

4500' Bensonb- Elk Creek (155)





OIL & GAS CIVISION THE T. OF MINES

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STATE OF WEST VIRGINIA

Oil and Gas Division

WELL RECORDI

				Cable Recycling_	Gas x Comb
Permit No. BAR-922				Water Floo	dStorage
				Disposal	(Kind)
Company NRM Petroleum Corporati Address Box 190, Glenville, W. V	7a. 26351	Casing and Tubing	Used in Drilling	Left in Well	Cement till up Cu. fr. (Sks.)
Farm Burton A. Boy A Location (waters) Elk Creek	icres_gij	Size			
Well No. 2	lev. 1219 EKB	20-16		i	
District Elk County E	larbour	Cond.	eris e		
The surface of tract is owned in fee by		13-10"		1	
		9 5/8			
Address		8 5/8	740	740	180 sks. 12-15
Mineral rights are owned by		7			
Address		5 1/2			
Drilling Commenced 12-13-77 Drilling Completed 12-20-77	To the control and the control of th	4 1/2		4045	150 sks. 12-21
Drilling Completed 12-20-77	THE PERSON NAMED IN COLUMN TWO PROPERTY OF	3		4043	130 383. 12-21
Initial open flow Unk. HFW cu. ft.		2		 	
Final production 888M cu. ft. per day		Liners Used		 	
Well openhrs. before test_	UUIS.			 	
Well treatment details:		4			
		Attach copy of	cementing reco	ord.	
Benson frac wi 10,000# 8 Low. Riley frac wi 8,000	<u>0/100, 37,00</u>	0# 20/40 in	760 bbl. w	at.	
				0. 9742 - 0	
Coal was encountered at 306-315 Fresh water Fe Producing Sand Benson - Low. B	et	Cale 1	Inche	s ? ?	
	iley	Sart \	water <u>1 </u>	4006-11	Feet
	iley	Deptl	1 <u>3985-93.</u>	4006-11	<u>. 3761-3773</u>
Formation Color Hard or Soft	Top Feet	Deptl	1 <u>3985-93.</u>	4006-11 6 holes	Feet
Formation Color Hard or Soft	Top Feet	Bottom Feet	9 holes	4006-11 6 holes	3761-3773 13 holes
	Top Feet	Bottom Feet	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal	Top Feet O 210	Bottom Feet 210 301	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale	Top Feet 0 210 301	Bottom Feet 210 301 310	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale	Top Feet O 210	Bottom Feet 210 301	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale	Top Feet 0 210 301 310	Bottom Feet 210 301 310 515	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale	Top Feet 0 210 301 310 515 645 740	Bottom Feet 210 301 310 515 645	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale Shale Shale Shale Shale	Top Feet 0 210 301 310 515 645 740 982	Bottom Feet 210 301 310 515 645 740 982 1056	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale Sand & Shale Sand Shale Shale Shale Lime	Top Feet 0 210 301 310 515 645 740 982 1056	Depti Bottom Feet 210 301 310 515 645 740 982 1056 1074	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale Shale Lime Shale	Top Feet 0 210 301 310 515 645 740 982 1056 1074	Depti Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale Sand & Shale Sand Shale Shale Lime Shale Lime Shale Big Lime	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104	Depti Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale Sand & Shale Sand shale Shale Lime Shale Big Lime Injun	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180	Depti Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304	9 holes	4006-11 6 holes	3761-3773 13 holes
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Shale Lime Shale Big Lime Injun Shale	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304	Depth Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412	3985-93, 9 holes Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale Sand & Shale Sand shale Shale Lime Shale Big Lime Injun	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412	Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476	3985-93, 9 holes Oil, Gas or	4006-11 6 holes	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand & Shale Sand & Shale Sand & Shale Shale Lime Shale Big Lime Injun Shale Sand Gtz50'	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476	Depth Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898	3985-93, 9 holes Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sand shale Shale Lime Shale Lime Shale Injun Shale Sand Gtz50' Sand & Shale	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898	Depth Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918	3985-93, 9 holes Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Sand & Shale Sand & Shale Sand shale Shale Lime Shale Lime Shale Big Lime Injun Shale Sand Gtz50° Sand & Shale Fourth Sand Sand & Shale Fifth Sand	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476	Depth Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918 1992	Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Shale Shale Lime Shale Big Lime Injun Shale Sand Gtz50' Sand & Shale Fourth Sand Sand & Shale Fifth Sand Shale & Siltstone	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918	Depth Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918	Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Shale Shale Lime Shale Big Lime Injun Shale Sand Gtz50' Sand & Shale Fourth Sand Sand & Shale Fifth Sand Shale & Siltstone Shale	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918 1992 2034 2740	Depth Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918 1992 2034	Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Sandy shale Shale Lime Shale Lime Shale Big Lime Injun Shale Sand Gtz50' Sand & Shale Fourth Sand Sand & Shale Fifth Sand Shale & Siltstone Shale Riley	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918 1992 2034 2740 3626	Depti Bottom Feet 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918 1992 2034 2740	Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks
Formation Color Hard or Soft Shale & Sand Sand & Shale Coal Sand & Shale Shale Shale Sand & Shale Shale Shale Lime Shale Big Lime Injun Shale Sand Gtz50' Sand & Shale Fourth Sand Sand & Shale Fifth Sand Shale & Siltstone Shale	Top Feet 0 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918 1992 2034 2740	Depti 210 301 310 515 645 740 982 1056 1074 1104 1180 1304 1412 1476 1898 1918 1992 2034 2740 3626	Oil, Gas or	4006-11 6 holes Water	3761-3773 13 holes * Remarks

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Formation Color Hard or Soft	Top Feet (Bottom Feet	Oil, Gas or Water * Remarks
Benson Shale & Siltstone Total Depth	3968 4001	4001 4077	
No Final Open Fl	ow - Hole full	water.	
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	The state of the s		
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	definition to the		
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	Date	<u> </u>	Ja	nuary	0	. 19 78
APPROVE)	NRM	Petrole	um Cor	p.	Owner
	By_	Gene	Haney,	Cons.	Geol.	1 - 447 - 1 - 447 - 144 - 14
				(Title)		The second secon



STATE OF WEST VINGINIA



OIL & GAS DIVISION DEFT. OF MINES

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,			
Charleston, W. Va.	DATE	11.07 to 11.	
Surface Owner A. Roy, et al.	Company	46	
Address			
Mineral Owner			OU Acres 80
Address Rt. X Philippi	Location (water	***	V
Coal Owner James M. O'Neal	Well No.	.Hi-san	Elevation
Address			County
Coal Operator			
Address	wuaurangie	Ann age seems of	
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 INS	CDECTOD		To be
for drilling. This permit shall expire in TO		(ADPORT	appointed
operations have not commenced by 4-1-78 ADI			
ADI	DRESS (1666)		Same Conference of the second
Deputy Director - Oil & Gas Division PHO	ONE <u>EEE</u>		
GENTLEMEN:			
The undersigned well operator is entitled to drill upon the a	above named farm	or tract of land	for oil and gas having fee
title thereto, (or as the case may be) under grant or lease dat	ed	10	
made to	and records	ed on the	day of
19, in County, Book	Page	-	day or
**	<u> </u>		
NEW WELLDRILL DEEPER			CTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	BEFURE JUNE :), 1969.	
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land sur	veyor and all coa	al owners and/or operators
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	otified that any o	bjection they wish	h to make, or are required within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by re or coal owners at their above shown respective address		_ dav	before, or on the
same day with the mailing or delivery of this copy to the Depar	rument of Mines a	it Charleston, we	st virginia.
PLEASE SUBMIT COPIES OF ALL	ery truly yours,	(1).DN1	1)0
	'ign Name)	M. M.	PPMS
	100	Well Operate	5r ·
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address			
P. O. BOX 879 of		Street	
MORGANTOWN, WEST VIRGINIA 26505 Well Operato	or	City or Town	
AC-304 - 292-6331		t virginia	
		State	
*SECTION 3 If no objections are filed or found by the Dep notice and plat by the department of mines, to said proposed location, the filing of such plat, that no objections have been made by the coal operand the well operator authorized to proceed.	e department shall fo	orthwith issue to the	e well operator a permit reciting
BLARKET BOAD		BAR-922	PERMIT NUMBER
'I have read and understand the reclamation requirements as set fort Chapter 22, Article 4, Section 12/0 and will carry out the specified requirement	th in ents."	47-001	

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN	_ FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGE	NT:		
NAME		NAMENAME	L. Ichika		
ADDRESS		ADDRESS	Box 107-D Buckhangon, V.V.		
TELEPHONE		TELEPHONE 3044	72-2620		
ESTIMATED DEPTH OF COMPL	ETED WELL:	ROTARY	CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	MATION: MATION				
TYPE OF WELL: OIL_	GAS	COMB. STORA	GE DISPOSAL		
			CLOOD OTHER		
TENTATIVE CASING PROGRAM	1:				
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN	CEMENT FILL UP		
20 - 16			OR SACKS - CUBIC FT.		
13 - 10			<u> </u>		
7 - 5/8					
3 - 5/8	7/00	7/00			
			Camerat to our fore		
1/2					
• 1/2		4,543			
)			Perf. Top Perf. Bottom		
inore		The second secon	Perf. Top		
,			Perf. Bottom		
		3 3	Jen. Bottom		
MUST ALSO BE SUBMITTE: O FRACTURE - STIMULATE:	O 1929, A PERMANENT C D. RIGINALLY DRILLED BEFC	OPY OF THE PLAT ANI	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORI		
	IGINALLY DRILLED ON A	ND/OR AFTER JUNE 5. 1	929, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed four (24) hours in advance.	within ninety (90) days of	completion for bond releas	e. Inspector to be notified twenty-		
		\$ - \$			
The fall					
ereor,			e issued within ten days of receipt		
this lease have examine	d and place on our mine m	aps this proposed well loc			
We theproviding operator has co	Coal Company omplied with all rules and reg	have no objections to said ulations in Articles 4, 5, an	well being drilled at this location, d 7, Chapter 22 of the West Virginia		
			For Coal Company		
	· ·	the second secon	Official Title		