



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

DECEIVED OCT 2 4 1977

Oil and Gas Division

WELL RECORD3

Quadrangle Charleston East
Permit No. Kan-2778

OIL & GAS E-IVISION

Rotary Coll

Cable Gas XXX

Recycling Comb.

Water Flood Storage

Disposal

1 CI IIII 140					Disposal	(Kind)
Company H. D. Wells Oil & Cas Exp. & Dev. Address P. O. Box 1785 Charleston, W. Va. Farm Acres 2,000 Location (waters) Crouch Hollow			Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) _ Cr	ouch Hollow	_	Size			
Well No. 1-4 Fley 885.82			20-16		,	
District Malden County Kanawha			Cond.	20	20	
The surface of tract is owned in fee by Same		13-10"	300	300	brace Cir. back t	
Address Glanta Ca. 1020 Battle Que.			9.5/8	2250	2250	Surface
			8 5/8	1.000		
Mineral rights are owned	by Same		7	4885	4885] 500 ft. Fil
CLU 129 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z			5 1/2			
Drilling Commenced	(- <u>/</u>) - / /		4 1/2			
Initial open flow 124	000 6		3		-	_
			Liners Used	+		
Final production Same Well open 52hrs	cu. II. per day _	bbls.	Liners Used			_
Well treatment details:	irs. Defore test_	700 KP.	A 1			
Frac 80/100 8	Sond on/in	2004 800°	Attach copy of	cementing reco	ord.	.(000 11
0,000 00/100 0	3010 20/40	auru ouu	mae marer	rearing	res.	4,000 Lbs.
Breakdown Pro	203300.00_	Lbs.				
					····	
Coal was encountered at_	None	¥74				
Fresh water 40	Fa	reet	Salt \		S	
Producing Sand Orink	2		Sait \ Depti	water	····	Feet
			Depti	1 4111		
Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water	* Remarks
Sand	Hard	0	11			
Slate		11	25		100 t = =	
Sand	Hard	25 40	40	of the state of th	Water	
Slate Sand	Mari	40	54	To control of the con		
Slate Crey	Hard Hard	54 120	120			
Sand	Hard	300	300			
Salt Sand	Hard	660	915	The state of the s		
Slate		915	945			
Sand	Hard	945	1185			
Maxon Sand	Hard	1185	1.285			
Slate & Shale	0.77	1285	1355			
Sittle Sime Pennel Cave		1355	1385			
Big Lime		1385	1395			
Big Injun		1395 1545	1545 1580	lington		
Slate & Shells		1580	1795	Water		
weir Sand		1795	1850			
Blate & Shale		18'50	3240			
Light Shale		3240	3300			
Slate & Shells		3300	3500			The state of the s
Shale Slate		3500	3775		•	,
ALGILD .		3775	4370			

⁽over)

Formation Color Hard or Soft	Top Feet }	Bottom Feet	Oil, Gas or Water * Remarks
Slate Black Shale Corniferous Sime	4650 4760 4790	4760 4790 4893 4910	
•		4f920	Cas 11/124,000
	Age Lauron-Augmentura		Service Control of the Control of th
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			paret telagori (h. 1801). Li 180 eta 162 liberare ar en hararen eta 1820 eta 1820 eta 1820. La Bratista este eta 1820 eta 1820 eta 1820.
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Substitution of the second of			

	Date_	Sent.	25	9 77
A PPRO		4(1)	1 40	, Owner
		1.D. Weld		 , Owner
	Ву	1.20.0000	(Title	





Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,				
Charleston, W. Va.	DATE	may 20 th,	1977	
Surface Owner anne Blair Alderson Eta Address 1020 Reachtree Battle Ave		Ω Λ Ω_{res}	Oil & Cas Exp. Wev. 1785	, In
Mineral Owner atlanta Ca. Same		33	ildersonacres 1289.75	
AddressSame		ion (waters) Croud	· ·	
Coal Owner Harry Paxton		No.1-Q	Elevation 885.82	
Address 910 Price St. Charleston,	7. 7		County Kanawha	
Coal Operator None			on East	
AddressSame				
THIS PERMIT MUST BE POSTED AT THE WELL SI	e trope gri-			
All provisions being in accordance with Chapter 2 of the W. Va. Code, the location is hereby approved	ed			*
for <u>drilling</u> . This permit shall expire				
operations have not commenced by 9-19-77	- INSPECTO	R TO BE NOTIFIED	Martin Nichols	Linear Control
75-67- 1 HU	PH: 548	-6993 ADDRESS	<u>Clendenin, W.Va.</u>	one constant
Deputy Director - Grant Gas Division GENTLEMEN:				
The undersigned well operator is entitled to drill u		3 6		
title thereto, (or as the case may be) under grant or				
GGG made to H. O. Wells Oil		•	, ,	
19 in Kanawh County, Book 19			9th. Day Feb. 1976	
XXXXX NEW WELLDRILL DEEPE	R	REDRILL	FRACTURE OR STIMULATE	
OIL AND GAS WELL ORIGINALLY D	RILLED BEFOR	E JUNE 5, 1969.		
The enclosed plat was prepared by a registered en have been notified as of the above date.	gineer or license	d land surveyor and a	ll 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 toy, or filed with	hat any objection the the Department of Mi	y wish to make, or are required nes within ten (10) days. *	
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	ess <u>9th</u>	of Mines at Charleston	before, or on the	9 0 t
	Very tru	ly yours,		
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Nat	me) Well C	perator Triest	
West Virginia Geological and Economic Survey P 0 Box 879	Address	P. (9. Box 1785	
Morgantown, W. Va. 26505	of ell Operator	Charles City or T	ston, W.V ^u .	
• or w ^{all} offs to a	•	w. va.		
	•	w. ou.	te	
DIAMET DOM				

*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.

> KAN-2778 PERMIT NUMBER

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

PROPOSED WORK ORDER	TO Drill DRILL	DEEPEN	FRACTURE-STIMULATE			
DRILLING CONTRACTOR:		RESPONSIBLE AGEN	responsible agent: NAME H. D. Wella ADDRESS P. O. Box 1785 TELEPHONE 346-2829			
NAME Not known at						
ADDRESS						
TELEPHONE	WELL 5 000		-2829 CABLE TOOLS			
PROPOSED GEOLOGICAL F	ompleted well: 5,000 pormation: Orishany	ROTARY	CABLE TOOLS			
TYPE OF WELL:	OIL GAS XXXXXX	COMB STORAG	SEDISPOSAL			
	RECYC	CLING WATER FI	OODOTHER			
TENTATIVE CASING PROG	RAM:					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.			
20 - 16						
13 - 10 13 3/8	300 feet	300 ft.	Back to Surface			
9-5/8 9 5/8	2150 feet -	2150 ft.	60 Sacks 4 centrali			
8 - 5/8	4900 feet	#900 ft.	Float Coll. & Shoe			
5 ½		, ,	Cement Back to 9/58			
4 ½						
3			Perf. Top			
1			Perf. Bottom			
Liners			Perf. Top Perf. Bottom			
OF PLAT. TO DRILL DEEPER OR RE SUBMIT FIVE (5) COP WELLS DRILLED PRI MUST ALSO BE SUBM TO FRACTURE - STIMULAT OIL AND/OR GAS WEI BOND, PERMANENT I OIL AND/OR GAS WEI ING ORIGINAL PERMI	DRILL: HES OF OG - 1, SHOWING OF OR TO 1929, A PERMANENT HITTED. HE: LL ORIGINALLY DRILLED BE PLAT AND ORIGINAL WELL LL ORIGINALLY DRILLED OF T NUMBER, AND PERFORMANT OF FILED WITH WELL OF HER ORIGINAL WELL ORIGINALLY DRILLED OF T NUMBER, AND PERFORMANT OF FILED WITH WITH HIT HIT WITH WITH	RIGINAL PERMIT NUMBER AT COPY OF THE PLAT AND EFORE JUNE 5, 1929, FIVE (5 RECORD. N AND/OR AFTER JUNE 5, 1900 NOCE BOND.	BOND AND PERMANENT COPY AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD O) COPIES OG - 1, PERFORMANCE 929, FIVE COPIES OG - 1, SHOW- e. Inspector to be notified twenty-			
		. <mark>Werthald</mark> gold in the				
The following waiver n thereof.	nust be completed by the coal	operator if the permit is to b	e issued within ten days of receipt			
			ner or Operator of the coal under			
We the		any have no objections to said	well being drilled at this location, d 7, Chapter 22 of the West Virginia			
		AMACO COMPANIENTE A COMPANIENT	For Coal Company			

Official Title