

COMO DESPUSEISO

320/806

Manbar (27)

K-E 156 IMPERIAL TRACING CLOTH T.M

. 2

3



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION /5

Quadrangle Logan 9 SW

Well No. 7 - GW-1336

District Logan

815 Trans. Bldg.

Drilling commenced...

Drilling completed__

With...

Open Flow

Rock Pressure_

Date Shot not shot

Company Columbian Carbon Company

Location (waters) Miller Branch

Address Box 873, Charleston 23, W. Va.

____County_

Mineral rights are owned by Cole & Crane R/E Trust

4-5-61

6-7-61

From

/10ths Water in_

4, 981, 000

The surface of tract is owned in fee by Alus Steele

Farm Cole & Crane R/E Trust Acres 12, 096.64

Permit No. Log-790

WELL RECORD

Elev. 1415. 671

Inch

_Cu. Ft.

Lbbls., 1st 24 hrs.

Logan

__Address_Switzer, W. Va.

Address Cincinnati, Ohio

7" 23#

Oil or Gas Well Gas Casing and Tubing Used in Drilling Left in Well Packers Size 16 11 64# 161 161 Kind of Packer. ₁₃3/8''48# 761811 6081211 Anchor Size of 13-3/8" 103/4"36# 801110" 801110" 81/4 11 24# 20791811 20791811 жж<u>, 7'' 23# 2714¹7''</u> 27141711 Depth set. 5 3/16___ Perf. top. Perf. bottom. Liners Used_ Perf. top_

				W. M. W.			
			SIZE				Date
COAL W	AS EN	COUNT	ERED AT_	35	_FEET_	36	_INCHES
223		•	_INCHES_		~ .		_INCHES
	FEET		INCHES		ਸ਼ਾਵਾ ਦ ਾ		INCUES

Perf. bottom_

WELL FRACTURED not-fractured

720

WELL ACIDIZED not acidized

RESULT AFTER TREATMENT_

ROCK PRESSURE AFTER TREATMENT. Fresh Water 35-38 310 615

_Feet		Salt Water8	30' 2438'	Feet	
d or	Тор	Bottom	Oil, Gas or Water	Depth	Remarks

Fresh Water 22		VIJ Feet		Dail Water_	30 2430	Feet	
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Gravel	пославля была посло со чашення надачня на нечення на надачня на надачня на надачня на надачня на надачня на на		0	12			uni partine a que el distre e en a comita de materia e porte de mesta e en a como el meno en en antecida de materia e torna de el materia de la comita e en actual de la comita en actual de la comita en actual de la comita e en actual de la comita en ac
Sand			12	35	Adva - Lenda	Maria (and	1 and 9 and 9
Coal			35	38	F. water	35-381	hole full
Sand .	an and and and any of the face of the face of	ern arm arm une com une son que con con	38	85		•	
Slate and She	lls	:	85	129			
Sand			129	223	Bureau to tak	lary congress	Ç
Coal	: - :	:	223	225			
Slate and She	lls		225	238	1	- 1	
Sand			238	368	F. water	3101	hole full
Coal			368	370			
Slate	errik di		370	396	• 5	.	The state of the s
Sand			396	506		:	
Slate		,	506	525			
Sand			525	567			
Open Mine		-	567	575			
Sand		1	5 75	585	वैकारका भारता है। जनसङ्ख्या	· 会区,5000年	
Slate and She	lls		585	605			
Sand			605	712	F. water	615	hole full
Slate and She	11s		712	750			
Sand			750	765	7721DLM=7	74'SLM	
Slate and She	lls		765	830	S. water	8301	2-10" blr/hr.
Sand	ang Personality		830	890	4		
Slate			890	916			
Sand	i sara di ka		916	990	1 , 5	A STATE OF THE STA	×
Slate and She		1	990	1199		10000	
Sand		A SECTION OF THE SECT	1199	1258			and the second second second
Slate and She	lls	(2) [1] (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1258	1289	01 (62 mg/ 3 1 (64 mg/ 62 mg/ 3		galastat.

For mation	Color	Hard or Soft	Top /5	Bottom	Oil, Gas or Water	Depth Found	Remarks
gand			1289	1350			
Slate and Sl	ells	Section .	1350	1371			
Sang			1371	1505			
State and St	hells		1505	1550 1587			:
Sand Slate and Sl	o11 g		1550 1587	1657		Parti Parting	
Sand	rerra		1657	1852			
Slate			1852	1877	gy in Waster San	e Johann Mariy	e de 1 de 1 de 1
Sand			1877	2020			
Lime			2020	2067	2064 SLM=2	049'DLM	
Slate and Sl	1		20.67	2140			
Maxon Sand	1		2140 2212	2212 2232			
Slate and Sl Red Rock	rerra		2232	2290		. · 0 .	
Slate and Sl	hells	E. T.	2290	2389			
Maxon Sand	1	STATE OF THE STATE	2389	2436			
Slate and Sl	ells		2436	2500	S. water	24381	1-8"blr/hr.
Red Rock			2500	2518	Services		
Big Lime			2518	2532	2695'DLM=	2/05/51 1/	
Sand			2532 2600	2600 2843	4042.DTW=	7042.9TIM	ille of the second seco
Big Lime			2000	2043	Gas Pays:		
	-					W. 7" 23#	4,050MCF
Total Depth				28431		м. 7" 23# :	
	a ₂ , 113	arth gill Geografia	*	Page makka			
CASING RE	CORD		and the second of the second o				over the second of
A 10 61	Don 12	-β/8" casing	a+ 6051DI.M	D.11ed 53	16" - 1e# in	761811	
4-13-61	Ran 13.	-D/o casing	at our Dim	l uniou ss.			
4-16-61	Ran 10.	-3/4" casing	at 772 DLM	774 SLM w	th shoe. Pu	mped in 125	sacks
	cement	. Ran 10 bag	s Aquagel a	d 125 more	sacks ceme	nt with 5 ba	gs Gel Flake.
							T
5-15-61		5/8" casing a	# 2064.2FW	2049 DLM-	Gerred with	12 Sacks. C	rremanon
,	and ret	urns.	Approximation and the second s				
5-30-61	Ran 7''	casing at 26	95'DLM=269	5'SLM with	shoe. Aquag	elled with 8	sacks,
		ition and reti					
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	-			Miller Francisco			
TO THE PROPERTY OF THE PROPERT	and the second s	1	<u></u>		F. 11-12	F)

Date July 18 , 19 61

APPROVED Columbian Carbon Company , Owner

By W. S. Moore, Mgr. of Prod. (Title)

Quadrangle Log-9 SW

Permit No. LOG-790-DD



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

PRILITED DEEPER

WELL RECORD

Rotary	
Spudder	X
Cable Tools	
Storage	\Box

Oil or Gas Well Gas

ompany Citi	es Service	Oil Compai ston, W. Va.	25323	Casing and Tubing	Used in Drilling	Left in Well	Packers
oddress Liux o.	Trane R/E	Trust	12,096	Size			
ocation (waters)				16			Kind of Packer
		The second of th	Flau1427. 281	13			
District Logan	graving a resignation can be a second and the consequence of	County Lo	gan	A TOP CO. O. O	additional		Size of
		by Alus Stee		81/4 65/6 run	when deep		Depth set
a pagasang ang ang ang ang ang ang ang ang ang		dress Switzer.	/r T	4		- 1	Dopul sol.
		& Crane R		3 3/10.	1 . 1	1	The state of the s
		idress. Cincinn					Perf. top.
				2			Perf. bottom
		6.7		Liners Used		-	Perf. top
							₹
		4			cementing record		
7		in					No. Ft. Date
		in					ivo. Pt.
							FEET INCHES
			bbls., 1st 24 hrs.				FEET INCHES
							FEET INCHES
							The state of the s
WELL FRACTUR)}		e a deservición de la composición del composición de la composició			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Coast Water		Fast		Salt Water		Feet	
	- with the common transfer and						
Formation	Color	Hard or Saft		Bottom	Oil, Gas or Water	Depth	erzonaturatzatza dispolarioa (elegization) en alta elegizate eta propio en alta elegizate (elegizate eta elegizate eta elegizatea
Portragion	Color	Figure or Society and the Control of	ggerigister die deutsche Ausgewicke der deutsche gelande voller seinlicht zu gewicht in der deutsche deutsche d Gebeutschen von zuren d. Europe voll deutsche deutsche deutsche deutsche deutsche deutsche deutsche deutsche d	Bottom	Oil, Gas or Water		erzonaturatzatza dispolarioa (elegization) en alta elegizate eta propio en alta elegizate (elegizate eta elegizate eta elegizatea
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Formation Drilled dee Old Total d Big Lime Drilled dee Big Lime Big Injun Drilled dee Acidised B	Color per recor epth per recor per total c	Hard or Soft i (fished out	Top tools in hol 2600 2843 2845	Bottom e and deepe 2843' 2845 2880 2880'	Oll, Gas or Water ned)	Depth	Restants and a second control of the second
Formation Drilled dee Old Total d Big Lime Drilled dee Big Lime Big Injun Drilled dee Acidised B	Color per recor epth per recor per total c	Hard or Soft I (fished out 1 - 67	Top tools in hol 2600 2843 2845	Bottom e and deepe 2843' 2845 2880 2880'	Oll, Gas or Water ned)	Depth Flushed w	erzonaturatzatza dispolarioa (elegistro de la companya de la propiesto de la companya de la companya de la comp Considerario en considerario (elegistro de la companya de la companya de la companya de la companya de la comp Considerario en considerario (elegistro de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya del compa
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Formation Drilled dee Old Total d Big Lime Drilled dee Big Lime Big Injun Drilled dee Acidised B Acidised B Before acid	Color per recor epth per recor per total of the second	Hard or Soft I (fished out depth 1-67 Ith 2,000 gagauged 146	Top tools in hol 2600 2843 2845	Bottom e and deepe 2843' 2845 2880 2880' id. Well on after acid	Oll, Gas or Water ned)	Depth Flushed w	Remarks ith 38 bbls. flush. Co. Operator
Formation Drilled dee Old Total d Big Lime Drilled dee Big Lime Big Injun Drilled dee Acidised B Acidised B Before acid	Color per recor epth per recor per total of the second	Hard or Soft I (fished out depth 1-67 Ith 2,000 gagauged 146	Top tools in hol 2600 2843 2845	Bottom e and deepe 2843' 2845 2880 2880'	Oll, Gas or Water ned)	Depth Flushed w	Remarks
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Formation Drilled dee Old Total d Big Lime Drilled dee Big Lime Big Injun Drilled dee Acidised B Acidised B Before acid	Color per recor epth per recor per total of the second	Hard or Soft I (fished out depth 1-67 Ith 2,000 gagauged 146	Top tools in hol 2600 2843 2845	Bottom e and deepe 2843' 2845 2880 2880' id. Well on after acid	Oll, Gas or Water ned) vacuum. izing 377 h	Depth Flushed w	Remarks ith 38 bbls. flush. Co. Operator

JD - 25



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of Mest Airginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date	Fe	brı	ıar	7 26	1988
Oper	ator	's			
Well	No.	A-	-7,	GW-13:	36
Farm	Col	.e a	and	Crane	Trust
API	No.	47	-done	045	- 0790-DD

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1427.28 Watershed Mi	ller Branc	ch		
District: Logan County Logar			Logan	
Company of the Compan		•		
COMPANY Cities Service Oil and Gas Corporation				
ADDRESS P. O. Box 873, Charleston, WV 25323	Casing	Used in	Left	Cement
DESIGNATED AGENT Paul D. Phillips	Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS P. O. Box 873, Charleston, W 25323	Size			
SURFACE OWNER Mary Chaffin Heirs: Mr. John	20-16			
ADDRESS Box 2195, Huntington, W 25701 Chaffin	Cond.	608	77	
WINERAL RIGHTS OWNER Cole & Crane Trust, Mr.	10-3/4"	801	801	250 sx cmt
Bill Stark ADDRESS 215 Fredrick Bldg., Huntington, W 25701	8 5/8	2080	2080	
OIL AND GAS INSPECTOR FOR THIS WORK Arthur	7	2715	2715	
St. Clair ADDRESS P.O. Box 468, Brenton, W	5 1/2	2/13	2/13	
PERMIT ISSUED 2-19-87	4 1/2 *	5431	5431	TOC @ 2050
DEEPENING COMMENCED 19-29-87	3	2431	J 1 J 1	
DEEPENING COMPLETED 10-31-87	2		·	
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN				
GEOLOGICAL TARGET FORMATION Devonian Shale/Bere		IEW TUBULAF De p		5415 fee t
Depth of completed well 5443 feet F				
Water strata depth: Fresh None feet;				
Coal seam depths: None				area? No
ODEN ET OU DAMA		,		
OPEN FLOW DATA Producing formation Devonian Shale/Berea/We	ir Day	r zone den	th 2967-5	327 fee t
Gas: Initial open flow Mcf/d				
Final open flow (189) Mcf/d				
Time of open flow between init				
Static rock pressure 300 psig(surface				
(If applicable due to multiple completion		,		
Second producing formation		y zone dep	th	fee
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between init	ial and f	inal tests	h	jugs
Static rock pressurepsig(surface				

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

Devonian Shale 5327-5085 Frac'd w/ 50,000# 20/40 sd, 646 MSCF N2, TL&T 195, 50 BPM Foam Devonian Shale 4802-4499 Frac'd w/ 75,000# 20/40 sd, 1137 MSCF N2, TL&T 190, 60 BPM Foam Devonian Shale 4296-3601 Frac'd w/ 75,000# 20/40 sd, 912 MSCF N2, TL&T 192, 80 BPM Foam Berea 3462-70 Frac'd w/ 75,000# 20/40 sd, 390 MSCF N2, TL&T 218, 20 BPM Foam Weir 2967-74 Frac'd w/ 75,000# 20/40 sd, 285 MSCF N2, TL&T 218, 20 BPM Foam



IDIVISION OF OIL & GXS IDEPARTMENT OF FENERSY

WELL LOG

FORMATION COLOR HARD OR SOL	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Big Lime Weir Sunbury Shale Berea Devonian Shale Onondaga	2846 3105 3430 3470 5415	2846 3105 3430 3470 5415 5443	
			5443- new to 2880-01d TD 2563-new ftg

(Attach separate sheets as necessary)

Cities Service Oil and Gas Corporation

Well Operator

By: Vand O. Plettin Operations Manager

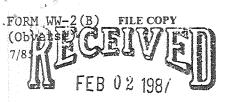
Date: February 26, 1988

Note: Regulation 2.02(i) provides as follows:

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



File





2)	Operator's Well NoC	o1e	Crane	Trust	"A" #7
3)	API Well No.	4 ***		045	790 -DD
-,		State	(County	Permit

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

							· · · · · · · · · · · · · · · · · · ·		
4) WELL TY	PE: A O	il	/ Ga	s	<u>/</u>				
	B (I:	f ''Gas'', I	Production	1	-X	/ Underground	storage	/ Deep	_/ Shallow <u>X</u> /)
5) LOCATIO	N: Ele	vation:	1427.2	8)		Miller Bra	nch 5Quadrangle:]	Logan 44/5
	D1S	trict:	Logan_		$\bigcup_{i=1}^{n} C_{i} C_{i}$	E County.	TOGAL O'	ACENT David 1	D. Phillips
	ERATOR L	ities	Servi	ce U	TT ONT	9800	Address	D O D 07	3
Address			x 873			7000	Address	Charleston, I	
			on, WV		23		9) DRILLING C	-	W. M. Jandel Mark
8) OIL & GA				TED			,	t available	
	erry Ho	Lcomb			20			<u> avarrante</u>	
Addres			oute 1 WV 25				Address		
10) PROPOSI	ED WELL	WORK:	Drill		_/ Dril	l deeper <u>X</u>	/ Redrill	/ Stimulate	<u>X</u> /
			_				rate new formation		
			Other p	hysical	change i	in well (specify)	And the fi		
11) GEOLOG	ICAL TAR	GET FOR	MATION	,	<u>Jevon</u>	rair bligge			
12) Estim	ated depth (of complet	ed well,		5450_	fee		_	
13) Appre	oximate trat	a depths:	Fresh, 3	5, 3	10,6	15 feet; sa	t, 830, 2438	feet.	
				, 22	3,_36	8ls c	oal being mined in th	e area? Yes	/ NoX
15) CASING	and tubi	NG PRO	GRAM						
CASING OR	II.	SPEC	IFICATION	5		FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Lest in well	(Cubic feet)	
Conductor	133/8		40			60812"	76'8"		Kinds Anchor
Fresh water	10 3/4		32			801'10"	801'10"	250 sxs cmt	
Coal	8 5/8	ı	24			2079'8"	2079'8"		Sizes 13-3/8"
Intermediate	7		23			2714'7"	2714 7"		
Production	4 1/2	M OO	11.6	1		5450	5450	5405KS 0	Depths set 525
	11	ł	4.6	1	1	5450	5450	AS REQUIRED	
Tubing	2 3/8	J=33_	1 4.0	 	1	#J4JU	J+30	1/2244	Perforations: N/A
Line.s	-		1						Top Bottom
			 	1	1		N		
	-		-	 	 				
		<u> </u>	1	<u> </u>	1	Щ			<u>U</u>
									•
<u> </u>						OFFICE USE	ONLY		
						DRILLING P	ERMIT		,
		7-045	-0790-	מח				February 1	19
Permit number							·	Da	
This permit cov	ering the w	ell operat	or and we	ll locati	on show	n below is evidence	e of permission gran	ted to drin in accordan	nce with the pertinent lega
quirements sub	ject to the c	onamons	comameu ade locati	ane and	anu on i Inits for	any permitted wor	In addition, the	well operator or his cor	and Gas Inspector, (Refe stractor shall notify the pr
district oil and	gas inspect	or 24 hour	rs before a	ctual p	ermitted	work has commen	ced.)		the state of
								to any modifications a	and conditions specified or
reverse hereof.						, ,		•	
Permit expires	F	ebruar	y 19,	1989)	unless w	ell work is commence	ed prior to that date and	l prosecuted with due dilige
Bond:	Agent	: :	Plat:	Cag	/ -	Fee WPQ		Other	1
		Businessa	100		\ :	2206/	1100	call!	
				1		171			
			•			. / .		1 that	%
NOTE: Keep	one convio	f this nerr	nit posted	at the	drilling l	ocation.	Director And	vision of Oil	and Gas
		Parr			<u> </u>		ككوا خورنات كالمتاب	.vaccacus os cas	allu Gas