



STATE OF WEST VIRGINIA DEPARTMENT OF MINES



DELT. OF THISES

Rotary XX Oil

Oil and Gas Division WELL RECORD //

Quadrangle <u>laeger</u>				Cable Recycling_	
Permit No. MCD-618					d Storage
•				Disposal	
			-		(Kind)
Company Consolidated Gas Supply		Casing and	Used in	Left	Cement fill up
Address 445 W. Main St., Clarksbu		Tubing	Drilling	in Well	🌓 i i i i i i i i i i i i i i i i i i i
Farm Rose L. Dennis Ac			Drining	III WEI	Cu. ft. (Sks.)
Location (waters) Bull Creek/Tug For		Size			The second secon
Weil No. 11642 Ele	ev_ <u>1360</u>	20-K%	221	221	To Surface
District Sandy River County McDo		Cond.			
The surface of tract is owned in fee by		19c16c,	6081	6081	To Surface
A. H. Allen	The state of the s	9 5/8			
Address Welch, WV		8 5/8	1680'	1680'	360 bags
Mineral rights are owned by Clyde Denni		7			
Address_Grundy, VA		5 1/2			
Drilling Commenced 12-9-73	***************************************	4 1/2	42501	42501	87 bags
Drilling Completed 1-2-74		3			0/ 0282
Initial open flow No Test cu. ft.	bbls.	2			
Final production 189M cu. ft per day_	bbls.	Liners Used			
Well open 24 hrs. before test_	525# RP.				
Well treatment details:		Attach copy of	canostina van	~ · d	
Coal was encountered atFresh waterFee Producing Sand Big Lime	Feet.	Salt V	Vater	ès **	Feet
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	Water *	Remarks
S and		and performance and the second			
Shale	12	16			
Sand	16	44			
Shale	44	89			AN Charles and a Charles
Sand Shale	89	328			
Sand	328	338			auto A filosoficio de la come de
Shale					
Sand	338 6):6	646			
1	646	777			
Shale	646 777	777 801			
i	646 777 801	777 801 857			
Sand	646 777 801 857	777 801 857 1090			
Sand Shale	646 777 801 857 1090	777 801 857 1090 1108			
Sand Sand	646 777 801 857 1090 1108	777 801 857 1090 1108 1191			
Shale Sand Shale Sand Shale Sand	646 777 801 857 1090 1108 1191	777 801 857 1090 1108 1191 1207			
Sand Shale Sand Shale Sand	646 777 801 857 1090 1108 1191 1207	777 801 857 1090 1108 1191 1207			
Sand Shale Sand Shale Sand Sand & Shale Shale	646 777 801 857 1090 1108 1191 1207	777 801 857 1090 1108 1191 1207 1260 1288			
Sand Shale Sand Shale Sand Sand & Shale Shale	646 777 801 857 1090 1108 1191 1207	777 801 857 1090 1108 1191 1207 1260 1288 1324			
Sand Shale Sand Shale Sand & Shale Shale Sand	646 777 801 857 1090 1108 1191 1207 1260 1288 1324	777 801 857 1090 1108 1191 1207 1260 1288 1324		. Jana (Lili) (La c	
Sand Shale Sand Shale Sand & Shale Shale Sand Shale	646 777 801 857 1090 1108 1191 1207 1260 1288 1324 1371	777 801 857 1090 1108 1191 1207 1260 1288 1324 1371 1386 1401	. Le dellé (Vise)		
Sand Shale Sand Shale Sand Sand Sand Sand Sand Shale Shale Shale Sand Shale Sand	646 777 801 857 1090 1108 1191 1207 1260 1288 1324 1371 1386 1401	777 801 857 1090 1108 1191 1207 1260 1288 1324 1371 1386 1401 1435			
Sand Shale Sand Shale Sand & Shale Shale Sand Shale	646 777 801 857 1090 1108 1191 1207 1260 1288 1324 1371	777 801 857 1090 1108 1191 1207 1260 1288 1324 1371 1386 1401			

(over)

^{*} Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet //	Bottom Feet	Oil, Gas or Water * Remarks
Sand & Shale	and banks or		
Sand	1733	1889	
Sand & Shale	1889	1924	
Shale	1924	1937	
Sand	1937	1973	
Sand & Shale	1973 2024	2024	A A ANALO CONTRACTOR OF THE STATE OF THE STA
Sand	2072	2072	A A State of the Control of the Cont
Shale	2084	2084 2090	
Maxton	2090	2234	
Sand & Shale	2234	2281	e de la companya del companya de la companya de la companya del companya de la co
Sand	2281	2314	Fractional States and San San States
Sand & Shale	2314	2344	
Sand	2344	2358	Andread and the first of the second s
Sand & Shale	2358	2404	kang pilanggan ang manggan panggan ang manggan panggan panggan panggan panggan panggan panggan panggan panggan Panggan panggan pangga
Sand	2404	2449	 [8] All Carriers and All Control of the Control of th
Shale	2449	2583	
Sand & Shale	2583	2670	
Lower Maxton	2670	2724	Line of the section of the contract of the con
Shale	2724	2758	
Little Lime	2758	2875	
Sand, Shale, Lime	2875	2930	Allegrafic seint die der deutsche der der der der de
Big Lime	2930	3211	
Sand & Shale	3211	3430	
Shale, Shale	3430	3825	
Berea	3825	3836	
Shale	3836	4819	and the state of t
Sand & Shale	4819	5015	
Shale	5015	5670	
Onondago	5670	5747	
Oriskany	5747	5765	
Shale	5765	5870	
Total Depth		5870	and the second
and the second and an artist of the second and the	AND ADDRESS OF THE PARTY OF THE		
Electric Log			
Upper Maxton	0000		
Maxton	2093	2233	
Lower Maxton	2394	2456	and the state of the
Little Lime	2674	2736	
Big Lime	2790 2870	2847	
Berea	3817	31.94	
Stray sd in Snown Shale sog.	4115	3834 4159	
Onondaga	5666		
Oriskany	5694	5694 5716	
Helderberg	5716	5776	
Silurian	5776	5845	
Salina	5845	70-77	
Company of the Compan			
Total Depth	1,21	5860	
. ·	A STATE OF THE STA	2000	
District	10.00		
Politica		e swa.	
· ·			TANAGA S
The state of the s	46.95	# # # # # # # # # # # # # # # # # # #	
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Buryan	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		3.44
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-de-market	A STATE OF THE STA		
projection of the state of the	ABOT		
	14.5	AND T	
Measured from K. B. 10' above G	. L.	4361	

Date November 6, . 19 74

APPROVED Consolidated Gas Supply Corp. Owner

Manager of Production



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quedra	ngle) Common	laeger_	
T'9	28-		MCD-618	

REVISET

Rotary_XX_	Oil
Cable	(Gas_X)
Recycling	Comb
Water Flood	Storage
Disposal	
	(Kind)

Permit No. MCD-618			1965 Art 1963	Water Floo Disposal	dStorage
Company Consolidated Gas Supply Corp. Address 445 W. Main St., Clarksburg, WV. Fraga Rose L. Dennis Acres 6068		Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Bull Creek/Tug Fork Well No. 11642 Elev. 1360 District Sandy River County McDowell		Size 20-K& Cond.	221	22'	To Surface
The surface of tract is owned in fee by		BAR'	6081	6081	To Surface
A. H. Allen . Address Welch, WV		9 5/8 8 5/8 ************************************	1680'	1680'	360 bags
Mineral rights are owned by <u>Clyde Dennis</u> Address <u>Grundy</u> , <u>VA</u>	en 1.	7 5 1/2			44%. 114
Drilling Commenced 12-9-73 Drilling Completed 1-2-74		4 1/2	42501	42501	87 bags
Initial open flow No Test cu. ft. bbls. Final production 189M cu. ft per day bbls.		2 Liners Used		0	
Well open 211 hrs. before test 525# RP.		Act and the second seco			
Well treatment details: Well treated in Brown	Sha	Attach copy of le with 500 /	_		zal. 11/2

Well treated in Brown Shale with 500 gals, 15 % HCL, 60 gal, L-12

770 bbl. 1% KCL water, 50,000# sand. Well treated in Big Lime with 4,000 gal 20%

HCL, 8,000 gal of 15% HCL.

Perforations: 4131'-4140', 4116'-4119', 3161'-3168', 3143'-3145', 3064'-3068'

Coal was encountered at _____ Feet ____ Inches

Fresh water ____ Feet ____ Salt Water ___ Feet ____ Producing Sands: Rig Lime ____ Depth __3064'-3168'

Formation . Color Hard or Sof	t Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand Shale Sand Shale	0 12 16 14	12 16 44 89		COMMINISTRATION OF COMMINISTRATI
Sand Shale Sand Shale Sand Shale Sand Shale Sand	89 328 338 646 777 801 857 1090 1108	328 338 646 777 801 857 1090 1108		
Shale Sand Sand & Shale Shale Sand Shale Sand & Shale Sand	1191 1207 1260 1288 1324 1371 1386 1401	1207 1260 1288 1324 1371 1386 1401		
Sand & Shale 'Sand	1435 1460	1460 1733		

(over)

Sand & Shale 1733			1	
Sand & Shale Sand	Formation Color Hard or Soft	Top Feet 9	Bottom Feet	Oil, Gas or Water * Remarks
Sand & Shale 1937 Shalo 1937 Shalo 1937 Shalo 1937 Shalo 1938 Sand & Shale 1937 Sand & Shale 1937 Sand & Shale 2024 2072 2024 Sand & Shale 2034 Sand & Shale 2035 Sand & Shale 2036 Sand & Shale 2037 Sand & Shale 2038 Sand & Shale 2039 Sand & Shale 2030 Sand & Shale 2040 Sand & Shale 2050 Sand & Shale	Brown Control of the			and of the state o
Send & Shale 1951 1977 1977 1978 1978 1978 1977 1978				- Para Caracana Carac
### Shale 1937 2973				
Sand & Shale 2024 2				September 1
Sand & Shale * 2024 2072 2008 18 1				
Sand shiple 2072 2004 shiple 2090 shiple 2090 2224 2291 2291 2291 2291 2291 2291 2291	Sand & Shale .		K .	
Section 2000 2234 2254 2254 2254 2254 2254 2254 2254 2254 2254 2254 2254 2254 2254 2254 2254 2255	Sand	2072		Amerikan Sandari (A. 1907) and Amerikan Sandari (A. 1907) and Amerikan Sandari (A. 1907) and Amerikan Sandari Amerikan Sandari (A. 1907) and Amerikan Sandari (A. 1907) and Amerikan Sandari (A. 1907) and Amerikan Sandari Amerikan Sandari (A. 1907) and Amerikan Sandari (A. 1907) and Amerikan Sandari (A. 1907) and Amerikan Sandari
Bead & Sinale 2234 2281 2344 2358 2344 2314	DALCALG			
Sand & Shale Sa	MORTON			
Sand & Shale				
### 234				
Sand & Shale Sand	Sand			
Shale Lower Maxton Shale Land, Chale, Lime 2778 2778 2778 2877 2788 2877 2788 2877 2930 3211 3430 3825 3836 3826 3826 3826 3826 3826 3826 3826	Sand & Shale	2358	2404	
Sand & Shale	Sand	2404		
Seasured from K. B. 10' above G. L. 270 2724 278 275 2				
### Shale 2778 2778 2778 28775		2503		
### ### ### ### ### ### ### ### ### ##	INVEL MERCON			
### Band & Shale Lime 2975 2930 3211 3430 3825 3836 3430 3825 3836				
### ### ### ### ### ### ### ### ### ##				
Sand & Shale	Mg Line			
### Shale	Sand & Shale	3211		
### Shale	Shale		3825	
### Same				
### Sols Sero Sero		3836		
Decimber of Service Se				and the state of t
### 5747 5765 5870 #### 5765 5870 ##### 5765 5870 ###################################				
### Seasured from K. B. 10' above G. L.	Omfakany			in the state of th
### Seasured from K. B. 10' above G. L.				
### Maxton 2093 2233 2456 2456 2766 2766 2776 2776 2847 2870 3194 2456 2870 3194 2870 3834 383				
### Maxton 2093 2233 2456 2456 2766 2766 2776 2776 2847 2870 3194 2456 2870 3194 2870 3834 383				
### 2093 2233 #################################	Noted Depth		5870	
### 2093 2233 #################################				The first of the second of
### Maxton 2394 2456 2736 2736 2736 2736 2736 2736 2847 2870 3194 3817 3834 2415 4159 3666 5694 5716 5776 5845 2736 2736 2847 2870 3194 2870 3194 2870 287	Malatine C.I. C LOS	A CONTRACTOR OF THE CONTRACTOR		and the second of the second o
### Maxton 2394 2456 2736 2736 2736 2736 2736 2736 2847 2870 3194 3817 3834 2415 4159 3666 5694 5716 5776 5845 2736 2736 2847 2870 3194 2870 3194 2870 287	Homer Maxton	2002	0000	
### 2870 3194 ### 2870 3194 ### 3817 3834 ### 4115 4159 ### 5666 5694 ### 5716 ### 5776 ### 5776 ### 5845 ### Total Depth **Resent TD ### Total Depth **Resent TD ### Total Depth **Resent TD ### Total Depth ### Total Dep	Marton	530r	24.56	
### 2870 3194 ### 2870 3194 ### 3817 3834 ### 4115 4159 ### 5666 5694 ### 5716 ### 5776 ### 5776 ### 5845 ### Total Depth **Resent TD ### Total Depth **Resent TD ### Total Depth **Resent TD ### Total Depth ### Total Dep	Mower Maxton	2674	2736	
### 2870 3194 3834 4115 4159 4115 4159 5666 5694 5716 5776 5776 5776 5845		· 2790	2847	
Seasured from K. B. 10' above G. L.		2870	31.94	
Seasured from K. B. 10' above G. L.	Berea	3817	3834	
Total Depth Resent TD #Ran 7-1/4" open-hole bridge plug set @ 4490 with 5 sacks calseal (filled up to 4471', present depth).	Course & a rea	4115	4159	() () () () () () () () () ()
Total Depth Resent TD #Ran 7-1/4" open-hole bridge plug set @ 4490 with 5 sacks calseal (filled up to 4471', present depth).		5601	2024	Co or C
Total Depth Resent TD #Ran 7-1/4" open-hole bridge plug set @ 4490 with 5 sacks calseal (filled up to 4471', present depth).	Helderberg	5716		The second secon
Total Depth Resent TD #Ran 7-1/4" open-hole bridge plug set @ 4490 with 5 sacks calseal (filled up to 4471', present depth).	Milwian	5776	5845	
Total Depth Resent TD *Ran 7-1/4" open-hole bridge plug set @ 4490 with 5 sacks calseal (filled up to 4471, present depth).	Balla	5845		Top,
*Ran 7-1/4" open-hole bridge plug set @ 4490 with 5 sacks calseal (filled up to 4471', present depth).				
Seasured from K. B. 10' above G. L.		Performance of the control of the co	. 1	
Set @ 4490 with 5 sacks calseal (filled up to 4471', present depth).	resent ID	· ·	4471	*Ran 7-1/4" open-hole bridge nlug
Geasured from K. B. 10° above G. L.			estimated.	Set @ 4490 with 5 sacks colean
Seasured from K. B. 10° above G. L.				(filled up to Wi71', present depth).
	•	age of the second secon	position	
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	• enabled	Anderson		
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	Management Promise Source	· ·	SSEMANCION .	
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AN THE STATE OF TH				Mayronhan &

APPROVED Consolidated Gas Supply Corp., Owner

By Manager of Production

(Title)



Oil and Gas Division OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE November 21, 1973
Surface Owner A. H. Allen Address Welch, West Virginia	Company Consolidated Gas Supply Corporation
Mineral Owner Clyde Dennis, Agt. Address Drawer D, Grundy, Virginia Coal Owner Same Address Coal Operator No Operations Address	Harm Rose L. Dennis Acres 6067.86 Location (waters) Bull Creek/Tree Foy k Well No. 11642 Elevation 1360* District Sandy River County McDowell
THIS PERMIT MUST BE POSTED AT THE WELL SIN	
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 3-28-74	
The total	For TOW 10 pr Admin Rue Schoolcraft
Deputy Director - Oil & Gas Division	Pineville, W.Va. PH. 732-7245
GENTLEMEN:	
made to Hope Natural Gas Comp	
	BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer of have been notified as of the above date.	ticeused land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or fil	notified that any objection they wish to make, or are required ed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Dep	registered mail, or delivered to the above named coal operators Same day before, or on the artment of Mines at Charleston, West Virginia.
Regulations 3.04 (b)	Very truly yours. Sign Name) Mgr. of Prod Well Operator Consolidated Gas Supply Corporation
of Well Opera	Jirecti .
	Clarksburg, West Virginia 26301 State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLAMKET BUND

McD-618 _PERMIT NUMBER

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

PROPOSED WORK ORDER TO	XX DRILL	DEEPEN FR	ACTURE-STIMULATE
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT:	
NAME Lohmann-Johnson D	at .	NAME R. E. Bay	
ADDRESS Charleston, Westellerhone (304) 343			t, West Virginia 26330 3611
ESTIMATED DEPTH OF COMPL			CABLE TOOLS
PROPOSED GEOLOGICAL FOR		ROTART	(ABLE TOOLS
TYPE OF WELL: OIL_		AND CTADACE	DISPOSAL
TYPE OF WELL: OIL_			OD OTHER
		MATER PLO	OH CHIER
TENTATIVE CASING PROGRAM	<i>1</i> ·		
	•		
CASING AND TUBING SIZE	USED FOR DRIFFING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
XXXXXX 20"	201	201	To Surface
ZXXXX 11"	650'	650'	To Surface
9 - 5/8		Angular Caramina van de management de la habitat de la filo de la	
8 - 5/8	1600'	1600'	To Surface
7	To the second se	The second secon	
5 1/2		and the same and the same of t	
4 1/2	5825'	58251	150 bags
•	and the second s	i	Perf. Top
2		The second second second control of the second seco	Perf. Bottom
Liners			Perf. Top
			Perf. Bottom
APPROXIMATE FRESH WATER	DEPTHS 95' FEET	SALT WATER	None FEET
APPROXIMATE COAL DEPTHS			
IS COAL BEING MINED IN TH	E ADEAS NO	RV WHOM?	
16 COME BEING MINED IN 111	as AltisA:	ACCOUNT TO SECURE OF THE PROPERTY OF THE PROPE	and the control of th
TO DRILL:			
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PERMI	T FEE, PERFORMANCE BO	OND AND PERMANENT COPY
MO PRILL PROPER OF BERRY	. 7		
TO DRILL DEEPER OR REDRII		· · · · · · · · · · · · · · · · · · ·	TO DODD DO DALLANCE DOND ON
			D PERFORMANCE BOND. ON
MUST ALSO BE SUBMITT		OPY OF THE PLAT AND I	THE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:			
OIL AND/OR GAS WELL O	RIGINALLY DRILLED BEFO	RE JUNE 5, 1929, FIVE (5)	COPIES OG - 1, PERFORMANCE
	AND ORIGINAL WELL REG		
	ORIGINALLY DRILLED ON A UMBER, AND PERFORMANCE		9, FIVE COPIES OG - 1, SHOW-
Required forms must be file four (24) hours in advance.		completion for bond release.	Inspector to be notified twenty-
	1		
The following waiver must thereof.	be completed by the coal op-	erator if the permit is to be	issued within ten days of receipt
**			r or Operator of the coal under
	ned and place on our mine m		
			vell being drilled at this location,
	complied with all rules and reg	gulations in Articles 4, 5, and	7, Chapter 22 of the West Virginia
Code.			
			Hy. Cr. Hardware Communication (Communication)
			for Coal Company
		The second secon	Official Title