas
Surface Sand and re Red rock Sand Slate Sand Slate Sand Slate Slate & She Sand Slate and Little lime Big lime Slate Big injun Slate Coffee shal Berea sand Slate & She Gray shale *Brown shal White slate	d rock		6.0 45 100 380 415 500 529 640 681 1169 1251 1290 1551 1780 1840 1905 2255 2289 2318 3000 3535 3928	45 100 380 415 500 529 640 681 1169 1251 1578 1780 1840 1905 2255 2289 2318 3000 3535 3928 4276	Freshwater (80) E-Log KS - 700 And 3900 - 3908 And 4050 - 430 And 4050 -
*Marcellus *Cornifero *Oriskany s Lime *INdicates	s lime		4276 4428 4544 4545	4428 4544 4545 4576	Gas Total depth

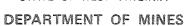
(Attach separate sheets to complete as necessary)

Teav	ee Oil & Gas Inc.	
Well	Operator	
Ву	Down Geologist	
Its	7/1/85	

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."







OIL & GAS DIVISION DEPT. OF MINES

Survey

47-079

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE 302 20, 1978
Surface Owner.	CompanyCompany
Address Electrical de Va	Address 19th Fl. Kanawha Valley Bld. Chas.
Mineral Owner NOVA CANADA AND AND CANADA	The state of the s
Address	Location (waters) 10 Mile Creek
Coal Owner.	
Address	
Coal Operator	
Address	-
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
All provisions being in accordance with Chapter 27, of the W. Va. Code, the location is hereby approved	INSPECTOR
for drilling The The Table 1	TO BE NOTIFIED Martin Nichols
for <u>drilling</u> . This permit shall expire if operations have not commenced by <u>11-25-78</u>	ADDRESS Clendenin, W.Va.
Deputy Director - Oil & Gas Division	PHONE 548-6993
GENTLEMEN:	
The undersigned well operator is entitled to drill und	on the above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or le	
	and the second s
and the second s	and recorded on the day of
· · · · · · · · · · · · · · · · · · ·	
NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRI	LLED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engine have been notified as of the above date.	neer or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are he to make by Section 3 of the Code, must be received by	reby notified that any objection they wish to make, or are required, or filed with the Department of Mines within ten (10) days. *
	ed by registered mail, or delivered to the above named coal operators
or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the	
PLEASE SUBMIT COPIES OF ALL	Very truly yours,
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Well Operator
VA. OIL & GAS CONSERVATION COMMISSION	Address Street
D VITACIBLICATORI CADEET TACA	of
ARLESTON, WEST VIRGINIA 25311	Operator City or Town
PRIESTON, MEST MINORINA 2001	West Virginia
	State
notice and plat by the department of mines, to said proposed loc	the Department of mines, within said period of ten days from the receipt of ration, the department shall forthwith issue to the well operator a permit reciting coal operators or found thereto by the department and that the same is approved
DIRLINIT DOM	PUT-908 DEDMIT MIMBED
DINITE I CETABOLICA DE LA CONTRACTOR DE	PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

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

PROPOS	ED WORK ORDER TO	DRILL	DEEPEN	FRACTURE-STIMULATE		
DRILLIN	G CONTRACTOR: (I	f Known)	RESPONSIBLE AGEN	T:		
NAME_1	Na Drilling Co.,					
	7 7 1 m	Ilanias, V. Va.				
TELEPHO)NE		TELEPHONE 342-2			
ESTIMAT	ED DEPTH OF COMP	PLETED WELL:	ROTARY CABLE TOOLS			
PROPOSE	D GEOLOGICAL FOR	RMATION: Ortony				
TYPE OF	WELL: OIL	GAS X	COMB STORAC	GE DISPOSAL		
		RECYCLI	NGWATER F	LOOD OTHER		
TENTATI	VE CASING PROGRA	M:				
CASI	ING AND TUBING	USED FOR	LEIT IN	CEMENT FILL UP		
edició de contrabació de contrabació de contrabació	SIZE	DRILLING	WELL	OR SACKS - CUBIC FT.		
20 - 16						
13 - 10	20 3/4	120	120	To surface		
9 - 5/8						
8 - 5/8						
7 5 ½			2353	100 sacks		
4.1/						
3		4550	445	Perf. Top 2 CROSS		
2				Perf. Bottom		
Liners				Perf. Top		
				Perf. Bottom		
-						
APPROXI	MATE FRESH WATE	R DEPTHS 40 FEET	SALT WATER	RFEET		
APPROXI	MATE COAL DEPTHS	Mone known				
				•		
			D1 W110111			
TO DRIL						
SUB	MIT FIVE (5) COPIES	S OF OG - 1, \$100.00 PERM	IT FEE, PERFORMANCE	BOND AND PERMANENT COPY		
OF	PLAT.					
TO DRIL	L DEEPER OR REDRI	LL:	•			
SUB	MIT FIVE (5) COPIES	OF OG - 1, SHOWING ORIG	INAL PERMIT NUMBER A	AND PERFORMANCE BOND. ON		
			OPY OF THE PLAT AND	THE ORIGINAL WELL RECORD		
MOS	ST ALSO BE SUBMITT	EU.				
TO FRAC	TURE - STIMULATE:					
OIL	AND/OR GAS WELL	ORIGINALLY DRILLED BEFO	RE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE		
		T AND ORIGINAL WELL RE				
OIL	AND/OR GAS WELL (DRIGINALLY DRILLED ON A	ND/OR AFTER JUNE 5, 19	929, FIVE COPIES OG - 1, SHOW-		
ING	ORIGINAL PERMIT N	UMBER, AND PERFORMANCE	BOND.			
Requ	uired forms must be fil	ed within ninety (90) days of	completion for bond release	e. Inspector to be notified twenty-		
four	(24) hours in advance.					
		•				
. m	6.13					
thereof.	following waiver must	be completed by the coal op-	erator if the permit is to b	e issued within ten days of receipt		
	T the maleurine 3 A	and the same				
WASTA STIFT.				er or Operator of the coal under		
		ned and place on our mine m				
				well being drilled at this location,		
		complied with all rules and reg	ulations in Articles 4, 5, and	d 7, Chapter 22 of the West Virginia		
	Code.			es.		
444.1			WARRANT TO THE RESIDENCE OF THE PROPERTY OF TH	For Coal Company		

Official Title