





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISIO: DEPT. OF MINEE Oil and Gas Division

WELL RECORDS

Quadrangle West Union Permit No. 47-017-2692

Company Cities Service Company

Oil
Gas
Comb.
Storage
(Kind)

Address Sox 873 Chericaton, W 25323 Tobing Drilling in Well Cu fi. (St.) Form Levis Maxwell te ux Acres 2654 Tobing Drilling in Well Cu fi. (St.) Location (water) Arnolds Creek Size 20-16 Size 20-16 Well No 72 765 GW-1830 Elev 1069 20-16 Size 20-16 Destrict West Union County Doddridge Cond. 2578 Size 20-16 Size Size 20-16 Size Si	U 0 77 V		vice Compa		Casing and	Used in	Left	Cement fill up
March Amolds Creek Size Size Well No. "A" " #66, CW-1830 Elev.1060" 20-16 Cand. Size	7 OT-17 C				Tubing	Drilling	in Well	
Well No. "A" #66, CW-1830 Elev_1060" 20-16 Cond. District Nest Union County boddridge Cond.				_ Acres			+	1
District West Union County Doddridge Cond.	Location (waters)	6 017	7020	10601			out and the second	
The surface of tract is owned in fee by Mrs. Exercist Markers 95/8 80 80 80 80 80 80 80	Well No. A 70	Infon	-100V	Doddridge		'		
Haxxes 1			· -					
Agdress Meast Union, WV 26456 8 5/8 1885.35			ned in fee by	Mrs.Everett		80	+ 80 -	surface (40 sx)
Mineral rights are owned by Robert L. Holland, Agent 7	Mect II	CONTRACTOR STATEMENT OF THE PROPERTY OF THE PR	WV 26456			1885 35	1225 35	1 curface (425 cm
Address Box 425, West Union, WV 5 1/2 5201 5201 662.2 cu. ft.	~ 6 6 6 6 9 2 management	* MICHAEL CONTRACTOR C	ekidenaan uppkastani astao kaasta tarista kan sa	**************************************		1003.33	1007.7	Sullace (42) SX
Drilling Commenced \$2.7=80 26456 4 1/2 5201 5201 5201 662.2 cu. ft.					O.S.C		+	4
Drilling Completed 10-15-80 3 (430 sx)			26		3 1/2	5201	5201	662 2 00 50
Drumage Competered 107-107-100	-		(7201	1201	•
Final production		^			3		 	-
Well open 4 hrs. before test 900 RP. Well treatment details: Attach copy of cementing record. Broke down Weir perfs at 2450# with 2000 gal. mud acid containing 45 perf balls. Balled out Opened well and flowed back 20 BLW. Nan baller to knock out perf balls. Pumped 80 bbl. gg1 and 45 MCV NZ p2d. Ffaced Weir with Dowell nitrogen energized crosslinked frac system containing 30000# 80/100 sand and 60000# 20/40 sand with 250 cu. ft./bbl. N2. Blender paddles locked up twice, 10 bbl. of gel run without sand. Max. TP 2700#, Nin. TP 2200#, Avg. TP 2250#, Final TP 2250#, ISIP 1700#, 5 min. SIP 1600#, 10 Min. SIP 1550# 15 Min. SIP 1500# Cal was encountered at none Feet Inches (Continued on back) Fresh water 219: Feet Salt Water None Feet Producing Sand Alexander Depth 105-5134* Formation Color Hard or Soft Top Feet Bottom Feet Oil, Gas or Water Remarks Shale 0 10 30 Sand 10 30 35 Shale 35 50 Sand 50 110 RR 110 135 Sand 125 175 RR Shale 175 207 Sand 220 290 Sand 220 290 Sand 362 400 Shale 362 400 Shale 362 400 Shale 400 460 Sand 460 475 RR Shale 370 770 915 Sand 740 770 RR Shale 525 535 RR Shale 535 740 Sand 740 770 RR Shale 535 740 Sand 740 770 RR Shale 770 915 Sand 985 1015 Sand 1015 1045	Initial open flow.		T M Cu. ft	· bbis.	. 4			-
Well treatment details:					Liners Used		-	
Broke down Weir perfs at 2450# with 2000 gal, mud acid containing 45 perf balls. Balled out Opened well and flowed back 20 BLM. Ran bailer to knock out perf balls. Pumped 80 bbl. gel and 49 MUF NZ ped Fraced Weir with Dowell nitrogen energized crosslinked frac system containing 30000# 80/100 sand and 60000# 20/40 sand with 250 cu. ft./bbl. N2. Blender paddles locked up twice, 10 bbl. of gel run without sand. Max. TP 2/00#, Min. TP 2200#, Avg. TP 2250#. Final TP 2250#. TSIP 1700#, 5 min. SIP 1600#, 10 Min. SIP 1550# 15 Min. SIP 1500# Coal was encountered at none			_hrs. before	test 900 RP.				
Opened well and flowed Sack 20 BLW. Ran bailer to knock out perf balls. Pumped 80 bbl. gel and 45 MCF N2 pag. Fraced Welf with Dowell nitrogen energized crosslinked frac system containing 30000# 80/100 sand and 60000# 20/40 sand with 250 cu. ft./bbl. N2. Blender paddles locked up twice, 10 bbl. of gel run without sand. Max. TP 27/00#, Min. IP 2200#, Nyg. TP 2250#, Final TP 2250#, ISIP 1700#, 5 min. SIP 1600#, 10 Min. SIP 1550# 15 Min. SIP 1500# Coal was encountered at rest with a constant of the water o	Well treatment det	tails:			Attach copy of	cementing reco	ord.	
and 45 MCF N2 pad, Fraced Weir with Dowell nitrogen energized crosslinked frac system containing 30000# 80/100 sand and 60000# 20/40 sand with 250 cu. ft./bbl. N2. Blender paddles locked up twice, 10 bbl. of gel run without sand. Max. TP 2/00#, Min. TP 2200#, avg. TP 2250#, Final TP 2250#, ISTP 1700#, 5 min. SIP 1600#, 10 Min. SIP 1550# 15 Min. SIP 1500# Coal was encountered at none Feet Inches (Continued on back) Fresh water. 209! Feet Salt Water None Feet Froducing Sand Alexander Depth 5105-5134' The same for the first state of the	Broke down We	ir per	cfs at 245	O# with 2000 §	gal. mud acid	containing	45 perf	balls. Balled out
Containing 30000# 80/100 sand and 60000# 20/40 sand with 250 cu. ft./bbl. N2. Blender paddles locked up twice, 10 bbl. of gel run without sand. Max. TF 2700#, Min. 1P 2200#, Avg. TP 2250#, Final TP 2250#, ISIP 1700#, 5 min. SIP 1600#, 10 Min. SIP 1550# 15 Min. SIP 1500# Coal was encountered at none	Opened well a	and flo	owed back	20 BLW. Ran ba	ailer to knock	out perf ba	alls. Pum	ped 80 bbl. gel
Paddles Tocked up twice, 10 bbl. of gel run without sand. Max. TP 2700#, Min. TP 2200#,Avg. TP 2250#, Final TF 2250#, ISIP 1700#, 5 min. SIP 1600#, 10 Min. SIP 1500# 15 Min. SIP 1500# none	and 45 MCF NZ	pad.	Fraced We	ir with Dowel.	l nitrogen ener	rgized cross	slinked f	Tac system
TP 2250#, Final TP 2250#, ISIP 1700#, 5 min, SIP 1600#, 10 Min, SIP 1500# 15 Min, SIP 1500# Coal was encountered at roots and selection of the selection of	containing 30	000# 8	30/100 san	d and 60000# :	20/40 sand with	n 250 cu. ft	E./bbl. N	2. Blender
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Coal was encountered at none Feet Salt Water None Feet None	TP 2250#, Fin	al TP	2250#, IS	IP 1700#. 5 mi	în. SIP 1600#.	10 Min. SI	2 1550# 1	5 Min. SIP 1500#
Fresh water 209 Feet Salt Water None Feet Producing Sand Alexander Depth 5105=5134' 2117-2106								
Producing Sand								and the state of the same of
Formation Color Hard or Soft Top Feet Bottom Feet Oil, Gas or Water * Remarks	Fresh water 209	y.		Feet	Salt	Wasar Nor	30	F
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Formation	Color	Hard or Both	Top Feet g	Bottom Feet	Oil. Gas or Water	· Remarks
Weir Tr	eatment	continued				
Total s 857 bbl	and lade	en fluid 582 CF Total N2.	bb1. 35 bb1. AIR 30 BPM Min	isplacement . Sand conc	fluid. 240 bbl. p 2 ppg, avg. 3.7	ead. TL&T ppg Max. 10 ppg.
				i	- Amountaining and a second and	
			eriedingen			
Sand Shale			1400 1435	1435 1475		
Sand Shale		mandin merekan wasan na Managaran	1475 1516	1516 1555	o de la composition della comp	
Sand Shale			1555 1660	1660 1707		
Sand Lime			1707 -1774	1774 1880		
Sand Shale			1880 1940	1940 2080	Gas 1930'	
Sand Shale			2080 2150	2150 2390		
Sand Shale			2390 2520	2590 2590 2610		
Sand Shale			2610 2652	2652 3225		
Sand Shale			3225 3350	3350 3400		
Sand Shale			3400 3510	3510 3600	3480 Gas	
Sand Shale			3600 3607	3607 4000		
Sand Shale			4000 4020	4020 4516		
Sand Shale			4516 4535	4535 4640		
Sand Shale		Carried	4640 4660	4660 4880		
Sand Shale			4880 4850	4850 5070		
Sand A	LEX.	was et al.	5070 5150	5150		
		gen in 2000 om nysketet	Self-recording Assessment	delettoon	05 253	
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		outstanding the second			ga Mari Maria da Labarda da Para da Pa Para da Para d	
		rija dizadojini. mj. Appor				
		OMECHA GLOVA Alleita - pare	A A A A A A A A A A A A A A A A A A A	Division in the second		
4						
		To the control of the	Name of the second seco			r de la companya de La companya de la co
		Out of the second				

Date November 12, 19 80

APPROVED Cities Service Company Owner



Oil and Gas Division

OIL AND GAS WELL PERMIT APPLIC

OG - 1 Rev 71				
	STATE OF WE	ST VIRGINIA		
	DEPARTMEN		Te Po	Con 1
		*	0 % B	
	Oil and Gas	LIVISION	12	
OII AND	GAS WELL P	EDAAIT ADDII	ICATION I	
VIL AIVU			CARDIA	
TO THE DEPARTMENT OF MINES.	,			
Charleston, W. Va.		DATE April 23		
Surface Owner Mrs. Everett M	axwell	CompanyCities Ser	vice Company	
Address West Union, WV 2645		Address Box 873,	Charleston, V	₩ 25323
Mineral Owner Lewis Maxwell, e Robert L. Holland, Age	nt ux	Farm Lewis Maxwel		Acres 2654
Address Box 425, West Union, W	V 26456 −−−	Location (waters) Arn		7060 07
Coal Owner		Well No."A" #66, G	on	
Address		District	West Union	County Doddridge
Coal Operator	w	Quadrangle	west official	
AS Address Must be posted at the v	WELL SITE			
ll provisions being in accordance with Ch	apter 22.			
the W. Va. Code, the location is hereby	approved			
drilling . This permit sho	lexpire if TO	PECTOR BE NOTIFIED	Paul Garre	tt ·
perglions have not commenced by 12-28	-80 			,
Aut of the	ADD	RESS 321 Beech	Street, Clar	ksburg, WV 2630
The undersigned well operator is entitle thereto, (or as the case may be): Maxwell made to Columb	under grant or lease date	d8-18-	19 <u>05</u> by	Lewis
19, in			he	day of
· ·				OT - COURT (1777 A 1977)
XNEW WELLOIL AND GAS WELL OF	•			OR STIMULATE
·				
The enclosed plat was prepared by a have been notified as of the above date.			Tall	
The above named coal owners and/or to make by Section 3 of the Code, mus	operator are hereby not t be received by, or filed	ified that any objection with the Department o	they wish to mal	ke, or are required n (10) days. *
Copies of this notice and the enclose or coal owners at their above shown re	d plat were mailed by reg	gistered mail, or delivere	d to the above na	med coal operators efore, or on the
same day with the mailing or delivery o				
PLEASE SUBMIT COPIES OF ALL	Ver	ry truly yours, Ci	ties Service	Company
GEOPHYSICAL LOGS DIRECTLY TO	: (Siį	gn Name) Alle	lell Operator	leer
WEST VIRGINIA GEOLOGICAL AND			•	
ECONOMIC SURVEY	Address	<u>Box 873</u>	Street	
P. O. BOX 879	of Well Operator	Charles	ston, WV 253	.23
MORGANTOWN, WEST VIRGINIA 20 AC-304 - 292-6331	6505 Well Operator		or Town	<u></u>
			State	***************************************
*SECTION 3 If no objections are notice and plat by the department of mines, t the filing of such plat, that no objections have	o said proposed location, the	department shall forthwith	issue to the well oper	rator a permit reciting
and the well operator authorized to proceed.			- g rest matter belief	The second secon
	Programme.	47-017	-2692	DED Main Fit if was a second
"I have read and understand the reclamation	in requirements as see famt			PERMIT NUMBER
Chapter 22, Artiole 4, Section 12 b and will care Signed by				

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

PROPOSED WORK ORDER TO	X DRILL	DEEPEN	FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If			RESPONSIBLE AGENT:		
NAME_Spencer Enterprise	S	NAME Sam J. N	latthews		
ADDRESS West Union, WV		ADDRESS Box 873,	Charleston, WV 25323		
TELEPHONE		TELEPHONE304	-344-8383		
ESTIMATED DEPTH OF COMPL		ROTARY X	CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	MATION: Alexander				
TYPE OF WELL: OIL_	GAS <u>x</u>	COMB STORAC	GE DISPOSAL		
	RECYCI	LING WATER FI	LOODOTHER		
TENTATIVE CASING PROGRAM	1 :				
CASING AND TUBING	USED FOR				
SIZE	DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16					
EXXXXX 11-3/4 42#	60	60	to surface		
9 - 5/8					
8 - 5/8 24#	1860	1860	to surface		
7					
5 ½ 4 ½ 11.6#	5250	F250	100		
3	3230	5250	480 sacks		
2			Perf. Top Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom /		
OF PLAT: TO DRILL DEEPER OR REDRILI SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTEE TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	C: OF OG - 1, SHOWING ORIGO O 1929, A PERMANENT CO O. IGINALLY DRILLED BEFO AND ORIGINAL WELL RE IGINALLY DRILLED ON A IBER, AND PERFORMANCE within ninety (90) days of	EINAL PERMIT NUMBER AND COPY OF THE PLAT AND DRE JUNE 5, 1929, FIVE (5) CORD. ND/OR AFTER JUNE 5, 1929, BOND. completion for bond release.	SOND AND PERMANENT COPY ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 29, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-		
WAIVER: I the undersigned, Agent this lease have examined We the providing operator has co	c completed by the coal operations to for and place on our mine m	Coal Company, Owner aps this proposed well locate have no objections to said well are the company to said well are the company.	issued within ten days of receipt		
Code.	•		**************************************		
		F	or Coal Company		
		***************************************	Official Title		