

Drill Deeper

Abandonment

tions of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200

Company RAY RESOURCES
630 COMMERCE SQUARE
Address CHARLESTON WEST VIRGINIA 25301 Farm DENNIS HOLMES, RUSSELL UMSTEAD JR. 59 of Acres 282.64 Lease No. Well (Farm) No. 2 (OR-26) erial No. 825 Elevation (Spirit Level) /8/9 Quadrangle THORNTON County PRESKON District LYON Mules Engineer Wantel & Engineer's Registration No. 530 L.L.S. File No. 0.R-26 __Drawing No. Scale / 1000 Date // - 30 - 78

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION **CHARLESTON**

WELL LOCATION MAP FILE NO. 47-077-02.05

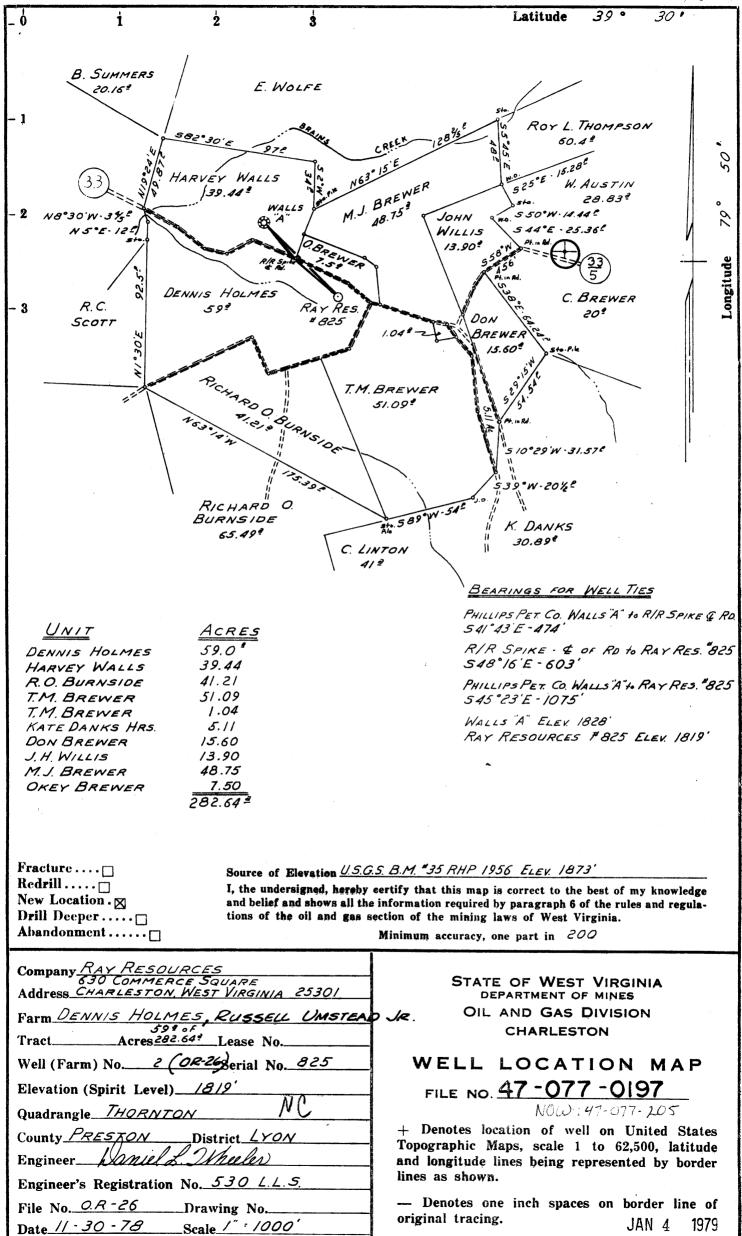
FORMERLY-47-077 -0197

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown. NOV 6

- Denotes one inch spaces on border line of original tracing.

Chape (3/3) & W. LEACH CO., PGH., PA. DOP WOLL 6-6 South Burns

Floring :



G. & W. LEACH CO., PGH., PA.

1 8 66

Coeraturis Well No. 825 APT WILL NO. 17 - 77 - 0205 State County 2 1925

STATE OF WINT VIRGINEA DEVESION

WELL CRIPATOR'S REPORT /3 OF FRACTURING AUDICE STIMULATING, OR PRESIDAL GRANGE

WELL CYPE:	C11	Ca:	s XX /	Liquid	Injection	/ Vaste Di	sponal/	,
							Deep_XX / 58	
LOCATION:	Elevation	a: <u>18</u>	319	ya.	reersand: Br	ains Creek		
	District	ہلے:	on	c	writy: Presto	nr da	edranale: Thor	nton
WELL OPERAC	CR	Rav F	Resource	es Div.	B.V.X. DS	edenated age	SAM	IF.
	s 630							
	Char	lesto	on, W.	VA. 25	301			
PERMITTED W		-			/ Drill deeper			tura or stimulate
·	Oth	er phy	sical ch	ange in	well (specify)			
202-178 7051	Av 0	15.70				it: 8 C/R Tile:	PECTOR FOR THIS	
PERMIT ISSO					_		lliam Blosser	
CONTE	KELE: PLI ROUS PRO KENG. VE	37.2557	CH FROM	DKILLING	CR.			olfax. W.VA.
	Annual of a 1 time						26566 363	
					Chort			575 Set s
							able Tools	
					es; salt,_			-
							the area?	
								. 19_79
CASING AND								•
CASING OR TUBING TYP	E Size	\$7501 G-2de	Welshield	is ieu lused	FOOTAGE I	DTERVALS Left in wall	CEMENT FILL-UF OR SACKS (Cubic Sect)	PACEERS
Canductor	18 1			,	6		1	Zinds
Presh wate	- !						1	1
Ccal	#				4			Sizes
Intermedia	9-5/	<u> </u>		x	1829.80	1829.80	to surface	
Preduction	144			_x		7865.00	270 sacks	Cepths set
Tubins	2-3/1	<u> </u>		х .	1015(6	C7526-21		
Limers	#				ME	عن ن لك		Perforations:
			! !		1277		שוי	730 3c:
(<u> </u>	JAN	<u>P 1 1980</u>		7578 7650
-	4	<u> </u>	<u> </u>					· ·
ATT 37.011						AS DIVISION		
CPEN PLOW	ucing for		Chert		DEP1.	OF, MIN	타니 Pay sone dept	7578
1200			•		7: */2	Offic Teibia	l open flow, _	
							open flow, _	
		_		4			ists, hou	
	Static r						1fter b:	
Tre					lesisn1			•
	• •						Pay zone dept	- 1
Second producing formation Ref/d Gil: Initial open flow, Btl/d								
· •	Final open flow,							
Time of open flow between initial and final tests, bours								
Static rock pressure, poly (surface measurement) after hours shut in								
•		. •			•	•		

[05-75]

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

Chert fraced with 58,500# 80/100 p.s.i., 60,000 20/40 sand, and 6,500 GaI HCl, 1291 Bbls H20 Average Treatment Pressure - 5,000 p.s.i. - 5,500 p.s.i. max pressure Average Injection Rate - 37B.P.M. - Max. Rate - 41B.P.M. ISIP - 4,100 p.s.i. - 15 min shut in pressure - 3,300 p.s.i. HHP - 4264

WELL LOG

TD

PORMATION	Color	Eard or Soft	13 Con Feet	Bottom Peet	Remarks Including indication of all fresh and sait water, coal, oil and gas
		l			
Shale			115	202	
Sand		}	202	274	
RR	ļ		274	292	
Sand	1		292	306	
Black Shale			306	311	
Shale			311	336	
Sand			336	382	
RR			382	390	s mention of the state of the s
Sand			390	564	
Shale			564	588	
Sand	1		588	640	
RR			640	650	LD-
Sandy Shale			650	786	
RR	1		786	891	
Sandy Shale			896	935	
Sand			935	1156	
Sandy Shale			1156	1206	
Sand			1206	1290	
Shale			1290	1303	4
Sand		į	1303	1326	
Shale			1326	1423	
Sand	1		1423	1509	
Shale	1		1509	1521	•
Sand	1		1521	1542	•
Sandy Shale	.		1542	1910	•
Shale			1910	3965	
Sandy Shale			3965	3985	
Shale			3985	6929	
Shale		1	6929	7164	
Sime			7164	7243	
			7243	7560	
Shale			7560	7575	
Lime Chert	1	l			
		(A	7575 7566	7760 7800	sa complete as necessary)
Oriskany			,,00	7000	

7867 Ray REsources

Geologist

Raquission 2.32(i) providas sa

Take serm 'lag' or 'well log' shall near a systematic, described geological record of all formations, including oral, excountered in the drilling of a well."



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

FT. OF WINES

DEC 1

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

		W			
TO THE DEPARTMENT OF MINES,					
Charleston, W. Va.	DATE December 7, 1978				
Surface Owner Russell A. Umstead, Jr.	RAY RESOURCES, D. Company FLYING DIAMOND O	IVISION OF IL CORPORATION			
Independence W Va.	Address 630 Commerce Sq.				
Aduress	Farm Dennis Holmes				
Pouts 1 Indonesiana W Va					
Address Route 1, Independence, W. Va.					
Coal Owner					
Address	<u> </u>	County_Preston			
Coal Operator	Quadrangle				
Address					
IIS PERMIT MUST BE POSTED AT THE WELL SITE					
I provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved	INSPECTOR				
or <u>drilling</u> . This permit shall expire if	TO BE NOTIFIED <u>William Bl</u>	osser			
or <u>drilling</u> 4-15-79	ADDRESS Box 1028, Colfax,	W. Va. 26566			
nerglions never lior commenced	ADDRESS BOX 1020, COITAX,	7. 74. 2000			
Notat 1 9	PHONE 363-9105				
Deputy Director - Oil & Gas Division					
GENTLEMEN:					
title thereto, (or as the case may be) under grant for as made to Ray Resources, L. 19, in County, Book	Div. FDOC and recorded on the	8 by Consolidated day of			
Gas made to Ray Resources, I	Name	8 by Consolidated day of			
Gas made to Ray Resources, L 19, in	Name	8 by Consolidated day of CTURE OR STIMULATE			
Gas made to Ray Resources, L 19, in County, Book XX NEW WELL DRILL DEEPE OIL AND GAS WELL ORIGINALLY D The enclosed plat was prepared by a registered en	A prince or licensed land surveyor and all controls they wis hereby notified that any objection they wis	8 by Consolidated day of CTURE OR STIMULATE al owners and/or operators th to make, or are required			
	Page	by Consolidated day of CTURE OR STIMULATE al owners and/or operators th to make, or are required within ten (10) days.			
The enclosed plat was prepared by a registered en have been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received by coolers of this notice and the enclosed plat were may or coal owners at their above shown respective addresses.	Page	by Consolidated day of CTURE OR STIMULATE al owners and/or operators th to make, or are required within ten (10) days. * above named coal operators before, or on the			
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The enclosed plat was prepared by a registered enclosed plat was prepared by a registered enclosed by Section 3 of the Code, must be received by 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 GEOPHYSICAL LOGS DIRECTLY TO: W. VA. OIL & GAS CONSERVATION COMMISSION 1613 WASHINGTON STREET, EAST	Address of Well Operator Address of Well Operator Address of Well Operator Div. FDOC and recorded on the	by Consolidated day of CTURE OR STIMULATE al owners and/or operators the to make, or are required within ten (10) days. * above named coal operators before, or on the est Virginia. RCES, DIVISION OF AMOND OIL CORPORATION or ce Square inia 25301 of ten days from the receipt one well operator a permit reciting			
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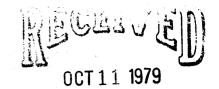
THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSE	ED WORK ORDER T	O XX DRILL	DEEPEN FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If Known)			RESPONSIBLE AGENT:		
NAME_R	AY RESOURCES, D	IV. OF F.D.O.C.			
		e Sq., Charleston, WV			
ТЕГЕРНО	NE <u>344-8393</u>	والمراقب والمعاولة والمراقب والمعاولة والمعاولة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة	TELEPHONE 743	-9067	
		PLETED WELL: 7880'		CABLE TOOLS	
		RMATION: Oriskany			
		-	MB STORAG	GEDISPOSAL	
				LOOD OTHER	
		KEO TOERI	WAIER F	OTHER	
TENTATI	VE CASING PROGRA	AM:			
CASI	NG AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.	
20 - 16					
13 - 10		90'	901	100 Sks.	
9 - 5/8		1350 '	1350'	325 Sks.	
8 - 5/8					
7					
5 1/2		7880'	70001		
4 ½		7880	7880'	300 Sks.	
2				Perf. Top	
-			A CONTRACTOR OF THE PERSON OF	Perf. Bettom Perf. Top	
				Perf. Bottom	
TO DRILI SUB: WEL MUS TO FRAC OIL BON OIL ING Requ	PLAT. L DEEPER OR REDR MIT FIVE (5) COPIES LS DRILLED PRIOR T ALSO BE SUBMIT TURE - STIMULATE: AND/OR GAS WELL D, PERMANENT PLA AND/OR GAS WELL ORIGINAL PERMIT N	ILL: S OF OG - 1, SHOWING ORIGINATED. ORIGINALLY DRILLED BEFORM AND ORIGINAL WELL RECORDINALLY DRILLED ON AN OLYMPER, AND PERFORMANCE	NAL PERMIT NUMBER A PPY OF THE PLAT AND REJUNE 5, 1929, FIVE (5 ORD. ID/OR AFTER JUNE 5, 19 BOND.	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD O COPIES OG - 1, PERFORMANCE 929, FIVE COPIES OG - 1, SHOW-	
Iour	(24) nours in advance				
				0.4) = 2.4 (4.2 (4.1 (4.1 (4.2 (4.2 (4.2 (4.2 (4.2 (4.2 (4.2 (4.2	
The thereof.	following waiver must	t be completed by the coal open	rator if the permit is to b	e issued within ten days of receipt	
WAIVER:	I the undersigned, A	gent for	Coal Company Own	er or Operator of the coal under	
	this lease have exam	ined and place on our mine ma	ps this proposed well loc	ration.	
•				well being drilled at this location,	
in the second	providing operator ha	s complied with all rules and regu	lations in Articles 4, 5, and	d 7, Chapter 22 of the West Virginia	
i kulturi	• •••			For Coal Company	

Official Title



DEPARTMENT OF MINES



Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES			
TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE_	October 11, 19	79
		RAY RESOURCES	DIVISION
Surface Owner Russell A. Umstead, Jr.	-	-	LORATION (U.S.)I
Address Independence, W. Va.			.,Charleston,W.V
Mineral Owner Dennis Holmes, et al			Acres <u>59 of 28</u> 2
Address Route 1, Independence, W. Va	• Locatio	n (waters) Brains C	reek
Coal Owner	Well No	825 (OR-26)	Elevation 1819
Address	District	Lyon	County Preston
Coal Operator	Quadrai	ngle Thornton	
Address. RMIT MUST BE POSTED AT THE WELL SHE	to the same of the		
Visions being in accordance with Chapter 22, W. Va. Code, the location is hereby approved			
rilling . This permit shall expire if	INSPECTO	2	
6-15-80	TO BE NOT	rified <u>William F</u>	Blosser
ons have not commenced by 6-15-80	ADDDECC	Box 1028	26566
And of the	ADDRESS	Colfax, W. Va.	. 20300
uty Director - Oil & Gas Division	PHONE	<u> 363-9105</u>	
GENTLEMEN:			
The undersigned well operator is entitled to drill upon	on the above na	med farm or tract of land	for oil and gas having fee
Assignmentitle thereto, (or as the case may be) under grant XXX	ent.	June 1 10	78 ъ Consolidate
Gas made to Ray Resources,			
			day of
19 in County, Book	Page	The state of the s	
XX NEW WELLDRILL DEEPER	R	EDRILLFRAC	CTURE OR STIMULATE
The enclosed plat was prepared by a registered engine have been notified as of the above date. The above named coal owners and/or operator are he to make by Section 3 of the Code, must be received by	ereby notified th	nat any objection they wisl	n to make, or are required
Copies of this notice and the enclosed plat were mail or coal owners at their above shown respective address	led by registered	mail, or delivered to the a	bove named coal operators before, or on the
same day with the mailing or delivery of this copy to the	he Department o	of Mines at Charleston, We RAY RESOU	st Virginia RCES DIVISION
	Very truly	T) OF T T T T T T	Y EXPLORATION (U
PLEASE SUBMIT COPIES OF ALL	(Sign Nan	ner Hamle	le .
GEOPHYSICAL LOGS DIRECTLY TO:	(Bight Man	Well Operato	or .
WEST VIRGINIA GEOLOGICAL AND		630 Commerce	Square
ECONOMIC SURVEY	Address	Street	· · · · · · · · · · · · · · · · · · ·
P. O. BOX 879 Well	of ll Operator	Charleston	
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	-	City or Town	
NG-304 - 292-0331		West Virginia	25301
		State	
*SECTION 3 If no objections are filed or found by notice and plat by the department of mines, to said proposed lo			
the filing of such plat, that no objections have been made by the			
and the well operator authorized to proceed.		(Formerly: PRES-	-197)
		PRES-209	מיימטו ווב ידוא מטו
		47-077	PERMIT NUMBER
"I have read and understand the reclamation requirements a Chapter 22, Article A. Spetion 12-b and will carry out the specified	as set forth in I requirements."		•
Signed by			
Signed by BEANKET ROAD			

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

PROPOSED WORK ORDER TO	XX DRILL	DEEPEN	ED A COLLEGE CONTRACTION A MYS		
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGEN	•		
NAME Bow Valley Dri			NAME Smokey Stover		
ADDRESS Charleston, 1			ADDRESS <u>Culloden</u> , W. Va.		
TELEPHONE 344-8393		TELEPHONE 74			
ESTIMATED DEPTH OF COMPI	LETED WELL: 7860'		CABLE TOOLS		
PROPOSED GEOLOGICAL FOR	MATION: Oriskany				
TYPE OF WELL: OIL_	GAS XX	COMBSTORAG	E DISPOSAL		
	RECYCL	ING WATER FL	OODOTHER		
			oozomatt		
TENTATIVE CASING PROGRAM	1 :				
CASING AND TUBING	LICUD COD	· · ·			
SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16			ON SACKS - COBIC 17.		
13 - 10 13 - 3/8	90'	90'	To Surface		
9 - 5/8	1,820'	1,820'	To Surface		
8 - 5/8					
7					
5 ½					
4 ½	7,860'	7,860'	300 Sacks		
2			Perf. Top		
Liners			Perf. Bottom		
			Perf. Top Perf. Bottom		
			Terr. Bottom		
IS COAL BEING MINED IN THE TO DRILL:	AREA!	BY WHOM?			
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PERM	IT FEE, PERFORMANCE F	OND AND PERMANENT COPY		
TO DRILL DEEPER OR REDRIL	т.				
SUBMIT FIVE (5) COPIES (OF OG - 1, SHOWING ORIG O 1929, A PERMANENT C	INAL PERMIT NUMBER AND	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF	RIGINALLY DRILLED BEFO	RE JUNE 5, 1929, FIVE (5)	COPIES OG - 1, PERFORMANCE		
,	AND ORIGINAL WELL REC	CORD.			
ING ORIGINAL PERMIT NU	RIGINALLY DRILLED ON A MBER, AND PERFORMANCE	ND/OR AFTER JUNE 5, 192 BOND.	29, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed four (24) hours in advance.	within ninety (90) days of	completion for bond release.	Inspector to be notified twenty-		
The fall arrive and			•		
the following waiver must be thereof.	e completed by the coal ope	erator if the permit is to be	issued within ten days of receipt		
WAIVER: I the undersigned Ages					
WAIVER: I the undersigned, Ager this lease have examine	d and place on our mine m	Coal Company, Owner	or Operator of the coal under		
providing operator has c Code.	omplied with all rules and reg	have no objections to said wulations in Articles 4, 5, and	ell being drilled at this location, 7, Chapter 22 of the West Virginia		
wue.					
্জাপ্তিক	: 3.				
**************************************		F	or Coal Company		
			4		

Official Title