

Date:	9/12/	1	1380
Cpera: Well M		882	•

421 Wall No. 37 77 77 206

OIL & GAS DIVISION

DEPARTMENT OF MINES, OIL AND GAS DEVISION

DEPT. OF MINES

WELL COTTONS

WELL OFFICATION'S REPORTS.

OF

DEFILITING, FRACTURENG AND/OR STIMULATING, OR PEYSIGAL SHANGE

WEEK, OVERS	or: /	' <b>C</b> as	х./	Liqu	.14 T:	nfection	Yaste Dis	70521/	•
	170 BC T	2-04	X	٠,	ប៊ី១០	determined stop	223 /	leep X / Size	1104/)
TOCATION:	7127710	. 18	70'		¥2.5	ersaed: Mart	ins Run		
poortion.	District:	Lyo	n		Cau	Presto	n Qua	Glade	sville 7.5'
						<b>D</b> E			
المنتشدة المتشاهد	630 Co	ommerc	ces on ce .Sq.	<u> </u>					
	Chas.					<del></del>			
•			<del>,</del>						
CETTIMESS	377	s off (	old form	ation		Drill deeper / Perforate ell (specify)	new formation	<b>/</b>	urs or stimiste
				<del></del>					
	ے ہی جس							ECTOR POR TEIS	acce:
(IF APPLI)	ore eucong	OGCING	OF DRY S	OLE '	on Ing o	ያ :፫		n Blosser	
. SEMO	RECKG. VE	RSAL ?	127133100	052	AINEI	)	Address	Colfax, WV	
			, 19					363-9105	
GEOLOGICA	l Target f	ORMATI	c:: Or	iska	any			Depth _ 7940	Seet Seet
Dest	hof com:	eted w	ali,	940	· 	feet Rota	.rg_X_/ Ca	ble Tools	<u>.</u> .
						s; salt,_			
#1	ann dan	ing •				Is coal be	ing mined in t	the area? NO	
Caa	. 352 652.		7/21			1980	end completed	8/13	. 1980
YCT!	C MSS COTTO	sacea T							
CASING A	סאובטים מא	Progra	н.						
CASING O			FECATION			FOOTAGE 1		CEMENT FILL-UF OR SACKS (Cubic Seet)	
	1 3	1	T	X		107.60		80 Sacks	<b>5</b>
Conducto	<u>= 138"</u>	-		<u> </u>		107.00			
Saint NS	19 5"	┼		x		1874.49	1874.49	570 Sks	Sires
Ccsi	u u	┼	1						1
Intermed		<del> </del>			-	<b>1</b>	7935	270 Sks	1
Product	.ca.   4½"	<del> </del>		X		N k	1	270 383	Ceoths set
Tubine	12 B	<u> </u>		X	<u> </u>	<del>  </del>	7627.95	<u>,</u>	1
Liners	<u> </u>	<u> </u>			<u> </u>	<u> </u>		<u> </u>	Perforations:
	#				<u> </u>	3	<u> </u>	1	739 3
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	ų,					į.	<u> </u>	1	
GPEN FL	QW BASA		. F	lunt	ersv	ille Chert	-	Pay cone dept	7630-7698
<b>-</b>	Gas: T	minial	cpen fl	su Si	mell			il open flow, _	
								open Slow, _	
	•				_			ests, hou	
	<b>*</b> ****		_					) after b	
									•
						•		Tay zone deg	tt
Ś									-
	Gas:	Initial	E open fl	ax,	<u></u>		UIL: 17111	al open flow, _	251/4
•									
								ests, box	
٠.	Staris	נ אספא	Stagaria.	•	**************************************	_ prig (surfac	e	:) after!	13 Tune Franci

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Well was fraced with 1,400 BBLS  $\mathrm{H}_2\mathrm{O}$ , 6,500 gal raw HCl, 60,000# 80/100 sand and 80,000# 20/40 sand

Breakdown Pressure 3,000 PSI Max Pressure 5,500 PSI Avg. Pressure 4,500 PSI

38 BPM Max. Rate Avg. Rate 36 BPM ISIP 3,800 PSI HHP 3,766

#### WELL LOG

PORMATION	Color	Hard or	24 Con Feet	Bottom Zest	Remarks Including indication of all fresh and sale water, coal, oil and gas
Sand			0	38	2.5 3215 Hactr., CO21, S11 255 235
Sand	1	Į.	38	44	
Sand			44	67	
Sand			67	95	
Sand			95	116	
Sdy Shale		j	116	163	
Sandy Shale			163	276	
Sand		İ	276	292	
Sand	ı		292	341	
Sand & Shale	1		341	361	
Sand & Shale	1		361	486	•
Sand	1		486	640	
Sdy Shale			640	722	
Sand		1	722	737	
Red Rock	1		737	743	
Sand			743	761	
Sdy Shale			761	796	
Sand			796	960	
Shale		į	960	1035	•
Sand	· I		1035	1274	
Sdy Shale	1		1274	1311	
Sand			1311	1326	
Sand & Shale			1326	1435	
Shale			1435	1573	•
Sand		Ē	1573	1670	
Sand & Shale	1		1670	1842	•
Rėd Rock	Į.		1842	1865	
Sand		ACTIVITY.	1865	1871	
Sand & Shale			1871	1895	
Sdy Shale	•		1895	1960	
Red Rock			1960	1987	
Sdy Shale			1987	2044	
Shale		-	i 1	1	
Shale	•	•	2044 6938	72329	o complete as necessary)

RAY RESOURCES DIV., BVX (U.S.), INC.

Geologist

Regulation 2.12(i) provides as fallous:

Take term 'log' or 'well log' shall mean a systematic, described geologial record of all formations, including odal, encountered in the drilling of a wall."

Page 2

Well No. 882

API Well No. 47-077-0206

### Well Log Continued

FORMATION	COLOR	HARD	21 TOP	BOTTOM	
	COLOR	OR SOFT	FEET	FEET	REMARKS
Tully Lime Shale			7232	7324	
Lime			7324	7618	
Chert			7618	7630	
Orisk Sand			7630 7805	7805	
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Well Operator
By I can caked
Its Geologist





#### Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,		
Charleston, W. Va.	DATE June 9, 1980	
Surface Owner John E. Price Address Gladesville, WV	Company Ray Resources Div	BVX
Mineral Owner John E. Price Gladesville, WV	Martine Run	Acres 334.82
Coal Owner_Same	Well No. 882	Elevation 1870
Address Same	District Lyon	
Coal Operator None	Quadrangle Gladesville	
Address THIS PERMIT MUST BE POSTED AT THE WELL SITE	·	
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved		
for <u>drilling</u> . This permit shall expire if	INSPECTOR TO BE NOTIFIED William Bloss	er
operations have not commenced by 2-12-81	ADDRESS Colfax, WV	
Deputy Director - Oil & Gas Division	PHONE 363-9105	
GENTLEMEN:		
The undersigned well operator is entitled to drill upon	the above named form or trust of head for	
title thereto, (or as the case may be) under grant or leas	e dated <u>March 27</u> , 1968 by	John E.
Price made to Phillips Pet. C	and recorded on the 2/th	day of March
19 68 in Preston County, Book 397		
XX NEW WELLDRILL DEEPER _		OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILL	ED BEFORE JUNE 5, 1969.	
The enclosed plat was prepared by a registered enginee have been notified as of the above date.	r or licensed land surveyor and all coal owner	ers and/or operators
The above named coal owners and/or operator are herel to make by Section 3 of the Code, must be received by, o	by notified that any objection they wish to m r filed with the Department of Mines within t	ake, or are required en (10) days. *
Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address same day with the mailing or delivery of this gone to the	day	hofore or on the
same day with the mailing or delivery of this copy to the	DAY DECOMPOSED	inia.
PLEASE SUBMIT COPIES OF ALL	Very truly yours, KAI INF SOURCES D	
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Well Operator	
WEST VIRGINIA GEOLOGICAL AND	630 Commerce Sq.	
	lress Street	
	perator <u>Charleston</u> ,	
AC-304 - 292-6331	City or Town	
	West Virginia	
	State	
*SECTION 3 If no objections are filed or found by th notice and plat by the department of mines, to said proposed location the filing of such plat, that no objections have been made by the coal and the well operator authorized to proceed.	on, the department shall forthwith issue to the well or	arator a marmit ragition
	C77 PRESTON-206	Den Lorenton
"I have read and understand the reclamation requirements as se		PERMIT NUMBER
. Have read and anapotana me regulations remove theme we ex	L 10110 H	

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 1, Section 12-b and will carry out the specified requirements."

Signed by



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

PROPOSED WORK ORDER	TO XX DRILL	DEEPEN	FRACTURE STIMULATE		
DRILLING CONTRACTOR:	(If Known)		RESPONSIBLE AGENT:		
NAME Ray Resources					
ADDRESSCharleston	n, WV		ADDRESS Culloden, WV		
TELEPHONE344-839	3	TELEPHONE72	27-8480		
ESTIMATED DEPTH OF COM	MPLETED WELL: 7950'		CABLE TOOLS		
PROPOSED GEOLOGICAL FO	ORMATION: Oriskany				
TYPE OF WELL: O	LGAS_XX	COMB STORAC	GE DISPOSAL		
			LOOD OTHER		
TENTATIVE CASING PROGF	LAM:				
CASING AND TUBING	USED FOR	I DELTA CALL			
SIZE	DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16					
13 - 10 13 3/8	90'	90'	To Surface		
9 - 5/8	1870'	1870'	To Surface		
8 - 5/8 7					
5 ½					
4 ½					
3		7940	200 Sacks		
2			Perf. Top Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom		
	<u></u>				
APPROXIMATE COAL DEPTH	HSNO	,	FEET		
IS COAL BEING MINED IN	THE AREA?	BY WHOM? _			
TO DRILL:					
SUBMIT FIVE (5) COPI	ES OF OG - 1, \$100.00 PERI	MIT FEE, PERFORMANCE	BOND AND PERMANENT COPY		
OF PLAT.		•			
TO DRILL DEEPER OR REDI					
SUBMIT FIVE (5) COPIE WELLS DRILLED PRIOR MUST ALSO BE SUBMIT	R TO 1929, A PERMANENT	GINAL PERMIT NUMBER A COPY OF THE PLAT AND	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
* #		•			
TO FRACTURE - STIMULATE OIL AND/OR GAS WELL	ORIGINALLY DRILLED BEF	ORE JUNE 5, 1929, FIVE (5)	) COPIES OG - 1, PERFORMANCE		
DONE, TERMANDENT FL	AT AND ORIGINAL WELL RI	ECORD.			
ING ORIGINAL PERMIT	ORIGINALLY DRILLED ON A NUMBER, AND PERFORMANC	AND/OR AFTER JUNE 5, 19 E BOND	29, FIVE COPIES OG - 1, SHOW-		
Required forms must be f four (24) hours in advance	iled within ninety (90) days of e.	completion for bond release	. Inspector to be notified twenty-		
The following waiver mus	st be completed by the coal of	perator if the permit is to be	issued within ten days of receipt		
.,					
WAIVER: I the undersigned, A	igent for	Coal Company, Owne	er or Operator of the coal under		
this lease have exam	nined and place on our mine r	maps this proposed well loca	tion.		
We the	Coal Company	have no objections to said	well being drilled at this location,		
providing operator hat Code.	is complied with all rules and re	egulations in Articles 4, 5, and	7, Chapter 22 of the West Virginia		
			For Coal Company		

Official Title