



NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY Timothy P. Roush

Reviewed.

Recorded.

Supervisor - Surveying/Mapping

Date: 3-3-93

## TREATMENT

PERFORATED:

Gordon w/ 16 Holes 3466' - 3474'

Treated w/300 Gal. Reg. H.F. Acid, 282 Bbls. Gelled Water,

1500# 80/100 & 3500# 20/40 Sand.

WELL LOG

(Measured Depths Directionally Drilled)

(Unable to Log Open Hole. Gamma Ray Caliper Only)

Shale 3100 - 3230 Sand 3230 - 3238 3238 - 3244 Shale Sand 3244 - 3248Shale 3248 - 3442Gordon 3442 - 3503

T.D. 3600**'** 

0FT-419

FORM WW-3(B)	FILE COPY
(Obverse)	
7/85	

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007		1	92	The state of the s		2
<b>.</b>	Perm	ittin	g <sup>₹</sup>	A STREET	TO THE STATE OF TH	SAILS.

1) Date:	September 30	92
2) Operator's Well No	C.T. HALL K-	
3) SIC Code		
4 API Well NO		03 - 1514-L I
5. UIC Permit	No	

Office of Oil & Gas
STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the

## DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

		tion:	1405'		2	Waters	hed: <u>Cale Ri</u>		Centernoint
	Distri		Green		- 0-		: Wetze	•	e:centerpoint
	ERATOR		Box 55			37450 ₹७७७	•	TED AGENTJ_A	
A	ddress		a, WV			<del></del>		dress P.O. Box	
. 011 6.64			,		<u>ر</u>	<del></del> ;	)	Vienna	WV 26105
OIL & GA		11 Mici		IED,					
Address	111 D		ere Dr	i va			-	CONTRACTOR:	
Addies		ngton,		6582		<del></del>	Name		
				<u> </u>		<del></del>	Address_		
) PROPOSE	ED WELL V	WORK:	Drill 2	X /	Drill	deeper	/ Redrill	/ Stimulate	,
,		· Oldi			_	n_/ Perforate ne			
						well (specify)		Constructi	11.12
) GEOLOG	ICAL TAR	GET FOR	-		-	49			et(top) to 3310 feet(bottor
	depth of co					sting well) 3395	(TVD ).	TVD	TVD
	ate water st	•		÷.	80	• /	≥ 580 feet.	- · -	210
6) Approxim	ate coal sear	n depths:	12	209					
7) Is coal bei	ng mined in	the area?	Yes	/ No_	<u>K</u> /				
) Virgin rese	rvoir pressu	re in targe	t formation	n_140	00	psig. Source	Estimated		
	reservoir fra	-		3500			psig (BHFP)		
						Volume per hour:		Bottom hole pres	sure <u>2470</u>
NET ATT	DIDENTIF	CATION	10014A	-	TO DE				
DEIAILE	וו ואשטו ע	ICALION	OF MAI	EKIAL	) IO BE	INJECTED, INCLU	JDING ADDITIVE	s: <u>Fresh wa</u>	ter, produced wat
bacter	icides,	and o	other o	chemi	cals a	as necessary	to maintai	s: <u>Fresh wa</u> n water qual:	ter, produced wat ity and improve
bacter PILTERS	icides, (IF ANY):_	Carti	other o	chemic ilte	cals and	as necessary d/or coal be	to maintaí d filters	n water qual	ter. produced wat ity and improve oil recovery
bacter ) PilTERS	icides, (IF ANY):_	Carti	other o	chemic ilte	cals and	as necessary	to maintaí d filters	n water qual	ity and improve
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bacter 2) Filters 3) SPECIFIC	:icides, (IF ANY): _ CATIONS FO	Carti	other oridge f	chemic ilte	cals and	as necessary d/or coal be	to maintaí d filters	n water qual	ity and improve
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DACTER DA	Elcides, (IF ANY): _ CATIONS FOR AND TUBING Section 1	Carti OR CATH NG PROC SPEC Grade L.S.	other cridge if IODIC PRICE IN ITEM IN	New X	Cals of Sand	as necessary d/or coal be DOTHER CORROS  FOOTAGE IN For drilling 660 3500 M.D.	to maintai d filters SION CONTROL:  TERVALS  Left in well  660  3500 M.	CEMENT FILLUP OR SACES (Cable feet)  To Surface  Cement over Salt Sand	PACKERS  FACKERS  Kinds  Sizes  Depths set
bacter  bacter  planter  CASING OR  CASING OR  CUBING TYPE  Intermediate  oduction  abing  mers  APPLICA	Sime 8 5/8	Grade  L.S.	other cridge if IODIC PRICE IN ITEM IN	New X	Cals of rs and ION AND ION AND ION AND ION AND ION	as necessary d/or coal be DOTHER CORROS  FOOTAGE IN For drilling 660 3500 M.D.	to maintai d filters SION CONTROL:  TERVALS  Left in well  660  3500 M.	CEMENT FILL-UP OR SACES (Cable feet)  To Surface  Cement over Salt Sand	PACKERS  FACKERS  Kinds  Sizes  Depths set

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

Well Record received

Reclamation completed

OTHER INSPECTIONS

Reason:

PORH	u	ij-	3	(	(۵	
Obver		e				

1) Date September
Operator's
2) Well No. C.T. HALL K-14-R
3) SIC Code
4) API Well No. 47 - 103 - 1514-1
State County Permit

## STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WA	ASTE DISPOSAL WELL WORK PERMIT APPLICATION for the
DIVISION OF OIL A	ND GAS, DEPARTMENT OF ENERGY
6) SURFACE OWNER(S) OF RECORD TO BE SERVED	7 (1) COAL OPERATOR N/A Address
(i) Name Donald L. McCoy Address Alvy, WV 26322	7 (11) COAL OWNER(S) WITH DECLARATION ON RECORD:
(ii) Name	Address
Address	7 (iii) COAL LESSEE WITE DECLARATION ON RECORD:
Address	Address
	•
TO THE PERSON(S) NAMED ABOVE: You should ha	ve received this Form and the following documents:
WW-3(B), which sets out the parties  (2) The plat (surveyor's map) showing to the Construction and Reclamation Plato plug a well), which sets out the reclamation for the site and access.  The date proposed for the first injection THE REASON YOU RECEIVED THESE DOCUMENTS IS I	an on Form WW-5 (unless the well work is only plan for erosion and sediment control and for
	YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.
proposes to file or has filed this Notice an Well Work Permit with the Director of the Di of Energy, with respect to a well at the loc depicted on attached Form WW-6. Copies of the Construction and Reclamation Plan have been	est Virginia Code, the undersigned well operator of Application and accompanying documents for a vision of Oil and Gas, West Virginia Department ation described on the attached Application and—this Notice, the Application, the plat, and the mailed by registered or certified mail or deliver by publication in certain circumstances) on or Director.
The person signing this document shall make following certification:	
"I certify under penalty of law that I personally examined and am familiar wir information submitted in this document attachments and that, based on my inquithose individuals immediately responsible obtaining the information, I believe the information is true, accurate, and compan aware that there are significant pensubmitting false information, including	th the  and all  Ty of