



DeepWell



STATE OF WEST VIRGINIA VDEPARTMENT OF MINES OIL AND GAS DIVISION $\mathring{/}$

Quadrangle Matewan

WELL RECORD

Oil or Gas Well

Permit No. MIN-568 Company Carnegie Natural Gas Company Left in Well Casing and Tubing Used in Packers Address 1015 Frick Building, Pittsburgh 19, Drilling Tract No 22h Farm United States Steel Corp. Size Location (waters)_ Kind of Packer_ Well No. · 26-1713 Elev. 1044.238 13-3/8" 151 151 Bottom Hole District Magnolia County Mingo Size of 7" x 8-5/8" 10-3/1111 15/18 154! The surface of tract is owned in fee by U. S. Steel Corp. Address Pittsburgh, Pa. 15331 15331 525 Wm.Penn Place 845/84 Mineral rights are owned by U. S. Steel, Corp., Depth set_21.381 2万381 21381 -6% 711 Address Pattsburgh, 525 Wm. Penn Place 5 3/16__ March 31, 1958 Perf. top___ Drilling commenced___ July 3, 1958 Perf. bottom_ Drilling completed_ Perf. top_ From. Liners Used_ Date Shot____ Perf. bottom_ With____ Open Flow 1,210ths Water in_ Inch __/10ths Merc. in_ CASING CEMENTED___ SIZE Inch Volume 110,000 - Blew down to 119,000 Cu. Ft. Rock Pressure 840 hrs. COAL WAS ENCOUNTERED AT 137 FEET 12 INCHES bbls., 1st 24 hrs. __FEET____INCHES____FEET____ _INCHES feet Fresh water___

Salt water		feet	feet	FEET	INC	HESFEI	TINCHES
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand		- constant and acceptant of the constant constitution of the constant of the c	0	99	Water	301	Hole Full
Slate			99	139			
Lime			139	170			
Slate			170	176			
Lime (Gri	ttar)		I76	1.87			
Goal			187	188			
Lime			188	2014			:
Slate			201	360			
Sand			360	396			
Slate		Water of the pro-	396	1,00			
Sand		.	<u>1</u> 00	654			
Slate			654	659			
Sand			659	750			
Slate			750	780			
Sand			780	813			
Slate			82.3	835			
Sand			835	860			
Slate			860	91,2			m
Sand			942	1372			
Slate			1372	1380 l			
Sand			1380	1428			
Slate			1128	1437			
Sand			1437	1170			
Lime			11.70	11.67			
Slate			11.87	1500			
Lime (Gri	liter)		1500	151,2			
Slate and			15l ₁ 2	0001		1	
Lime			1600	īŝio			
Red Rock			1810	1835			
Sand			1835	1850	Carrie	- GATTERS	
Slate			1850	1858		160000000000000000000000000000000000000	/
Lime			1858	1872		/b '	[723] ₁
Red Rock			1872	1910	1	OCT 1938	43
Lime			1910	1917	r.		
Sand		311	1917	1965			
Slate and	Shells	- Hard Charles	1935	1992	8	A CONTRACTOR	AN CY
Lime (Grit			<u> 1972</u>	2011	*	Exert of W	1 × 1
S late and			zóil I	2050		7 1 35 W W	4 . A
Sand Hagi		and the second s	2050	2138		1 × 2401.63	Jes .

Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pink Slat Lime Slate and Pink Snal Sand Gray Slate Pencil Ca Big Lime Injum Sand Gray Lime Slate and Lime Slate Shale (Lin Slate and	Shells Pre Shells Rey) Shells Shells Shells	Soft	2138 2150 2170 2210 2236 2278 2288 2305 2650 2735 2902 3050 3079 3097 3130 3225 3250 3266 4000 4320 4320 4344	2150 2170 2210 2236 2278 2288 2305 2650 2735 2902 3050 3079 3097 3130 3225 3250 3266 4000 4030 4320 4344 4402	Gas Gas Gas	2458-66° 2594-2625° 2637-47°	Show 112,000 Cu.Ft. Blew down 103,0 140,000 Cu.Ft. Blew down to 119,000 Cu.Ft.
Slate Shale Slate and Brown Shai	Shells		44,02 4550 4685 5000 5109	4550 4685 5000 5109		5109	
Service Service Service Service Service Service		Total Depth		5111:		4065	
更多的情報。 例如發展 可能可能。 一般知识可能。 一种的知识可能。 一种的知识可能。							
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		DateOctob	er 16	19 <u>58</u>
	of a service and the	A TOTAL OF CONTRACTOR AND		W-
	APPROVED_C	and remaining the following the contract of th	AL GAS COLP.	ANY Owner
	APPROVED_C	and the second of the following his property of the second		ANY Owner
		and remaining the following the contract of th		ANY , Owner Land Agent.

	דעדת	STON OF F	STAT	TE OF WEST	CTION OFF	CE OF OIL AN			
		<u> </u>	WELL WO	ORK PERMIT	CITON, OFFI	ON OS	9 568 Frac		
1)	Well Op	erator:		55		(5) 462			
2)	Operato	r's Well	Number: _U	.S.STEEL	#1713	3) El	evation: 1044.23		
4)	Well ty	pe: (a)	oil_/	or Ga	<u>x</u> /	Experied	08/06/97		
025		(b)	If Gas:	Productio	n_x/ Underg	round Storag Shallo	e/		
240	Propose	d Target	Formation	,		SHATIO			
	Proposed Target Formation(s): BIG LIME 395 Proposed Total Depth: 2693 feet								
	Approxi	mate fres	h water st	trata dep	ths: 30'				
<i>5</i> /	Approxi	mate salt	water de	eths:		11CB OF C	77/4/7/2>		
9)	Approxi	mate coal	seam dept	ths:	137°		1 & CC		
10)	Does la	nd contain	n coal sea	ams tribu	tary to act	ive mine? Yo	es_ <u>x</u> / No/		
11)	Proposed	d Well Wo			LIME (ACID F		CHIBAN		
12)									
	CASING AND TUBING PROGRAM								
TYPE		S	-						
IXPE		S	PECIFICATI	CONS	FOOTAGE I	NTERVALS	CEMENT		
TYPE		Size	PECIFICATI	CONS Weight	FOOTAGE I		CEMENT Fill-up (cu. ft.)		
	ıctor		PECIFICATI	CONS Weight	FOOTAGE I	NTERVALS Left in	Fill-up		
Condu	ictor 1 Water	Size	PECIFICATI	CONS Weight	FOOTAGE I	MTERVALS Left in well	Fill-up		
Condu		Size	PECIFICATI	CONS Weight	FOOTAGE I	Left in well	Fill-up		
Condu Fresh		Size 13 3/8" 10 3/4"	PECIFICATI	CONS Weight	FOOTAGE I	Left in well	Fill-up		
Condu Fresh Coal	n Water	Size 13 3/8" 10 3/4"	PECIFICATI	CONS Weight	FOOTAGE I	Left in well	Fill-up		
Condu Fresh Coal	mediate	Size 13 3/8" 10 3/4" 8 5/8"	PECIFICATI	Weight per ft.	FOOTAGE I	Left in well 15' 154'	Fill-up		
Condu Fresh Coal Inter	mediate	Size 13 3/8" 10 3/4" 8 5/8"	PECIFICAT: Grade	Weight per ft.	FOOTAGE I	Left in well 15' 154'	Fill-up		
Condu Fresh Coal Inter Produ Tubin	mediate	Size 13 3/8" 10 3/4" 8 5/8" 7" Alliux Hd ad B	PECIFICAT: Grade	Weight per ft.	FOOTAGE I	Left in well 15' 154'	Fill-up		
Condu Fresh Coal Inter Produ Tubin	mediate action ag ERS: Kin Siz Dep	Size 13 3/8" 10 3/4" 8 5/8" 7" Fulling d B es 7 ths set	Grade 2859 G. COTTOM HOLE "X 8 5/8" 2438'	Weight per ft.	FOOTAGE I	Left in well 15' 154' 2438'	Fill-up		
Condu Fresh Coal Inter Produ Tubin	mediate iction ig ERS: Kin Siz Der	Size 13 3/8" 10 3/4" 8 5/8" 7" Aulium ad Bes 7 oths set	Grade 2859 'q	Weight per ft.	FOOTAGE I For drilling	Left in well 15' 154' 2438'	Fill-up (cu. ft.) Charles Applicable 3856811		
Condu Fresh Coal Inter Produ Tubin Liner	mediate ction g RS: Kin Siz Der	Size 13 3/8" 10 3/4" 8 5/8" 7" Alling d B es 7 ths set	Grade 2859 'q	of Oil a	FOOTAGE I For drilling and Gas Use Rec	Left in well 15' 154' 2438'	Fill-up (cu. ft.) Charles Applicable 3856811		

Page 1 of	
Form WW2-A	•
(6/94)	
File Copy	

•	Date: JULY 14, 1997	
2)	Operator's well number	
	U.S.STEEL #1713	
3)	API Well No: 47 - 059 - 0568 -	
	State County Permit	

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be se	erved: 5)(a)(Coal Oper	ator:	5802-2274	1997
	(a) Name JOHN STEELE Address RT 1 BOX 43 MEADOR, WV (b) Name Address		Name	MIN, INC.	- Of 1/1/2	多 クー
	MEADOR WAY	25682	Address _	P. O. BOX 22/4	5000 0074	, o
	(h) Name	2002	/b) Cool C	BECKLEY, WV 2	5802-2274	<u> </u>
	Address	_	(D) Coal X	XXXXXXXXXXXXXXXXXX	WARKANIOKK OPERA	カヘガで・
	Address (c) Name Address		Addross	ENERGY MOUNTAI	N COAL	Monthead
	(c) Name		Address _	P. O. BOX 343	25602	-
	Address		Name	RED JACKET, WV	25692 TANDS	-
	Address		Address	MOUNTAIN GEM	LANDS	Winners .
			Address _	1000 WHARNCLI	THE DRIVE	-
6)	Inspector OFIE HELMICK Address P. O. BOX 387 BRENTON, WV		(a) Coall	WHARNCLIFFE,	WV 25651	
9)	Address B 0 BOY 307		(C) Coar L	essee with Decia	aration	
	Address <u>P. O. BOX 387</u>	14010 0200	Name			
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_
	Telephone (304)- 732-91.	55 543-0764				******
	TO THE PER	SON(S) NAME	ED ABOV	E TAKE NOTICE	THAT:	
	Included is the lease or le	ases or other	continuin	a contract or as		
right to	o extract oil and gas <u>OR</u>	ases of other	COLIGINA	g contract of co	fill acts by which	i i noid the
X	Included is the information	required by C	hanter 22	Article & Section	n 0/d\ af tha Ca	٠ - ١٨١ ع - د د
Virgin	ia (see page 2)	required by C	ilaptel 22,	Alticle 0, Section	in o(u) of the Co	ae or vvest
*9	I certify that as required u	nder Chanter	22 of the 1	Most Virginia Ca	ada I baya aasia	al a a a :
this n	otice and application, a loc	ration plat and	d accomp	enving documen	ide i nave serve	a copies of
the at	oove named parties, by:	sation plat, and	a accomp	arrying documen	is pages i throt	no ngr
., IQ QL	Personal Service (A	Affidavit attach	ad)			
	x Certified Mail (Post	marked sected	eu)	icahad\		
	Publication (Notice	of Publication	receipt at	(ached)		
	Fublication (Notice	or Publication	attached)			
	I have read and understa	nd Chapter 22	2-6 and 38	- 3 CSR 11 ₋ 18 an	nd I garee to the	torms and
condit	tions of any permit issued u	inder this appli	o and oc	2 COR 11-10, an	id i agree to tre	terms and
	I certify under penalty o	f law that I h	cation. ave nere	nally evamined	and am famili	or with that
inform	nation submitted on this ap	nlication form	and all at	cachmonte and t	and ann lanning	ar with the
those	individuals immediately res	snonsible for a	and an ad htairing th	acimients, and t	haliava that the	y inquiry of
is true	e, accurate, and complete.	pportaible for o	bian mig ii	ie iliioimation, i	believe that the	mormation
	I am aware that there are	s significant no	naltice for	r aubmilling fala	o information in	-1
nossih	pility of fine and imprisonme	ont	naines iui	submitting raise	a information, in	cluaing the
P 0001.2			c CAPNECT	E NATURAL GAS C	YNGAMY	
			CARRIEGI	// 32 30	OH AN	
		By: Its:	MANACER	OF PRODUCTION		
			P. O. B			
		Address				
		Talanhana		TON, WV 26582	······································	
Subsc	ribed and sworn before me	Telephone	304-986-		1007	
Jubsc	inded and sworn before the	day	Of	JULY	, 19 <u>97</u>	
	•		9 1		Makana Mata	: _
My co	mmission expires	OCHOBER	3 / <i>Day</i> 26, 2001	se jones	Notary Publ	IC
, 00		OCTOBER	20, 2041			

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

FARM NA	ME Ste	ele, John		OPERATOR	WELL NO.	U.S. Steel	1/13			
LOCATIO	N: ELI	EVATION	1,044.23	QUADRANG	LE Majestic					
DISTRICI LATITUDI	E: 111	Magnolia COUNTY Mingo 11120 Feet South of 37 Deg. 37 Min. 30 Sec.								
LONGITU	D:E 941	0 Feet Wes	t of 82 Deg. 0	Min. 0 Sec.						
COMPAN	Y:	,	CARNEGIE NA 800 REGIS AV PITTSBURGH		CASING/ TUBING SIZE	USED IN	LEFT IN	CEMENT FILL UP CU. FT.		
AGENT:					7466		U W San Am Am			
			DOUGLAS R. NAY		No.	Additional Pi	pe Left In	Well		
INSPECTOR: PERMIT ISSUED:			Ofie Helmick 8/6/97							
	ORK COMM	ENCED:	8/28/97		-	Refer to Orig	inal Repor	t		
WELL WO	ORK COMPI	ETED:	9/24/97							
	PLUGGING SION GRAN	TED ON:								
ROTARY		CABLE		[G	4					
	EPTH (FEET 'ATER DEP'	-	2690′		<u> </u>	140 AZ	1			
I I TENERA		1119 (11)			Fr	1 day				
SALT WA	TER DEPTH	IS (FT):				100				
	BEING MIN PTHS (FT):		EA (Y/N)		Office of	mitting Cij & Gao				
OPEN FLO	OW DATA									
	ING FORM		Big Liı	me - MCF/d	PAY ZONE DEPTH (FT) 2305-2650′ DIL INITIAL OPEN FLOW Bbl/c					
	INAL OPEN		(MCFD/d	FINAL OPEN FLOW Bbl/c					
-				TIAL AND FINA				HOURS		
STATIC R	ROCK PRES	SURE	50 psi	g (SUR	FACE PRESSU	•	16	_ HOURS		
	PRODUCIN		TION	D. p. 40 cm 5 2		ONE DEPTH (71.1/3		
-	NITIAL OPI INAL OPEN		***************************************	MCF/d MCF/d	OIL INITIAL OPEN FI FINAL OPEN FLO		Α	Bbl/d Bbl/d		
			BETWEEN IN	MCF/G ITIAL AND FINA		OPEIA LEOVA	***************************************	HOURS		
	ROCK PRES		psi		FACE PRESSU	JRE) AFTER		HOURS		
PHYSICAL	CHANGE, ET	C. 2) THE V	THE FOLLOWIN WELL LOG WHIG THE WELLBORE	G: 1) DETAILS OF CH IS A SYSTEMAT	PERFORATED II IC DETAILED GI	NTERVALS, FRAC EOLOGICAL REC	TURING OR S ORD OF ALL	STIMULATING, FORMATIONS,		
				FOR:	CARNEGI	E NATURAL G	SAS COMPA	NY		
				BY:	Doug lan	R. Flau	4	·		

Ran 2600' of 4 1/2" casing with 4 1/2" x 7" tension packer on bottom.

Treated Big Lime with 2500 gal. 15% HCL @ 4 BPM Rate.

Well went on vacuum.

Flowed well back, pulled 4 1/2" casing and packer. Cleaned well out to T.D., 2690'