

### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL O CES DIVISION

## Oil and Gas Division DEPT. OF MINES

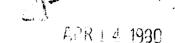
Quadrangle Bens Run 7½  Permit No. 47-095-0668	A E F F	RECORD	13	Cable_xx Recycling	Comb Storage
Fermit No. <u>+7-077</u> -0008				Disposal	Kind)
Company Security Gas & Oil Inc.					KIIIC
Address 417% Second Street St.	Marys,	W. Va. Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Middle Island		C:		<del></del>	
Well No. 1 Elev.	757	Size 20-16			
District Union County Tyles		Cond.			
The surface of tract is owned in fee by H. (G. E. Lethey	2. &	13-10"			
G. E. Lathey  Address Friendly, W. Va.		9-8/8x 10 3,		203	Cement to Surface
Mineral rights are owned by Same	Andrew Control of the	8 5/8 7	899	899	
Address Same		5 1/2	1610	kake P	ulled
Orilling Commenced 8-16-78	**************************************	4 1/2	26.06	2000	050 0
Orilling Completed 10-5-78		3	2676	2676	250 Sacks
nitial open flow 30,000 cu. ft. 7	bbls.	x3x 1½	2630	2630	No Cement
Final production 30.000 cu. n. per day	bbis.	Liners Used	1	120,0	NO COMENT
Vell open 24 hrs. before test 870	) RP				
Voll treatment details:		Attach copy of	cementing	- d	
Perforations 2592 - 259	8 %Hole	es (12)	500 Gal		1 1100 Col Water
50,000# 2040 Sand 25	Gal. A		25 Gal 15		1,400 Gal Water Gal. Cla Stay
350# WAC 10 600# WG12		The second secon			dare ora boay
* ***	Control of the section of the sectio				
		and the second		**************************************	
oal was encountered at 0	Feet	0	Inche	·	
resh water 45 Feet		Salt V	Vater	10	Feet 0
reducing Sand Gordon,		Depth			rect
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water	Remarks
Clay Red Soft	0	1.6			
Sandstone Gray Hard	40	40 50			
Shale Gray Soft Sand White Hard	50	lío			
Chal	110	190			
Company of the compan	190	193			
Shale Red Soft	193 211	211			
Shale Gray Soft	217	217 279			
Shale Red Soft	279	320			
Shale Gray Hard Shale Red Soft	279 320 367	367			
Shale Gray Soft	367 300	377			
Chal	377 546	546			
Shale Gray Hard	561	<b>561</b> 580			
Shale Red Soft	580	694			
Shale Gray Hard	594	710			
Shale Gray Hard Shale Red Soft	5 <b>94</b> 710	710 803			
Shale Gray Hard Shale Red Soft Shale Gray Soft Shale Red Soft	594 710 303	710 803 845			
Shale Gray Hard Shale Red Soft Shale Gray Soft Shale Red Soft Shale Gray Soft	594 710 3 <b>0</b> 3 3 <b>4</b> 5	710 803 845 8 <b>64</b>			
Shale Gray Hard Shale Red Soft Shale Gray Soft Shale Red Soft Shale Red Soft Shale Gray Soft Sand White Hard	594 710 303	710 803 845 864 880			
Shale Gray Hard Shale Red Soft Shale Gray Soft Shale Red Soft Shale Gray Soft Shale Gray Soft Sand White Hard Shale Gray Hard	594 710 303 345 364	710 803 845 8 <b>64</b>			

Shale   Gray   Boft   1069   1134     Lime   Gray   Hard   1134   1139     Shale   Gray   Hard   1134   1139     Shale   Gray   Hard   1139   1176     Sand   White   Soft   1176   1205     Shale   Gray   Soft   1205   1258     Shale   Gray   Soft   1263   1298     Shale   Gray   Soft   1298   1315     Shale   Gray   Soft   1315   1413     Shale   Gray   Hard   1413   1460     Shale   Gray   Hard   1505   1557     Shale   Gray   Soft   1557   1572     Lime   Brown   Hard   1674   1654     Shale   Gray   Hard   1666   1816     Shale   Gray   Hard   1666   1816     Shale   Gray   Soft   1950     Shale   Gray   Soft   1950     Shale   Gray   Soft   2126   2168     Shale   Gray   Soft   2126   2168     Shale   Gray   Soft   2210   2270     Shale   Gray   Soft   2280   2294     Shale   Gray   Soft   2294   2402     Shale   Gray   Soft   2402   2426     Shale   Gray   Gray   Hard   2426   2550     Shale   Gray   Hard   2426   2550     Shale   Gray   Hard   2426   2550     Shale   Gray   Hard						
Shale   Gray   Boft   1069   1134   1139   1176   1139   1176   1205   1258   1263   1264	Formation	Color	Hard or Bott	Top Feet />	Bottom Feet	Oil. Gas or Water Remarks
Shale   Gray   Hard   Shale   Gray   Soft   Shale   Gray   Soft	Sand		Hard	1009	1069	
Shale   Gray   Hard   1134   1139   1176   1205   1258   1263   1258   1263   1258   1263			Soft			
Sand White Soft 1176 Shele Gray Soft 1205 1258 Sand White Soft 1258 1263 Shele Gray Soft 1205 1258 Shele Gray Soft 1263 1298 Shale Gray Soft 1298 1315 Shele Gray Soft 1315 1413 Shele Gray Soft 1315 1413 Shele Gray Soft 1460 1505 Shale Gray Hard 1505 1557 Shale Gray Hard 1505 1557 Lime Brown Hard 1572 1647 Shale Gray Soft 1557 1572 Lime Brown Hard 1654 1666 Shale Gray Hard 1664 1816 Shale Gray Hard 1666 1816 Shale Gray Soft 1816 1926 Shale Gray Soft 1950 2000 Shale Gray Soft 1950 2000 Shale Gray Soft 2126 Shale Gray Soft 2200 2280 Shale Gray Soft 2200 2294 Shale Gray Soft 2200 2578 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605				1134	1139	
Sand White Soft 1176 1205 Shele Gray Soft 1205 1258 Shele Gray Soft 1205 1258 Shale Gray Soft 1263 1298 Shale Gray Soft 1263 1298 Shale Gray Soft 1298 1315 Shale Gray Soft 1315 1413 1460 Shale Gray Soft 1460 1505 Sand Gray Hard 1505 1557 Shale Gray Soft 1557 1572 Lime Brown Hard 1572 1647 Shale Gray Hard 1664 1666 Shale Gray Hard 1666 1816 Shale Gray Hard 1666 1816 Shale Gray Soft 1816 1926 Shale Gray Soft 1950 2000 Shale Gray Soft 1950 2000 Shale Gray Soft 2126 2168 Shale Gray Soft 2126 Shale Gray Soft 2210 2270 Shale Gray Soft 2210 2270 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2402 Shale Gray Soft 2402 Shale Gray Soft 2402 Shale Gray Soft 2550 2578 Shale Gray Hard 2426 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605				1139	1176	
Shale   Gray   Soft   1205   1258   1268				1176		
Sand White Soft 1258 1263 1298				1205		
Sand   Gray   Soft   1298   1315   1413   1460   Shale   Gray   Soft   1315   1413   1460   1505   1557   1557   1557   1557   1557   1572   1647   Shale   Gray   Hard   1647   1654   1666   Shale   Gray   Hard   1666   1816   1926   Shale   Gray   Hard   1666   1816   1926   Shale   Gray   Soft   1816   1926   Shale   Gray   Soft   1950   2000   Shale   Gray   Soft   1950   2000   Shale   Gray   Soft   2126   2168   Shale   Gray   Soft   2210   2270   Shale   Gray   Soft   2280   2294   Shale   Gray   Soft   2280   2294   Shale   Gray   Soft   2294   2402   Shale   Gray   Soft   2402   2426   Shale   Gray   Gray   Soft   2402   2426   Shale   Gray   Gray					1263	
Shale   Gray   Soft   1315   1413   1460   Show Oil   1729   Gas   1885   Shale   Gray   Hard   1413   1460   1505   1557   1572   1647   Shale   Gray   Soft   1557   1572   1647   Shale   Gray   Hard   1647   1654   1666   Shale   Gray   Hard   1654   1666   1816   1926   Shale   Gray   Soft   1816   1926   Shale   Gray   Soft   1950   2000   Shale   Gray   Soft   2126   2168   Shale   Gray   Soft   2126   2168   Shale   Gray   Soft   2210   2270   Shale   Gray   Soft   2280   2294   Shale   Gray   Soft   2280   2294   Shale   Gray   Soft   2402   2426   Shale   Gray   Soft   2402   2426   Shale   Gray   Soft   2402   2426   Shale   Gray   Soft   2550   2578   Shale   Gray   Gray   Soft   2550   Shale   Gray   Gray   Soft   2550   2578   Shale   Gray   Gray						
Sand Gray Hard 1413 1460 1505 15810 Wolf 1729 Gas 1885 Shale Gray Soft 1460 1505 1557 1572 1572 1647 Shale Gray Soft 1557 1572 1647 Shale Gray Hard 1654 1666 1816 1926 Shale Gray Hard 1666 1816 1926 Shale Gray Soft 1816 1926 Shale Gray Soft 1950 2000 Shale Gray Soft 2126 2168 Shale Gray Soft 2126 2168 Shale Gray Soft 2210 2270 Shale Gray Soft 2210 2270 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2426 2550 2578 Shale Gray Soft 2578 2605						Show 0il 1686
Shale Gray Hard 1413 1460 1505 1557 1572 1572 1572 1647 1572 1647 1654 1666 1816 1816 1926 1818 1818 1818 1818 1818 1818 1818 18						
Sand Gray Hard 1505 1557 1572 Lime Brown Hard 1572 1647 1654 1666 Sand & Lime Gray Hard 1654 1666 Sand Gray Hard 1666 1816 1926 Sand & Shale Gray Hard 1666 1816 1926 Sand & Shale Gray Soft 1950 2000 Sand & Shale Gray Soft 2126 2168 Sand & Shale Gray Soft 2210 2270 Shale Gray Soft 2210 2270 Shale Gray Soft 2280 2294 Sand & Shale Gray Hard 2280 2294 Shale Gray Soft 2402 2402 Shale Gray Soft 2402 2426 Sand & Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Sand & Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605						
Shale Gray Soft 1557 1572 1647  Lime Brown Hard 1572 1647  Sand & Lime Gray Hard 1654 1666  Shale Gray Hard 1664 1816  Shale Gray Hard 1666 1816  Shale Gray Soft 1816 1926  Shale Gray Soft 1950 2000  Shale Gray Soft 2200 2126  Shale Gray Hard 2000 2126  Shale Gray Soft 2126 2168  Shale Gray Hard 2168 2210  Shale Gray Soft 2210 2270  Shale Gray Hard 2270 2280  Shale Gray Hard 2294 2402  Shale Gray Soft 2402 2426  Shale Gray Soft 2402 2426  Shale Gray Soft 2402 2426  Shale Gray Soft 2550 2578  Shale Gray Hard 2578 2605						
Lime Brown Hard 1572 1647  Sand & Lime Gray Hard 1647 Shale Gray Hard 1654 1666 Sand Gray Hard 1666 1816 Shale Gray Soft 1816 1926 Sand & Shale Gray Soft 1950 2000 Shale Gray Soft 2126 2168 Shale Gray Soft 2126 2168 Shale Gray Hard 2168 2210 Shale Gray Soft 2210 2270 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Soft 2578 2605						•
Sand &   Lime   Gray   Hard   1647   1654   1666   1816   1816   1926   1816   1926   1950				1557		
Lime Gray Hard 1647 1654 1666 Shale Gray Hard 1666 1816 1926 Shale Gray Soft 1816 1926 Shale Gray Soft 1816 1926 Shale Gray Soft 1950 2000 Shale Gray Soft 2126 2168 Shale Gray Soft 2126 2168 Shale Gray Soft 2210 2270 Shale Gray Soft 2210 2270 Shale Gray Soft 2210 2270 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605		DT.OMII	nard	1572	1647	
Shale Gray Hard 1654 1666 1816 1926 Sand Gray Hard 1666 1816 1926 Sand & Shale Gray Soft 1950 2000 Shale Gray Soft 1950 2000 Shale Gray Soft 2126 2168 Shale Gray Soft 2126 2168 Shale Gray Soft 2126 2168 Shale Gray Soft 2210 2270 Shale & Shale Gray Hard 2068 2210 2270 Shale & Sand & Shale Gray Soft 2210 2270 Shale & Sand Gray Hard 2270 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605		Gnow	Ta-2	3640	2000	
Sand Gray Hard 1666 1816 Shale Gray Soft 1816 1926 Shale Gray Hard 1926 1950 Shale Gray Soft 1950 2000 Shale Gray Hard 2000 2126 Shale Gray Soft 2126 2168 Shale Gray Hard 2168 2210 Shale Gray Soft 2210 2270 Shale Gray Hard 2270 2280 Shale Gray Hard 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Hard 2426 2550 Shale Gray Hard 2426 2550 Shale Gray Soft 2578 Shale Gray Soft 2578						· ·
Shale Gray Soft 1816 1926 Sand & Shale Gray Hard 1926 1950 Shale Gray Soft 1950 2000 Shale Gray Soft 1950 2000 Shale Gray Hard 2000 2126 Shale Gray Soft 2126 2168 Shale Gray Hard 2168 2210 Shale Gray Soft 2210 2270 Shale & Sand Gray Hard 2270 2280 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2426 2550 Shale Gray Soft 2550 2578						
Sand & Shale Gray Hard 1926 1950 2000 Sand & Shale Gray Soft 1950 2000 Sand & Shale Gray Hard 2000 2126 2168 Shale Gray Soft 2126 2168 Shale Gray Hard 2168 2210 2270 Shale & Gray Soft 2210 2270 Shale & Sand Gray Hard 2270 2280 3318 Gray Soft 2280 2294 3318 Gray Hard 2294 2402 2426 3318 Gray Soft 2402 2426 3318 & Gray Soft 2402 2426 3318 & Gray Soft 2402 2426 3318 & Gray Soft 2550 2578 3318 & Gray Soft 2578 2505 3318 & Gray Hard 2578 2505						
Shale Gray Soft 1950 2000 Shale Gray Soft 1950 2000 Sand & Shale Gray Hard 2000 2126 Shale Gray Soft 2126 2168 Shale Gray Hard 2168 2210 Shale Gray Soft 2210 2270 Shale & Sand Gray Hard 2270 2280 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605		O. a.y	DOT (	1010	1926	. 4
Shale Gray Hard 2000 2126 2168 Shale Gray Hard 2168 2210 2270 Shale Gray Soft 2210 2270 Shale Gray Soft 2210 2270 Shale Gray Soft 2280 2294 Shale Gray Soft 2280 2294 Shale Gray Soft 2294 2402 2426 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605		Grav	Homd	1026	1050	• • · · · · · · · · · · · · · · · · · ·
Sand & Shale Gray Hard 2000 2126 2168 Sand & Shale Gray Soft 2126 2168 Sand & Shale Gray Hard 2168 2210 2270 Shale & Sand Gray Hard 2270 2280 Shale & Sand Gray Hard 2270 2280 2294 Sand & Shale Gray Soft 2280 2294 Shale Gray Soft 2402 2426 Shale Gray Soft 2402 2578 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605						4
Shale         Gray         Hard         2000         2126           Shale         Gray         Soft         2126         2168           Shale         Gray         Hard         2168         2210           Shale         Gray         Soft         2210         2270           Shale         Gray         Hard         2270         2280           Shale         Gray         Soft         2280         2294           Shale         Gray         Hard         2294         2402           Shale         Gray         Soft         2402         2426           Shale         Gray         Hard         2426         2550           Shale         Gray         Soft         2550         2578           Shale         Gray         Hard         2578         2605		ora,	5010	. 1950	2000	
Shale Gray Soft 2126 2168  Sand & Shale Gray Hard 2168 2210  Shale Gray Soft 2210 2270  Shale & Sand Gray Hard 2270 2280  Shale Gray Soft 2280 2294  Shale Gray Hard 2294 2402  Shale Gray Soft 2402 2426  Shale Gray Hard 2426 2550  Shale Gray Soft 2550 2578  Shale Gray Hard 2578 2605		Grav	Hervi	2000	2126	
Shale Gray Hard 2168 2210 Shale Gray Soft 2210 2270 Shale & Sand Gray Hard 2270 2280 Shale Gray Soft 2280 2294 Sand & Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Hard 2426 2550 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605						
Shale Gray Hard 2168 2210 Shale & Gray Soft 2210 2270 Shale & Sand Gray Hard 2270 2280 Shale Gray Soft 2280 2294 Sand & Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Hard 2426 2550 Shale Gray Soft 2578 Shale Gray Hard 2578 2605		<b>4.4.</b>	2010	2120	5100	
Shale Gray Soft 2210 2270 Shale & Sand Gray Hard 2270 2280 Shale Gray Soft 2280 2294 Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Hard 2426 2550 Shale Gray Soft 2550 2578 Shale Gray Soft 2550 2578 Shale Gray Hard 2578 2605		Grav	Hard	2168	2210	
Shale & Sand Gray Hard 2270 2280 2294 2402 2402 2402 2402 2402 2426 2402 2426 2500 2578 2500 2578 2500 2578 2500 2578 2500 2578 2500 2578 2500 2578 2500 2578 2500 2578	Shale					
Shale Gray Soft 2280 2294 Sand & Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Hard 2426 2550 Shale Gray Soft 2550 2578 Sand & Convert Shale Gray Hard 2578 2605	Shale &		2010	2210	22/0	
Shale Gray Soft 2280 2294 Sand & Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Hard 2426 2550 Shale Gray Soft 2550 2578 Sand & Conver	Sand	Gray	Hard	2270	2280	
Shale Gray Hard 2294 2402 Shale Gray Soft 2402 2426 Shale Gray Hard 2426 2550 Shale Gray Soft 2550 2578 Sand & Gonos Hard 2578 2605	Shale					
Shale         Gray         Soft         2402         2426           Sand &         Shale         Gray         Hard         2426         2550           Shale         Gray         Soft         2550         2578           Shale         Gray         Hard         2578         2605	Sand &	Ü				
Shale         Gray         Soft         2402         2426           Sand & Shale         Gray         Hard         2426         2550           Shale         Gray         Soft         2550         2578           Shale         Gray         Hard         2578         2605		Gray	Hard	2294	2402	
Sand & Shale Gray Hard 2426 2550 Shale Gray Soft 2550 2578 Sand & Gonos N Hard 2578 2605	Shale		Soft			·
Shale Gray Soft 2550 2578 Sand & Gonos W Shale Gray Hard 2578 2605	Sand &	_			0	
Shale Gray Soft 2550 2578 Send & Gonoe N Shale Gray Hard 2578 2605		Gray	Hard	2426	2550	
Shale Gray Hard 2578 2605	Shale	Gray	Soft	i		
Shale Gray Hard 2578 2605	Sand & G	ORDEN				
	Shale	Gray	Hard	2578	2605	
	Shale	Gray	Soft	2605		Show 0il 2591
				er en	The contract of the contract o	
			***	A STANSON OF THE STAN	3	
						en al de la companya de la companya La companya de la co
			e e	e de la companya de l	Petropole	
			<b>₩</b>		Romans) og	and the second s
			R-PARKEL,		And the second	
			N. S.	T-mapped Ly		et.e™ L
				Í		
			¥			
					1	;

APPROVED Date Control of St.

H. Mai Lendert angelichen.





#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL 5 673 6(7)5.61

## Oil and Gas Division DEPT. OF MINES

WELL RECORD 13 Rotary\_ Oil\_\_ Cable\_xx Quadrangle Bens Run 71/2 Gas\_ Recycling Comb. Water Flood\_ Storage\_ Permit No. 47-095-0668 Disposal\_\_\_ (Kind) Company Security Gas & Oil Inc. Casing and Address 417% Second Street Used in Left St. Marys, W. Va. Tubing Cement fill up Fan E.&H. C. Lathey Drilling in Well Cu. ft. (Sks.) Location (waters) Middle Size Well No .\_ Elev. 20.16 District Union County Tyler Cond. The surface of tract is owned in fee by H.C. R. 13-10" G. E. Lathey 9 x 10 3/4 Cement to Surface <u> 203</u> 203 Address Friendly, W. Va. 899 899 Mineral rights are owned by Same 1610 1610 Pulled Address Same 5 1/2 Ocilling Commenced 8-16-78 4 1/2 2676 2676 250 Sacks Drilling Completed 10-5-78 nitial open flow 30,000 cu. ft. 7 11/2 2630 \_\_ bbls. 2630 No Cement final production 30,000 cu. ft. per day 7 Liners Used Vell open 24 hrs. before test 870 RP. Vell treatment details: Attach copy of cementing record. Perforations 2592 - 2598 ½Holes (12) 500 Gal HCL 71,400 Gal Water 25 Gal. Anacide 50.000# 2040 Sand 25 Gal 15N 25 Gal. Cla Stay 600# WG12 350# WAC 10 oal was encountered at. 0 Feet\_ - Inches resh water\_\_\_ Feet \_\_ \_\_\_ Salt Water\_ reducing Sand Gordon 2587-2605 Depth Formation Color Hard or Soft Top Feet Bottom Feet Oil, Gas or Water \* Remarks Clay Red Soft 0 40 Sandstone Gray Hard 40 50 Shale Gray Soft 50 110 Sand White 110 Hard 190 Shale Gray Hard 190 193 Sand White Hard 193 211 Shale Red Soft 211 217 Shale Gray Soft 217 Shale Red Soft 320 Shale Gray Hard 367 Shale Red Soft Shale Gray Soft Shale Red Soft 561 Shale Gray Hard 561 580 Shale Red 580 Soft 694 Shale Gray Hard 694 710

(over)

803

845

864

880

888

954

961

1009

710

803

845

864

880

888

954

961

Soft

Soft

Soft

Sort

Hard

Hard

Hard

Hard

Red

Gray

Red

Gray

Gray

Gray

Gray

White

Shale

Shale

Shale

Shale

Sand

Sand

Shale

Shale

				A. 2	
Formation	Color	Hard or Soft	Top Feet />	Bottom Feet	Oil. Gas or Water Remarks
Sand	White	Hard	1009	1069	
Shale	Gray	Soft	1069	1134	·
Lime	Gray	Hard			1
Shale	Gray		1134	1139	
Sand	White	Hard	1139	1176	
Shale		Soft	1176	1205	
	Gray	Soft	1205	1258	
Sand	White	Soft	1258	1263	
Shale	Gray	Soft	1263	1298	
Sand	Gray	Soft	1298	1315	Show 0il 1686
Shale	Gray	Soft	1315	1413	Show 0il 1729
Sand	Gray	Hard	1413	1460	Gas 1885
Shale	Gray	Soft	1460	1505	200)
Sand	Gray	Hard	1505	1557	
Shale	Gray	Soft	1557	1572	
Lime	Brown	Hard	1572	1647	
Sand &			->/-	10-7	
Lime	Gray	Hard	1647	7654 l	,
Shale	Gray	Hard		1654	
Sand			1654	1666	
Shale	Gray	Hard	1666	1816	
	Gray	Soft	1816	1926	1 A
Sand &				1	•
Shale	Gray	Hard	1926	1950	
Shale	Gray	Soft	. 1950	2000	
Sand &				4	
Shale	Gray	Hard	2000	2126	
Shale	Gray	Soft	2126	2168	
Sand &				-200	,
Shale	Gray	Hard	2168	2210	
Shale	Gray	Soft	2210		
Shale &	Gray	5010	2210	2270	
Sand	Cmar	773	0000	0000	
	Gray	Hard	2270	2280	
Shale	Gray	Soft	2280	2294	
Sand &			Į	1	
Shale	Gray	Hard	2294	2402	
Shale	Gray	Soft	2402	2426	
Sand &					
Shale	Gray	Hard	2426	2550	
Shale	Gray	Soft	2550	2578	
Sand &			-)/-	-5/0	
	Gray	Hard	2578	2605	
Shale	Gray	Soft	2605	2764 TD	Short Odd OFOR
	<b> </b>	2010	2009	2/04 IP	Show 0il 2591
		ļ		Ĭ	
		į			
			•		
					•
		ł		į	
				1	
		1		ļ	
		•	<b>Handari</b>		
123 1 124 - 125 - 126 - 127 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 128 - 1	asari	1	#7 Money		
		19 P	l		
		ECHNOLIS TO		ĺ	
		1			
		a de la companya de l			
			ŀ		
			I	l	
	William Color		1		

APPROVED Date Control of SC

By their facility application.



STATE OF WEST VIRGINIA

#### **DEPARTMENT OF MINES**



# DECEIVE AUG 0 2 1978 EFT. OF MINES OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston W Va	
Charleston, W. Va.	DATE August 1, 1978
Surface Owner H. C. & G. E. Lathey Address Rt. #1, Friendly, W. Va.	Company Security Gas & Oil Co. Inc. 100 Bush St. Suite 2301 Address San Francisco. Ca. 9/10/
Mineral Owner Same	***
Address Same	Farm H. C. Lathey Acres 197.42 (1) Location (waters) Middle Island
Coal Owner Same	
	Dievation 170.
AddressN/A Coal OperatorN	District Union County Tyler  Quadrangle Bens Run 7½
Address. S PERMIT MUST BE POSTED AT THE WELL SITE	
provisions being in accordance with Chapter 22,	
the W. Va. Code, the location is hereby approved drilling	INSPECTOR
. This permit shall expire it	TO BE NOTIFIED Philip Tracy
rations have not commenced by 12-3-70	ADDRESS Middlebourne, W.Va.
Orherth bad	ADDICAGO AND
Deputy Director - Oil & Gas Division	PHONE 1-304-758-4573
GENTLEMEN:	
The undersigned well operator is entitled to drill u	apon the above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or	
Lathey made to Frank E. Peth	and recorded on the 11th day of May
1978, in Tyler County, Book	215 Page 433
·	rage 411
NEW WELLDRILL DEEPE	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY D	RILLED BEFORE JUNE 5, 1969.
have been notified as of the above date.	gineer or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received by	hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. *
to make by Section 3 of the Code, must be received by	by, or filed with the Department of Mines within ten (10) days. *  ailed by registered mail, or delivered to the above named coal operators  as day
Copies of this notice and the enclosed plat were ma or coal owners at their above shown respective addre same day with the mailing or delivery of this copy to	by, or filed with the Department of Mines within ten (10) days. *  ailed by registered mail, or delivered to the above named coal operators  as
Copies of this notice and the enclosed plat were made or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL	by, or filed with the Department of Mines within ten (10) days. *  ailed by registered mail, or delivered to the above named coal operators  ss day before, or on the the Department of Mines at Charleston, West Virginia.
Copies of this notice and the enclosed plat were ma or coal owners at their above shown respective addre same day with the mailing or delivery of this copy to	by, or filed with the Department of Mines within ten (10) days. *  ailed by registered mail, or delivered to the above named coal operators  as day before, or on the the Department of Mines at Charleston, West Virginia.  Very truly yours,
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY	ailed by registered mail, or delivered to the above named coal operators alled by registered mail, or delivered to the above named coal operators day
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	Address of  hy, or filed with the Department of Mines within ten (10) days.  ailed by registered mail, or delivered to the above named coal operators are day
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	ailed by registered mail, or delivered to the above named coal operators alled by registered mail, or delivered to the above named coal operators day
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	Address of ell Operator  Address of ell Operator  Department of Mines within ten (10) days.  Address of ell Operator  Department of Mines at Charleston, West Virginia.  Wery truly yours,  Well Operator  Street  100 Bush St., Suite 2301  City or Town
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	ailed by registered mail, or delivered to the above named coal operators alled by registered mail, or delivered to the above named coal operators day
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	Address of ell Operator  San Francisco, Ca, 94104  alled by registered mail, or delivered to the above named coal operators alled by registered mail, or delivered to the above named coal operators before, or on the the Department of Mines at Charleston, West Virginia.  Very truly yours,  Well Operator  Street  100 Bush St., Suite 2301  City or Town
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879  MORGANTOWN, WEST VIRGINIA 26505  AC-304 - 292-6331  *SECTION 3 If no objections are filed or found notice and plat by the department of mines, to said proposed leading to the said proposed leading	by, or filed with the Department of Mines within ten (10) days. *  alled by registered mail, or delivered to the above named coal operators  alled by registered mail, or delivered to the above named coal operators  day
Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331  *SECTION 3 If no objections are filed or found notice and plat by the department of mines, to said proposed I the filing of such plat, that no objections have been made by the	Address of ell Operator  San Francisco, Ca, 94104  alled by registered mail, or delivered to the above named coal operators alled by registered mail, or delivered to the above named coal operators before, or on the the Department of Mines at Charleston, West Virginia.  Very truly yours,  Well Operator  Street  100 Bush St., Suite 2301  City or Town

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

PROPOSED WORK	ORDER TO	DRILL	DEEPEN F	RACTURE-STIMULATE
DRILLING CONTRAC			RESPONSIBLE AGENT:	
	Drilling		NAME Burl W. S	mith
ADDRESS Frank TELEPHONE 614-	E. Pethtel New 473-2839	vport, Ohio 45768		t. Marys, W.Va. 26170 684-7259
	OF COMPLETED WEL			CABLE TOOLS
	ICAL FORMATION:		RUTARY	CABLE TOOLS
TYPE OF WELL:			MD TT CHORACE	<b></b>
TITE OF WEED.	OID			DISPOSAL
	. •	RECICLIN	G WATER FLO	OODOTHER
TĚNTATIVE CASING	PROGRAM:		, i	* * *
CASING AND TUE	DING US	ED FOR	LEFT IN	CEMENT FILL UP
SIZE	DF	RILLING	WELL	OR SACKS - CUBIC FT.
20 - 16			0004	
13 - 10	20	00'	200	65 saoks
9 - 5/8		200		
8 - 5/8 7	160	00*		
5 ½	100	,,,,		
4 ½	280	00*	28001	140 sacks
3				
2				Perf. Top Perf. Bottom
Liners				Perf. Top
				Perf. Bottom
*	×			
APPROXIMATE FRES	SH WATER DEPTHS	125 FEET	SALT WATER _	FEET
		**-	,	•
IS COAL BEING MIN	ED IN THE AREA?	NO	BY WHOM?	
TO DRILL: SUBMIT FIVE ( OF PLAT.	5) COPIES OF OG - 1	, \$100.00 PERMIT	FEE, PERFORMANCE BO	OND AND PERMANENT COPY
TO DRILL DEEPER C	OR REDRILL:			
SUBMIT FIVE ( WELLS DRILLE MUST ALSO BE	D PRIOR TO 1929, A	SHOWING ORIGIN PERMANENT COR	AL PERMIT NUMBER AN PY OF THE PLAT AND T	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
TO FRACTURE - STI		. <b></b>		
BUND, PERMAN	ENT PLAT AND ORIG	INAL WELL RECO	ORD.	COPIES OG - 1, PERFORMANCE
OIL AND/OR GA ING ORIGINAL I	AS WELL ORIGINALLY PERMIT NUMBER, AND	DRILLED ON ANI PERFORMANCE E	D/OR AFTER JUNE 5, 1929 BOND.	9, FIVE COPIES OG - 1, SHOW-
Required forms n four (24) hours i	nust be filed within nine n advance.	ety (90) days of co	mpletion for bond release.	Inspector to be notified twenty-
<b>.</b>				
The following wathereof.	uiver must be completed	d by the coal opera	ator if the permit is to be i	ssued within ten days of receipt
WAIVER: I the under this lease h	signed, Agent foraverage examined and place	on our mine map	Coal Company, Owner this proposed well locati	or Operator of the coal under
				ell being drilled at this location,
providing of Code.	perator has complied with	h all rules and regula	ations in Articles 4, 5, and 7	, Chapter 22 of the West Virginia
			Fo	r Coal Company
			-	Official Title