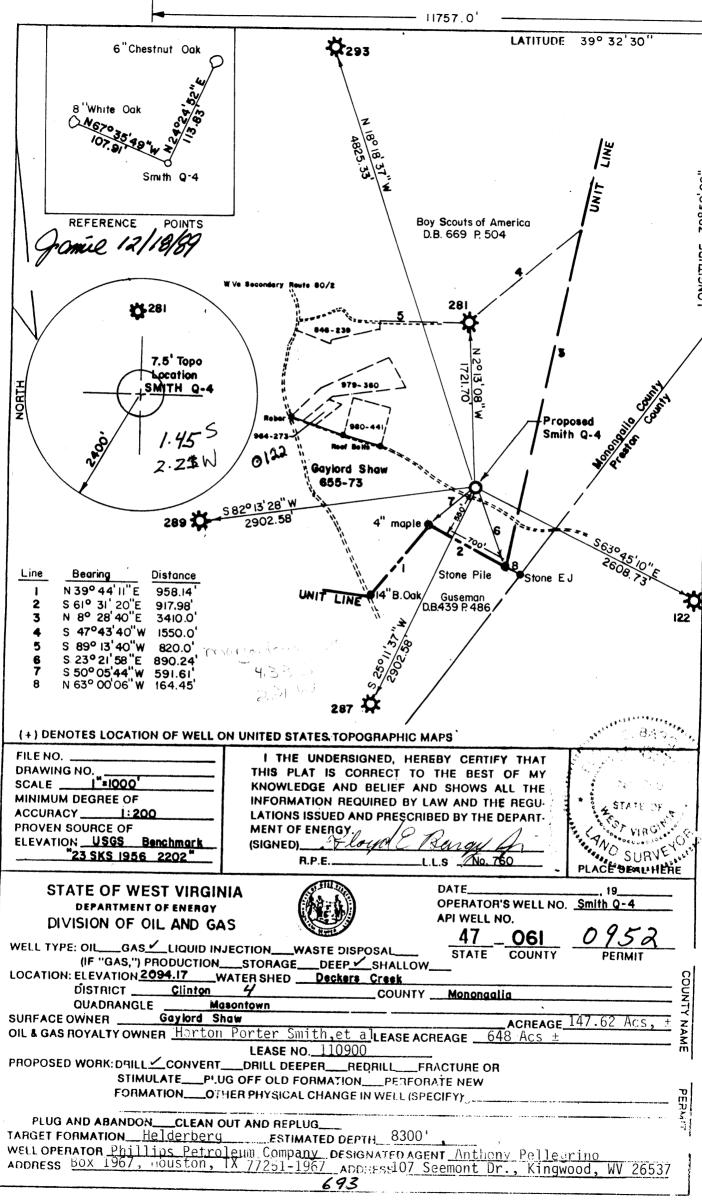
- 11757.0' -





DEPARTMENT OF ENERGY Gil und Vas Bivision

Date July , 1990
Operator's Smith-Q #4 Farm Horton Porter Smith API No. 47 - 061 - 0952

RECEIVED JUL 16 1990 DEPT. OF ENERGY

WELL OPERATOR'S REPORT

OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Oil___/ Gas_X/ Liquid Injection__/ Waste Disposal__/
(If "Gas," Production__/ Underground Storage__/ Deep_X_/ Shallow__/) WELL TYPE:

LOCATION: Elevation: 2094.17 Watershed Deckers Creek District: Clinton county Monongalia Quadrangle Masontown

COMPANY Phillips Petroleum Company					=		
ADDRESS Box 1967, Houston, TX 77251				1	-		
DESIGNATED AGENT Anthony Pellegrino	Casing	Used in	Left	Cement fill up			
ADDRESS110 Seemont, Kingwood, WV	Tubing	Drilling	in Well	Cu. ft.			
SURFACE OWNER Gaylord & Dorothy Shaw	Size 20-16]		
ADDRESS Rt.10, Bx 56, Morgantown, WV	Cond.						
MINERAL RIGHTS OWNER -	13 3/8"	163	163	193	7		
ADDRESS -	9 5/8	1520	1520	680]		
OIL AND GAS INSPECTOR FOR THIS Don Ellis 2604 Crab Apple Ln, Fairmont, WV	8 5/8 7				1		
PERMIT ISSUED 12-18-89	5 1/2	8026	8026	540	1		
DRILLING COMMENCED 1-27-90	4 1/2				1		
DRILLING COMPLETED 2-14-90	3				1		
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2 3/8"		7700	-			
WALLANDOWS PROGRESSION FROM DETTI TAKE OF	Liners				1		
REMORKING. VERBAL PERMISSION OBTAINED ON	used				<u> </u>		
GEOLOGICAL TARGET FORMATION Helderberg		Depti	ı804	4' feet			
Depth of completed well 8116'* feet A	IR X	/ Cable	Tools		(* 8026 '	PBTI	
Water strata depth: Fresh 110', 710', 385', 147', 180' SALT: 2700' Coal seam depths: 285-287', 225-235' Is coal being mined in the area? No							
Coal seam depths: 285-28/', 225-235'	Is coal be	eing mined	in the a	rea? No			
OPEN FLOW DATA							
Producing formation Huntersville	Day -	rono donth	7620-7	830 i _e .			
Gas: Initial open flow 124 Mcf/d o	iuy /	al coop 6	low 0				
Final open flow 123 Mcf/d		open flo		Bbl/d			
Time of open flow between initia	l and fine	open 110	72	Bb1/d			
Static rock pressurepsig(surface)	mescuremen	theses	72 nour	S			
(If applicable due to multiple completion-)	c, arcer_	nours	snut in			
Second producing formation	, Pav 2	one domb		£ .			
Gas: Initial open flow Mcf/d O	il: Initi	aj open e.		feet			
Final open flow Mcf/d 0	il: Final	open fla		Bb1/d			
Time of open flow between initia	l and fina) tests	, house	Bb1/d			
Static rock pressurepsig(surface m	easurement	after_	hours	shut in			
		(Continue	on rever	rse side)	JUL 20	1990	

(* 8026' PBTD

****** SEE ATTACHED: PERF/ACIDIZE/FRAC REPORT *********

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Big Injun Gordon Bayrd Speechly Tully Huntersville Chert Oriskany Helderburg	782' 1475' 1826' 2498' 7087' 7618' 7968' 8044'		
7018 3044 3524 7968 2094 5874	8044 2094 305 0		

(Attach separate sheets as necessary)

	Phillips Petroleum Company						
Well Op	//:						
By: <u> </u>	Sout-	P.D.	Bai	rrington,	Prod.	Engr.	Dir.
Date:		July	9,	1990			

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including wil, encountered in the drilling of a well."

SMITH Q-4

```
Perf: 7750' - 7830' w/2spf
Acidized w/3000 gal 15% FE acid. Max perssure = 3650 psi
 3/09/90
 3/11/90
                Flow and swab back load.
                Frac with -
3/16/90
                        8400 gal 50/50 MeOH Prepad
                        39,900 gal pad: Purgel II containing 22,600 lbs sand 0 1/2-1 ppg
                        22,974 gal Purgel II containing 79,000 lbs sand
                                0 1/2-6 ppg
                        Initial rate
                                           9.7 BPM @ 6758 psi
                        Final rate
                                           20.6 BPM @ 8580 psi
                                           4411 psi
                        ISIP
                                           4033 psi
3697 psi
3576 psi
                        5-mins
                        10-mins
                        15-mins
                        Flow and swab back load
               Perf: 7620' - 7700' w/2spf
Acidized w/3000 gal 15% FE acid
Initial rate 3.5 BPM @ 2900 psi
Average rate 5.0 BPM @ 3400 psi
5/1/90
                       Final rate
                                           5.0 BPM @ 3600 psi
                       ISIP
                                           2600 psi
                       5-mins
                                           2400 psi
                       10-mins
                                           1950 psi
                       Flow and swab back load
               Frac: 7620' - 7700' with
5/24/90
                       24 bb1s
                                          28% HCl acid
                       60 bb1s
                                            5% HC1 acid pad
                       265 bb1s
                                           5% HCl gelled acid w/0.25 ppg sand
                       250 bb1s
                                           5% HCl gelled acid w/0.50 ppg sand
5% HCl gelled acid w/0.75 ppg sand
5% HCl gelled acid w/1.00 ppg sand
                       350 bb1s
                       222 bb1s
                       133 bb1s
                                           flush
               Average pressure
                                           4784 psi
               Average rate
                                           24 BPM
               Flow and swab back load
```

Phillips Petroleum Company
Well Operator

By: July 9, 1990

JUL 20 1990

FORM WW-2B

DEPARTMENT OF OF WEST VIRGINIA			Pa
PARTICIPATION OF	OTT.	AND	GAS.
WELL WORK PERMIT APPLICATI	'ON		

***		WELL.	WORK PERMI	T APPLICATI	ON		
1) Well O	perator:		/1		38600 (4	461	
			Smith-Q	#1		Clevation:2094	
4) Well ty	/pe: (a)	0il_/	or G	as <u>X</u> /	J/ E	revacion:	
• .			Production		ground Stora	ge/	
5) Propose	d Target	Formatio	on(s): Held	derberg 485	Shall	ow/	
			50				
					710' 385.	147! Pa!	
				2700' in #1 w		1//100	
					n #2 well , 22	2/ 225/	
10) Does la	nd conta:	in coal s	eams tribu	tary to act	ive mine?	es/ No_X	
11) Proposed	i Well Wo	ork: Drill	and Complet	0 0 000 11-77		,	
12)				ALL & ST	timulate /	New Well.	
TYPE	S	PECIFICAT	•				
				FOOTAGE I	NTERVALS	CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up	
Conductor	13 3/8"	H-40	48#	120'	120'	(cu. ft.)	
Fresh Water	9 5/8"	J-55	40#	1500'	1500'	470	
Coal						3868718113	
Intermediate						3675418-11-24	
Production	5 1/2"	J-55	15.5#	7950'	7950'	350	
Fubing	2 3/8"	J - 55	4.7#		7700'	383R1811-3	
Liners					MA	7	
PACKERS : Kind					- Otto		
Sizes							
	Fo	r Divison	of Oil ar	nd Gas Use	Only		
Fee(s) paid: Well Work Permit II Reclamation Fund WPCP FI Plat WW-9 WW-2B Bond 450 Justy Agent							
				* * 44			

Page 1 of 1 Form WW2-A (09/87) File Copy



DEPARTMENT OF LINERGY

Date	e:October 23, 1989	
	rator's well number Smith Q-4	
API	Well No: 47 - 061 - 0952	

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

	NOTICE AND APPLICATION F	OR A WELL WORK PERMIT
4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
3)	(a) Name <u>Gaylord & Dorothy Shaw</u>	Name
	Address Dt 10 Roy 56	Address
	Address Rt. 10. Box 56 Morgantown, WV 26505	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name
		Address
	(c) Name	Address
	Address	Name
	Address	Address
		Address
6)	Inspector Don Ellis	(c) Coal Lessee with Declaration
0)	Address 2604 Crab Apple Lane	· ·
	Fairmont, WV 26554	Name
	Tallimolic, WV 20004	Address
	Telephone (304)- <u>534-5596</u>	
cont	Included is the lease or leases or racts by which I hold the right to	extract oil and gas <u>OR</u>
X	Included is the information requir	ed by Chapter 22B, Article 1,
Sect	ion 8(d) of the Code of West Virgin	ia (see page 2)
		hapter 22B of the West Virginia Code
I ha	ve served copies of this notice and	
	mpanying documents pages 1 through	
	Personal Service (Affidavit a	
	X Certified Mail (Postmarked po	
	Publication (Notice of Public	
	Publication (Notice of Public	acton accached)
	he terms and conditions of any perm	t I have personally examined and am
		ry of those individuals immediately
resp	onsible for obtaining the informati	on. I believe that the information
	rue, accurate, and complete.	,
		ant penalties for submitting false
info		
11110	rmation, including the possibility Well Operator	/ Phillips Petroleum Company
	By:	(Morgan Jones)
		op Area Manager
	Address Box 1	
		con, TX 77251-1967
	Telephone (7(3)	Y 669-3/62
Subs	cribed and sworn before me this 23	May of October 23rd. , 1989
	Bonnie J. Anderso	Notary Public
му с	commission expires/	BONNIE J. ANDERSON

Notary Public, State of Texas