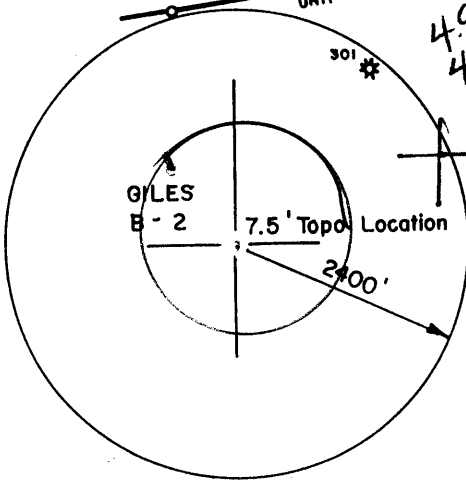
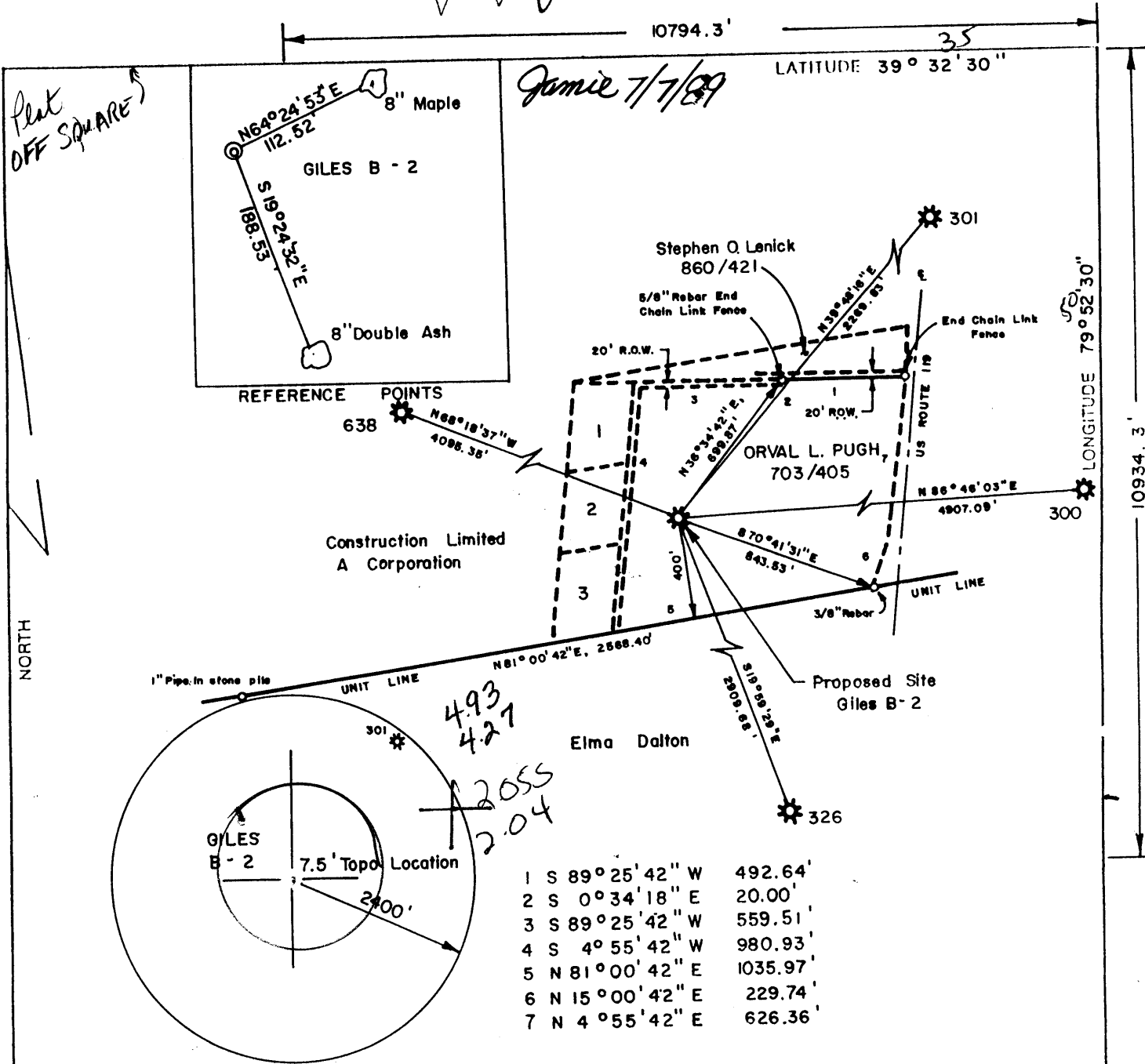


✓✓✓

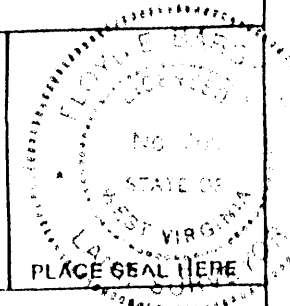


1	S 89° 25' 42" W	492.64'
2	S 0° 34' 18" E	20.00'
3	S 89° 25' 42" W	559.51'
4	S 4° 55' 42" W	980.93'
5	N 81° 00' 42" E	1035.97'
6	N 15° 00' 42" E	229.74'
7	N 4° 55' 42" E	626.36'

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION: USGS Benchmark "16 SKS 1956 2046"

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) Raymond E. Bandy Jr.
 R.P.E. _____ L.L.S. No. 760



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



DATE _____ 1989
 OPERATOR'S WELL NO. Giles B-2
 API WELL NO. 47-061-0934
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP SHALLOW _____
 LOCATION: ELEVATION 2031.83 WATERSHED Booths Creek
 DISTRICT Clinton 4 COUNTY Monongalia
 QUADRANGLE Morgantown South W Va. 485 0849 Morgantown 15' SC
 SURFACE OWNER Orval L. Pugh ACREAGE 23.2393 ac.
 OIL & GAS ROYALTY OWNER Union Natl. Bank WV T. Tee, et al LEASE ACREAGE 256.00 ac.
 LEASE NO. 121032

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 8000'
 WELL OPERATOR Phillips Petroleum Company DESIGNATED AGENT Anthony Pellegrino
 ADDRESS P.O. Box 1967, Houston, TX 77251-1967 ADDRESS _____

FORM WW-6
 T. HALL 4673

COUNTY NAME
 PERMIT

AUG 11 1989

DEEP WELL 6.6 South Burns Chapel (313)

WR-35

RECEIVED
 Department of Energy
 JUN 22 90
 Permitting
 Oil and Gas Section



State of West Virginia
 DEPARTMENT OF ENERGY
 Oil and Gas Division

Date June, 1990
 Operator's Well No. Giles B#2
 Farm Orval Pugh
 API No. 47-061-0934

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 ___ / Shallow ___)

LOCATION: Elevation: 2031.83 Watershed Booths Creek
 District: Clinton County Monongalia Quadrangle Morgantown South, WV

COMPANY Phillips Petroleum Company
 ADDRESS Box 1967, Houston, TX 77251
 DESIGNATED AGENT Anthony Pellegrino
 ADDRESS 110 Seemont Dr, Kingswood, WV
 SURFACE OWNER Edythe M. Pugh
 ADDRESS Rt.9, Box 107C, Morgantown, WV
 MINERAL RIGHTS OWNER -
 ADDRESS -
 OIL AND GAS INSPECTOR FOR THIS WORK Don Ellis
2604 Crabapple Lane, Fairmont, WV26554
 PERMIT ISSUED 8-10-89
 DRILLING COMMENCED Spud: 10-12-89
 DRILLING COMPLETED Mort: 11-02-89
 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 Cord.			
13	100'	100'	70'
9 5/8	1500'	1500'	470
8 5/8			
7			
5	8000'	8000'	303
4 1/2			
3			
2 3/8		7800'	
Liners used	N/A		

GEOLOGICAL TARGET FORMATION Helderberg Depth 7923' feet
 Depth of completed well 7931' feet Rotary AIR / Cable Tools ___
 Water strata depth: Fresh 25-70-1250' Salt N/A feet
 Coal seam depths: 75' & 80' Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Onondaga Chert Pay zone depth 7680' feet
 Gas: Initial open flow 413 Mcf/d Oil: Initial open flow - Bbl/d
 Final open flow 328 Mcf/d Oil: Final open flow - Bbl/d
 Time of open flow between initial and final tests 48 hours
 Static rock pressure 1604 psig (surface measurement) after 24 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

JUN 29 1990

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

11/19/89: Perf 7700-7686' (14') 2-JSPF, 3/38" Gun. Acidize w/300 gal 15% FE Acid (7670-7700')

11/29/89: Frac w/HOWCO 120,000# 20/40 Sand + 80,000 gal XLINK Gel
ISIP: 3500 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
Sand & Shale			0	1713'	
5th. Sand			1713'	1735'	
1st. Speechley Sand			2508'	2535'	
Marcellus Shale			7550'	7648'	
Onondaga Limestone			7648'	7662'	
Huntersville Chert			7662'	7856'	
Oriskany Sandstone			7856'	*7923'	
Helderberg Limestone			*7923'	*8000' TD	

NOTE: No COAL was logged throughout the operation

* - revision

(Attach separate sheets as necessary)

Phillips Petroleum Company
Well Operator
By: John R. Lee
Date: Director of Engineering

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 ... encountered in the drilling of a well."

REC'D
Division
JUN 22 90
Permitting
Oil and Gas Section

Date: June 15, 19 90

Operator's Well No. Giles B#2

API Well No. 47 - 061 - 0934
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

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

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

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

GEOLOGICAL TARGET FORMATION: Helderberg Depth 7923' feet
Perforation Interval 7700-7686', 7686-7670' 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 21.01)
- 5- Separate Form IV-38 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE <u>1/28/90</u>	TIME <u>0730 A</u>	END OF TEST-DATE <u>1/29/90</u>	TIME <u>1630 P</u>	DURATION OF TEST <u>33 hrs</u>
TUBING PRESSURE <u>330</u>	CASING PRESSURE <u>550</u>	SEPARATOR PRESSURE <u>200</u>	SEPARATOR TEMPERATURE	
OIL PRODUCTION DURING TEST <u>0</u> bbls.	GAS PRODUCTION DURING TEST <u>347</u> Mcf		WATER PRODUCTION DURING TEST & SALINITY <u>17</u> bbls. <u>153,000</u> grs.	
OIL GRAVITY <u>N/A</u>	*API	PRODUCING METHOD (flowing, pumping, gas lift, etc.) <u>FLOW</u>		

GAS PRODUCTION		
MEASUREMENT METHOD FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>		POSITIVE CHOKE CRITICAL FLOW <input checked="" type="checkbox"/> <input type="checkbox"/>
ORIFICE DIAMETER <u>1.00</u>	PIPE DIAMETER (INSIDE DIAM.) <u>4.026</u>	NOMINAL CHOKE SIZE - in. <u>18/64</u>
DIFFERENTIAL PRESSURE RANGE		PROVER & ORIFICE DIA. - in.
DIFFERENTIAL <u>12</u>	STATIC <u>250</u>	GAS GRAVITY (AIR=1.0) MEASURED ESTIMATED: <input checked="" type="checkbox"/> <input type="checkbox"/>
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>17</u> bbls.	DAILY GAS <u>252</u> Mcf.	GAS-OIL RATIO <u>N/A</u> SCF/STB

Phillips Petroleum Company
Well Operator

By: John R. Lee

Its: Director of Engineering

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

11-19-89: PERF 7700'-7686' (14') 2-JSPF 3/38" Gun Acidize with 300 gal 15% FE Acid (7670'-7700')

11-29-89: FRAC w/Howco 120,000# 20/40 Sand + 80,000 gal XLINK Gel
ISIP: 3,500 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
Sand & shale			0	1713'	
5th. Sand			1713'	1735'	
1st. Speechley Sand			2508'	2535'	
Marcellus Shale			7550'	7648'	
Onondaga Limestone			7648'	7662'	
Huntersville Chert			7662'	7856'	
Oriskany Sandstone			7856'	7940'	
Helderberg Limestone			7940'	8000' TD	

revisions

[Note: No COAL was logged throughout the operation]

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APR 03 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Phillips Petroleum Company
Well Operator
By: P.D. Bairrington, Director Production Engineering
Date: 4-5-90 (Revised)...3-28-90 (Original)

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."

APR 20 1990

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APR 09 1990

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date _____
Operator's _____
Well No. Giles B#2
Farm Orval Pugh
API No. 47 - 061 - 0934

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY 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 X / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 2031.83 Watershed Booths Creek
District: Clinton County Monongalia Quadrangle Morgantown South WV

COMPANY Phillips Petroleum Company
ADDRESS Box 1967, Houston, TX 77251
DESIGNATED AGENT Anthony Pellegrino
ADDRESS 110 Seemont Dr, Kingswood, WV
SURFACE OWNER Edythe M. Pugh
ADDRESS Rt.9, Box 107C, Morgantown, WV
MINERAL RIGHTS OWNER -
ADDRESS -
OIL AND GAS INSPECTOR FOR THIS WORK Don Ellis
2604 Crabapple Lane, Fairmont, WV 26554
PERMIT ISSUED 8-10-89
DRILLING COMMENCED SPUD: 10-12-89
DRILLING COMPLETED MORT: 11-02-89
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-XXX	100'	100'	70
9 5/8	1500'	1500'	470
8 5/8			
7			
5 1/2	8000'	8000'	303
4 1/2			
3			
2 3/8	-	7800'	
Liners used	N/A		

GEOLOGICAL TARGET FORMATION Helderberg Depth 8000' feet
Depth of completed well 7931' feet Rotary AIR / Cable Tools
Water strata depth: Fresh 25'-70' feet; Salt N/A feet
Coal seam depths: 75' & 80' Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Onondaga Chert Pay zone depth 7680' feet
Gas: Initial open flow 413 Mcf/d Oil: Initial open flow - Hbl/d
Final open flow 328 Mcf/d Final open flow - Hbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 1604 psig (surface measurement) after 24 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 _____ Hbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Hbl/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)

APR 20 1990

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

11-19-89: PERF 7700'-7686' (14') 2-JSPF 3-3/8" Gun Acidize with 3000 gal 15%
 7686'-7670' (16') " " " EE Acid (7670'-7700')

11-29-89: FRAC w/HOWCO 120,000# 20/40 Sand + 80,000 gal XLINK Gel
 ISIP: 3,500 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
5th. Sand			1713'	1735'	
1st. Speechley Sand			2508'	2535'	
Marcellus Shale			7550'	7648'	
Onondaga Limestone			7648'	7662'	
Huntersville Chert			7662'	7856'	
Oriskany Snadstone			7856'	7940'	
Helderberg Limestone			7940'	8000'	TD

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 APR 03 1990

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Phillips Petroleum Company
 Well Operator P.D. Bairrington
 By: P.D. Bairrington, Dir. Prod. Engrg.
 Date: 3-28-90

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
 all, encountered in the drilling of a well."



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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date _____
Operator's Well No. Giles B#2
Farm Orval Pugh
API No. 47 - 061 - 0934

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 X / Underground Storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 2031.83 Watershed Booths Creek
District: Clinton County Monongalia Quadrangle Morgantown South WV

COMPANY Phillips Petroleum Company
ADDRESS Box 1967, Houston, TX 77251
DESIGNATED AGENT Anthony Pellegrino
ADDRESS 110 Seemont Dr, Kingswood, WV
SURFACE OWNER Edythe M. Pugh
ADDRESS Rt.9, Box 107C, Morgantown, WV
MINERAL RIGHTS OWNER -
ADDRESS -
OIL AND GAS INSPECTOR FOR THIS WORK Don Ellis
2604 Crabapple Avenue, Fairmont, WV 26554
PERMIT ISSUED 8-10-89
DRILLING COMMENCED SPUD: 10-12-89
DRILLING COMPLETED MORT: 11-02-89
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- XXX	100'	100'	70
9 5/8	1500'	1500'	470
8 5/8			
7			
5 XXX	8000'	8000'	303
4 1/2			
3			
2 3/8	-	7800'	
Liners used	N/A		

GEOLOGICAL TARGET FORMATION Helderberg Depth 8000' feet
Depth of completed well 7931' feet ~~Bottom~~ AIR / Cable Tools _____
Water strata depth: Fresh 1250' feet; Salt N/A feet
Coal seam depths: 75' & 80' Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Onondaga Chert Pay zone depth 7680' feet
Gas: Initial open flow 413 Mcf/d Oil: Initial open flow - Bbl/d
Final open flow 328 Mcf/d Final open flow - Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 1604 psig (surface measurement) after 24 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

APR 16 1990

(Continue on reverse side)

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

Issued 8/10/89
Expired 8/10/91
38600 (4) 368

- 1) Well Operator: Phillips Petroleum Company
- 2) Operator's Well Number: Giles B-2 3) Elevation: 203.83
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep X / Shallow /
- 5) Proposed Target Formation(s): Helderberg
- 6) Proposed Total Depth: 8,000 feet
- 7) Approximate fresh water strata depths: 25', 70' and 1250'
- 8) Approximate salt water depths: Unknown
- 9) Approximate coal seam depths: 75' and 80' 71'-74', 74'-78'
- 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#	100'	100'	70
Fresh Water	9-5/8"	K-55	40#	1500'	1500'	470
Coal						38CSPB-11.3
Intermediate						38CSPB-11.2
Production	5"	K-55	13#	8000'	8000'	38CSPB-11.1 303
Tubing	2-3/8"	J-55	4.7		7800'	
Liners						

Drilled

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JUL 05 1989

PACKERS : Kind
 Sizes
 Depths set

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

129923 15
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket one Agent.
 (Type)

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JUL 05 1989

- 1) Date: June 29, 1989
- 2) Operator's well number
Giles B#2
- 3) API Well No: 47 - 061 - 0934
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 Edythe M. Pugh
Address Rt. 9, Box 107C
Morgantown, W. Va. 26505
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Don Ellis
Address 2604 Crab Apple Lane
Fairmont, W. Va. 26554
Telephone (304)-534-5596

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
 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)
- 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.

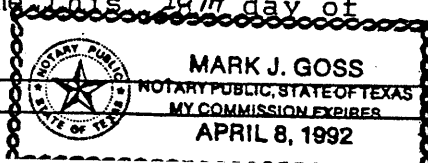
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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: [Signature] FOR (P.D. Bairrington)
 Its: Production Engineering Director
 Address Box 1967
Houston, TX 77251-1967
 Telephone _____

Subscribed and sworn before me this 29TH day of JUNE, 1989

My commission expires _____



Notary Public