

RECEIVED Office of Oil & Ore WV Division of

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Fa TENYROTHENIAI PHILETONERS, JERRY

Operator Well No.: M. H. PENNICK 8

LOCATION:

Elevation: 852.00

Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 150 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 7650 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY

P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD Permit Issued: 03/20/92 Well work Commenced: Well work Completed: 4-10-92 4-10-92 Verbal Plugging Permission granted on:

Rotary Cable
Total Depth (feet) 2
Fresh water depths (ft) Rig 2993'

Salt water depths (ft)

Is coal being mined in area (Y/N)? Coal Depths (ft):_

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size	 	 	
 		İ	
SEE	ORIGINAL WELL	RECORD	
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	 		·
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OPEN FLOW DATA

(Injection Well)

Producing formation	Gordon	Dan 1 11	
Gas: Initial open flow	MCF /d Oil.	Pay zone depth	$(ft)_{2956} - 2973$
		intriat oben itom	Bb1/c
Time of open flow b	neryu p	final open flow	Bbl/c
Static rock Pressure	ecween initial ar	nd final tests	Hours
	psig (surfac	ce pressure) after	Hours
Second producing formati	O.D.		
Gas: Initial open flow	MCE (d. o.)	Pay zone depth	(ft)
Final open flow	MCF/d O11: I	nitial open flow	Bbl/c
Time of open flow b	etwoon initial	inal open flow	Bbl/c
Static rock Pressure	ncia (and	d final tests	Hours
	psig (surfac	e pressure) after	Hours

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

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For:	PENNZOIL	PRODUCTS	COMPANY

Reviewed	M6
Pacarded	

Timothy P. Roush

By: Supervisor - Surveying/Mapping Date: 3-1-93

STIMULATION

PERFORATIONS:

Gordon 2966' - 2974' 1 Hold Per:Ft. (8 Holes)
Treated with 100-250 Gals. 15% HCL, 10% PAD, 90% MOD 202.

237 Bbls. Gelled Water & 5000# 20/40 Sand.

WELL LOG

See Original Well Record

10 3015

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: WALTERS, JERRY

Operator Well No.: M.H. PENNICK 8

LOCATION:

Elevation: 852.00

Quadrangle: CENTER POINT

District: MCELROY

County: TYLER

Feet South of 39 Deg. 27Min. 30 Sec. Feet West of 80 Deg. 40 Min. 0 Sec. Latitude: 150 Longitude 7650

Company: PENNZOIL PRODUCTS COMPANY

P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON 07/30/90 Permit Issued: Well work Commenced: 9-1-90 10-23-90 Well work Completed: Verbal Plugging Permission granted on:

Rotary X Cable Ri

Total Depth (feet) 3015

Fresh water depths (ft) Salt water depths (ft)

Is coal being mined in area (Y/N)? Coal Depths (ft): N/A

Casing &	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size			To
8-5/8	210	210	surface 160 Sks.
4-1/2	2999.35	2999.35	300 Sks.
	ا ا	·	

OPEN FLOW DATA

Producing formation	Gordon	Pay zone depth (ft)	29/2_3000
Gas: Initial open flow	* MCF/d Oil	: Initial open flow	
rinal open flow	* MCF/d	Final open floor	Bbl/d
Time of open flow	hetween initial	and finel tests	Bbl/d
Static rock Pressure	Detween initial	and rinar tests	Hours
	psig (sur)	face pressure) after	Hours
Second producing format Gas: Initial open flow	ion N/A	Pay zone depth (ft)	
Final open flow	MCE/d OII.	Final open flow	Bbl/d
Time of open flow	her d	rinal open flow	Bbl/d
Time of open flow	permeen initial	and final tests	Hours
Static rock Pressure	psig (surf	ace pressure) after	Hours
* Not tested - liquid inject			

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> For: PENNZOIL PRODUCTS

Date: 1991

Timothy P. Roush

Stimulation

Perforated: Gordon 2966-2974 - 8 holes Treated w/300 gal. reg. HF acid, 294 Bbls. gelled water and 1500# 80/100 & 3500# 20/40 sand.

Well Log

Sand & Shale	00-1510
Shale	1510-1566
Sand	1566-1586
Shale	1586-1596
Sand	1596-1643
Shale	1643-1662
Sand	1662-1645
Shale	1645-1780
Sand	1780-1815
Shale	1815-1824
Sand	1824-1842
Shale	1842-1994
Little Lime	1994-2010
Shale	2010-2054
Big Lime	2054-2154
Big Injun	2154-2303
Shale	2303-2942
Gordon	2942-3000
Shale	3000-3015
T.D.	3015 '



1) Date:	<u>Februa</u>	ry 24,		. 19_92
2) Operator's	М.Н.	PENNICK	NO	0
2) 510 0 :	110.410	THULOR	NO.	<u> </u>

3) SIC Code

API Well NO.

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5. UIC Permit No.

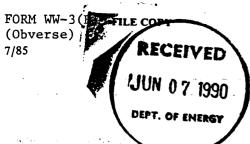
RECEIVED Office of Oil & Gas

		тои	ICE OF	LIQUID I			STATE OF WEST OR WASTE DISPO for the	VIRGINIA SAL WELL W	ORK PERMIT APPLI	ICATION Permitting
				DE	PART	[MEN]	OF ENERGY, OI	L AND GAS D	IVISION 3/20/42	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
							E	xphes		Environmental Protection
6) 7)	WELL TY	PE: Liqu N: Elev	ation:	852'		nj e ction	(not storage)	•	osal	
8)	WELL OP			cElroy oil Pr		ts Co	Coun	ty: Tyle	Quadrangi	e: Center Point 7.1
	Ad	idress		Box 55		05			Address P.O.	Box 5519
10)	OIL & GA			BE NOTI					vienn	a, WV 26105
	Name Address	Rt. #		x 135					NG CONTRACTOR:	
				26426					SS	
12)	PROPOSE	D WELL	WORK:	DrillPlug of			ill deeperion/ Perforate r	/ Redrill		
• • •				Other p	hysical	change	in well (specify)			
	GEOLOGI Estimated						existing well) 29	50	Depth2739fee	et(top) to 2749 feet(bottom)
15)	Approxima	depin of co	rata denti	well, (or ac os: Fresh	ruai de 7	punore 7	existing well) 29feet; salt,	1250		
	Approxima						ieet, sait,	1230 fee	:t.	
	Is coal bein					X_/				
18)	Virgin reser	voir pressu	re in targe	t formatio	n	80	psig. Source	Estimated		
19)	Estimated r	eservoir fra	acture pres	ssure3	<u> 500 </u>	(Bott	om Hole)	psig (BHFP)		
20)	MAXIMUN	M PROPO	SED INJE	CTION O	PERA?	TIONS:	Volume per hour: _	20.8 B	bls. Bottom hole press	sure2340 psi
21)	DETAILE	O IDENTII	FICATION	N OF MAT	ERIA	LS TO B	E INJECTED, INCL	UDING ADDIT	IVES: Fresh and	produced water
221	Trom	String	Coal	tield o	opera	ation	s with bacte	ricides.		
							tridge filte			
					OIEC	I ION A	ND OTHER CORRC	SION CONTRO	L:	
	CASING A	ND TUBI	NG PROC	GRAM						
TUB	ING OR ING TYPE	Size	SPEC Grade	IFICATIONS Weight per ft.	New	Used	FOOTAGE IF	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Condu		0 5 (0		<u> </u>						Kınds
Fresh	water	8 5/8	H-40	24	X		200'	200'	Cmt. to Suri	ace
Coal	adiasa.									Sizes
Produ		4 1/2	J - 55	9.5	X		2945'	2945'	200 81	
Tubing		/-	0 33	<u> </u>			2943	2945	300 Sks.	Depths set
Liners										
										Perforations:
										Top Bottom
25)	APPLICAN	T'S OPER	ATING P	LIGHTS W	Te acc	uired fro	mAlpheus	Glover		
,	by deed			other co	ntract_	/	dated Nov	vember 9,	, <u>x</u> y	- Coold III the
		••••	-,		ounty	CIEFK'S	office in Lease		Book 30	at page 641

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

			OFFIC	CE USE ONLY			
_			DRILI	LING PERMIT			
•	The state of the s						
Permit number	47-095-1420-LI-F	RAC			Marc	h 20	19 92
This permit seven						Date	
No. 8) Prior to the	ring the well operator and well to the conditions contained he construction of roads, location inspector 24 hours before act	ons and nit	s for any nerr	mitted work is addition	n granted to drill in accust be given to the Distr is, the well operator or h	cordance with the rict Oil and Gas his contractor sha	e pertinent legal re Inspector, (Refer to all notify the prope
	rk is as described in the Notice a				tion and reclamation pl	an, subject to an	y modifications and
Permit expires	3-20-94			_unless well work is com	menced prior to that da	te and processus	Lindak ali ili ann
				_	moneca prior to that da	te and prosecuted	with due diligence
Bond:	Agent: Plat:	Casing	Fee				
	- 65	GS	13529		no Din	, 0 -	
					10 rac 1 14	- 24.267	\sim
NOTE: Keep one	e copy of this permit posted at	the drillin	g location.	Vie Directo	r, Oil and Gas	Division	
			•		`	\setminus .	
	PERMIT MODIFICA	TIONS A	ND CONDIT	IONS (IF ANY) TO TH			
This part of Form	IV-3(b) is to record the dates	of carrain		E USE ONLY			
This part of Form	IV-3(b) is to record the dates of	of certain of			itions.		
	D	of certain o		nd any follow-up inspec			Date(s)
Application receive	D			nd any follow-up inspec	etions.		Date(s)
Application receive	D			nd any follow-up inspec			Date(s)
Application receive	Da			nd any follow-up inspec	w-up inspection(s)		Date(s)
Application receive Well work started Total depth reached	Da			nd any follow-up inspec	w-up inspection(s)		Date(s)
Application receive Well work started Total depth reached Well Record receive	De			nd any follow-up inspec	w-up inspection(s),	1	Date(s)
This part of Form Application receive Well work started Total depth reached Well Record receive Reclamation completed	De D			nd any follow-up inspec	w-up inspection(s) , ,.		Date(s)
Application receive Well work started Total depth reached Well Record receive Reclamation comple OTHER INSPECTS	De			nd any follow-up inspec	w-up inspection(s) , ,.		Date(s)
Application receive Well work started Total depth reached Well Record receive Reclamation comple	Detect - TIONS			nd any follow-up inspec	w-up inspection(s) , ,.		Date(s)

PORK WE-3(A)	1) Date February 24, 1992
Obverse	Operator's
	2) Well No. M.H. PENNICK NO. 8
	3) SIC Code 4) API Well No. 47 · - 095 - 142
·	State Coups Permi
STATE OF WEST V	The state of the s
NOTICE OF LIQUID INJECTION OR WASTE DISPO	DSAL WELL WORK PERMIT APPLICATION MILLING GAS
	1 14 6 / 02
DIVISION OF OIL AND GAS, DE	Francisco Contraction of the Con
6) SURFACE OWNER(S) OF RECORD TO BE SERVED 7 (1)	COAL OPERATOR Address
(i) Name Jerry Walters	Vantess
Address Alvy, WV 26322 7 (ii)	COAL OWNER(S) WITH DECLARATION ON RECORD
(ii) None	Name
(11) NAME	Address
Address 7 (iii)	COAL LESSEE WITE DECLARATION ON RECORD:
(iii) Name	Name
Address	Address
TO THE PERSON(S) NAMED ABOVE: You should have receiv	ed this Form and the Tollowing documents:
(1) The Application for a Liquid Injection or Wa	ste Disposal Well Work Permit on Form
WW-3(B), which sets out the parties involved	in the drilling or other work, and
(2) The plat (surveyor's map) showing the well 1	
(3) The Construction and Reclamation Plan on For	
to plug a well), which sets out the plan for reclamation for the site and access road.	erosion and sediment control and for
The date proposed for the first injection or wast	e disposal is, 19
THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU H	AVE RIGHTS REGARDING THE APPLICATION
WHICE ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REV. (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE	ERSE SIDE OF THE COPY OF THE APPLICATION
WHICE ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REV. (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE	ERSE SIDE OF THE COPY OF THE APPLICATION NOT REQUIRED TO TAKE ANY ACTION AT ALL.
WHICE ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REV. (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE Take notice that under Chapter 22B of the West Virgin	ERSE SIDE OF THE COPY OF THE APPLICATION NOT REQUIRED TO TAKE ANY ACTION AT ALL. is Code, the undersigned well operator
WHICE ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REV. (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE Take notice that under Chapter 22B of the West Virgin proposes to file or has filed this Notice and Applica Well Work Permit with the Director of the Division of	ERSE SIDE OF THE COPY OF THE APPLICATION NOT REQUIRED TO TAKE ANY ACTION AT ALL. is Code, the undersigned well operator tion and accompanying documents for a Oil and Gas, West Virginia Department
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WHICE ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REV. (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE Take notice that under Chapter 22B of the West Virgin proposes to file or has filed this Notice and Applica Well Work Permit with the Director of the Division of of Energy, with respect to a well at the location desidenced on attached Form WW-6. Copies of this Notice	ERSE SIDE OF THE COPY OF THE APPLICATION NOT REQUIRED TO TAKE ANY ACTION AT ALL. is Code, the undersigned well operator tion and accompanying documents for a Oil and Gas, West Virginia Department cribed on the attached Application and — e, the Application, the plat, and the
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1)	Date: June	4			90
2)	Operator's Well No. M.	н.	PENN	ICK NO	. 8
3)	SIC Code				
4	API Well NO.	47 St	ate -	095 County	-1420-L]
5.	UIC Permit No.	<u> </u>	ICSI	2095	10/4P
		.0,	MA	1 -1	12, 100

STATE OF WEST VIRGINIA

CE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

6)	WELL TY		id injectio	n_X	Gas is	njection	(not storage)	/ Waste disposa	/	- m. /			
7)	LOCATIO	N: Eleva	ation: 8	14			Wate	ershed: <u>Left</u>	Hand Fork	281			
		Distr	ict:	McE1:			<u>5)</u> Cou	nty: Tyle:	Quadrangl	e: <u>Center Point 7.</u> 5			
8)	WELL OP	ERATOR	Penna	ZOLL P:	roauc	ets C	ompany 374	50 9) DESIGNA	TED AGENTJan	nes A. Crews			
	Ad	ldress	. О. Б	DX DDI					idress P.O. Bo	ox 5519			
			/ienna				-5519		Vienna,	W. Va. 26105-551			
10)					FIED	ter .	,		-				
	Name Glen P. Robinson Address Rt. 1, #6 Mt. Pleasant Est.							. 11) DRILLING CONTRACTOR:					
	Address		al We					Name					
		mine	ar we	LIS, W.	, va.		150	Address					
12	DDODOCE	D 11/61 1			X				·	V			
12)	PROPOSE	D WELL	WORK:	Drill		_/ Dri			/ Stimulate	<u>^</u>			
								new formation/	Convert/				
12)	CEOI OCI	CAL TAD	CETEOD	-	-	Gor	in well (specify)	.5	2720 .	27/0			
13) 14)	GEOLOGI Estimated							OSA	Depth 2/39 fee	et(top) to 2749 feet(bottom)			
15)	Approxima					77		1250	•				
16)	Approxima		•	•	•		feet; salt,	feet.					
17)	Is coal being				/ No	Χ ,			 				
18)	Virgin reser					80	psig. Source	Estimated					
19)			_				psig. Source ttom Hole)						
20)			•					psig (BHFP) 20.8 Rb1	S . Bottom hole pres	22/0			
21)	DETAILE	DIDENTI	FICATIO	NOFMAT	FRIA	I S TO B	FINIECTED INC	LUDING ADDITIV	Es. Eresh and	produced reter			
,	DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh and produced water from Stringtown field operations with bactericides.								produced water				
22)							tridge filt						
23)		, -						OSION CONTROL					
·								OSION CONTROL	***************************************				
24)	CASING A	ND TUBI	NG PRO	GRAM									
CA	SING OR	II	SPEC	IFICATIONS			BOOTACE	INTERNALS		al .			
	BING TYPE		I.	Weight	1	1		INTERVALS	CEMENT FILLUP OR SACKS	PACKERS			
	iuctor	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)				
	water	8-5/8	H-40	24	X		200'	2001		Kinds			
Coal		370	11 40	24	<u>^</u>	ļ	200	200'	Cmt to surf				
	mediate				+	<u> </u>				Sizes			
	uction	4-1/2	J-55	9.5	X		2945'	2945	200 -1	3005019.11			
Tubi				1.5	 ^ `		2743	2943	300 sks.	Depths set 38CSR 18-11.			
Lines					†				1	D. C			
_			1							Perforations:			
		l								Top Bottom			
25)	APPLICA!	NT'S OPE	RATING	RIGHTS w	ere aco	uired fro	m Alpheus	Glover	-4 · _ · · · · · · · · · · · · · · · · · 	ш.			
										·····			
	by deed_	/ le	ase X Tyl	/ other c	ontract.	/	dated	<u>November</u>	2 XX	1896 of record in the			

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

FORM WW-3(A)	1) DateJune 1, 1990
Obverse	Operator's
RECEIVED	2) Well No. M. H. PENNICK NO. 8
(IIIN O. T. 1000)	3) SIC Code
JUN 07 1990) 1	4) API Well No. 47 - 095 -/420 State County Permi
CEPT. OF ENERGY STATE	OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WA	ASTE DISPOSAL WELL WORK PERMIT APPLICATION for the
DIVISION OF OIL AN	ND GAS, DEPARTMENT OF ENERGY
6) SURFACE OWNER(S) OF RECORD TO BE SERVED	7 (i) COAL OPERATOR
(i) NameJerry Walters	Address
Address Alvy, W. Va. 26322	7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD
(ii) Name	Name Address
Address	•
(iii) Name	Name
Address	Address
TO THE DEDCON(C) NAMED ABOVE V	
	ve received this Form and the following documents:
(1) The Application for a Liquid Inject	ion or Waste Disposal Well Work Permit on Form
(2) The plat (surveyor's map) showing the	involved in the drilling or other work, and
	an on Form WW-9 (unless the well work is only
to plug a well), which sets out the	plan for erosion and sediment control and for
reclamation for the site and access	road.
The date proposed for the first injection	n or waste disposal is, 19 .
	HAT YOU HAVE RIGHTS REGARDING THE APPLICATION
WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" OF	N THE REVERSE SIDE OF THE COPY OF THE APPLICATION
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Construction and Bealerstian Plantage Land	his Notice, the Application, the plat, and the
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personally examined and am familiar with	h the / Well Operator /
information submitted in this document a	and all
attachments and that, based on my inquinthose individuals immediately responsible	
obtaining the information, I believe that	le for / Timothy P. Roush at the Its Supervisor, Surveying/Mapping
information is true, accurate, and compl	lete. I
am aware that there are significant pena	alties for Telephone 304-422-6565

submitting false information, including the

possibility of fine and imprisonment.