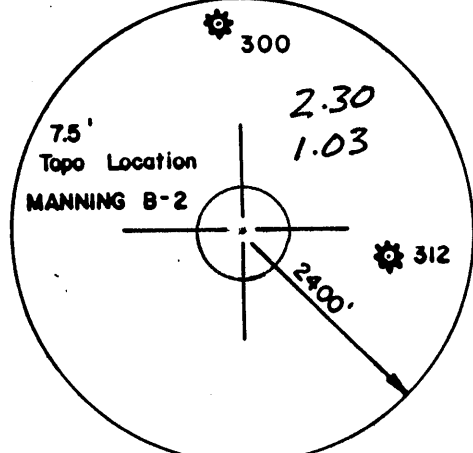
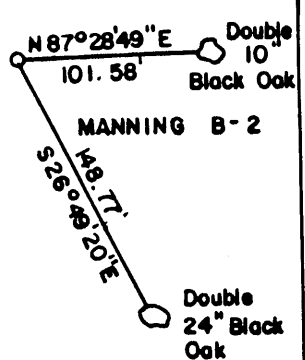


REFERENCE POINTS



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS Triangulation Scout 2157

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) F. Lloyd E. Barry Jr.
 R.P.E. _____ L.L.S. No. 760

PLACE SEAL HERE

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



DATE _____, 19____
 OPERATOR'S WELL NO. MANNING B-24
 API WELL NO. 47-061-0951
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2042.61 WATERSHED Boyd Run
 DISTRICT Clinton District 4 COUNTY Monongalia
 QUADRANGLE Morgantown South Mgtn 15 SC
 SURFACE OWNER Howard J. Trickett ACREAGE 156 Acs ±
 OIL & GAS ROYALTY OWNER Carl Edward Gustkey, et al LEASE ACREAGE 156 Acs ±
 LEASE NO. 108454

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Helderberg ESTIMATED DEPTH 7800'
 WELL OPERATOR Phillips Petroleum Company DESIGNATED AGENT Anthony Pellegrino
 ADDRESS P.O. Box 1967, Houston, TX 77251- ADDRESS 107 Seemont Dr., Kingswood, WV
 1967 693 26537

DEEP WELL 6-6 South Burns Chapel (313)

DEC 22 1989

FORM WW-6

COUNTY NAME PERMIT



WR-35

Date June 18, 1990

State of West Virginia

Operator's Well No. Manning B#2

DEPARTMENT OF ENERGY
Oil and Gas Division

Farm Howard J. Trickett

API No. 47 - 610 - 0951

061

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED
Division of Energy

JUN 22 1990

Permitting
Oil and Gas Section

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 2042.61 Watershed Boyd Run

District: Clinton County Monongalia Quadrangle Morgantown South

COMPANY Phillips Petroleum Co.
ADDRESS Box 1967, Houston, TX 77251
DESIGNATED AGENT Anthony Pellegrino
ADDRESS 110 Seemont Dr, Kingswood, WV
SURFACE OWNER Howard J. Trickett
ADDRESS 2699 Pontius Rd, Hartsville, OH
MINERAL RIGHTS OWNER -
ADDRESS -

OIL AND GAS INSPECTOR FOR THIS WORK Don Ellis
2604 Crabapple Lane, Fairmont, WV

PERMIT ISSUED 12/18/89

DRILLING COMMENCED Spud: 2/18/90

DRILLING COMPLETED RDRT: 3/23/90

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13- 3/8"	120'	120'	70
9 5/8	1500'	1500'	470
8 5/8			
7			
5 1/2	7800'	7800'	300
4 1/2			
3			
2 3/8"		7600'	
Liners used	N/A		

GEOLOGICAL TARGET FORMATION Helderberg Depth 7800' feet

Depth of completed well 8058' feet Air X / Cable Tools

Water strata depth: FW: 70'-1280'-1350'-1069'-1160' (no SW logged)

Coal seam depths: 237' (2' thick) Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Huntersville Pay zone depth 7650' feet

Gas: Initial open flow 250 Mcf/d Oil: Initial open flow - Bbl/d

Final open flow 260 Mcf/d Final open flow - Bbl/d

Time of open flow between initial and final tests 60 hours

Static rock pressure 2265 psig (surface measurement) after 168 hours shut in
(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

JUN 29 1990

PERF: 7758'-7672' @ 1-SPF, 120° phase, 3-3/8" csg gun

FRAC: 24-bbls 28% HCl prepac
1194-bbls 5% HCl gel acid + 30,000# 20/40 Sand
ISIP: 2241 psi
Avg rate: 33.5 BPM
Avg pmp press: 4180 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Tully Limestone			7110'		
Huntersville Chert			7650'		
Oriskany Sandstone			7860'		
Helderberg Limestone			7966'		
Only one COAL seam was cut, and that was from a .2' thick seam at 237'					
<u>NOTE:</u> The Manning B#2 Gas Well was permitted to 7800', but it was drilled to a TD of 8058' (still in the target formation of the Helderberg Lime). The change in TD was due to the fact that the Marcella formation came in lower than expected with the top at 7410'. WV O&G (Jamie Stevens) was advised 3/20/90.					

(Attach separate sheets as necessary)

Phillips Petroleum Company
Well Operator
By: John R. Lee Director of Engineering
Date: June 18, 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 all encountered in the drilling of a well."

orig - back on 6/29



MR-35 revised 6/29/90

Date June 18, 1990
Operator's Manning B#2
Well No. Howard J. Trickett
Farm
API No. 47 - 00/ - 0951

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Revise



WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep X / Shallow ___ /)

LOCATION: Elevation: 2042.61 Watershed Boyd Run
District: Clinton County Monongalia Quadrangle Morgantown South

COMPANY Phillips Petroleum Co.
ADDRESS Box 1967, Houston, TX 77251
DESIGNATED AGENT Anthony Pellegrino
ADDRESS 110 Seemont Dr, Kingswood, WV
SURFACE OWNER Howard J. Trickett
ADDRESS 2699 Pontius Rd, Hartsville, OH
MINERAL RIGHTS OWNER -
ADDRESS -
OIL AND GAS INSPECTOR FOR THIS Don Ellis
2604 Crabapple Ln, Fairmont, WV
PERMIT ISSUED 12/18/89
DRILLING COMMENCED 2/18/90
DRILLING COMPLETED 3/23/90
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing Tubing Size 20-16 Cord.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
13 3/8"	120'	120'	70
9 5/8	1500'	1500'	470
8 5/8			
7			
5 1/2	7800'	7800'	300
4 1/2			
3			
2 3/8"		7600'	
Liners used	N/A		

GEOLOGICAL TARGET FORMATION Helderberg Depth 7800' feet
Depth of completed well 8058' feet AIR X / Cable Tools
Water strata depth: Fresh 70'-1280'-1350' 1069'-1160' (no SW logged)
Coal seam depths: 237' (2' Thick) Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Huntersville Pay zone depth 7650' feet
Gas: Initial open flow 250 Mcf/d Oil: Initial open flow - Bbl/d
Final open flow 260 Mcf/d Final open flow - Bbl/d
Time of open flow between initial and final tests 60 hours
Static rock pressure 2265 psig (surface measurement) after 168 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

JUL 6 1990 (Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perf: 24-bbls 28% HCl prepad
 1194-bbls 5% HCl gel acid + 30,000# 20/40 sand
 ISIP: 2241 psi
 Avg rate: 33.5 BPM
 Avg pmp press: 4180 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Coal			238'		
Big Injun			776'		
Speechley			2505'		
Tully Limestone			7110'		
Huntersville Chert			7650'		
Oriskeny Sandstone			7860'		
Helderberg Limestone			7966'		

Only one COAL seam was cut, and that was from a 2' thick seam at 237'

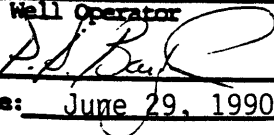
NOTE: The Manning B#2 Gas Well was permitted to 7800', but it was drilled to a TD of 8058' (still in the target formation of the Helderberg Lime). The change in TD was due to the fact that the Marcella formation came in lower than expected with the top at 7410'. West Vir. Oil & Gas (Jamie Stevens) was advised 3/20/90.

(Attach separate sheets as necessary)

Phillips Petroleum Company

Well Operator

By:



Director of Production Engineering

Date:

June 29, 1990 (original: 6/18/90)

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

Date: June 18, 1990

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

Operator's Well No. Manning B#2

API Well No. 47 - 610 - 0951
State County Putnam

RECEIVED
JUN 22 1990

Permit
Oil and Gas Section

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Phillips Petroleum Co.
Address Box 1967
Houston, TX 77251-1967

DESIGNATED AGENT Anthony Pellegrino
Address 110 Seemont Drv.
Kingswood, WV

GEOLOGICAL TARGET FORMATION: Helderberg Depth 7800' feet
Perforation Interval 7672'-7758' feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-38, "Report of Annual Production" (see Regulation 01.01)
- 5- Separate Form IV-38 for each producing formation in a multiple completion

TEST DATA			
START OF TEST-DATE <u>6-3-90</u>	TIME <u>11:00 AM</u>	END OF TEST-DATE <u>6-5-90</u>	TIME <u>11:00 PM</u>
DURATION OF TEST <u>60 hrs.</u>			
TUBING PRESSURE <u>175</u>	CASING PRESSURE <u>650</u>	SEPARATOR PRESSURE <u>-</u>	SEPARATOR TEMPERATURE <u>-</u>
OIL PRODUCTION DURING TEST <u>0</u> bbls.	GAS PRODUCTION DURING TEST <u>687</u> Mcf	WATER PRODUCTION DURING TEST & SALINITY <u>1</u> bbls. <u>125,000</u> ppm	
OIL GRAVITY <u>N/A</u>	PRODUCING METHOD (flowing, pumping, gas lift, etc.) <u>*API FLOW</u>		
GAS PRODUCTION			
MEASUREMENT METHOD FLANGI TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>		POSITIVE CHOKES CRITICAL FLOW PROVEN <input checked="" type="checkbox"/>	
ORIFICE DIAMETER <u>0.750</u>	PIPE DIAMETER (INSIDE DIAM.) <u>4.026</u>	NOMINAL CHOKES SIZE - IN. <u>48/64</u>	
DIFFERENTIAL PRESSURE RANGE		PROVER & ORIFICE DIA. - IN.	
DIFFERENTIAL <u>35</u>	STATIC <u>140</u>	GAS GRAVITY (AIR=1.0) MEASURED ESTIMATED: <u>X</u>	
GAS GRAVITY (AIR=1.0) <u>0.57</u>	FLOWING TEMPERATURE <u>100</u>	GAS TEMPERATURE <u>100</u> °F	
24 HOUR COEFFICIENT		24 HOUR COEFFICIENT	
		PRESSURE - psia	
TEST RESULTS			
DAILY OIL <u>0</u> bbls.	DAILY WATER <u>1</u> bbls.	DAILY GAS <u>260</u> Mcf.	GAS-OIL RATIO <u>N/A</u> SCF/STB

Phillips Petroleum Company

Well Operator

By: John R. Lee John R. Lee
Its: Director of Engineering

RECEIVED
OCT 26 1999

061 951

Issued 12/18/89
Expires 12/18/91

FORM WW-2B

Page ___ of ___

DIVISION OF OIL & GAS STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Phillips Petroleum Company ⁶⁹³ 38600 (4) 461
- 2) Operator's Well Number: Manning B-2 3) Elevation: 204
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow ___
- 5) Proposed Target Formation(s): Helderberg 485
- 6) Proposed Total Depth: 7800' feet
- 7) Approximate fresh water strata depths: 70', 1280', 1350', 1069', 1160'
- 8) Approximate salt water depths: unknown
- 9) Approximate coal seam depths: unknown ~~_____~~ ~~_____~~ ~~_____~~
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X
- 11) Proposed Well Work: Drill and Complete a gas well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8"	H-40	48#	120'	120'	70
Fresh Water	9 5/8"	J-55	40#	1500'	1500'	470
Coal						38CSR18-11.3 38CSR18-11.2
Intermediate						
Production	5 1/2"	J-55	15.5#	7800'	7800'	300
Tubing	2 3/8"	J-55	4.7#		7600'	38CSR18-11.1
Liners						

9782

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

131382
27

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond \$50 Surety Agent

RECEIVED
OCT 26 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: October 20, 1989
Operator's well number
Manning B-2
API Well No: 47 - 061 - 0951
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Howard J. Trickett
Address 2699 Pontius Road
Hartsville, Ohio 44632
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____

6) Inspector Don Ellis
Address 2604 Crab Apple Lane
Fairmont, WV 26554
Telephone (304)-534-5596

(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by:

- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Phillips Petroleum Company
By: P.D. Bairrington (P.D. Bairrington)
Its: Production Engineering Director
Address Box 1967
Houston, Texas 77251-1967
Telephone (713) 669-3553

Subscribed and sworn before me this 20th day of October, 1989

Bonnie J. Anderson
My commission expires 9-8-92 Notary Public