



Oil and Gas Division WELL RECORD

DEPARTMENT OF MINES

Quidangle_Reniel_7.5

Permit No. 47-087-3237

Recycling Water Flood Storage.

		•	64 64 j. P. G. Salama	and the second s
Company MERT Development Inc. Address Fairmont WV Farm Hazel & Buck Perrine Acres 283	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Colt Run Well No. 1 Elev 1863 District Curtis County Roane The surface of tract is owned in fee by Hazel Perrine	Size 20-16 Cond. 13-10"	(
Addiess Reedy W	9 5/8 8 5/8	204	204	CIS
Mineral rights are owned by <u>Hazel Perrine</u> Address <u>Reedy WV</u> Drilling Commenced 5-9-90	7 5 1/2	2016	2016	2020!
Drilling Completed 12-29-81	3		5791	600' fillup
Well openhrs. before test 1200bbls.				
Well treatment details: Perforated Oriskany (5710-5725) 14 Holes Acid (Raw 32%). ISIP 2500 AVR PSI 330 Perforated Marcellus (5452-5492) 25 Hole 900,000 scf N2.	5720 DAllach copy of cer s. Nitrogen Fra	c with 400	O gal. H	ydrochloric
900,000 scf N2	TALLOR CHE KY	ac with 100	<u>00 gal. 2</u>	1% HCL

Perforated Devonian Shale (5126-5402) 20 holes. Nirtogen Frac Wi Sphine 5126-5259, Songea 5254-5320, 900,000 sef Na oal was encountered at Not Encountered resh water 1050 Inches Salt Water. roducing Sand Oriskany, Marcellus, Devonian Shale 1707 Depth (5710-5725)

Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Redrock Sand Redrock Sand Redrock Sand/Shale Lime Injun Lime Sand Shale/Sand Shale Sand Shale Shale/Sand Shale Lime/chert Sand Lime TD	conferencia de construir de seu mandra de seu mon a section o reconstruir de la consecución de section de sect	0 330 540 620 660 720 1750 1806 1835 1940 2080 2410 2420 2480 2570 2635 4840 4865 5505 5650 5720	330 360 620 660 720 1750 1806 1835 1940 2080 2410 2420 2480 2570 2635 4840 4865 5505 5650 5720 5928	Water 1707 LOG TOPS U. DEV 2480 HURON 3710 ANGUA 4515 ANGUA 4687 CHINI 4687 CHINI 4687 GENESEE 5320 MARC 5254 GENESEE 5320 MARC 5421 ONDNO 5510 ORISK 5683 HELD 7 5720 DD Ftg 5923 NEW TO 2635 OLDFO
icales Electric Log to	ps in the remarks sec	tion. (over)	1293 - reid (A

3293 -rewitting JS regul 7/29/85



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

RECORD WELL

Quadra	ngle	<u>Peniel</u>	7	q	5	8
Permit	No.	47-087-	3.	2	3	7

Rotary_X_ Oil_ Cable____ Gas___

ouadrangle <u>Pen1e1</u> / . ermit No. <u>47–087</u> –32					Recycling_ Water Floor Disposal	d Storage
ompany <u>MERT Develo</u>	_		Casing and	Used in	Left	Cement fill up
ddress Fairmont			Tubing	Drilling	in Well	Cu. ft. (Sks.)
arm <u>Perrine</u>	Acı	res_283		2		
ocation (waters)Col	t Run		Size			
/ell No	Ele	v. <u>**863 8</u> 63	20-16			
istrict <u>Curtis</u>	CountyRoan	ne	Cond.			
he surface of tract is ow	ned in fee by		13-10"			
	ne		9 5/8	204	204	CTS
ddress <u>Reedy WV</u>			8 5/8			-
lineral rights are owned l	by <u>Hazel Perri</u>	ine	7	2016	2016	2020'
Address	Reedy WV		5 1/2			
rilling Commenced			4 1/2			
rilling Completed	5-9-80		3			
nitial open flow			2			
inal production0			Liners Used			
ell open						
ell treatment details:			Attach copy of o	camantina ====	·-d	
Oal was encountered at						
oal was encountered at _ resh water1050	mpt encounter	ced Feet	Salt \	Inche	1707	Feet
oal was encountered at _ resh water1050	mpt encounter Fee	red Feet	Salt V	Inche Water	1707	

⁽over)

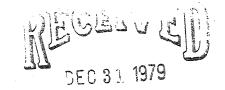
^{*} Indicates Electric Log tops in the remarks section.

Formation	Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Ren	narks
••					
			Date_	July 3	. 19_81_

APPROVED MERT Dev. Anc Owner

By Geologist (Title)





DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE 12-26-79	_
Surface Owner Hazel Perrine et.al.	Company MERT Developme	nt, Inc.
Address Reedy, WV	Address Fairmont, WV	
Mineral Owner As above	Farm Hazel Perrine et	<u>a1</u> Acres 283
Address	Location (waters) Colt Run	
Coal Owner As above	Well No	Elevation 863
Address	District Curtis	County Roan
Coal Operator	Quadrangle Peniel 7½ min	
Address. ALT MUST BE POSTED AT THE WELL SITE		
Ons heine in		
11. " " " " " " " " " " " " " " " " " "	INSPECTOR	
This permit shall expire it	TO BE NOTIFIED	
have not commenced by 9-2-80	ADDRESS	
of to the	ADDRESS	
Director - Oil & Gas Division	PHONE	
a Gas Division		
GENTLEMEN:		
19 ⁷⁹ , in Roane County, Book 15	and recorded on the	day of Set
made to MERT Developmen 1979, in Roane County, Book 15 X NEW WELL DRILL DEEPH OIL AND GAS WELL ORIGINALLY D The enclosed plat was prepared by a registered en	r lease dated August 22 at, Inc. and recorded on the 7 Page 556 ER REDRILL FR ORILLED BEFORE JUNE 5, 1969.	day of STIMU
et.al made to MERT Developmen 1979, in Roane County, Book 15 X NEW WELL DRILL DEEPI OIL AND GAS WELL ORIGINALLY D	r lease dated August 22 15 17 17 18 19 19 19 19 19 19 19 19 19	ACTURE OR STIMU coal owners and/or op
made to MERT Development of the property of the state of the above date. MERT Development of the made to MERT Development of	r lease dated August 22 15 17 18 19 19 19 19 19 19 19 19 19	ACTURE OR STIMU coal owners and/or op rish to make, or are re within ten (10) days above named coal op before, or or
made to MERT Development 1979, in Roane County, Book 15 X NEW WELL DRILL DEEPH OIL AND GAS WELL ORIGINALLY DRIVED The enclosed plat was prepared by a registered entage 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. Copies of this notice and the enclosed plat were mor coal owners at their above shown respective addressme day with the mailing or delivery of this copy to	r lease dated August 22 15 17 18 19 19 19 19 19 19 19 19 19	ACTURE OR STIMU coal owners and/or op rish to make, or are re within ten (10) days above named coal op before, or or
made to MERT Development 1979, in Roane County, Book 15 X NEW WELL DRILL DEEPH OIL AND GAS WELL ORIGINALLY DRIVED The enclosed plat was prepared by a registered enclave been notified as of the above date. The above named coal owners and/or operator are commake by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were mor coal owners at their above shown respective addressme day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL.	r lease dated August 22 19 11, Inc. and recorded on the 19 10 10 10 10 10 10 10 10 10 10 10 10 10	ACTURE OR STIMU coal owners and/or op rish to make, or are re within ten (10) days above named coal op before, or or West Virginia.
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made to MERT Development of the second owners at their above shown respective addressment day with the mailing or delivery of this copy to MEST VIRGINIA GEOLOGICAL AND	r lease dated August 22 15 17 18 19 19 19 19 19 19 19 19 19	day of Septiment day of
made to MERT Development of the county, Book 15 County, Book 1	r lease dated August 22 19 11, Inc. and recorded on the 7 10 Page 556 ER REDRILL FR DRILLED BEFORE JUNE 5, 1969. Ingineer or licensed land surveyor and all of the hereby notified that any objection they we by, or filed with the Department of Mines at lailed by registered mail, or delivered to the less day the Department of Mines at Charleston, Wery truly yours, (Sign Name)	day of Septiment day of
made to MERT Development Roane County, Book 15 X NEW WELL DRILL DEEPH OIL AND GAS WELL ORIGINALLY DRIVED The enclosed plat was prepared by a registered encave 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 Copies of this notice and the enclosed plat were mor coal owners at their above shown respective addressme 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	r lease dated August 22 15 17 17 18 19 19 19 19 19 19 19 19 19	day of Sept day of
made to MERT Development of the property of this notice and the enclosed plat were more coal owners at their above shown respective addresses of the mailing or delivery of this copy to the property of the p	r lease dated August 22 19 11, Inc. and recorded on the 7 10 Page 556 ER REDRILL FR DRILLED BEFORE JUNE 5, 1969. Ingineer or licensed land surveyor and all of the behavior of the Department of Mines at Charleston, Well Open Rt 8 Box 335-A. Address of Street	day of Sept day of
made to MERT Development Roane County, Book 15 X NEW WELL DRILL DEEPH OIL AND GAS WELL ORIGINALLY DRIVED The enclosed plat was prepared by a registered entage 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. Copies of this notice and the enclosed plat were mor coal owners at their above shown respective addressme 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	r lease dated August 22 15 17 17 18 19 19 19 19 19 19 19 19 19	day of Sept day of
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made to MERT Development Roane County, Book 15 X NEW WELL DRILL DEEPH OIL AND GAS WELL ORIGINALLY DRIVED The enclosed plat was prepared by a registered entage 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. Copies of this notice and the enclosed plat were mor coal owners at their above shown respective addressme 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	r lease dated August 22 and recorded on the 7 Page 556 ER REDRILL FR ORILLED BEFORE JUNE 5, 1969. Ingineer or licensed land surveyor and all of the by notified that any objection they we by, or filed with the Department of Mines at least of the Department of Mines at Charleston, Well Operator Fairmont City or Tow West Virginia	day of Sept day of

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by __

47-087-3237

PERMIT NUMBER

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

PROPOSED WORK ORDER DRILLING CONTRACTOR:		DEEPEN FRACTURE-STIMULATE RESPONSIBLE AGENT:			
NAME FWA Drilling Co.	mpany	NAME R.J. Yedl	losky		
ADDRESS Box 448, Elk	view, WV 25071	ADDRESS Rt 8 Bo	ox 336-AA, Fairmont, WV		
TELEPHONE 304-965-3379		TELEPHONE 304-366	5-9111		
ESTIMATED DEPTH OF COMPLETED WELL: 3550			CABLE TOOLS		
PROPOSED GEOLOGICAL FORMATION: 3 Berea		**			
TYPE OF WELL: OF	L X GAS	COMB. STORAG	E DISPOSAL		
•			OOD OTHER		
TENTATIVE CASING PROGE	RAM:				
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16					
13 - 10	30'	30'			
9 - 5/8 8 - 5/8	200"	200 '	CTS		
7	200	200			
5 ½					
4 ½	2550'	2550'	1000' FU		
3			Perf. Top 2480		
			Perf. Bottom 2485		
Liners			Perf. Top 2390		
			Perf. Bottom 2395		
SUBMIT FIVE (5) COPIE WELLS DRILLED PRIOF MUST ALSO BE SUBMIT FO FRACTURE - STIMULATE OIL AND/OR GAS WELL BOND, PERMANENT PL OIL AND/OR GAS WELL ING ORIGINAL PERMIT	RILL: CS OF OG - 1, SHOWING ORIGINAL PERMANENT TED. CORIGINALLY DRILLED BEFAT AND ORIGINAL WELL R ORIGINALLY DRILLED ON NUMBER, AND PERFORMANO Tiled within ninety (90) days of e.	GINAL PERMIT NUMBER AS COPY OF THE PLAT AND FORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 1922 BOND. f completion for bond release.	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 29, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-		
		The second second is a second			
			issued within ten days of receipt		
VAIVER: I the undersigned, A	igent for	Coal Company, Owner	r or Operator of the coal under		
this lease have exam	ined and place on our mine	maps this proposed well locat	ion.		
providing operator ha	Coal Companies complied with all rules and re	y have no objections to said we egulations in Articles 4, 5, and	vell being drilled at this location, 7, Chapter 22 of the West Virginia		
Code.					
		F	or Coal Company		

Official Title

M IV-2 OFF	ICE OF OIL & G	AS - DEPARTMENT OF	<u></u>	`arm	<u>P</u> /9, 1981
		* ****** ****** **********************		lame: Per	rine <u>DD</u> - 087 3 237-
Company of the Compan		L PERMIT APPLICA	TION	, CAMICINIZATION	County Perm
L TYPE: Oil / Gas (If "Gas", Produ	ction/	Underground Storag	e/ Dee	•	
ATION: Elevation: 863		Watershed: Colt R	un		
District: Curt	i.s.	County: Roane	Quadra	ingle: Dini	iel
L OPERATOR MERT Develor	pment Inc	DESIGNATED. AGENT	Jerry Poling		
Address Route 8, Box	336-AA	Address	Route 8. Bo	x 336-AA	
•		and the second of the second o		•	
Fairmont, WV	26554	And the second s	Fairmont, W	<u>v 26554</u>	
. & GAS ALTY OWNER <u>Hazel Perrine</u>		· COAL OPERATOR _	•		
				•	•
dress Reedy WV		Address			MINISTERNATION AND ADDRESS OF THE PROPERTY OF
		domina			
reage 283		COAL OWNER(S) WI	TH DECLARATIO	N ON RECORI): :
		Name H	•		
FACE OWNER <u>Hazel Perrin</u>		Address Re	•		
dress Reedy WV					
0.00		Name			
reage 283		Address			•
LD SALE (IF MADE) TO:		Wart Co.			THE RESERVE OF THE PERSON OF T
ne Colombia Gas Transmiss		COAL LESSEE WITH	DECT ADATTON	ON RECORD.	
Idress Charleston, WV			i Diodhiairon		en e
		Address			· -
& GAS INSPECTOR TO BE NO	TIFIED:	Address			
ne Richard Morris		And the second s			
The undersigned Well Op	erator is enti	itled to operate fo	r Oil or Gas	Purposes at	the above
cation under a Deed/	Lease X_/	Other Contract	/ Dated 8-	22 , 19 79	, to the
••				s former wo way	en e
dersigned Well Operator fr said Deed, Lease or Othe	r Contract has	been recorded:)		,	
corded on 9-7, 19 79	, in the Offi	ice of the Clerk of	the County C	Commission c	f Roane
unty, West Virginia, in O	& GBook <u>1</u>	50 , at Page 556	A Permit	is request	ed as follows:
PROPOSED WORK: Drill_				and the second second second	e greeker
		on/ Perfo			
		e in Well (Specify)			
Other P	'nysical Change	e in weil (Specify)			
Planr	ned as shown or	n the work order on	the reverse	side hereof	. The second
The above named Coal Op	perator, Coal (Owner(s), and Coal	Lessee are he	reby notifi	ed that any
the wich to make	or are require	ed to make by Code?	22-4-3 must	be filed wi	th the
partment of Mines within f Copies of this Permit A	Application and	d the enclosed Plat	and Reclamat	tion Plan ha	ive been mailed
Posistored Mail or delive	ered by hand to	o the above named C	cal Operator.	, Coal Owner	c(s), and
llessees on or before the partment of Mines at Charl	day of the mar leston. West V:	iling or delivery o irginia.	or this Permi	. Applicatio	in to the
EASE SUBMIT COPIES OF ALL					
OPHYSICAL LOGS DIRECTLY TO FICE OF OIL AND GAS		M. S.	ERT Developmen Well	nt Inc. Operator	*
15 Washington Street, East		A company of the comp	\bigcirc	And the second	
arleston, West Virginia 25)311 	By:_		Ge V	cologist
				Autopolišis Vieneralio	
		175 1981 0 12 00 1			
			estata Haritan - Esta Maria A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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•		•			

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CON	TRACTOR	(IF KNC					•		
		-	Addı	-		iana			
			en e	-		nsylvania		•	
GEOLOGICAL T						**			
Estimat	ed Dept	h of Com	npleted V	Well_	610) feet	Rotary X	/ Cable I	001S
Approxi	mate Wa	ter Stra	ata Depti	ns: F	resh,	feet; S	alt,	_teet.	/ 27
Approxi	mate Co	al Seam	Depths:			_ Is Coal Bei	ng Mined In	The Area! Yes	/ NO_
• 4.1									
CASING AND T	UBING P	ROGRAM SPECIF	TCATIONS	•,		FOOTAGE I	NTERVALS	CEMENT FILL	-UP PACE
CASING OR	1 -					For Drilling		OR SACKS)
TUBING TYPE	Size :	Grade	Per Ft.	New	usea	FOT DITTING	DELC III WELL	(30323	&
Conductor	_		•						Kinds
Fresh Water	9 5/8			X		209	209	CTS	•
-									Sizes
			42.				0.01.6	2010	
Intermediate	7"		•	X			2016	11.050	Depths
Production	4 1/2					-	4080.	of an real	
Tubing								by rule 15	101
w								0	Perfor- ations:
Liners	-			1			·		Top B
ero-rodusta extraores en esta esta esta esta esta esta esta esta		<u> </u>							10p = 2
Control of the Contro	4	and the second of the second o				•			
preso Code requithe	cribed log 22-4-2 ired by same well	by Regul 2. (iii) Code § 2 ll, the reguire	ation 12 Form IV 2-4-12b fee requed by Cod	or -9, and laired le § 2:	in 1: Reclar Regular by Co 2-4-8:	ation 11, (ii) ieu thereof the smation Plan' ation 23, (iv) ode \$22-4-12a a from the own osed well.	he other secu , applicable) unless prev , and (v) if	to the reclar iously paid of applicable,	nation
a we	11 5	o fracti	ring or	etim	ulati	be required fong is to be post on the Form	art of the wo	rk for which	a
All provise of the W.	ons being Va. Code	in accorda	nce with Cl on is hereby	apter	22,				
for drill			is permit sho						
operations	have not a		by 4-28-		4		•		
	Elle	43L4	The same of the sa		and the second second				
The for Co is to The uunder this which cover	al Less be iss ndersig well lo s the a ndersig he Well	g waiver ee who h ued with ned Coal cation h rea of t ned has Operato	on objection of the contract of the well or has contract of the contract of th	w A or loca ction	a Dec 15) d IVE this tion, to t	Owner proposed well the well loc he work propoth all applic	t thereof. / Lessee location. lation has been sed to be done	/ of the conflamine mapen added to the at this lo	oal . exists
Date:		A CONTRACTOR OF THE PARTY OF TH	19	· ·	a				-
						Ву			

Its