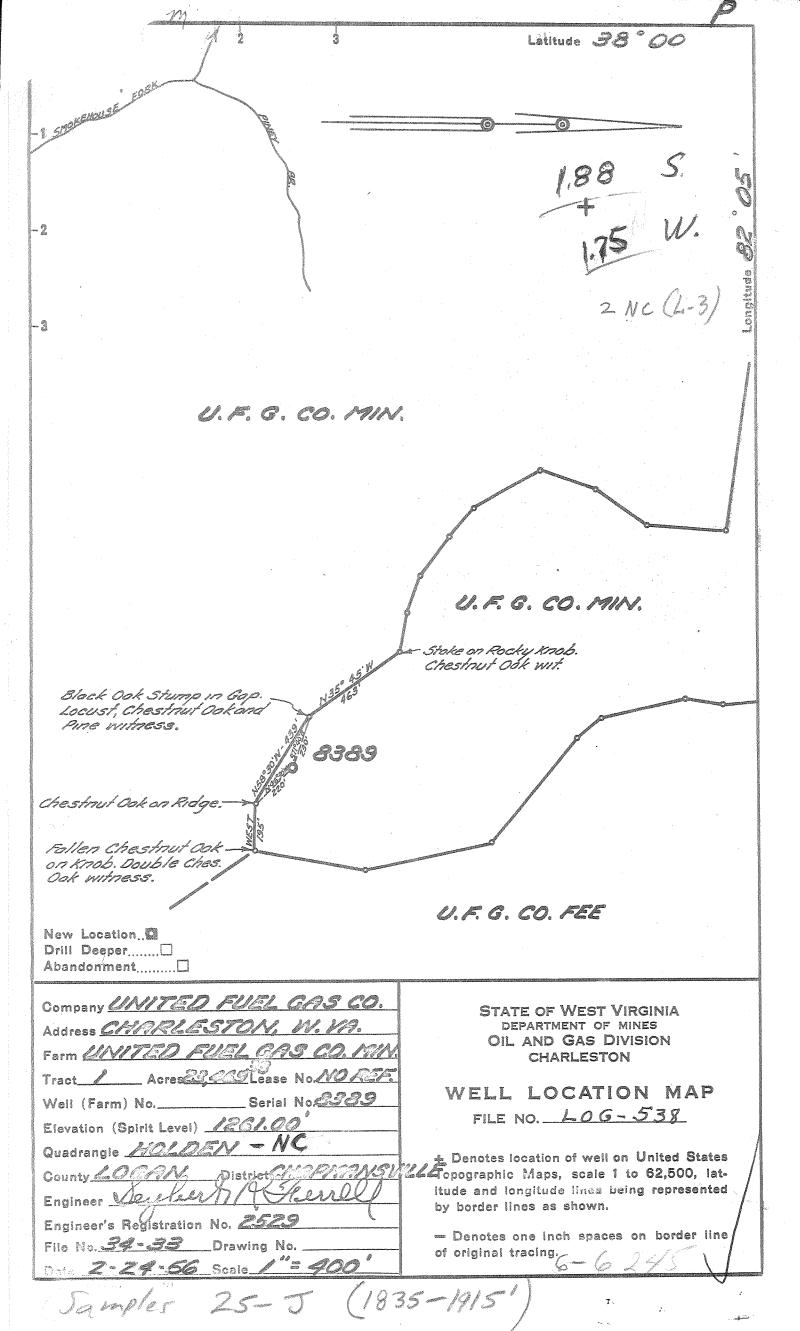


KOZ 156 IMPERIAL

DEED INSIL





## DEPARTMENT OF MINES OIL AND GAS DIVISION &

Quadrangle	 Ho	ld	en	9.00	

WELL RECORD

Permit No. LOG-538			Oil or G	as Well Gas
Company United Fuel Gas Company Address P. O. Box 1273; Charleston 25, W. Va.	Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm United Fuel Gas Co. Min.Tr.#lAcres 23,469.3  Location (waters) Smokehouse Fork  Well No. 8389 Elev 1261.0  District Chapmansville County Logan	Size 16			Kind of Packer
The surface of tract is owned in fee by	10 3/4 8% 5/8		121 772	Size of
Mineral rights are owned by United Fuel Gas Co.  Address Charleston, W. Va	. 530E 1/2		1832 _2037_Pull	Depth seted
Drilling commenced May 16, 1956  Drilling completed August 30, 1956  Date Shot 9-4-56 From 3285 To 4265	32 Liners Used			Perf. top Perf. top
With       6,666-2/3# Gelatin         Open Flow       /10ths Water in       Inch         60       /10ths Merc. in       2       Inch	CASING CEME	NTED	SIZE 1	Perf. bottom  No. Ft Date
Volume         1,205,000         Big Lm. & Shale         Cu. Ft.           Rock Pressure         450         lbs. 48         hrs.           Oil         bbls., 1st 24 hrs.	COAT WAS EN	COUNTERED	AT 24	FEET 48 INCHES
Fresh water 28 feet 710 feet Salt water 1120 feet feet	_589FEET		HES 620 1	•
Formation Color Hard or Top	Bottom	Oil, Gas or Water	Depth Found	Remarks

State   Solution   S	Fresh water	28	<u>feet 710</u>	feel	:	et_4_inchi	cs <u>ow</u> feri	<u> 40</u> INCHES
Surface   0   10   Mater 28°   Sand   24   28   Water 710°   3 bailers per hour   Sand   24   28   Water 710°   3 bailers per hour   Sand   24   28   Water 710°   3 bailers per hour   Sand   28   142   170   386   Slate   170   386   440   490   Sand   490   589   591   Slate   589   591   Slate   620   624   620   624   624   Sand   624   690   625   1942°   increased to 24/10 W3° 465 M   Sand   662   662   662   662   Sand   690   708   508   Slate & Shells   712   790   Slate & Shells   712   710   Slate & Shells   713   710   Slate & Shells   715   715   Slate & Shells   716   7178   Slate & Shells   7178   718   Slate & Shells   718   718   Slate & Shells   71	Salt water	1120	feet	feet	708 FE	et 48 inchi	csfeet	INCHES
Sand   Coal   24   28   28   28   28   28   28   28	Formation	Color		, Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand   Coal   24   28   28   28   28   28   28   28	Surface		V Marine Control (1970)	0	10	Water 28°	*	
24	Sand			. 10	4			
Sand Slate Slate Slate Sand Slate Sand Slate & Shells Coal Slate & Shells Coal Slate & Shells Sl	201	*		24		Water 710'	bailers per	hour
Slate Sand 170 386 440 Hole full water 1120' 386 28 440 440 450 589 589 580 589 580 589 581 581 589 591 620 624 624 626 624 626 624 627 M 628 1942' increased to 24/10 W3" 465 M 624 650 624 650 624 650 625 627 M 628 1942' increased to 24/10 W3" 465 M 628 650 650 708 712 790 708 712		and distribution	-		18			
Sand   Slate   Sand   Slate   Shells	· ·			142	il .	Show gas & 0	il llo3º	
Slate Sand							,	<b>a</b>
Sand Slate & Shells (490 589 591 589 591 591 591 620 624 624 624 624 625 1910', increased to 24/10 W3" 465 M 624 690 708 712 708 712 708 712 709 625 709 626 627 627 M 627 627 M 628 1910', increased to 24/10 W3" 502 M 708 712 708 712 709 627 M 628 1942' increased to 24/10 W3" 502 M 708 712 708 712 709 628 3385', 4/10 W 1" 21 M 709 708 712 709 708 712 709 708 712 709 709 709 709 709 709 709 709 709 709						Hole full wa	ter 1120'	
Shate & Shells	Sand	n-		440				
Slate   Section   Sectio	Slate & She	Lls				Show gas 18	31	et
Coal Sand Sand Sand Salate & Shells	Coal			589	591			
Coal Sand Sand Sand Salate & Shells	Slate			591	620	Gas 1901', 1	4/10 W 2" 20	7 M
Sand Slate & Shells Coal Slate & Shells Coal Slate & Shells Tob Sand Slate & Shells Slate & Shel	Coal				624	Gas 1910', i	ncreased to	24/10 W3" 465 M
Slate & Shells   690   708   712   712   790   712   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712   790   712	Sand				690	Gas 1942 1m	creased to 3	2/10 W 3" 537 M
Slate & Shells	Slate & Shel	Lls		690	708			
Sand Slate & Shells Sand Slate & Shells Sand Salt Sand Salt Sand Slate & Shells S	Coal			708	712			
Sand Slate & Shells Sand Salt Sand Salt Sand Slate & Shells Slate	Slate & Shel	ļls —		71.2	790	Gas 3385°, 4	/10 W 1" 21 1	1
Sand Salt Sand   1082   1242   1300   1368   1368   1368   1368   1368   1458   1596   1648   1665   1648   1665   1732   1765   1778   1804   1778   1804   1807					818			
Sand Salt Sand   980   1082   1242   1300   1242   1300   1368	Slate & She	ls			980	Test before	acidized 34/1	LO W 3" 553 M
State & Shells	i			980		Acidized 7-5	-56 with 2000	) gallons acid
Hard Sand 2   State & Shells   1368   1458   158   1596   1596   1596   1596   1648   1596   1648   1665   1665   1732   1765   1732   1765   1778   1804   1807   1807   1807   1952   1952   2030   Shell   1368   1368   1458   1368   1458   1458   1596   1596   1596   1596   1648   1596   1648   1665   1732   1765   1778   1807   1952   1952   2030   Shell   1752   2030   2062   1765   1765   1765   1765   1765   1778   1807   1952   1952   1952   2030   2062   1765   1765   1765   1765   1765   1765   1778   1807   1952   195						Test after a	cidized 100/1	LO Merc. 2º
State & Shells   1368   1458   1596   Shot 4/10 W 1* 21 M   1596   Shot 9-4-56 with 6,666-2/3# Gelatin   1596   1648   1665   1648   1665   Test 1 hour after shot 70/10 W 2* 353 M   1665   1732   Test 20 hours after shot 10/10 W 2* 133M   1732   1765   1778   1804   Final Open Flow - 60/10 M - 2*   1804   1807   1807   1952   2030   Shell   2030   2062   2062						1,555 M		
Sand 5   1458   1596   1648   1596   1648   1648   1648   1648   1665   1648   1665   1648   1665   1648   1665   1665   1665   1732   1765   1765   1778   1804   1807   1807   1952   1952   2030   Shell   1765   1762   1765   1765   1765   1807   1952   1952   2030   2062   1765   1765   1765   1765   1765   1778   1807   1952   1952   2030   2062   1807   1952		1 · · · · ·			1368			e e e
Slate & Shells		ls.			1458			
Red Rock   1648   1665   Test 1 hour after shot 70/10 W 2m 353 M   1732   Test 20 hours after shot 10/10 W 2m 133M   1765   1765   1778   1804   1807   1807   1807   1952   2030   Shell	wared.				1596	Shot 9-4-56	with 6,666-4/	3# Gelatin
State & Shells		lls		1596	1648	from 3285-4	2651	
Maxon Sand Slate & Shells 1765 1778 1804 1807 1952 1952 Shell 1785 1807 1952 2030 Shell	Red Rock			1648	1665	Test 1 hour	after shot 70	)/low 2 353 m
1765   1778   1804   FINAL OPEN FLOW - 1,205 M - Big Lm. & Shale 48 Hr. R.P. 450#   1807   1952   2030   2062     1804   2030   2062	Slate & Shel	ls		1665	1732	Test 20 hour	s after shot	10/10 W 2" 133M
Little Lime Pemcil Cave Big Lime Big Injun Shell  1778  1804 1807 1952 2030 2062  FINAL OPEN RLOW - 1,205 M - Big Lm. & Shale 48 Hr. R.P. 450#	The second secon		10 % 7 % K	1732	1765	Final Open R	low - 60/10 N	1 - 2"
Little Lime   1778		1s > 3/200	15 X 26 X	1765	1778	HARROY &	3 (4) X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pemcil Cave     1804     1807     Shale     48 Hr. R.P. 450#       Big Lime     1807     1952       Big Injun     1952     2030       Shell     2030     2062				1778			1.000 - 1.205	I - Big Lm. &
Big Lime Big Injun Shell 1807 1952 2030 2030 2062	Pencil Cave	<i>1</i> 8 /	096, 1910 - J			Shale 48	Hr. R.P. 450	
Big Injun 3 1952 2030 Shell 2030 2062	Big Lime	To the second			20 Th Maria		•	
Shell 2030 2062	Big Injun 🕄		18	1952				
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	Slate & Shel	ls \	Fr. dr. mada (18)			1 100 1/2 100 100		

Shell	Formation	Color	Hard or Soft	Top 8	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shelle	ne representativamento y situate es promedicirios relacionidades (no ficial da sussigna	elaktivityterpismissidetrikkojuvolaativaanilikistoideksideksideksi		SPANNACIONAL SPONSO PAR CONTROLET CARROLLE SE CONTROLET CONTR		GENERAL MATERIAL DESIGNATION AND ARTHUR DESIGNATION OF THE PROPERTY OF THE PRO		extremination in income that an advantage of the contract of t
Brown Shale   2532   2553	Big Shell Slate & She			21.53		Shut in	10411-56 in	7" casing
Shell State & Shells   2551   2552   2550	Brown Shale			2532 ·	2553	Unable t	o tube due t	o half of
Stock	Shell	77.0		2561	2592	packer l	eft in well	when pulling
Brown Shale   1,188   1,267	Brown Shale			3550	3830			
Total Depth (2)  1261  3 0 0 6	Brown Shale			4188	4188 4267			
4267 1261 -3006				4267		2597	• ·	
4267 1261 -3.066	Propried Control				20 A S	120		
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	ti igaan muuquu saan ka maa ka ma	Patta Capit doury dannes esplos process with which and 1200 payments					\$	MINISTER THE STREET OF THE STREET

	Date	No	vember	30		1956
APPROVED_	UNITED	FUEL G	AS COMF	YMA'		. Owner
A Pr	A JAK		Len	ell	2	,
. ال فيك			(Title)		47	

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES



OIL AND GAS WELLS DIVISION

DIL 1 GAS DIVISION

## AFFIDAVIT OF PLUGGING AND FILLING WEST. OF MINES AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE

Well No. 8389  U.F.G. Min. Tr. #1  STATE INSPECTOR SUPERVISING PLUGGING. Arthur St. Clair  AFFIDAVIT  STATE OF WEST VIRGINIA,  County of Logan  Steve Salmons and Glasco Barrett  being first duly sworn according to law depose and say that they are experience	harlest	
ADDRESS  COMPLETE ADDRESS  NOVEMBER 1  COAL OPERATOR OR OWNER  ADDRESS  LOGAN  LEASE OR PROPERTY OWNER  Well No. 8389  ADDRESS  U.F.G. Min. Tr. #1  STATE INSPECTOR SUPERVISING PLUGGING. Arthur St. Clair  AFFIDAVIT  STATE OF WEST VIRGINIA,  County of Logan  Steve Salmons  and Glasco Barrett  being first duly sworn according to law depose and say that they are experience	ATION	
Chapmanville  Logan  Lease on Property owner  Well No. 8389  U.F.G. Min. Tr. #1  STATE INSPECTOR SUPERVISING PLUGGING. Arthur St. Clair  AFFIDAVIT  STATE OF WEST VIRGINIA,  County of Logan  Steve Salmons and Glasco Barrett  being first duly sworn according to law depose and say that they are experience		District County
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being first duly sworn according to law depose and say that they are experience		
being first duly sworn according to law depose and say that they are experience		
	ced in the	work of
plugging and filling oil and gas wells and were employed by Columbia Gas 7		
plugging and filling oil and gas wells and were employed by Columbia Gas well operator, and participated in the work of plugging and filling the above we	ell, that sa	id work
was commenced on the 27 day of August , 19 84, and that the		-1
and filled in the following manner:	e well was	prugged
BAND OR ZONE RECORD FILLING MATERIAL PLUGS USED	CAS	SING
FORMATION Top of Cavings @ 2300 " SIZE & KIND	CSG PULLED	CSG LEFT IN
	1340'	507'
.082-1242' Rock & Clay 2200-2055' 8**	640'	138'
g Lime Cement 2055-1915' 10 3/4"		12'
.807-1952' Rock & Clay 1915-1875'		14
niun Rip 7" casing 1535-1340'		
.952-2030' Pulled 1340' of 7" casing		
erea Cavings 1340-1328'		
2553-2561' Rock & Clay 1328-1290'		
cown Shale		
Own Share   Cement 1290-1236		
25.51 42.673		
NOCK & CIAY 1230-1000		
Cement 1060-1000'		
Cement 1060-1000'  Rock & Clay 1000-780'		
Cement 1060-1000'  Rock & Clay 1000-780'  Ripped 8" csg. 745-640'		
Cement 1060-1000'  Rock & Clay 1000-780'  Ripped 8" csg. 745-640'  Pulled 640' of 8" casing		
Cement 1060-1000'  Rock & Clay 1000-780'  Ripped 8" csg. 745-640'	11-2	5-84
Cement 1060-1000'  Rock & Clay 1000-780'  Ripped 8" csg. 745-640'  Pulled 640' of 8" casing  Cement 780-740'  COAL SEAMS ROCK & Clay 740-635'  DESCRIPTION OF THE PROPERTY OF		
Cement 1060-1000'  Rock & Clay 1000-780'  Ripped 8" csg. 745-640'  Pulled 640' of 8" casing  Cement 780-740'  COAL SEAMS ROCK & Clay 740-635'  DESCRIPTION OF THE PROPERTY OF	OF MONUMEN	VT
Cement 1060-1000'  Rock & Clay 1000-780'  Ripped 8" csg. 745-640'  Pulled 640' of 8" casing  Cement 780-740'  COAL SEAMS Rock & Clay 740-635'  DESCRIPTION (18) 24-28 (4')  Cement 635-550' 30" Riser with	of MONUMEN stainl	ess ste
Cement 1060-1000'  Rock & Clay 1000-780'  Ripped 8" csg. 745-640'  Pulled 640' of 8" casing  Cement 780-740'  coal seams Rock & Clay 740-635'  DESCRIPTION (4E) 24-28 (4") Cement 635-550' 30" Riser with	of Monumer stainl Well 83	ess ste 89, Per

Logan 538

Permit NoLOG-0450538P