OG—1
Rev.—71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
APR 15 1977
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE April 5, 1977

Surface Owner Paul & Mary Barth
Address Route #6, Fairmont, West Virginia
Mineral Owner (Same as Above)
Address
Coal Owner Hillman Coal & Coke Company
Address Grant Bldg., Pittsburgh, Pennsylvania
Coal Operator (Same as Above)
Address

Company Phillips Petroleum Company
Address P.O. Box 287, Great Bend, KS 67530
Farm C. Paul & Mary E. Barth Acres 30
Location (waters) Monongahela
Well No. Barth "A" #1 Elevation 1541.45'
District Winfield County Marion
Quadrangle Fairmont East, West Virginia

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 9-2-77.

Robert F. [illegible]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED William Blosser
PH: 363-9105 ADDRESS Colfax, W.Va.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated October 9 19 75 by C. Paul & Mary E. Barth made to Phillips Petroleum Company and recorded on the 14th day of October 19 75, in Marion County, Book 789 Page 451

X NEW WELL ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE
____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, ~~XXXXXXXXXX~~ to the above named ~~XXXXXXXXXX~~ ~~XX~~ coal owners at their above shown respective address ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ ~~before XXXX~~ on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505

Very truly yours,
(Sign Name) E. M. Brown for C. D. Dohrer
Well Operator

Address of Well Operator
P.O. BOX 287
Street
GREAT BEND
City or Town
KANSAS 67530
State

02/16/2024

" have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Roy A. Hustead for C. D. Dohrer

*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

MAR-321 PERMIT NUMBER

BLANKET BOND

47-049

A2

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known)
NAME Unknown
ADDRESS _____
TELEPHONE _____

RESPONSIBLE AGENT:
NAME R. A. Hustead
ADDRESS 123½ Holland Ave., Westover, West VA 26505
TELEPHONE (304) 292-8233

ESTIMATED DEPTH OF COMPLETED WELL: 8000'
ROTARY X CABLE TOOLS _____

PROPOSED GEOLOGICAL FORMATION: Onondaga-Oriskany

TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
~~XXXXX~~ 13 3/8" 48# (40')			To Surface
9 - 5/8 36# (1200' Approx.)			To Surface
8 - 5/8			
7			
5 ½			
4 ½ 11.6# (8000')			1000' Fill Up
3			Perf. Top
2 3/8" OD EUE 4.7# (8000')			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS Variable FEET - SALT WATER Variable FEET -
APPROXIMATE COAL DEPTHS Upper Freeport 71' Upper Kittanning 171'
Lower Freeport 121' Lower Kittanning 271'
IS COAL BEING MINED IN THE AREA? No BY WHOM? -

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, $100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

_____
For Coal Company

_____
Official Title

THIS PERMIT MUST BE POSTED AT THE WELL SITE

OGM 1
Rev. — 71

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for reconditioning. This permit shall expire if operations have not commenced by 12-2-78.

Robert F. [illegible]
Deputy Director - Oil & Gas Division

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED
AUG 01 1978
OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE July 24, 1978

Surface Owner Paul & Mary Barth
Address Route 6, Fairmont, WV
Mineral Owner same as above
Address
Coal Owner Hillman Coal & Coke Co.
Address Grant Bldg, Pittsburgh, PA
Coal Operator same as above
Address

Company Phillips Petroleum Co.
Address P.O. Box 1967 E & P, Houston, TX 77001
Farm C. Paul & Mary E. Barth Acres 30
Location (waters) Monongahela
Well No. Barth "A" No. 1 Elevation 1541.45'
District Winfield County Marion
Quadrangle Fairmont East, West Virginia

Performance Bonds:
Effective July 1, 1971
General Insurance Co. of America
#915671 (current)

INSPECTOR
TO BE NOTIFIED William Blosser
ADDRESS Colfax, WV
PHONE 363-9105

PHILLIPS 66
ROY HUSTEAD
FOREMAN
APPALACHIAN PRODUCTION AREA
NORTH AMERICA E&P DIVISION
NATURAL RESOURCES GROUP
PHILLIPS PETROLEUM COMPANY
136 WEST FIRST ST.
WESTOVER, WV 26505
304-292-8233

ll upon the above named farm or tract of land for oil and gas, having fee or lease dated October 9 19 75 by C. Paul & troleum Co. and recorded on the 14th day of October 789 Page 451

EPER ____ REDRILL X FRACTURE OR STIMULATE

DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address ____ day ____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, Roy A. Hustead for
(Sign Name) B. E. Cook
Well Operator

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address of Well Operator
P.O. Box 1967 E & P
Street
Houston
City or Town
Texas 77001
State

*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Mar - 321 -REC. PERMIT NUMBER
47-049

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Roy A. Hustead

file

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN ___X___ FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known)
NAME N/A
ADDRESS _____
TELEPHONE _____

RESPONSIBLE AGENT:
NAME Roy A. Hustead
ADDRESS 136 West First St., Westover, W
TELEPHONE 304-292-8233

ESTIMATED DEPTH OF COMPLETED WELL: 8000
ROTARY N/A CABLE TOOLS N/A

PROPOSED GEOLOGICAL FORMATION: Onondaga-Oriskany

TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE _____ DISPOSAL X
RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10		75'	65 sks circulator-sur
9 - 5/8		1221 ft.	400 sks
8 - 5/8			
7			
5 ½			
4 ½		7703.34'	275 sks
3			Perf. Top ~~7566~~ 7375 RAA
2 3/8" tbg		7645'	Perf. Bottom ~~7576~~ 7632 RAA
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS variable FEET -- SALT WATER variablt FEET --
APPROXIMATE COAL DEPTHS upper Freeport 71' lower 121' upper Kittanning 171' lower 271'
IS COAL BEING MINED IN THE AREA? NO BY WHOM? --

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, $100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

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OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

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WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

02/16/2024

_____
For Coal Company

_____
Official Title

OG-1
Rev. — 71

A3

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUL 28 1978
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE July 24, 1978

Surface Owner Paul & Mary Barth
Address Route #6, Fairmount, West Virginia
Mineral Owner (same as above)
Address
Coal Owner Hillman Coal & Coke Company
Address Grant Bldg., Pittsburg, Pennsylvania
Coal Operator (same as above)
Address

Company Phillips Petroleum Company
Address P. O. Box 1967, Houston, Tx. 77001
Farm C. Paul & Mary E. Barth Acres 30
Location (waters) Monongahela
Well No. Barth "A" #1 Elevation 1541.45'
District Winfield County Marion
Quadrangle Fairmont East, West Virginia

Performance Bonds:
1) Effective July 1, 1971,
General Insurance Company of America
#915671 (current)

INSPECTOR
TO BE NOTIFIED _____

ADDRESS _____

PHONE _____

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated October 9 1978 by C. Paul & Mary E. Barth made to Phillips Petroleum Company and recorded on the 14th day of October 19 75 in Marion County, Book 789 Page 451

_____ NEW WELL _____ DRILL DEEPER _____ REDRILL X FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

(Sign Name) B. E. Cook
Well Operator B. E. Cook

Address of Well Operator
P. O. Box 1967
Street
Houston
City or Town
Texas 77001
State

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

02/16/2024

*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

MAR-321- Rec
PERMIT NUMBER

Issued 8/2/78

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN X FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known)
NAME NA
ADDRESS NA
TELEPHONE NA

RESPONSIBLE AGENT:
NAME R. A. Hustead
ADDRESS 123½ Holland Ave., Westover, W. Va. 26505
TELEPHONE (304) 292-8233

ESTIMATED DEPTH OF COMPLETED WELL: 8,000'
ROTARY _____ CABLE TOOLS _____

PROPOSED GEOLOGICAL FORMATION: Onondaga-Oriskany

TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16		Set at: RKB	
13 - 10		75'	65 sx.-circ. to surface
9 - 5/8		1221'	400 sx.
8 - 5/8			
7			
5 ½			
4 ½		7703.34'	275 sx.
3			Perf. Top 7566
2 3/8" OD Tubing		7645'	Perf. Bottom 7576
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS Variable FEET - SALT WATER Variable FEET -
APPROXIMATE COAL DEPTHS Upper Freeport 71', Upper Kittanning 171'
Lower Freeport 121', Lower Kittanning 271'
IS COAL BEING MINED IN THE AREA? No BY WHOM? -

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We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

02/16/2024

_____
For Coal Company

_____
Official Title

PHILLIPS PETROLEUM COMPANY
HOUSTON, TEXAS 77001
BOX 1967, PHONE: 713 669-3666

EXPLORATION AND PRODUCTION GROUP

BELLAIRE, TEXAS
6330 WEST LOOP SOUTH
PHILLIPS BUILDING

File

July 17, 1984

Re: Permit No. 049-0321-REC
Farm: C. Paul & Mary E. Barth
Well No: Barth A #1
District: Winfield
County: Marion
Issued: 8-2-78

RECEIVED
JUL 20 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Charleston, WV 25305

Attention: Mr. Theodore M. Streit
Administrator, Oil & Gas

Gentlemen:

Phillips Petroleum Company has received your request for the completion drilling record for the above captioned well. Please be advised that Phillips Petroleum no longer has an interest in this well. The present owner is:

Allegheny Land and Mineral Company
P. O. Box 1740
Clarksburg, WV 26301

975

Your letter of June 19, 1984 has been forwarded to Allegheny Land and Mineral Co. Any future correspondence regarding the subject well should be sent directly to that company.

Very truly yours,

B. E. Cook

B. E. Cook
Agent

BEC:DSB:mw
cc: G. M. Shirley
Well File

02/16/2024

Very truly yours

Thomas E. Huzzey

Thomas E. Huzzey
Commissioner

TEH/d

PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA 74004

DESCRIPTION

DRAFT No. 177805

Permit Fee - Proposed Drilling of:

Barth A, Well #1
Marion County, West Virginia
Phillips Petroleum Company Lease No. G-128853

LGR.	LOC	EMPLOYEE NO.	CL.

THE ATTACHED DRAFT IS IN FULL PAYMENT OF ITEMS STATED ABOVE. ENDORSEMENT MUST BE IDENTICAL WITH THE PAYEE DESIGNATED.

M 500-10-S 3-75

DETACH BEFORE DEPOSITING AND RETAIN FOR YOUR FILES

PHILLIPS PETROLEUM COMPANY
BARTLESVILLE, OKLAHOMA 74004

86-82
1031

LOCATION	DATE	DRAFT NO.	AMOUNT
Great Bend, Kansas	April 5, 1977	177805	$100.00

Y One Hundred Dollars and NO/100----------DOLLARS

HE ORDER OF State of West Virginia
Oil and Gas Division

AGENTS DRAFT 5
PHILLIPS PETROLEUM COMPANY

E. M. Brown
E. M. Brown AGENT

H FIRST NATIONAL BANK IN BARTLESVILLE, BARTLESVILLE, OKLAHOMA

⑆1031⑈0082⑇

02/16/2024

pg

COPY

GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN
26505

ROBERT B. ERWIN, DIRECTOR
AND STATE GEOLOGIST

WHITE HALL
WEST VIRGINIA UNIVERSITY
PHONE 304--292-6331

IN REPLY REFER TO
00/OG/8993/0607/130/78

RECEIVED
MAY 12 1978
OIL & GAS DIVISION
DEPT. OF MINES

May 10, 1978

Mr. John Northeimer
Department of Natural Resources
WRD, Industrial Waste Section
Charleston, WV 25305

Dear Mr. Northeimer:

We have reviewed application W-139 submitted by Phillips Petroleum to dispose of frac water in their deep gas well. Because this is a limited disposal, serving only this one well, we recommend the permit be approved. However, we would encourage the disposal zone to be confined to the Huntersville Chert and Oriskany Sandstone. If this is impossible the Speechley-Balltown section could be utilized because 1) the volume of disposal fluid is limited and 2) no gas wells are nearby. If the shallower zone is used, the maximum well-head pressure permitted should be decreased to meet the 1.0 psi/foot allowed for bottom hole pressure. (well head plus hydrostatic fluid).

Sincerely,

ORIGINAL SIGNED BY
R. B. Erwin

Robert B. Erwin

File 1

RBE/DGP/ct

cc: Robert L. Dodd
1613 Washington St. E.
Charleston, WV 25311

02/16/2024

02/16/2024

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 4

RECEIVED
DEC 5 _ 1977
OIL & GAS DIVISION
DEPT. OF MINES

Rotary x Oil ____
Cable ____ Gas x
Recycling ____ Comb. ____
Water Flood ____ Storage ____
Disposal ____ ____ (Kind)

Quadrangle Fairmont East

Permit No. MAR-321

Company Phillips Petroleum Company
Address Box 287, Great Bend, Ks. 67530
Farm C. Paul & Mary E. Barth Acres 30
Location (waters) Monongahela
Well No. Barth "A" #1 Elev. 1541.45'
District Winfield County Marion
The surface of tract is owned in fee by
Paul & Mary Barth
Address Route #6, Fairmont, West Virginia
Mineral rights are owned by Same as above
____ Address ____
Drilling Commenced June 7, 1977
Drilling Completed July 22, 1977
Initial open flow ____ cu. ft. ____ bbls.
Final production 134M cu. ft. per day ____ bbls.
Well open ____ hrs. before test 2200# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.		Set at: RKB	
13-10"		75'	65 sx - Circ to surf.
9 5/8		1221'	400 sx
8 5/8			
7			
5 1/2			
4 1/2		7703.34	275 sx
3			
2 3/8" OD tubing set @ 7645' RKB			
Liners Used			

Attach copy of cementing record.

Well treatment details:
See reverse side

Coal was encountered at 80'-84' Feet ____ Inches
Fresh water 85' Feet ____ Salt Water ____ Feet ____
Producing Sand Onandaga-Oriskany Depth 7375'7520 7566-7632

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0'	75'		
Shale & Sand			75'	370'		
Sand & Shale			370'	1043'		
Sand & Shale			1043'	1235'		
Sand & Shale			1235'	1673'		
Sand & Shale			1673'	2489'		
Sand & Shale			2489'	2984'		
Sand & Shale			2984'	3942'		
Sand & Shale			3942'	4382'		
Shale			4382'	5334'		
Shale			5334'	6240'		
Shale			6240'	6887'		
Lime			6887'	7370'		
Lime			7370'	7375'		
Onondaga Lime (light to dark gray)			7375'	7383'		
Onondaga Lime (Chert 7388.6-92.6(med. gray to black)			7383'	7393'		
Onondaga Lime			7393'	7411'		
Onondaga Lime			7411'	7422'		
Onondaga Lime			7422'	7463'		
Onondaga Lime			7463'	7560'		
Oriskany Sand			7560'	7582'		
Oriskany Sand			7582'	7610'		

02/16/2024

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil, Gas or Water	* Remarks
Oriskany Sand			7610'	7660'		
Helderberg Lime			7660'	7728'		
Helderberg Lime			7728'	7750'		
Plug Back				7673'		Ran 188 jts. (7703.34') LTM 4½" csg. 2 3/8" OD tubing set @ 7645' RKB

7-12-77 McCullough Services ran GRC log & cement bond log to 7672'. Logged 7672-670C'. TOC 6950' Perf Oriskany zone 7566-76', 7604-07', 7624-32' - 1 HPF w/Omega Jet 11 GM charges. Unable to break down Oriskany formation.

7-13,14-77 McCullough Services reperforated 7566-76', 7604-07', 7624-32' w/11 GM Omega Jets - 1 HPF. Dowell spotted 420 gal 15% HCL. Fraced w/1850 BW, 6800 gal 3% acid (HCL), 30,660# of 80/100 sand, 40,530# 20/40 sand. Cut off sand after 1550 Bbls. All frac water gelled w/WF-60 & 3% acid.

7-15-77 Well flow intermittent - S.I.

7-18-77 McCullough Services perf w/62 - .38" Omega Jet shots 1 HPF as follows: 7510-20', 7495'-7505', 7472'-82', 7440-58', 7410-16', 7375-83'. After perf 7495-7505 had 1000 psi to surf. Dowell fraced Onondaga Lime w/1835 Bbls gelled wtr & acid. S.I. 4 hrs. - 2900 psi.

7-20-77 Flowed well to pit 20 hrs. - flowing by heads F/8BPH to 1 BPH. Slight show of gas.

7-23-77 Went on all gas - flowing @ 1100 psi. S.I. Testing casing and tubing pressures.

8-5-77 Production rate 134 MCFPD

9-10-77 Well is shut-in pending installation of surface equipment and sales line connection.

02/16/2024

Date November 23, 1977

APPROVED Phillips Petroleum Co., Owner

By C. D. Dohrer

C. D. Dohrer (Title)
Area Superintendent
Box 287
Great Bend, Ks. 67530

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUN 13 1977
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Mar-321

Oil or Gas Well (KIND)

Company Phillips-Petroleum-Company

Address Great-Bend-Kansas.

Farm Paul & Mary Barth

Well No. Barth-"A"-#1

District Winfield County Marion

Drilling commenced

Drilling completed Total depth 1235'

Sand & Shale- W.O.C

Date shot Depth of shot

Initial open flow /10ths Water in Inch

Open flow after tubing /10ths Merc. in Inch

Volume Cu. Ft.

Rock pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

Fresh water 84' feet feet

Salt water feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13	1-st. stage		
10	9 5/8-36# 122'	C.T.S- 400 SKS. Cement 3% Gel-1/4 SK. Flocele	Size of
8 1/4	2nd. stage		
6 5/8	50. SKS. Cement.	2% Gel. 1/4 SK. Flocele	Depth set
5 3/16			
3	Centralizers- Set,		Perf. top
2	'1215-'1142-'1024-'824-'626-'430-229'		Perf. bottom
Liners Used	Float. Collar. at. '1180		Perf. top
	12 hr. Shut. down. - W.O.C.		Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT 80-84 FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names F.K. Myers, D.R. Weekly, T. Porter.

Remarks: Phillips-Rep-George Webb-Ray-Hustead-
Cemented by-Halliburton-
Contractor. Ray-Resources-Rig #6

June-18, 1977
DATE

William J. Bosser
DISTRICT WELL INSPECTOR

Started. 630-pm — Plug down - 10-pm

02/16/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

?

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

02/16/2024

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUN 23 1977
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Mar-321

Oil or Gas Well _____ (KIND)

Company Phillips Petroleum Corp.

Address Great Bend Kansas

Farm Paul & Mary Barth

Well No. Barth "A" One

District Winfield County Marion

Drilling commenced _____

Drilling completed _____ Total depth 6471'

Drilling Shale

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water 85' feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT 80-84' FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names F. Myers, D. Weekly, T. Porter.

Will. Cre - Ondaga & Oriskny

Remarks:

Small. Show. Gas - 4295'

" " " " 5439'

Contractor. Ray. Resources. Rotary. Rig #2

Gordon - 1508'
Byard - 1850'
Speechly - 2560'
Belltown - 2815'
Benson - 3510

June 21, 1977
DATE

William J. Blosser
DISTRICT WELL INSPECTOR

02/16/2024

July 8, 1977
DATE

William J. Blosser
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ **Well No.**_____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT–THICKNESS	WOOD–SIZE	LEAD	CONSTRUCTION–LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date. 02/16/2024

DATE

_____

DISTRICT WELL INSPECTOR

IR-26
Obverse

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE _____ API# 47- 049 - 0321 (6-2-77)

ELEVATION 1541 OPERATOR Phillips Pet

DISTRICT WINFIELD TELEPHONE _____

QUADRANGLE _____ FARM Barth.

COUNTY Marion WELL # A-1

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____

TARGET FORMATION _____ DATE APPLICATION RECEIVED _____

DATE STARTED
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED 6-7-77

WATER DEPTHS _____, _____, _____, _____

COAL DEPTHS _____, _____, _____, _____

CASING

Ran _____ feet of _____ "pipe on _____ with _____ fill up

Ran _____ feet of _____ "pipe on _____ with _____ fill up

Ran _____ feet of _____ "pipe on _____ with _____ fill up

Ran _____ feet of _____ "pipe on _____ with _____ fill up

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

TD 7751 feet on 7-8-77

APR 1 1986

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____

Field analysis ph _____ fe _____ cl _____

Well Record received _____

Date Released 3-26-86

Inspector's signature

02/16/2024

IR-26
Reverse

API# 47_____-_____

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

02/16/2024

RECEIVED
FEB 20 1979
OIL & GAS DIVISION
DEPT. OF MINES

FERC-121

1.0 API well number. (If not available, leave blank. 14 digits.)	47-049-00321
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA; Category Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	7632 feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Phillips Petroleum Company — Name; 014979 Seller Code 5 D-4 Phillips Building — Street Bartlesville — City; OK — State; 74004 Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Neel — Field Name Marion — County; W.V. State
(b) For OCS wells:	Area Name; Block Number Date of Lease: Mo. Day Yr.; OCS Lease Number
(c) Name and identification number of this well: (35 letters and digits maximum.)	Barth-A No. 1
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	None - undedicated — Name; none Buyer Code
(b) Date of the contract:	none (Mo. Day Yr.)
(c) Estimated annual production:	Total well production 0.0 MMcf.

		(a) Base Price (S/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)		—.— — —	—.— — —	—.— — —	—.— — —
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.) JAN 1979		1.980	.165	—.— — —	2.145

9.0 Person responsible for this application:

Name: B. E. Cook
Title: Houston Area Prod. Mgr.
Signature: B. E. Cook
Date Application is Completed: Feb. 15, 1979
Phone Number: 713-790-7551

Agency Use Only
Date Received by Jurisdictional Agency: FEB 20 1979
Date Received by FERC:

FT7900806/2-2

02/16/2024

WELL DETERMINATION REPORT

PARTICIPANTS: DATE: [illegible]

BUYER-SELLER CODE

WELL OPERATOR: Phillips Petroleum Company — 014979

FIRST PURCHASER: None given - undedicated

OTHER:

OK - Meets requirements for 103, new onshore production well.

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
7902270 - 103 - 049 - 0321
Use Above File Number on all Communications Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1 FERC-121 ✓ Items not completed - Line No.

2 IV-1 - Agent Franklin Pellegrino

3 IV-2 - Well Permit ✓

4 IV-6 - Well Plat ✓

5 IV-35- Well Record ✓ Drilling Deepening

6 IV-36- Gas-Oil Test: Gas Only N/A Was Oil Produced? N/A Ratio

7 IV-39- Annual Production years

8 IV-40- 90 day Production Days off Line:

9 IV-48- Application for Certification. Complete? Yes

10 - 17 IV Form #51 - 52 - 53 - (54) - 55 - 56 - 57 - 58. Complete ✓ Affidavit Signed Yes

18 - 28 Other: Survey Logs Geological Charts Structure Map

1:4000 Map Well Tabulations Gas Analyses

(5) Date Completed: 8/22/79 Deepened

(5) Production Depth: 7325 - 7332

(5) Production Formation: Oriskany - Corlange

(5) Initial Potential: N/A

(5) Static R.P. Initially: N/A

(6) Other Gas Test:

(7) Avg. Daily Gas from Annual Production:

(8) Avg. Daily Gas from 90-day ending w/1-120 days

(8) Line Pressure: PSIG from Daily Report

(5) Oil Production: From Completion Report

(10-17) Does lease inventory indicate enhanced recovery being done: No

(10-17) Is affidavit signed? Yes Notarized? Yes

Does official well record with the Department confirm the submitted information?

Additional Information Does computer program confirm? Yes

Was Determination Objected to? No By Whom?

02/16/2024

C4

FORM IV-54WC
[12-78]

Date Feb 15 1979

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No Barth-A #1

API Well No 47 - 049 - 00321
State County Permit

NEW ONSHORE PRODUCTION WELL

NGPA Section 103

FEB 20 1979

DESIGNATED AGENT Frank Pellegrino

ADDRESS 107 Seemont Drive
Kingwood, W. V. 26537

WELL OPERATOR Phillips Petroleum Co.

ADDRESS P. O. Box 1967
Houston, Tx. 77001

LOCATION: Elevation 1541.5

Watershed Prickett's Creek

District Winfield County Marion Quadrangle Fairmont East W. V.

Meter Chart Code None

Date of Contract None

* * * * * * * * * * * * * * * * * *

Date surface drilling was begun: 7-7-77

Indicate the bottom hole pressure of the well and explain how this was calculated:

A shut-in bottom hole pressure of 3980 was calculated on the basis of a shut-in tubing pressure of 3200 psig, reservoir temperature of 140°F, gas temperature of 79°F, and gas gravity of 0.70 (see deliverability test). A computer program (Phillips #3262) calculated the compressibility factor (Z) of the gas, and from this, the bottom hole pressure.

AFFIDAVIT

I, B. E. Cook, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

B. E. Cook

STATE OF TEXAS

COUNTY OF HARRIS, TO WIT:

I, Jimilee K. Duncan, a Notary Public in and for the state and county aforesaid, do certify that B. E. Cook, whose name is signed to the writing above, bearing date the 15 day of February, 1979, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 15 day of February, 1979.

My term of office expires on the 31 day of July, 1980.

[NOTARIAL SEAL]

Jimilee K. Duncan
Notary Public

JIMILEE K. DUNCAN
Notary Public in Harris County, Texas
My Commission Expires July 31, 1980

02/16/2024

FORM IV-48WC
[12-78]

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date Feb 15, 1979

Operator's Well No. Barth-A #1

API Well No. 47 - 049 - 00321
State County Permit

Previous File No. _____
(If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Phillips Petroleum Co.
ADDRESS P. O. Box 1967
Houston, Tx. 77001

DESIGNATED AGENT Frank Pellegrino
ADDRESS 107 Seemont Drive
Kingwood, W. V. 26537

Gas Purchase Contract No. none and Date _____
(Month, day and year)

Meter Chart Code none

Name of First Purchaser none - undedicated

(Street or P. O. Box)

(City) (State) (Zip Code)

FEB 20 1979

FERC Seller Code 014979

FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT

☐ (1) Initial determination (See FERC Form 121.) 103 Section of NGPA _____ Category Code

☐ (2) Determination that increased production is the result of enhanced recovery technology.

☐ (3) Determination of a seasonally affected well.

B. E. Cook
Name (Print)

Houston Area Prod. Mgr.
Title

B. E. Cook
Signature

P. O. Box 1967
Street or P. O. Box

Houston, Tx. 77001
City State (Zip Code)

( ) 713-790-7551
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request ☒ for certification of the above described well as meeting the requirements of Section 103 under the Natural Gas Policy Act of 1978, (NGPA); ☐ or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); ☐ or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the 5 day of April, 1979, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. 7902201030490321

Initial review of information submitted indicates the well ☒ is, ☐ is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

FEB 20 1979

Date received by Jurisdictional Agency

_____ Director

By Robert L. [illegible]

Title _____

02/16/2024

02/16/2024

State of West Virginia

Office of Oil and Gas

Charleston 25305

DESIGNATED AGENT	PURCHASER	FILING DATE (YR MO DA)	NGPA SEC.	CO. CODE	PERMIT NO.
Phillips Petroleum CO.					
Frank Pellegrino	Undedicated	790220	103	049	0321
PURCHASER IDENTIFICATION NUMBER	OPERATOR'S WELL NAME OR NUMBER	4-5-79 DATE OF ISSUE			
CONTRACT NO. —	Barth-A NO. 1				
METER CHART —	FERC CONTROL NO. 5270	5-24-79 EFFECTIVE DATE			

BY THE AUTHORITY INVESTED IN ME BY THE STATE OF WEST VIRGINIA, I HEREBY CERTIFY THIS WELL TO HAVE MET THE REQUIREMENTS OF CHAPTER 22, ARTICLE 4, SECTION 1 a (11) OF THE WEST VIRGINIA CODE OF 1931, AS AMENDED AND THE NATURAL GAS POLICY ACT OF 1978, TO BE CERTIFIED AS A 103 (SECTION) New Onshore Production Well (DESCRIPTION)

THIS CERTIFICATE IS ISSUED AS AN ORIGINAL AND IS SUBJECT TO SURRENDER UPON LAWFUL DEMAND BY THIS AGENCY.

Robert L. Dodd

ROBERT L. DODD
ADMINISTRATOR
OFFICE OF OIL AND GAS

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL 14 1977
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Marion 321 Frac-Report

Oil or Gas Well _____ (KIND)

Company Phillips-Petroleum. Corp.

Address Great-Bend. Kansas

Farm Paul & Mary Barth

Well No. Barth "A" - One

District Winfield County Marion

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Spot - 500gal - 15%. H.C.L. Acid

Perforated - Oriskany - 7566-7576 - 7604-7607, 7624-7632 -

Remarks: Pressured - To - 5200# - ½ - BBL - Per minute, 11 - B.B.L. 45 - min - Failed - to - Brake down -

Will Re - Perforate - Same. Zone - And. Spot. 500gal. H.C.L. Acid -

July 12, 1977
DATE

William J. [illegible]
DISTRICT WELL INSPECTOR

02/16/2024

Contractor - Ray - Resources - Rotary - Rig #6

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ **Well No.**_____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT–THICKNESS	WOOD–SIZE	LEAD	CONSTRUCTION–LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

02/16/2024

DISTRICT WELL INSPECTOR

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL 15 1977
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. MRL-321

Oil or Gas Well _____ (KIND)

Company Phillips Petroleum - Co.

Address Great Bend - Kansas

Farm Paul & Mary - Barth

Well No. Barth "A" - One

District Winfield County Marion

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water 84' _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT 80.84' FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Now - perforating Onaga -

Remarks: Re-Perforated. Oriskany -
Injected - 1,8000 ~~BBL~~ - # . 80/100 - Sand
Injected - 60,000. # - 20/40 - Sand
Total Fluid - 1,850'. B.B.L.
Injection - Rate. Average - 17-BBL - Per. minute
Break. down - Pressure - 48 #

July 13, 1977
DATE

William J. B.
DISTRICT WELL INSPECTOR

02/16/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ **Well No.**_____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT–THICKNESS	WOOD–SIZE	LEAD	CONSTRUCTION–LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

02/16/2024

_____

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL 18 1977
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S ~~PLUGGING~~ REPORT

Frac - Report. Onondaga

Permit No. Marion-321 Well No. Dive

COMPANY Phillips-Petroleum-Corp. ADDRESS Great. Bend-Kansas

FARM Paul & Mary Barth DISTRICT Winfield COUNTY Marion

Filling Material Used

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
Perforated-			Fractured- Onondaga - At - 7540'			
7375-7383.	8-holes		Treated- With . 1835-BBL- Water.			
7410-7416-	6-holes		8,140 # 8/100- Sand			
7440-7458-	18-holes		655-BBL- 15%. H-y-Acid			
7472-7482-	10-holes		Pumped- 4-hrs- Max. 4250			
7495-7505 -	10-holes		Pressure-Rate- 5-BBL- to. 12-BBL per min-			
7510-7520-	10-holes		Injection-Shut-In - 3850 #			
			5-Min - 3590 60-Min- 3340			
			10 Min - 3520 Shut in 4-hrs-			
			30 Min - 3440 2900#-Shut in Pressure-			

Drillers' Names Now - Flowing - For. Approx - 12-hrs -
Will. Report results-When. Known -

Remarks: Bob- I Felt. it my duty to take this vacation day- and be on this Frac job - Will take it at End of vacation -

Service Co- Dowell-

Contractor. Ray Resources - Rotary

7-18-77
DATE

I hereby certify I visited the above well on this date.

William J Bloss
DISTRICT WELL INSPECTOR

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No._____ Oil or Gas Well_____ (KIND)

Company_____

Address_____

Farm_____

Well No._____

District_____ County_____

Drilling commenced_____

Drilling completed_____ Total depth_____

Date shot_____ Depth of shot_____

Initial open flow_____/10ths Water in_____Inch

Open flow after tubing_____/10ths Merc. in_____Inch

Volume_____Cu. Ft.

Rock pressure_____lbs._____hrs.

Oil_____bbls., 1st 24 hrs.

Fresh water_____feet_____feet

Salt water_____feet_____feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED_____SIZE_____No. FT._____Date

NAME OF SERVICE COMPANY_____

COAL WAS ENCOUNTERED AT_____FEET_____INCHES

_____FEET_____INCHES_____FEET_____INCHES

_____FEET_____INCHES_____FEET_____INCHES

Drillers' Names_____

Remarks:

_____ DATE

_____ DISTRICT WELL INSPECTOR

02/16/2024

D9

Bob -
This Fracked While
I was at Meeting - Friday

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S ~~PLUGGING~~ REPORT

Permit No. Marion-321 Frac-Report - Oriskany Well No. One

COMPANY Phillips Petroleum Corp. ADDRESS Great Bend Kansas

FARM Paul & Mary Barth DISTRICT Winfield COUNTY Marion

Filling Material Used

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
			~~30~~ - 3% Acid			
550-B-B-L- Geled-Acid Water.						
Frac - 1,140-B-B-L-		42,880 Gal.		Total Acid. 6800 Gal		
40,530 # - 20/40 .			Sand.	total pumping Time . 2-hrs-18-m		
30,660 # 8/100 .			Sand.			
Flushed.	170-B.B.L.	Water.	No-Acid No-Sand.			
Shut-in - Pressure-			30-minutes - - 3270			
5-minutes - 3470'			40-min. - - - 3230			
10-min. - - - 3380			60 min - - - 3200'			
15 min. - - - 3350		Perf	- 7566-7576 - 10-holes			
20-min. - - 3300			7604-7607 - 3-holes			
			7624-7632. 8-holes			

Drillers' Names

Baker. Plug Set. At. 7548-

Remarks:

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JUL 18 1977
OIL & GAS DIVISION
DEPT. OF MINES

Contractor. Ray-Resources - Rotary -
Fracked - by - Dowell -

July. 18, 1977 I hereby certify I visited the above well on this date.
DATE

Orch

William J Bl[illegible]
DISTRICT WELL INSPECTOR

02/16/2024

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No._____ Oil or Gas Well_____ (KIND)

Company_____

Address_____

Farm_____

Well No._____

District_____ County_____

Drilling commenced_____

Drilling completed_____ Total depth_____

Date shot_____ Depth of shot_____

Initial open flow_____/10ths Water in_____Inch

Open flow after tubing_____/10ths Merc. in_____Inch

Volume_____Cu. Ft.

Rock pressure_____lbs._____hrs.

Oil_____bbls., 1st 24 hrs.

Fresh water_____feet_____feet

Salt water_____feet_____feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED_____SIZE_____No. FT._____Date

NAME OF SERVICE COMPANY_____

COAL WAS ENCOUNTERED AT_____FEET_____INCHES

_____FEET_____INCHES_____FEET_____INCHES

_____FEET_____INCHES_____FEET_____INCHES

Drillers' Names_____

Remarks: B.O.P. Leaked intermittently during Drilling Flange, After Shut in, leaks increased around Gasket Cap - Between Blind ram bonnet on ram housing - Opened blind rams to reduce leak flow to allow for welding repair, Could not stop water, closed rams at 8:50 PM, reopened Blind rams & bled well to pit -

_____ DATE

_____ DISTRICT WELL INSPECTOR

02/16/2024

STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
CHARLESTON 25305

THOMAS E. HUZZEY
Commissioner

Mr. Robert L. Dodd
Deputy Director
Oil and Gas Division
Department of Mines

RE: APPLICATION FOR PERMIT #47-049-0321 TO DRILL DEEP WELL

COMPANY: Phillips Petroleum Company

FARM: C. Paul Barth and Mary E. Barth

COUNTY: Marion DISTRICT: Winfield

The application of the above company is approved.
(APPROVED-DISAPPROVED)

Applicant has complied with the provisions of chapter
(HAS-HAS NOT)
twenty-two, article four-a (§22-4A) of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation, as follows:

1. *Provided a certified copy of duly acknowledged and recorded consent and easement from all surface owners;* yes

2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and;*

3. *Provided a plat showing that the proposed location is a distance of* 1600 *feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3000 feet of the proposed location:* none

#47-049-0244 - 5280' P & A

Very truly yours

Thomas E. Huzzey

Thomas E. Huzzey
Commissioner

02/16/2024

TEH/d

PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA 74004

DESCRIPTION

DRAFT No. 177805

Permit Fee - Proposed Drilling of:

Barth A, Well #1
Marion County, West Virginia
Phillips Petroleum Company Lease No. G-128853

LGR.	LOC	EMPLOYEE NO.	CL.

THE ATTACHED DRAFT IS IN FULL PAYMENT OF ITEMS STATED ABOVE. ENDORSEMENT MUST BE IDENTICAL WITH THE PAYEE DESIGNATED.

FORM 500-10-S 3-75

DETACH BEFORE DEPOSITING AND RETAIN FOR YOUR FILES

PHILLIPS PETROLEUM COMPANY
BARTLESVILLE, OKLAHOMA 74004

86-82
1031

LOCATION	DATE	DRAFT NO.	AMOUNT
Great Bend, Kansas	April 5, 1977	177805	$100.00

PAY One Hundred Dollars and NO/100---------- DOLLARS

TO THE ORDER OF State of West Virginia
Oil and Gas Division

AGENTS DRAFT 5
PHILLIPS PETROLEUM COMPANY

E. M. Brown
E. M. Brown AGENT

THROUGH **FIRST NATIONAL BANK IN BARTLESVILLE,** BARTLESVILLE, OKLAHOMA

⑆1031⑈0082⑆

02/16/2024

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL - 5 1977
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Mar-321

Oil or Gas Well _____ (KIND)

Company Phillips-Petroleum. Corp.

Address Great-Bend-Kansas-

Farm Paul-+Mary-Barth-

Well No. Barth-"A"-One

District Winfield County Marion

Drilling commenced Drilled - 7422-7560'

Drilling completed _____ Total depth 7560'

Coring - 8 3/4 hole.

Date shot _____ Depth of shot _____

Core Hole reamed - 7370-7422'

Initial open flow _____ /10ths Water in _____ Inch

Core head - 8 3/4 -

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume Core-Drilling Performed-by _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8 1/4			
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED ~~Dikon Co.~~ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names F. Myers, D. Weekly, T. Porter

Remarks:

Contractor - Ray-Resources - Rig - #6

July - 1, 1977
DATE

William J. Blosser.
DISTRICT WELL INSPECTOR

02/16/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ Well No._____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

02/16/2024

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL 11 1977
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Mar-321

Oil or Gas Well _____ (KIND)

Company Phillips-Petroleum-Corp.

Address Great Bend Kansas -

Farm Paul & Mary - Barth -

Well No. Barth "A" - One

District Winfield County Marion

Drilling commenced _____

Drilling completed _____ Total depth 7750'

Drilling Completed.

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water 84'. _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10 9 5/8.	1227.	Ct.S. 450 SK	Size of Cement
8¼			
6⅝			Depth set
5 3/16			
3 4½ -	7703 -	Cem. back to	Perf. top 6800'
2	275 SKS.	Cement	Perf. bottom 5101 Pas.
Liners Used			Perf. top 10% Salt
			Perf. bottom

Centralizers - 1215 - 1142. 1024' - 824'. 626' - 430' 229'

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT 80-84' FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names E. Myers, D. Weekly, T. Porter -

Remarks:

Logged.
Caliper
Frac. I.D.
Depth. Meter. Survey -

Contractor. Ray Resources. Rotary.
Rig #6.

Cored.
7370. 7375' Onedago,
7388. 7411. Chert
7411 - 7422' Oriskany.
7422 - 7560.

July 8, 1977
DATE

William J. Bloom
DISTRICT WELL INSPECTOR

02/16/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No._____ **Well No.**_____

COMPANY_____ ADDRESS_____

FARM_____ DISTRICT_____ COUNTY_____

Filling Material Used_____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT–THICKNESS	WOOD–SIZE	LEAD	CONSTRUCTION–LOCATION	RECOVERED	SIZE	LOST

Drillers' Names_____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

02/16/2024

_____

DISTRICT WELL INSPECTOR

WRD 1-69

Application No. W- 139

Date Issued _____

Date Filed _____

STATE OF WEST VIRGINIA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

CHARLESTON 25311

RECEIVED
AUG 01 1978
OIL & GAS DIVISION
DEPT. OF MINES

APPLICATION FOR WATER POLLUTION CONTROL PERMIT

DISPOSAL OF INDUSTRIAL WASTES

SUBSURFACE DISPOSAL

In accordance with Article 5A, Chapter 20 of the Code of West Virginia, as amended.

Phillips Petroleum Co., P.O.Box 1967, Houston, Texas 77001
(Name and Address of Applicant)

Phillips Petroleum Co., P.O.Box 1967, Houston, Texas 77001
(Name and Address of Well Operator)

R. A. Hustead, 123½ Holland Ave., Westover, W. Virginia 26505
(Name and Address of Responsible Agent)

hereby make application for the issuance of a Water Pollution Control Permit to:

☐ acquire, construct, install, modify or operate a disposal system or part thereof for the direct or indirect discharge or deposit of treated or untreated sewage, industrial wastes or other wastes or the effluent therefrom into the waters of this State, or any extension to or addition to such disposal system.

☐ increase in volume or concentration of any sewage, industrial wastes or other wastes in excess of the discharges or disposition specified or permitted under any existing permit.

☐ extend modify or add to any establishment, the operation of which would cause an increase in the volume or concentration of any sewage, industrial wastes or other wastes discharging or flowing into the waters of the State.

☒ operate any disposal well for the injection or reinjection underground of any industrial wastes, including, but not limited to, liquids, or gases, or convert any well into such a disposal well or plug or abandon any such disposal well.

The applicant hereby certifies that the following information is true and correct to the best of the applicant's knowledge and belief and that the applicant has in operation or can reasonably be expected to place in operation the establishment, disposal system or disposal well described within _____ days after receipt of any permit issued pursuant to this application.

I. Location of Proposed Establishment, Disposal System or Disposal Well.

1. Lease Barth "A"
2. Well No. 1
3. District Winfield
4. Survey 12,650 South of 39 deg 27'-30" + 7400' West of 80 deg 0'
5. Abstract Fairmont East Quadrangle
6. County Marion
7. Distance (in miles) and direction from nearest town 3 miles southeast of Fairmont

II. Proposed Injection Program.

1. a. _____ Operate new disposal well.

   b. _____ Extend, modify or add to establishment.

   c. _____ Acquire, construct, install, modify or operate a disposal system (disposal well).

   d. _____ Increase in volume or concentration of wastes in excess of existing permit.

   e. X Convert existing well. Dispose of frac water now contained in surface pits.

2. Type of waste Salt water used in frac treating Onondaga & Oriskany zone (see analysis attached).

3. Depth (s) of injection intervals Through casing perforations 7375-7632, if unsuccessful alternate zones used 2836-3046 or 2126-2206 or 1622-1684.

4. Depth of well 7673 PBTD 7736 TD

III. Submit with Application.

1. Preliminary Report: Title Geologic and Disposal Parameters - Barth "A" No. 1

2. Prepared by David Sutton

   Under Direction of D. C. Smith
   (Professional Geologist or Registered Professional Engineer)

02/16/2024

02/16/2024

A Johnson
SOWC

WATER RESOURCES DIVISION
RECORD OF CHEMICAL ANALYSES

Location PHILLIPS PETROLEUM
FAIRMONT

Analyses in mg/l unless otherwise noted.

Sampling Point	Date Col.	Mineral Acidity	Total Acidity	M.O. Alk.	pH Units	Sulfate	Iron	ALUMINUM	MANGANESE
1	1/3/78	850	1150	—	1.8	17	84	26	6.3
2	"		6240	—	4.5	2	3264	31	70
3	"		98	13	6.6	24	66	23	13
4	"		10	7	6.1	13			
5	"		15	2	4.9	10	0.36	0.94	1.4
		JS	JS	JS	JS	BW	SW	SW	SW

Sampling Point	Date Col.	pH Units	Turb. JC Units	Appearance	CHLORIDES	HARDNESS	SOLIDS Total	SOLIDS Susp.	SOLIDS Diss.
1	1/3/78				2490			4	2157
2	"				*			492	22,212
3	"				2090			1055	3444
4	"				4	18		63	37
5	"				850	BW		3	223
					BW				BW

Sampling Point	Date Col.	ARSENIC mg/l	COPPER	ZINC	MERCURY mg/l	DETERGENT NIBAS	COD	TOC
1	1/3/78	3	0.14	0.14	0.3	0.30	444	41
2	"	2	0.12	0.12		0.30	1505	337
3	"	8	0.13	0.60	0.4	1.3	244	34
4	"							
5	"	<2	<0.01	0.04	0.2			
		WJT	SW	SW	SW	BW	SW	WJT

* could not run.

02/16/2024

02/16/2024

PHILLIPS PETROLEUM COMPANY

LABORATORY ANALYSIS RESULTS SUMMARY

Sample of: Water
Secured from: See Below
Secured by: Ed Hicks & H.A Smith
Analysis No. W 51-77 Date 10-5-77

FORMATION WATER

	Bobe A-1 PPM	Barth A-1 PPM
P (Mg/L as $CaCO_3$)	0	0
M "	260	0
Cl (Mg/L as Chloride)	150000	125000
TH (Mg/L as $CaCO_3$)	67000	90000
CAH "	58000	69000
SO4 (Mg/L as Sulfate)	2.5	--1.5
pH	5.1	3.5
Sp. Gr. @60°	1.1754	1.1484

Remarks: Bobe A-1 Secured by H. A Smith
Barth A-1 " " E. E. Hicks
Barth A-1 (Produced water Secured from Separator 8-31-77 @ 2:30 PM)
Samples from Mitch Co W. Va.

Copies To:

Analysis by: Norris

Checked by:

Approved by:

02/16/2024

A

(Upper Pond)

Black Rock Test Labs
and Geological Consultants

Telephone (304) 296-8347
Route 7, Box 22A ◇ Eastgate Plaza ◇ Morgantown, WV 26505

Phillips Petroleum Co.

Brookhaven

292-8233

Sample Submitted: 9/19/77 4:00PM Completed: 9/22/77

Sample Id #: W0101PP

Sample Condition: Full cubitainer (1qt) marked "Surface"

pH	1.35
Suspended Solids	40mg/l
Dissolved Solids	10789 mg/l
Total Solids	10829 mg/l
Iron	400mg/l
Oil & Grease	30 mg/l
Chloride	8250 mg/l
Detergents	0.260 mg/l as LAS
Chemical Oxygen Demand	2200mg/l

mg/l = ppm

Appearance: "Clear" solution with faint yellow coloration (20 FTU turbidity) Faint "sweet" aromatic hydrocarbon odor

James A. Acker
Chemist

(Uppar Pond)

Black Rock Test Labs
and Geological Consultants

Telephone (304) 296-8347
Route 7, Box 22A ◇ Eastgate Plaza ◇ Morgantown, WV 26505

Phillips Petroleum Co.

Brookhaven

Sample Submitted: 9/19/77 Completed: 9/22/77

Sample ID #: W0102PP

Sample Condition: Full cubitainer (1qt) marked "Bottom"

pH	4.2
Suspended Solids	240 mg/l mg/l = ppm
Dissolved Solids	27740 mg/l
Total Solids	27980 mg/l
Iron	2640 mg/l
Oil & Grease	120 mg/l
Chloride	1475 mg/l
Detergents	0.236 mg/l as LAS
Chemical Oxygen Demand	6800 mg/l

Appearance: Dark yellow-brown suspended material in clear solution

492 FTU turbidity

Sweet aromatic hydrocarbon odor similar to nitrobenzene

James A. [illegible]
Chemist

(Lower pond)

Black Rock Test Labs
and Geological Consultants

Telephone (304) 296-8347
Route 7, Box 22A ◇ Eastgate Plaza ◇ Morgantown, WV 26505

Phillips Petroleum

Brookhaven

Sample submitted: 9/19/77 Completed: 9/22/77

Sample ID # W0103PP

Sample Condition: Full cubitainer (1qt) marked " Reserve Pit"

pH	3.3
Suspended Solids	32 mg/l mg/l = ppm
Dissolved Solids	12050 mg/l
Total Solids	12082 mg/l
Iron	87 mg/l
Oil & Grease	1750 mg/l
Chloride	3425 mg/l
Detergents	0.496 mg/l as LAS
Chemical Oxygen Demand	1760 mg/l

Appearance: Clear solution with finely divided and suspended yellow material
16 FTU turbidity
Faint "oily" smell

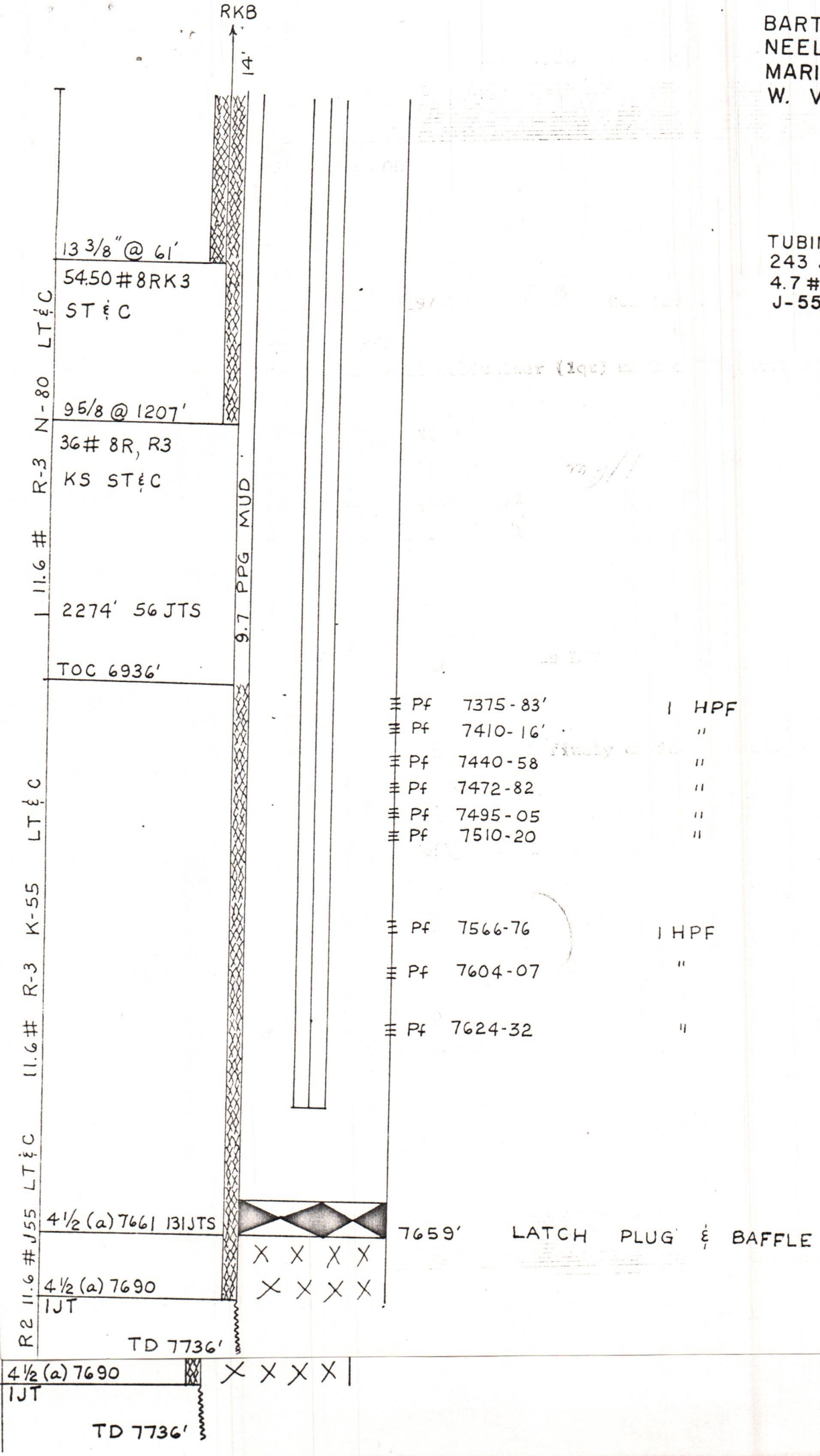
(WASHED OUT)

James A. Stokl
Chemist

02/16/2024

BARTH A-1
NEEL AREA
MARION CO.
W. VIRGINIA

TUBING SUMMARY
243 JTS 2 3/8" EUE
4.7# EUE SMLS T&C
J-55 R6-2 8R



02/16/2024

02/16/2024

WRD 1A-64

RECEIVED
JUL 28 1978
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RESOURCES
CHARLESTON 25305

WATER POLLUTION CONTROL PERMIT

Permit No. IW-5994-78 Date: June 12, 1978

Subject: Industrial Waste - Subsurface Disposal

Location: Fairmont (City) Marion (County) Monongahela (Drainage Basin)

To whom it may concern:

This is to certify that Phillips Petroleum Company, Post Office Box 1967, Houston, Texas 77001

is hereby granted a Water Pollution Control Permit to operate a disposal well for the injection or reinjection underground of an industrial waste.

This well is identified as Phillips Petroleum Company, Barth "A", No. 1 Well

This permit is subject to the following terms and conditions:

The information submitted on and with Permit Application No. W-139 dated the 19th day of April 1978, is all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein.

Fluids will be disposed of in the Onandaga-Oriskany section (7375-7632 feet) or the Speechly-Balltown section (2836-3046 feet). The Speechley-Balltown section shall be utilized only after the Onandaga-Oriskany section has proved unseccessful.

The respective maximum allowable well head pressures are:

Onandaga-Oriskany	3500 psig
Speechley-Balltown	1300 psig

(Continued on Page 2)

This well is authorized under permit for use in the disposal of only those particular waste(s) defined in Permit Application No. W-139. The disposal of any waste(s) other than those waste(s) defined in Permit Application No. W-139 shall be grounds for administrative action or criminal penalties as outlined in the Code of West Virginia, Chapter 20, Article 5A.

The construction and conversion of this well as described in Permit Application No. W-139 for the intent and purpose of subsurface disposal has been approved by and under the authority of, the Deputy Director of the Oil and Gas Division, Department of Mines of the State of West Virginia.

This is a temporary permit for the disposal of a limited volume of waste(s) not to exceed 700,000 gallons.

This permit expires December 12, 1978.

02/16/2024

DCS

FILE COPY

JUN 2 6 1978

RECEIVED

JUL 2 8 1978

OIL & G[illegible]ISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF NATURAL RESOURCES
Division of Water Resources
Industrial Waste Section
1201 Greenbrier Street
Charleston 25311
348-8855

DAVID C. CALLAGHAN
Director

June 16, 1978

Mr. Roy Hustead
Phillips Petroleum Company
136 West 1st Street
Westover, West Virginia 26505

Dear Mr. Hustead:

Enclosed please find Water Pollution Control Permit No. IW-5994-78, dated June 12, 1978, for a disposal well for the injection underground of an industrial waste.

This Permit has been granted for a six (6) month period.

If you have any questions do not hesitate to contact this office.

Very truly yours,

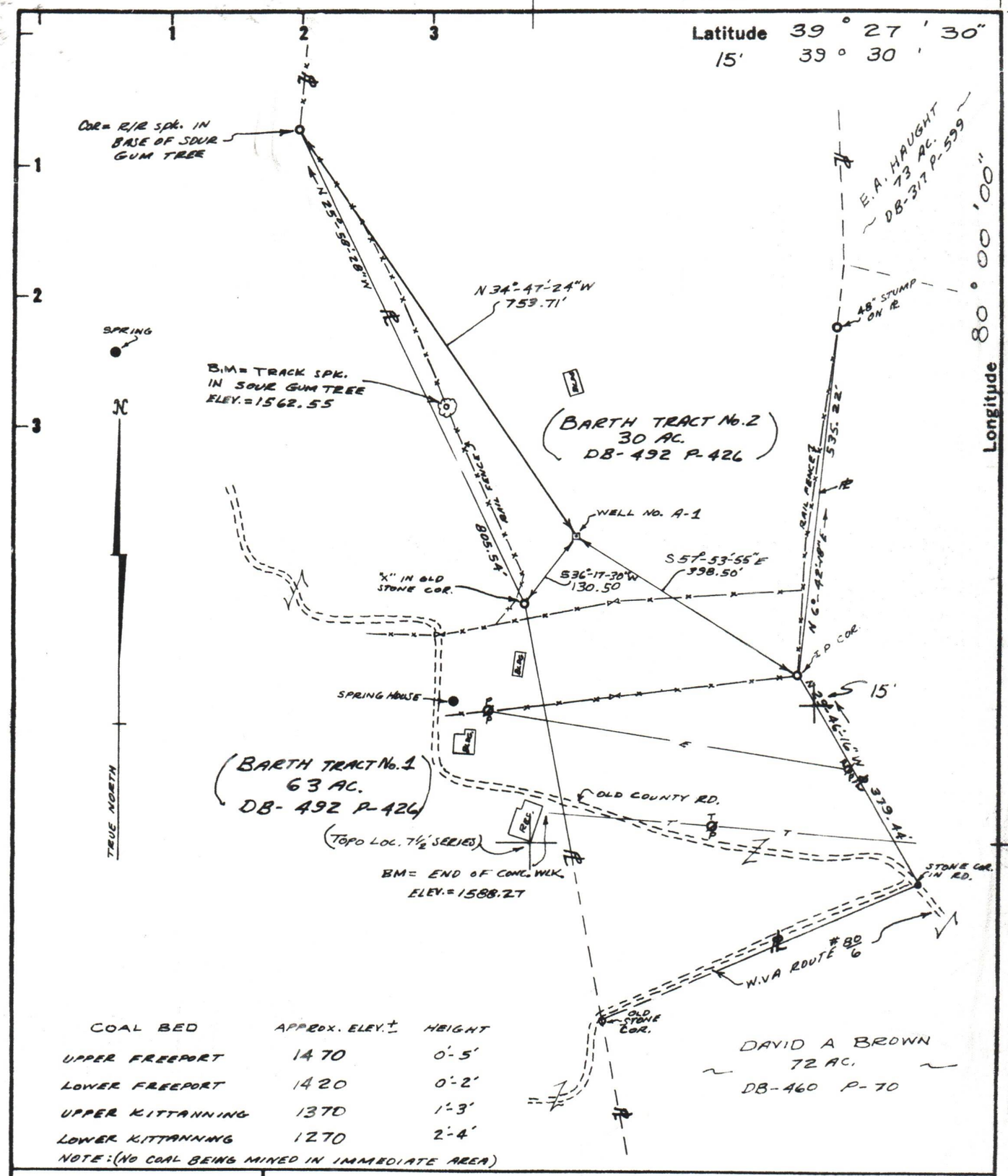
WATER RESOURCES DIVISION

John E. Northeimer

John E. Northeimer, Geologist
Industrial Waste Section
Permits Branch

JEN:tmt
Enclosures
cc: Jerry Ray
Dave Atchinson
Victor Leon, Inspector

02/16/2024



COAL BED	APPROX. ELEV.±	HEIGHT
UPPER FREEPORT	1470	0'-5'
LOWER FREEPORT	1420	0'-2'
UPPER KITTANNING	1370	1'-3'
LOWER KITTANNING	1270	2'-4'

NOTE: (NO COAL BEING MINED IN IMMEDIATE AREA)

New Location ☒
Drill Deeper ☐
Abandonment ☐

Minimum Error of Closure 1/9500
Source of Elevation (1958) B.M 37 SKS 1956 AD + 1739'
FAIRMONT EAST W.VA QUADRANGLE

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company PHILLIPS PETROLEUM COMPANY
Address BOX 287, GREAT BEND, KANSAS
Farm C. PAUL BARTH & MARY E. BARTH (DB-492 P-426)
Tract No-2 Acres 30 Lease No. 128853
Well (Farm) No. BARTH No. A-1 Serial No.
Elevation (Spirit Level) 1541.45'
Quadrangle FAIRMONT EAST W.VA
County MARION District WINFIELD
Engineer John W Horne / JOHN W. HORNE
Engineer's Registration No. W.VA. L.L.S #72-Su.
File No. Drawing No.
Date 10-15-75 Scale 1"= 200'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. MAR-321 02/16/2024

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

47-049

M 5056

02/16/2024

DIVISION OF WATER RESOURCES

Sampler's Report Form

DATE: 1/3/78

WEATHER: COLD

TOWN:
COMPANY: PHILLIPS Petroleum Co.
OTHER:
PLANT DESIGNATION: Parrin Gaswell #A-1 near FAIRMONT

LOCATION:
STREAM: Dunham Run
BASIN: MONON.
COUNTY: MARION

Sample Point No.	Sample Point Description	Sample Appearance (Field)	Bottle No. BOD	Bottle No. DO	Bottle No. Coli.	Time	Temp.	Routine	OTHER ANALYSES DESIRED
1	Pond 'A' (surface)	(Broke Ice) CLEAR				1:30 pm	-		pH, Acid. Alka. Chlorides, Sulfates, Deter. T.D.S., T.S.S. ~~T.S.~~ Fe, Al, Mn, Cu, Zn, Hg, As COD, TOC
2	Pond 'A' (Valve Discharge)	Clear to Yellow				1:50 pm			Same as above
3	Pond 'B' (surface)	near black				2:15 pm	-		" " "
4	Feeder Tributary to Dunham Run	Clear → Bottom Life Visible				2:55 pm			T.D.S., TSS, ~~T.S.~~ pH, Acid, Alka, Hard Chlorides, Sulfates,
									All of #1
5	Dunham Run	Clear → Devoid Bottom Life							except COD, TOC & Detergent

ROUTINES:

1. COAL
   - pH
   - Solids (T.S. & D.)
   - Appearance
   - Turbidity

2. MINE DRAINAGE
   - pH
   - Solids (T.S. & D.)
   - Hot Acidity
   - Alkalinity
   - Total Iron
   - Total Manganese
   - Total Sulfates

3. MUNICIPAL
   - pH
   - Solids (T.S. & D.)
   - Coliform

SKETCH

SAMPLER: Randy Sovic

It is understood that any water Pollution Control Permit issued pursuant to this application may be revoked or suspended and all of the enforcement procedures set forth in Article 5A, Chapter 20 of the Code of West Virginia invoked in the event that (1) future investigations disclose conditions other than stated in this application; or (2) there is failure to comply with the terms and conditions of any such permit issued pursuant to this application, with the plans and specifications submitted herewith, or with the plan of maintenance and method of operation submitted herewith.

By _____
(Signature and Title)

G. B. Heckler, Superintendent

For **PHILLIPS PETROLEUM COMPANY**

c) Fracture treating history indicates injection pressure will be 3,000 PSI. The fluid will be injected through tubing with packer. Annuli pressures will be monitored during disposal of 672,000 gallons. If necessary to use alternate zones for disposal, we anticipate pressures of 1800# (based on treating pressures of these zones in Burns Chapel Field).

d) No monitoring wells are planned since this is a one time disposal, and the proposed zones are well below the fresh water aquifers.

10. The Phillips No. 1 Barth is located on the Chestnut Ridge anticline, a major, northeast-southwest grending surface fold.

11. Well Log and Well Plat are attached.

GEOLOGIC AND DISPOSAL PARAMETERS

BARTH A NO. 1

PRELIMINARY REPORT

1. Chemical and physical properties of waste water are attached.

2. Rate of disposal - Max = 420 GPM, Average = 360 GPM.

3. Total volume of waste water = 672,000. No wells are served - all of the waste water is presently in surface pits.

4. Average pressure at wellhead = 2,000 PSI.
   Maximum pressure at wellhead = 3,000 PSI.

5. Disposal will be in the Barth A #1 Onandaga and Oriskany Sands. This well was completed as a gas well on October 20, 1977. There is no available market for the gas.

6. The injection interval will be from 7375 - 7632 feet. If this proves unsuccessful, we will perforate successively and use 1) Speechley and Balltown (2836-3046), 2) 4th and 5th Sands (2126-2206), and 3) Gantz (1622-1684).

7. The fresh water depth is 85. There are no active or abandoned gas, oil, or water wells within 1,000' of the proposed disposal well.

8. a) Analysis of formation water is attached.

   b) Onandaga limestone and chert section is a medium gray, micro crystalline limestone and gray to brown, silty shales interbedded in gray, highly fractured cherts. The Oriskany sandstone is gray, fine-medium-coarse grained, quartz grains are sub-round, fair to poorly sorted, calcareous cemented with some sandy shale beds near bottom.

   c) The matrix of the Onandaga-Oriskany strata is low in permeability; however, it is extremely fractured. It is low in permeability with a high degree of lateral continuity.

   d) Both waters are saline and we anticipate no problem with mixing them.

   e) We plan no prior treatment prior to injection.

9. a) The information requested is not applicable. This is a one-time disposal. No other wells will be served.

   b) See Well Plat.

02/16/2024

You are reminded that the State of West Virginia, Division of Water Resources reserves the authority to establish limitations at any time as a permit modification which shall follow the procedures afforded under Chapter 20, Article 5A-7(h) of the Water Pollution Control Act.

The effluent or effluents covered by this permit are to be of such quality so as not to violate present and future water quality criteria adopted by the State Water Resources Board. Further, the effluent quality is to be such that pollution, as defined by Chapter 20, Article 5A of the Code of West Virginia, will not occur in the ground waters of the State as a result of the disposal or discharge of such effluents.

The above-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit; with the plans and specifications submitted with Permit Application No. W-139, dated the 19 day of April, 19 78; with the plan of maintenance and method of operation thereof submitted with such application; and with any present or future rules and regulations duly adopted by the State Water Resources Board.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. W-139, dated the 19 day of April, 19 78, with the plan of maintenance and method of operation thereof submitted with such application, shall constitute grounds for the revocation or suspension of this permit and for the invocation of all the enforcement procedures set forth in Article 5A, Chapter 20 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Article 5A, Chapter 20 of the Code of West Virginia and is transferable under the terms of Section 7 of said article.

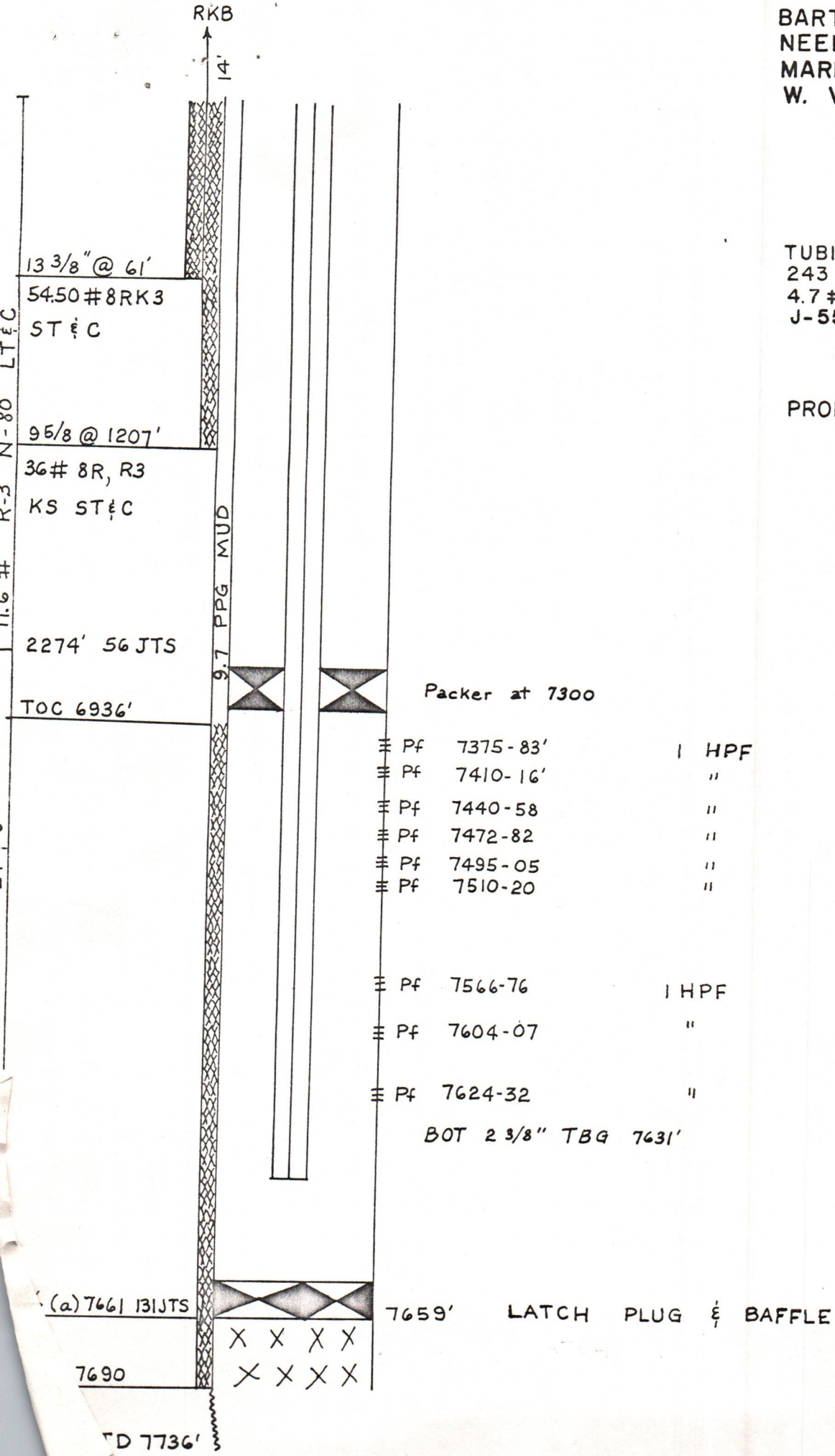
By: John W. Hace
Chief

02/16/2024

BARTH A-1
NEEL AREA
MARION CO.
W. VIRGINIA

TUBING SUMMARY
243 JTS 2 3/8" EUE
4.7# EUE SMLS T&C
J-55 R6-2 8R

PROPOSED COMPLETION



02/16/2024