

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

Well Operator's Report of Well Work

Farm name: Stackpole Heirs Operator Well No.: J. H. Dawson F-12

LOCATION: Elevation: 961' Quadrangle: Centerpoint

District: McElroy County: Tyler
Latitude: 8500 Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 10950 Feet West of 80 Deg. 40 Min. 00 Sec.

Sec. Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in Left VIENNA, WV 26105-5519 Cement |Fill Up| Drilling Tubing | in Well|Cu. Ft. Agent: JAMES A. CREWS Size Inspector: Mike Underwood Permit Issued: 5/20/93 Well work Commenced: Well work Completed: 6/7/93 5/25/94 Verbal Plugging Permission granted on: Rotary X Cable Total Depth (feet) 2966' Fresh water depths (ft) 8-5/8 220' 220' 100 Sks. N/A Salt water depths (ft) N/A 4-1/2 2922.25 2922.25 300 Sks. Is coal being mined in area (Y/N)? N Coal Depths (ft):

OPEN FLOW DATA WATER INJECTION WELL

	Producing formation Gordon Pay zone depth Gas: Initial open flow * MCF/d Oil: Initial open flow Final open flow * MCF/d Final open flow Time of open flow between initial and final	*	'-2882' Bbl/d
*	Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) after Water Injection Well, not tested Second producing formation Pay zone depth		Bbl/d Hours Hours
	Final open flow MCF/d Oil: Initial open flow Time of open flow between initial and final tests	i	Bbl/d Bbl/d Hours
	psig (surface 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,

For:	PENNZOIL PRODUCTS COMPANY	
	Date: 7/8/94	
		JUL 2 12);

Treatment:

Perforated Gordon 2849'-2852' 7 holes 2855'-2858' 7 holes Treated with 300 gal. 15% HCl 325 bbl. gelled water and 1500# 80/100 sand and 5000# 20/40 sand

Well Log:

Sand & Shale	0' - 610'
Sand	610' - 658'
Sand & Shale	658' - 820'
Sand	820' - 860'
Sand & Shale	860' - 1410'
Sand	1410' - 1440'
Sand & Shale	1440' - 1595'
Sand	1595' - 1628'
Shale	1628' - 1780'
Sand	1780' - 1828'
Shale	1828' - 1970'
Little Lime	1970' - 1986'
Pencil Cave	1986' - 2000'
Big Lime	2000' - 2035'
Shale	2035' - 2100'
Big Injun	2100' - 2254'
Shale	2254' - 2822'
Stray	2822' - 2836'
Gordon	2836' - 2882'
T.D.	2966 '
1.0.	2300

FC	ORM	WW-3(B)	FILE COPY
		erse)	
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1)	Date: Ma	ay 10,		. 19_93
2)	Operator's J.	H. DAWS	ON F-1	2
	SIC Code			
4	API Well NO.	47 -		1539-LI
		State	County	Permit
5.	UIC Permit No.			

Draced 06/07/93 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

4 /	=	-	_	Gas in	jection (not storage)	-		286
C OCATION	N: Elevat		961'			9	hed: <u>Stac</u>		
-			<u> 1cElroy</u>				•	Quadrangle	
					s Co	<u>. 374</u> 50	9) DESIGNA	TED AGENT	. Crews
Ade	dress					<u> </u>	Ad	dress P.O. Box	
		Vienna	a, WV	2610)5	1 · · ·		Vienna,	WV 26105
IL & GAS				ED					
lame <u>M</u>							11) DRILLING	CONTRACTOR:	
Address_	Rt.						Name	 	
-	Sale	m, WV	26426	<u> </u>		· · · · · · · · · · · · · · · · · · ·	Address	· · · · · · · · · · · · · · · · · · ·	
(2) PROPOSE	D WELL V	ORK:	DrillX	<u> </u>	√ Dril	deeper		/ Stimulate	X /
•			Plug of	old	formati	on/ Perforate no	w formation/	Convert/	
			Other ph	ysical	change i	in well (specify)			
3) GEOLOGI	CAL TARG	ET FOR						Depth 2850 feet	(top) to 2860 feet (bottom)
(4) Estimated of	depth of co	mpleted w	ell. (or act	ual de	pth of e	xisting well) 2950		•	
I5) Approxima							1168 feet.		
l6) Approxima									
17) Is coal bein				/ No	Χ,				
						psig. Source	Estimat	ed	
19) Estimated r							psig (BHFP)		
20) MAXIMUI	M PROPOS	ED INJE	CTION OF	PERAT	TIONS:			Bottom hole press	ure 2380
									r. produced water
									improve oil recov
			_					•	
24) CASING A	AND TUBI	NG PROC	GRAM			······································			
CASING OR	н	SPEC	IFICATIONS			FOOTAGE II	VTEDVALC	CEMENT FILLUP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	FACELIS
Conductor									Kinds
Fresh water	8 5/8	L.S.	20	X		211	211	Cement to	
Coel								Surface	Sizes
Intermediate		J-55	10.5	Х		. 2950	2950	Cement over	Depths set
Production Production	4 1/2								
	4 1/2			•				Sait Sand	
Production	4 1/2							Salt Sand	Perforations:
Production Tubing	4 1/2							Salt Sand	Perforations: Top Bottom
Production Tubing	4 1/2							Salt Sand	Perforations: Top Bottom
Production Tubing	4 1/2							Salt Sand	
Production Tubing Liners			RIGHTS	ere aco	uired fr	om J.H. & M.	A. Dawson	Sait Sand	
Production Tubing Liners 25) APPLICA	NT'S OPE	RATINGI				omJ.H. & M.			Top Bottom
Production Tubing Liners 25) APPLICA	NT'S OPE	RATINGI	other co	ontract	/	omJ.H. & M. dated office in			

FORM	WW-3(A)
Obver	se	1.33

-----& G13 GU Section MAY 1 2 93 WV Division of Environmental Protection

1) Date <u>May 10, 1993</u>

1) Date May 10,
Operator's
2) Well No. J. H. DAWSON F-12
3) SIC Code
4) API Well No. 47 - 095 - /539
State County Permi

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STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the

DIVISION OF OIL AND GAS. DEPARTMENT OF ENERGY

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6) SURFACE OWNER(S) OF RECORD TO BE SERVED	7 (i) COAL OPERATOR N/A Address
(i) Name Bea Stackpole Heirs	
Address_c/o Darrell Stackpole	7 (ii) COAL OWNER(S) WITH DECLARATION ON RECOR
Alvy, WV 26322	
(::\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NameAddress
	Audress
Address	7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
(iii) Nama	
(iii) Name	Name
Address	Address
	
	ve received this Form and the following documents
WW-3(B), which sets out the parties (2) The plat (surveyor's map) showing to (3) The Construction and Reclamation Pl	an on Form WW-9 (unless the well work is only plan for erosion and sediment control and for
The date proposed for the first injection	n or waste disposal is, 19
WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" OF (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER,	HAT YOU HAVE RIGHTS REGARDING THE APPLICATION N THE REVERSE SIDE OF THE COPY OF THE APPLICATION YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.
well Work Permit with the Director 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	st Virginia Code, the undersigned well operator d Application and accompanying documents for a vision of Oil and Gas, West Virginia Department ation described on the attached Application and his Notice, the Application, the plat, and the mailed by registered or certified mail or delivry by publication in certain circumstances) on or Director.
The person signing this document shall make following certification:	the
"I certify under penalty of law that I is personally examined and am familiar with information submitted in this document.	h the Well Operator
attachments and that, based on my inqui	ry of By finally Co
those individuals immediately responsib obtaining the information, I believe the	le for Timothy P.7 Roush at the Its Supervisor - Surveying/Mapping
information is true, accurate, and comp	lete. I
am aware that there are significant pen- submitting false information, including possibility of fine and imprisonment.	alties for Telephone (304) 422-6565 the
	•

	FICE USE ONLY
DR.	RILLING PERMIT
	The state of the second
Permit number 47-095-1539-LI	June 7th. 19 9
	Date
quirements subject to the conditions contained herein and on the re	low is evidence of permission granted to drill in accordance with the pertinent legal everse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer permitted work. In addition, the well operator or his contractor shall notify the prok has commenced.)
The permitted work is as described in the Notice and Application, pl conditions specified below.	lat, and (if required) construction and reclamation plan, subject to any modifications a
Permit expires 6-7-95	unless well work is commenced prior to that date and prosecuted with due diligen
	——————————————————————————————————————
Bond: Agent: Plat: Casing C	934
NOTE: Keep one copy of this permit posted at the drilling location	on. CHIEF, OFFICE OF OIL AND GAS
OI	FFICE USE ONLY
Ol This part of Form IV-3(b) is to record the dates of certain occurre	
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This part of Form IV-3(b) is to record the dates of certain occurre Date Application received Well work started Total depth reached	Follow-up inspection(s) Follow-up inspection(s) ,
This part of Form IV-3(b) is to record the dates of certain occurre Date Application received Well work started Total depth reached Well Record received	Follow-up inspection(s) Date(s) Follow-up inspection(s)
This part of Form IV-3(b) is to record the dates of certain occurre Date Application received Well work started Total depth reached Well Record received Reclamation completed OTHER INSPECTIONS	Follow-up inspection(s) Date(s) Follow-up inspection(s)