



6-6 McGraw 24-8 Form OG-10





STATE OF WEST VIRGINIAOIL & GAS DIVISION CHORES T. OF MINES Cable Tools Rotary

X

OIL AND GAS DIVISION &

Storage

Quadrangle Eccles

Permit No. RAL-286

WELL RECORD

Oil or Gas Welk Gas

Permit NoIIAL								
Company Glen	Daniel Ga	as Co.		Casing and	Used in	Left in	A VA A	
Address P.O.B				Tubing	Drilling	Well	Packers	
Farm Jas - C.								
Location (waters)	Sand Lick	k Creek		Size				
Well No L		F	lev. 1725.80	16			Kind of Packer_C	3uib
District Trap H	111	County Ralia	gh	13	11,22		erson type	AF
The surface of tra				10	221	1		
The surface of tra	ct is owned in	Tee name Bears	ar W Wa	81/4		1 224 121	· ·	N 1
IIO Pine	Su., A	ddress Becker	to Uning	65/8 7 "	1047'	1047'	Depth set 236!	
Mineral rights are	owned by 4	as Snuma	re Herra		1037		Depth sea 2000	<u> </u>
		ddressGlen Da					9/1	561
Drilling commence	d Nov.11	,1969		3			Perf. top 24	
Drilling completed	Apr.15	,1970		2			Perf. bottom 24	
Date Shot N.S.	· From	To_		Liners Used	None		Perf. top	
With						-	Perf. bottom	
Open Flow 2/	10ths Water in	1" befor	e acid Inch		<u></u>		<u> </u>	
8	water 10ths XXX . ir	l" before 2 "After"	Inch	alama ant	ENTED AH	SIZE 224	No. Ft12-2-69	Dota
Volume				CASING CEM	ENTED O	_3_2/	70 1-19-70	
Volume	480	lbs. 84	hro					
				COAL WAS F	NCOUNTERE	D AT 382	FEET 36 IN	CHES
		- 0000					FEET36IN	
		w. 2000 ga:		and the second s				
					T_Z4_INC	JHES	_FEETIN	Ones
WELL FRACTUI	RED							
***************************************							110	
RESULT AFTER	TREATMENT	Τ		and the same and t			119,000	
	E AFTER TRI	EATMENT				· · · · · · · · · · · · · · · · · · ·		
ROCK PRESSUR								
ROCK PRESSUR Fresh Water		Feet	agen washing to the contract of the contract o	_Salt Water		F(cct	
Fresh Water					Oil. Gas	4		
Fresh Water		Feet Hard or Soft	Top ;	_Salt Water Bottom	Oil, Gas or Water	Fo		
Fresh Water	Color	Hard or	Top :	Bottom 10	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand	Color	Hard or	Top : 0 10	Bottom 10 4 5	Oil, Gas or Water	Dept		
Fresh Water Formation Sandy soil Sand	Color	Hard or	Top : O 10 45	Bottom 10 45 100	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil	Color	Hard or	Top : 0 10 45 100	Bottom 10 45 100 135	Oil, Gas or Water	Dept	h Remark	
Formation Sandy soil Sand Slate & sh	Color	Hard or	Top : 0 10 4.5 100 135	Bottom 10 45 100 135 145	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime	Color	Hard or	Top : 0 10 45 100 135 145	Bottom 10 45 100 135 145 208	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate	Color	Hard or	Top 3 0 10 45 100 135 145 208	10 45 100 135 145 208 225	Oil, Gas or Water	Dept	h Remark	
Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand	Color	Hard or	Top 3 0 10 45 100 135 145 208 225	Bottom 10 45 100 135 145 208 225 345	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh	Color	Hard or	Top . 0 10 45 100 135 145 208 225 345	Bottom 10 45 100 135 145 208 225 345 382	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal	Color	Hard or	Top : 0 10 45 100 135 145 208 225 345 382	Bottom 10 45 100 135 145 208 225 345 382 385	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate	Color	Hard or	Top : 0 10 45 100 135 145 208 225 345 382 385	Bottom 10 45 100 135 145 208 225 345 382 385 435	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand	Color	Hard or	Top 3 0 10 45 100 135 145 208 225 345 382 385 435	10 45 100 135 145 208 225 345 382 385 435 654	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal	Color	Hard or	Top 3 0 10 45 100 135 145 208 225 345 382 385 435 654	Bottom 10 45 100 135 145 208 225 345 385 435 654 658	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand	Color	Hard or	Top 3 O 10 45 100 135 145 208 225 345 382 385 435 654 658	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal	Color	Hard or	Top 9 0 10 4.5 100 1.35 1.45 2.08 2.25 3.45 3.82 3.85 4.35 6.54 6.58 8.23	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand	Color	Hard or	Top O 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand Coal	Color	Hard or	Top : 0 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand Coal Sand Slate	Color	Hard or	Top 3 0 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand Rock	Color	Hard or	Top 9 0 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884	Oil, Gas or Water	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand	Color	Hard or	Top 3 0 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884	Bottom 10 45 100 135 145 208 225 345 385 435 654 658 823 825 884 1013 1063	Oil, Gas or Water	Dept	h Remark	
Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand Coal Sand Coal Sand Coal Slate Red Rock Sand Slate	Color	Hard or	Top 0 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013 1063	Bottom 10 45 100 135 145 208 225 345 385 435 654 658 823 825 884 1013 1063 1129	Oil, Gas or Water Fresh wa	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand Coal Slate Red Rock Sand Slate Sand	Color	Hard or	O 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013 1063 1129	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155	Oil, Gas or Water Fresh wa	Dept	h Remark	
Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Slate Sand Coal Slate Red Rock Sand Slate Red Rock Sand Red Rock	Color	Hard or	O 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013 1063 1129 1155	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155 1170	Oil, Gas or Water Fresh wa	Dept	h Remark	
Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand Coal Sand Red Rock Sand Red Rock Sand	Color	Hard or	O 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013 1063 1129 1155 1170	Bottom 10 45 100 135 145 208 225 345 385 435 654 658 823 825 884 1013 1063 1129 1155 1170 1180 1210 1225	Oil, Gas or Water	Dept	h Remark	
Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Sand Coal Sand Coal Sand Coal Sand Red Rock Sand Red Rock Sand Slate Sand Slate	Color	Hard or	Top 0 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013 1063 1129 1155 1170 1180	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155 1170 1180 1210 1225 1236	Oil, Gas or Water	Dept	h Remark	
Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Slate & sh Coal Slate Sand Coal Slate Sand Coal Sand Coal Slate Red Rock Sand Slate Red Rock Sand Slate Sand Coal Slate Coal Slate Red Rock Sand Slate Sand Coal Slate Sand Slate Sand Slate Sand Slate Critty line	Color	Hard or	O 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 882 884 1013 1063 1129 1155 1170 1180 1210	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155 1170 1180 1210 1225 1236 1255	Oil, Gas or Water Fresh wa	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Coal Slate & sh Coal Slate Sand Coal Slate Sand Coal Sand Coal Sand Coal Slate Red Rock Sand Slate Sand	Color nells	Hard or	O 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155 1170 1180 1210 1225	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155 1170 1180 1210 1225 1236 1255 1395	Oil, Gas or Water Fresh wa	Dept	h Remark	
Fresh Water Formation Sandy soil Sand Slate & sh Lime Slate Sandy lime Slate Sand Coal Slate Sand Coal Sand Coal Sand Coal Slate Red Rock Sand Slate Red Rock Sand Slate Sand Slate Sand Coal Slate Red Rock Sand Slate Sand Coal Slate Red Rock Sand Slate Sand Coal Slate Coal	Color nells	Hard or	O 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155 1170 1180 1210 1225 1236	Bottom 10 45 100 135 145 208 225 345 382 385 435 654 658 823 825 884 1013 1063 1129 1155 1170 1180 1210 1225 1236 1255 1395	Oil, Gas or Water Fresh wa	Deptl	h Remark	

Formation	Color	Hard or Soft	Top C	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1440	1470		•	
Lime			1470	1511			
Red Rock			1511	1560			
andy lime			1560	1585			
ed Rock			1585	1665			
led lime			1665	1690			
ritty lin	e		1690	1702			
ed Rock			1702	1760		1	
ime			1760	1965			
Red lime			1965	20114	- 1 - 1 - 1		and the second of the second o
rey lime			2014	2200			
late			2200	2240			
ime			2240	2340			4 + 0700 07
late			2340	2352	0 0/10	Busir das	hity2700-27
ig Lime	Dod	(Tm 400m)	2352	2744 2793	Gas, 2/10	W. I. 2440	s. water i
and	Red	(Injun)	2744				
1 me Late	1		2793	2861			
		/ 120 a lange 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2861	2000	C moton	5 5011000	4- 2
and		(Weir)	2866	2888	O. Water -	5 bailers 2885 - 88	
		# 1.		0000	matal da-		
			and the state of t	2888	Total dep	OIL	
	1	11. 14.					
					•		
			Est 3.5 mgs				
		-				. di 1 es	
Well pa	rtly plug	ged as fol	lows:	a profes			
Cem	ent from	2888 back	ta 2860; h	ole then	filled sol:	d (packed	down
wit	h tools)	with clay	back to 27	44; cemen	back to	2716; then	fill.
sol	1d to 252	5; cement	to 2500;	olid clay	to 2480;	2716; then ement to 2	476.
	1	1		1		I '	·
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			· · · · · · · · · · · · · · · · · · ·				

Date.		19
APPROVED Then	Daniel Her Co.	, Owner
By X	E, allen (Title)	
	(Title)	



)	Date: Sep	tember 3	3		_, 12
-	Operator's	Shumate	Hrs.	#1	1.)

Well No. Shumate Hrs. #1

3) API Well No. 47-081-0286 -FRAC State County Permit

te County

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

DEPARTM	ENT OF	ENERG	Υ .Σ.Σ.	AP	PLICAT	ION FOR A WELL	WORK PERMIT		
				v					
4) WELL TYPI						/ Underground sto	rage	/ Deep	/ Shallow X/)
		"Gas", Pration:	roduction			Watershed:	Sand Lick ('rook	- 0
5) LOCATION		ation: rict:T	rap Hi	11	1	County: R	aleigh 08	Ouadrangle:	Eccles 7.5' 33
	Disti	rici:	niol (`ac ('o COD	E: 19350 7)		AGENT <u>David</u>	H. Rollins
	RATOR G P	. 0. B	ox 169)	, 100 g		Address	P. O. Bo	x 169
Address	·C	harles	ton, V	JV 2	5321			Charlest	on, WV 25321
8) OIL & GAS						9)	DRILLING CO	ONTRACTOR:	. •
NameR	odney	Dillon	1				Name <u>Unki</u>	nown at this	time
Address	Ρ.	0. Bo	x 100				Address		
7144.000	0a	k Hill	, WV	2590)1				
10) PROPOSEI	WELL V	vork:	Drill		/ Drill	deeper	_/ Redrill	/ Stimulate	<u>X</u> /
10) 1 KO1 0021		. • • • • • • • • • • • • • • • • • • •	Plug off	old f	ormatio	n/ Perforat	e new formation	X/	
			Other pl	ysical	change i	n well (specify)			
11) GEOLOGIC	CAL TARG	GET FORM	MATION,	<u>Max</u>	ton	<u> 325 - </u>			
12) Estimat	ed denth o	f complete	d well, _	<u> </u>	<u>co 24</u>	/ D		64	
13) Approx	imate trata	a depths:	Fresh,		.5	feet; salt,_		feet.	/ No. X
14) Approx	imate coal	seam dept	hs:			ls coal	being mined in th	e area! res	/ NoX
15) CASING A	ND TUBI	NG PROC	GRAM			•		CEMENT FILL-UP	l packers
CASING OR	١	SPEC	FICATIONS Weight	.		FOOTAGE IN	TERVALS	OR SACKS	Themes.
TUBING TYPE	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	Winds
Conductor	10"		40#	X	ļ	22'	22'		Kinds
Fresh water	814''		24#_	X	ļ	224'	224'	 	Sizes
Coal						10/7	10/71	erts	31265
Intermediate	7''		20#	X	ļ	1047'	1047'	1 073	Depths set
Production	4½"	J-55	10.5#	<u> X</u>	ļ	Plan To Run	1550°		Depails set
Tubing					ļ		1550		Perforations:
Linc.s			ļ		 				Top Bottom
			ļ		 				
	 		<u> </u>	 		 			
	<u> </u>	<u> </u>		1	<u></u>	Ц			
						OFFICE USE C	NLY		
						DRILLING PE			
· ·		47-081	0206	DD A C	1	DIGERRA		Octobe	er 22 19 8
Permit number_		47-001	-0200-	FRAC					ate
									ance with the pertinent legal
This permit cov	ering the v	vell operat	or and we	ll locat	ion show	vn below is evidence (of permission grai	niven to the District O	ance with the pertinent legal
quirements subj	ect to the o	conditions	contained ads locati	ons and	and on d pits fo	r any permitted work.	In addition, the	well operator or his co	il and Gas Inspector. (Refer to intractor shall notify the pro
The permitted v	vork is as o	lescribed i	n the Noti	ce and	Applica	tion, plat, and reclam	ation plan, subjec	t to any modifications	and conditions specified on
reverse hereof.	VOIR 13 US	- 1	ctober						
Permit expires		_/	CLOBE		170	unless well	work is commend	ed prior to that date ar	nd prosecuted with due diliger
· /							1 1000		
R-d.	· Agon	./. \ /	A11+1.1	del	ing	Fee_ Wich	/	Other	
Bond;	Agen	<i>y</i> · /	7 777	\mathcal{I}	N° I	235 \\ 181		1	
1 Days	<u> </u>		180	\mathcal{X}	8	The state of the s	<u> </u>	 /	
AH 102/81		i	()	//	į	D. J. O.	f. 4/9m	Ruston by	Margario J.
101			• • •	V	deillina	1154 1	100 0/ 100	ivision of Oi	1 and Cas
NOTE: Keep	one copy	of this per	mit posted	atthe	arming	iocation. / D	irectqr/ D:	ivision of Ol	rand () ras

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.