

[08-78]

A-1

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

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
MAR 18 1981

Date: March 17, 1981

Operator's Well No. JOHN MILLS, JR. #155

API Well No. 47 - 103 - 1225
State County Perm

WELL TYPE: Oil X / Gas ___ /
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1489
District: Grant
County: Wetzel
Watershed: Buffalo Run
Quadrangle: Pine Grove 7.5'

WELL OPERATOR QUAKER STATE OIL REFG. CORP.
Address P.O. Box 1327
Parkersburg, WV 26101

DESIGNATED AGENT Carl J. Carlson
Address P.O. Box 1327
Parkersburg, WV 26101

OIL & GAS ROYALTY OWNER Mills Wetzel Lands, Inc.
Address 115 So. LaSalle Street
Chicago, Illinois 60603

COAL OPERATOR None
Address:

SURFACE OWNER Lewis Wetzel Hunting Ground
Address Dept. of Natural Resources
Charleston, WV 25305
Acreage 5228.5

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Mills Wetzel Lands, Inc.
Address 115 So. LaSalle Street
Chicago, Illinois 60603

FIELD SALE (IF MADE) TO:
Name None
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip L. Tracy 758-4573
Address Rt. #3
Alma, WV 26320

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address
MAR 24 1981

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed XX / lease ___ / other contract ___ / dated Nov. 30, 1980, to the undersigned well operator from Mills Wetzel Lands, Inc.

[If said deed, lease, or other contract has been recorded:]
Recorded on Sept. 22, 1980, in the office of the Clerk of the County Commission of Wetzel County, West Virginia, in Deed Book 60A at page 381. A permit is requested as follows:

PROPOSED WORK: Drill XX / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___ /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

09/08/2023

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

QUAKER STATE OIL REFINING CORPORATION
Well Operator
Carl J. Carlson
By _____
Its Asst. Dist. Production Manager

A-2

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DILLING CONTRACTOR (IF KNOWN) Clint Hurt & Associates

Address P.O. Box 388
Elkview, WV 25071

GEOLOGICAL TARGET FORMATION, Gordon

Estimated depth of completed well, 3450 feet, Rotary XX/ Cable tools /

Approximate water strata depths: Fresh, 150 feet; salt, 1950 feet.

Approximate coal seam depths: no mineable coals Is coal being mined in the area? Yes / No XX /

FRASING AND TUBING PROGRAM

FRASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8 5/8	J-55	20	XX		350	350	cemented to	surface
Coal									Sizes
Intermediate									
Production	4 1/2	K-55	9.5	XX		3450	3450	450 sx	Depths set
Tubing									
Packers									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 11-30-81.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

09/08/2023

#432

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name QUAKER STATE OIL REFG. CORP. Designated Agent Carl J. Carlson
Address P.O. Box 1327, Parkersburg, WV Address P.O. Box 1327, Parkersburg, WV
Telephone 614-423-9543 Telephone 614-423-9543
Landowner Lewis Wetzel Hunting Ground Soil Cons. District Upper Ohio SCD

Revegetation to be carried out by Quaker State Oil Refg. Corp. (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan. 3/29/81 Kenneth R. Mason
(Date) (SCD Agent)

Access Road		Location	
Structure	<u>Cross Drains</u> (A)	Structure	_____ (1)
Spacing	<u>100' or less</u>	Material	_____
Page Ref. Manual	<u>1:5</u>	Page Ref. Manual	_____
Structure	_____ (B)	Structure	_____ (2)
Spacing	_____	Material	_____
Page Ref. Manual	_____	Page Ref. Manual	_____
Structure	_____ (C)	Structure	_____ (3)
Spacing	_____	Material	_____
Page Ref. Manual	_____	Page Ref. Manual	_____

All structures should be inspected regularly and repaired if necessary.
All commercial timber is to be cut and stacked. All brush and small timber
to be cut and removed from site before dirt work begins.

Revegetation

<u>Treatment Area I</u>			<u>Treatment Area II</u>		
Lime	_____ Tons/acre	Lime	_____ Tons/Acre	or correct to pH	_____
	<u>6.5</u>				
Fertilizer	<u>600</u> lbs/acre	Fertilizer	_____ lbs/acre	(10-20-20 or equivalent)	
Mulch	<u>Straw 2</u> Tons/Acre	Mulch	_____ Tons/Acre		
Seed*	<u>Ky 31 Fescue 45</u> lbs/acre	Seed*	_____ lbs/acre		
	_____ lbs/acre		_____ lbs/acre		
	_____ lbs/acre		_____ lbs/acre		

*Inoculate all legumes such as vetch, trefoil and clovers with the proper
bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved Topographic map. Quadrangle Pine Grove.

Legend:  Well Site
 Access Road

RECEIVED

MAR 24 1981

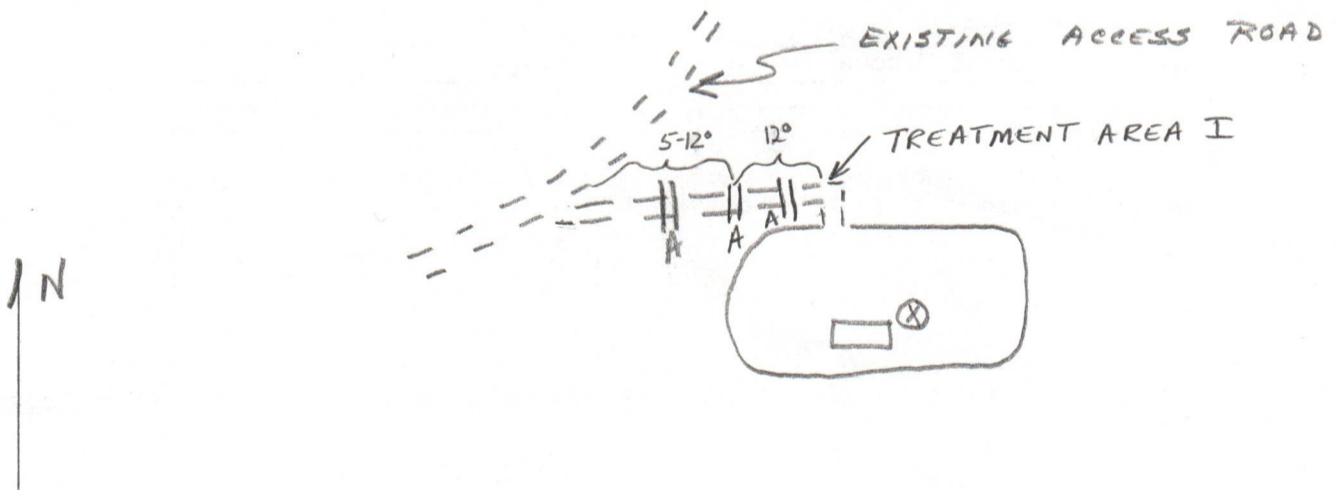
CO. & GAS DIVISION
DEPT. OF MINES

09/08/2023

Well Site Plan

- | | | | |
|--------------------------|--|------------|--|
| Legend: Property Boundry | | Diversion | |
| Road | | Spring | |
| Existing Fence | | Wet Spot | |
| Planned Fence | | Building | |
| Stream | | Drain Pipe | |
| Open Ditch | | Waterway | |

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



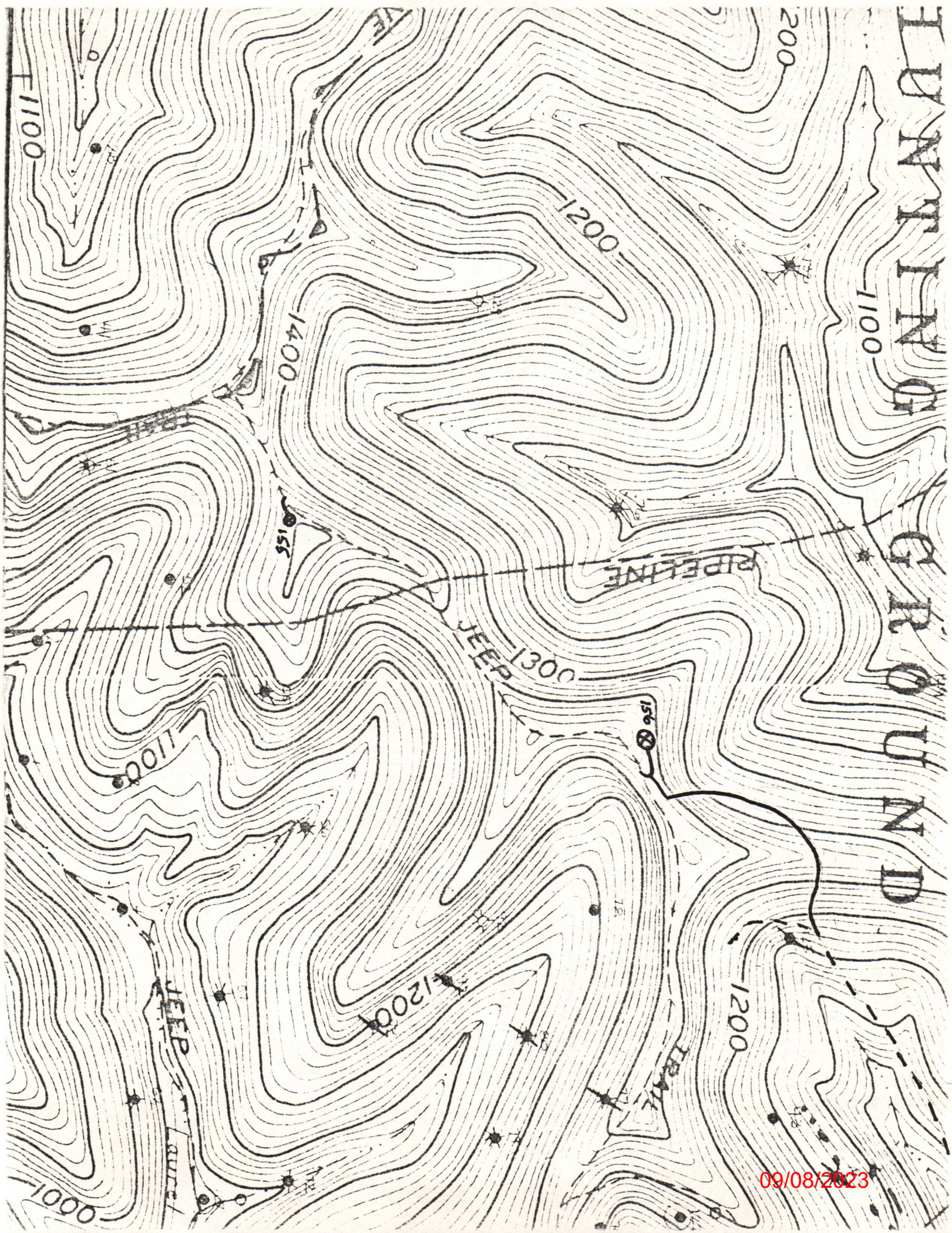
Comments: Pit will be plastic lines. Site grade is 0°. Access road grade varies 5-12°. Soil is type C. Cross drain locations to be flagged out under supervision of DNR service forester.

Signature: P.O. Box 1327, Parkersburg, WV 614-423-9543

Carl J. Carlson

Please request landowners cooperation to protect new seeding for one growing season.

09/08/2023



09/08/2023

OIL & GAS DIVISION
DEPT. OF MINES

MAR 24 1981

RECEIVED

B-1

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

Date September 11, 19 81

FORM IV-35
(Obverse)

Operator's
Well No. JOHN MILLS, JR. #155

[08-78,

WELL OPERATOR'S REPORT
OF

API Well No. 47 - 103 - 1225
State County Permit

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil XX / Gas XX / Liquid Injection / Waste Disposal /
(If "Gas", Production XX / Underground storage / Deep / Shallow XX /)

LOCATION: Elevation: 1489 Watershed: Buffalo Run
District: Grant County: Wetzel Quadrangle: Pine Grove 7.5'

WELL OPERATOR QUAKER STATE OIL REFG. CORP. DESIGNATED AGENT Carl J. Carlson
Address P.O. Box 1327 Address P.O. Box 1327
Parkersburg, WV 26102-1327 Parkersburg, WV 26102-1327

PERMITTED WORK: Drill XX / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

PERMIT ISSUED ON March 17, 19 81 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Phillip Tracy
Address Rt. #3
Alma, WV 26320

GEOLOGICAL TARGET FORMATION: Gordon Depth 3316-3364 feet
Depth of completed well, 3430 feet Rotary XX / Cable Tools
Water strata depth: Fresh, na feet; salt, 1875 feet.
Coal seam depths: 1258-61 Is coal being mined in the area? no
Work was commenced 7/7/81, 19 , and completed 7/12/81, 19

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8 5/8	J-55	20	xx		430	430	110 sx	
Coal									Sizes
Intermediate									
Production	4 1/2	K-55	9.5	xx		3413	3413	500 sx	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3316-64 feet
Gas: Initial open flow, show Mcf/d Oil: Initial open flow, show Bbl/d
Final open flow, 6 Mcf/d Final open flow, 10 Bbl/d
Time of open flow between initial and final tests, -- hours
Static rock pressure, 250 psig (surface measurement) after 12 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 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

09/08/2023

B-2

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

Perforated with 21 shots from 3324 to 3344.

Frac'd with 810 bbl. water and 27.000# of 20/40 sand.

Broke at 3100 psi, treated at 2500 psi and 33.7 BPM. I.S.I. 1570 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
Pittsburgh Coal			1258	1261	
Shale			1261	1350	
Sandstone & Siltstone			1350	2453	
Little Lime			2453	2467	
Limy Siltstone			2467	2489	
Pencil Cave			2489	2495	
Big Lime			2495	2560	
Big Injun			2560	2743	
Shale & Siltstone			2743	2895	
Coffee Shale			2895	2900	
Berea SS			2900	2906	
Siltstone & Sandstone			2906	3305	
Gordon Stray			3305	3312	
Shale			3312	3316	
Gordon Sand			3316	3364	
Siltstone			3364	T.D.	

(Attach separate sheets to complete as necessary)

QUAKER STATE OIL REFINING CORPORATION
 Well Operator
 By Steve Opritza
 I.T.S. Steve Opritza - Geologist

09/08/2023

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 coal, encountered in the drilling of a well."

B-3

RECEIVED

JUL - 9 1981

OG-11

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

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 103-1225

Oil or Gas Well _____
(KIND)

Company <u>Quaker State Oil Ref. Co.</u> Address <u>Parkersburg, West Virginia</u> Farm <u>Lewis Wetzel</u> Well No. <u>Mills-155</u> District <u>Buffalo</u> County <u>Wetzel</u> Drilling commenced <u>7-7-81</u> 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			Kind of Packer _____
	16			
	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 _____ 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:

Contractor, Clint Hurt, Rotary

July 7, 1981
DATE

William J. Blosser #502
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.

DATE

09/08/2023

DISTRICT WELL INSPECTOR

B-4

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

RECEIVED
JUL 13 1981

INSPECTOR'S WELL REPORT
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 103-1225

Oil or Gas Well _____
(KIND)

Company <u>Quaker State Oil Ref. Company</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address <u>Parkersburg, West Virginia</u>	Size		
Farm <u>Lewis Wetzel</u>	16			
Well No. <u>Mills-153</u>	13			Size of _____
District <u>Grant</u> County <u>Wetzel</u>	10			
Drilling commenced _____	8 1/4	<u>421' C.T.S. 125 sacks cement</u>		Depth set _____
Drilling completed _____ Total depth <u>2475'</u>	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

Contractor, Clint Hurt Rotary rig #3

July 10, 1981
DATE

William J. Bloss 06/08/2023
DISTRICT WELL INSPECTOR
William J. Bloss

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

09/08/2023

DISTRICT WELL INSPECTOR

B-5



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

May 20, 1982

Quaker State Oil Refining Corp.
P. O. Box 1327
Parkersburg, W. V. 26101

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

<u>PERMIT NO.</u>	<u>FARM AND WELL NO.</u>	<u>DISTRICT</u>
WET-1198-FRAC.	John Mills, Jr., #1	Grant
WET-1199-FRAC.	John Mills, Jr., #125	Grant
WET-1200-FRAC.	John Mills, Jr., #138	Grant
WET-1224	Mills Wetzel Lands, Inc./J. Mills, Jr. #154	Grant
WET-1225	Mills Wetzel Lands, Inc./John Mills, Jr. #155	Grant
WET-1226	Mills Wetzel Lands, Inc./John Mills, Jr. #156	Grant
WET-1227	Mills Wetzel Lands, Inc./John Mills, Jr. #157	Grant

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved.....

ss

Very truly yours,

Fred Burdette

09/08/2023

4-16-82

R.A. Louther 512

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			BRIDGE			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

RECEIVED
APR 14 1923
OIL AND GAS DIVISION
DEPARTMENT OF MINES

DATE

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

09/08/2023

DISTRICT WELL INSPECTOR

B-12

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

RECEIVED
NOV 17 1983

FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 103-12757
Company Quaker State
Inspector _____
Date _____

County Wetzel
Farm Mills Wetzel Lands
Well No. 155

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	_____
25.01	Necessary Equipment to prevent Waste	<input checked="" type="checkbox"/>	_____
23.03	Reclaimed Drilling Site	<input checked="" type="checkbox"/>	_____
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	_____
23.05	No surface or underground Pollution	<input checked="" type="checkbox"/>	_____
7.03	Identification Markings	<input checked="" type="checkbox"/>	_____

COMMENTS: This well was drilled before I started to work

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: R.A. Louth
DATE: 11-15-83

09/08/2023

RECEIVED

NOV 17 1983

DEPT. OF MINES
OIL & GAS DIVISION

[Faint handwritten notes]

[Faint handwritten notes]

[Faint handwritten notes]

[Faint handwritten notes]

09/08/2023

RECEIVED

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47 103 2 1225 ** 14</u>				OCT 20 1981
2.0 Type of determination being sought: (Use the codes found on the front of this form)	<u>103</u> Section of NGPA	← <u>N/A</u> Category Code	OIL & GAS DIVISION DEPT. OF MINE		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>3344</u> feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Quaker State Oil Refining Corporation</u> <u>015540</u> Name Seller Code				
	<u>P.O. Box 1327</u> Street				
	<u>Parkersburg</u> City	<u>W.Va.</u> State	<u>26101</u> Zip Code		
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>Grant District</u> Field Name				
	<u>Wetzel County</u> County				<u>W.Va.</u> State
(b) For OCS wells:	<u>N/A</u> Area Name		<u>N/A</u> Block Number		
	Date of Lease: <u>N/A</u> Mo. Day Yr.		<u>N/A</u> OCS Lease Number		
(c) Name and identification number of this well: (35 letters and digits maximum)	<u>John Mills, Jr. # 155</u>				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum)	<u>Gordon</u>				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>Tentative:</u> <u>Consolidated Gas Supply Corporation</u> Name				— Buyer Code
(b) Date of the contract:	<u>Under Negotiation</u> Mo. Day Yr.				
(c) Estimated annual production:	<u>2.19</u> MMcf.				
		(a) Base Price (\$/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)		<u>Under Negotiation</u>	---	---	<u>Under Negotiation</u>
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places)		<u>2.501</u>	---	---	<u>2.501</u>
9.0 Person responsible for this application	<u>Carl J. Carlson</u> <u>Dist. Prod. Mgr.</u> Name Title				
Agency Use Only Date Received by Juris. Agency <u>OCT 20 1981</u> Date Received by FERC	<u>Carl J. Carlson</u> Signature				<u>614-423-9543</u> Phone Number
	<u>September 23, 1981</u> Date Application is Completed				

FT7900506/2 2

09/08/2023

PARTICIPANTS:

DATE: FEB 22 1982

BUYER-SELLER CO

WELL OPERATOR: Quaker State Oil Refining Corp.
FIRST PURCHASER: Consolidated Gas Supply Corp.
OTHER:

015540
004228

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
811020-103-103 = 1225
Use Above File Number on all Communications
Relating to Determination of this Well

3
CK 1500

~~Approved for BAP...~~
APPROVED
J. H. Hagg

MAR 26 1984

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. All 70 8.0 bc
- 2. IV-1 Agent Carl J. Carlson
- 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 Was Oil Produced? Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
Gas Analyses _____
- (5) Date commenced: 7-7-81 Date completed 7-12-81 Deepened _____
- (5) Production Depth: 3316.64
- (5) Production Formation: Gordon
- (5) Final Open Flow: 6 MCF
- (5) After Frac. R. P. 250 # 12 hrs.
- (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 Rep
- (5) Oil Production: yes From Completion Report DB BL
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized? 09/08/2023
- Does official well record with the Department confirm the submitted information? yes
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

J

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

Date September 23, 1981

Operator's Well No. Mills #155

API Well No. 47 - 103 - 1225
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT Carl J. Carlson

ADDRESS P.O. Box 1327

Parkersburg, W.Va. 26101

LOCATION: Elevation 1489

Watershed Buffalo Run

Dist. Grant County Wetzel Quad. Pine Grove

WELL OPERATOR Quaker State

ADDRESS P.O. Box 1327

Parkersburg, W.Va. 26101

GAS PURCHASER Consolidated Gas Supply Corp.

ADDRESS 445 West Main Street

Clarksburg, W.Va. 26301

Gas Purchase Contract No.

Meter Chart Code

Date of Contract

John Mills #155

103 - 1225

$$P_i = \frac{250}{GL}$$

$$X = 53.34 TR$$

$$G = 0.80$$

$$L = 3430'$$

$$TR = T_f + 460'$$

$$T_f = 75'$$

$$\begin{aligned} BHP &= P_i + P_i (e^X - 1) \\ &= 250 + 250 \left[e^{\frac{(0.80)(3430)}{(53.34)(75+460)}} - 1 \right] \\ &= 250 + 250 \left(e^{\frac{2700}{28530.9}} - 1 \right) \\ &= 250 + 250 (e^{0.096} - 1) \quad \uparrow \\ &= 250 + 250 (1.10 - 1) \\ &= 250 + 25.2 \\ &= 275.2 \end{aligned}$$

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.

Carl J. Carlson

STATE OF WEST VIRGINIA,

COUNTY OF Wood, TO WIT:

I, Andrew J. Bonford, a Notary Public in and for the state and county aforesaid, do certify that Carl J. Carlson, whose name is signed to the writing above, bearing date the 23 day of September, 1981, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 23 day of September, 1981.

My term of office expires on the 27 day of April, 1982.

[NOTARIAL SEAL]

Andrew J. Bonford
Notary Public

09/08/2023



Date September 23, 1981

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

Operator's Well No. Mills #155

API Well No. 47 - 103 - 1225
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Carl J. Carlson

ADDRESS P.O. Box 1327

Parkersburg, W.Va. 26101

WELL OPERATOR Quaker State

LOCATION: Elevation 1489

ADDRESS P.O. Box 1327

Watershed Buffalo Run

Parkersburg, W.Va. 26101

Dist. Grant County Wetzel Quad. Pine Grove

GAS PURCHASER Consolidated Gas Supply Corp.

Gas Purchase Contract No. }

ADDRESS 445 West Main Street

Meter Chart Code }

Clarksburg, W.Va. 26301

Date of Contract }

* * * * *

Date surface drilling was begun: 7-7-81

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

250 psig after 12-hour shut-in period.

AFFIDAVIT

I, Carl J. Carlson, 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.

Carl J. Carlson

STATE OF WEST VIRGINIA,

COUNTY OF Wood, TO WIT:

I, Andrew J. Bonford, a Notary Public in and for the state and county aforesaid, do certify that Carl J. Carlson, whose name is signed to the writing above, bearing date the 23 day of September, 1981, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 23 day of September, 1981.

My term of office expires on the 27 day of April, 1982.

[NOTARIAL SEAL]

Andrew J. Bonford
Notary Public

09/08/2023

Date September 23, 1981

Operator's Well No. Mills # 155

API Well No. 47 - 103 - 1225
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. N/A
(If Applicable)

WELL OPERATOR Quaker State

DESIGNATED AGENT Carl J. Carlson

ADDRESS P.O. Box 1327

ADDRESS P.O. Box 1327

Parkersburg, W.Va. 26101

Parkersburg, W.Va. 26101

Gas Purchase Contract No. Under Negotiations Date _____
(Month, day and year)

Meter Chart Code _____

Name of First Purchaser Consolidated Gas Supply Corporation

445 West Main Street
(Street or P. O. Box)
Clarksburg, W.Va. 26301
(City) (State) (Zip Code)

FERC Seller Code 015540

FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 103 Category Code N/A
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Name (Print) Carl J. Carlson Title Dist. Prod. Mgr.

Signature Carl J. Carlson

P.O. Box 1327
Street or P. O. Box

Parkersburg, W.Va. 26101
City State (Zip Code)

(614) 423-9593
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

Sent by certified mail.

(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 _____ under the Natural Gas Policy Act of 1976, (NGPA); 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 _____ day of _____, 19____, 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. _____

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

Date received by Jurisdictional Agency

OCT 20 1981

By J. E. [Signature]
Title _____

09/08/2023

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

Date September 11, 19 81

FORM IV-35
(Obverse)

Operator's
Well No. JOHN MILLS, JR. #155

[08-79,

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

API Well No. 17 - 103 - 1225
State County Permit

WELL TYPE: Oil XX / Gas XX / Liquid Injection / Waste Disposal /
(If "Gas", Production XX / Underground storage / Deep / Shallow XX /)

LOCATION: Elevation: 1489 Watershed: Buffalo Run
District: Grant County: Wetzel Quadrangle: Pine Grove 7.5'

WELL OPERATOR QUAKER STATE OIL REFG. CORP. DESIGNATED AGENT Carl J. Carlson
Address P.O. Box 1327 Address P.O. Box 1327
Parkersburg, WV 26102-1327 Parkersburg, WV 26102-1327

PERMITTED WORK: Drill XX / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

PERMIT ISSUED ON March 17, 19 81

OIL & GAS INSPECTOR FOR THIS WORK:
Name Phillip Tracy
Address Rt. #3
Alma, WV 26320

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
 , 19

GEOLOGICAL TARGET FORMATION: Gordon Depth 3316-3364 feet
Depth of completed well, 3430 feet Rotary XX / Cable Tools
Water strata depth: Fresh, na feet; salt, 1875 feet.
Coal seam depths: 1258-61 Is coal being mined in the area? no
Work was commenced 7/7/81, 19 , and completed 7/12/81, 19

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water	8 5/8	J-55	20	XX		430	430	110 SX
Coal								Sizes
Intermediate								
Production	4 1/2	K-55	9.5	XX		3413	3413	500 SX
Tubing								
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3316-64 feet
Gas: Initial open flow, show Mcf/d Oil: Initial open flow, show Bbl/d
Final open flow, 6 Mcf/d Final open flow, 10 Bbl/d
Time of open flow between initial and final tests, hours
Static rock pressure, 250 psig (surface measurement) after 12 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 Final open flow, Bbl/d
Time of open flow between initial and final tests, hours

09/08/2023

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

Perforated with 21 shots from 3324 to 3344.

Frac'd with 810 bbl. water and 27.000# of 20/40 sand.

Broke at 3100 psi, treated at 2500 psi and 33.7 BPM. I.S.I. 1570 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
Pittsburgh Coal			1258	1261	
Shale			1261	1350	
Sandstone & Siltstone			1350	2453	
Little Lime			2453	2467	
Limy Siltstone			2467	2489	
Pencil Cave			2489	2495	
Big Lime			2495	2560	
Big Injun			2560	2743	
Shale & Siltstone			2743	2895	
Coffee Shale			2895	2900	
Berea SS			2900	2906	
Siltstone & Sandstone			2906	3305	
Gordon Stray			3305	3312	
Shale			3312	3316	
Gordon Sand			3316	3364	
Siltstone			3364	T.D.	

(Attach separate sheets to complete as necessary)

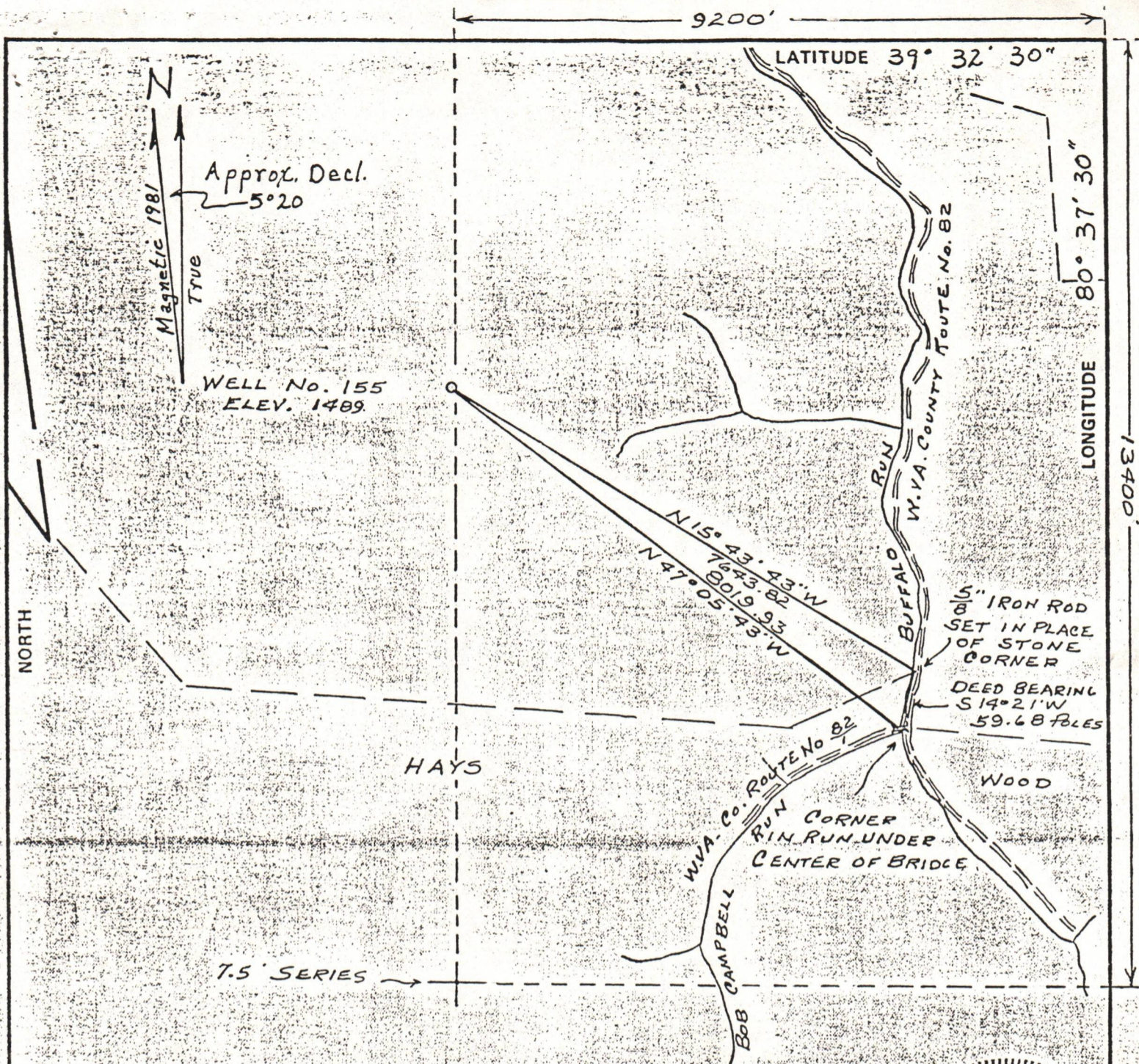
QUAKER STATE OIL REFINING CORPORATION
Well Operator

By Steve Opritza
Trs. Steve Opritza - Geologist

09/08/2023

NOTE: Regulation 2.02(i) provides as follows:

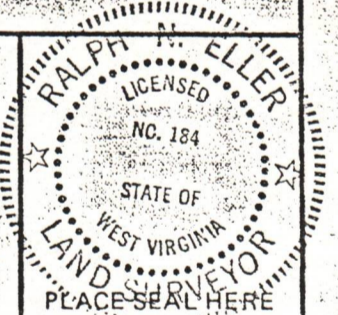
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION B.M R-138
823'

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 MINES.

(SIGNED) Ralph N. Eller
 R.P.E. _____ L.L.S. No. 184



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

FORM IV-6 (8-78)



DATE FEB. 28, 1981
 OPERATOR'S WELL NO. 155
 API WELL NO. _____
47 - 103 - _____
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

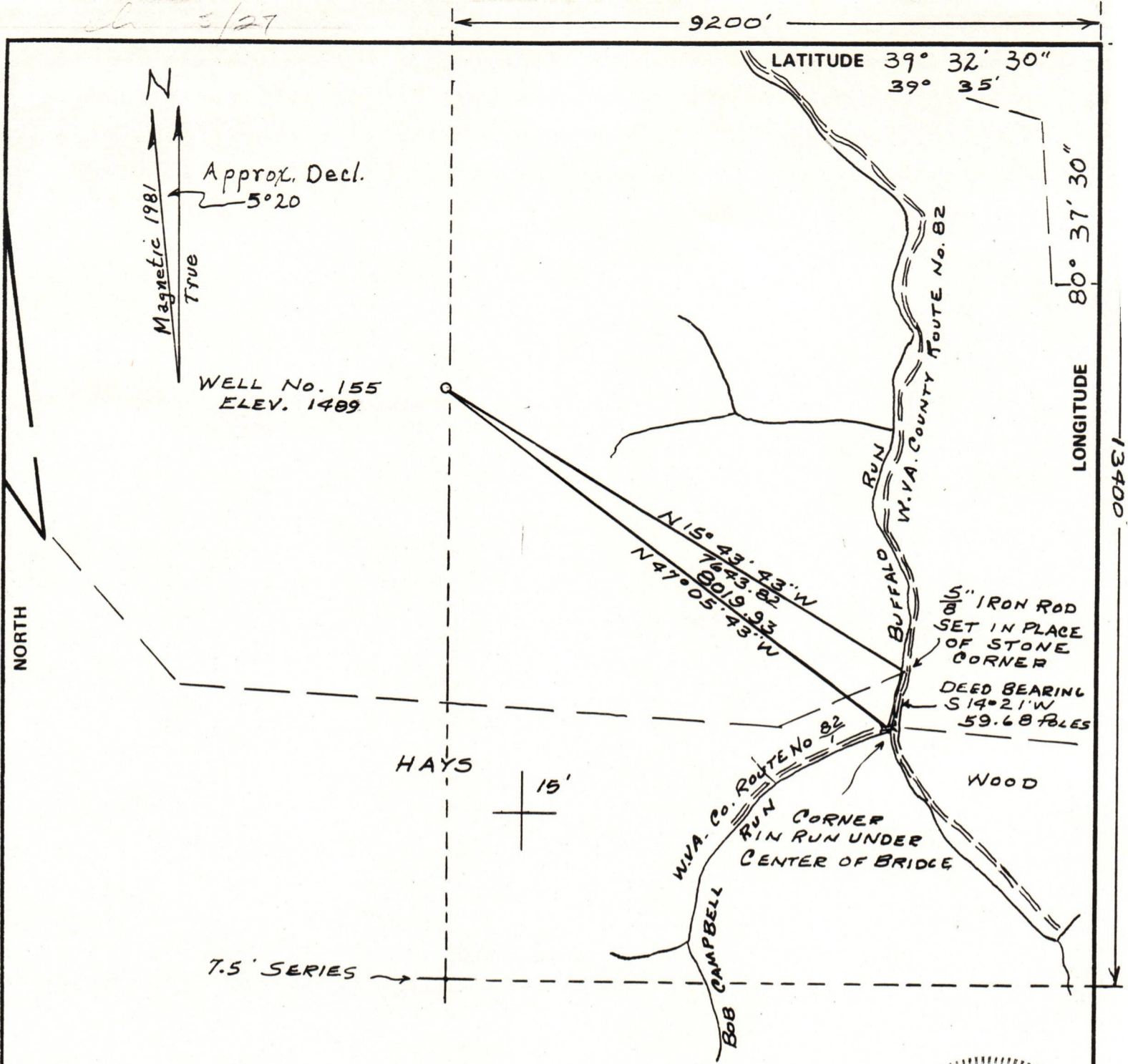
WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1489 WATER SHED BUFFALO RUN
 DISTRICT GRANT COUNTY WETZEL
 QUADRANGLE PINE GROVE

SURFACE OWNER LEWIS WETZEL HUNTING GROUND ACREAGE 5228.50
 OIL & GAS ROYALTY OWNER MILLS WETZEL LAND INC. LEASE ACREAGE 5228.50
 LEASE NO. W-195

09/08/2023

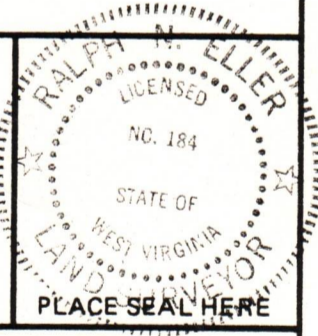
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON ESTIMATED DEPTH 3450
 WELL OPERATOR QUAKER STATE OIL REF. CORP. DESIGNATED AGENT CARL J. CARLSON
 ADDRESS P.O. Box # 1327 ADDRESS P.O. Box # 1327
PARKERSBURG, W.VA. 26101 PARKERSBURG, W.VA. 26101



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION B.M. R-138
823'

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 MINES.
 (SIGNED) Ralph N. Eller
 R.P.E. _____ L.L.S. No. 184



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE FEB. 28, 1981
 OPERATOR'S WELL NO. 155
 API WELL NO. _____
47 - 103 - 1225
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1489 WATER SHED BUFFALO RUN
 DISTRICT GRANT COUNTY WETZEL
 QUADRANGLE PINE GROVE 41
 SURFACE OWNER LEWIS WETZEL HUNTING GROUND ACREAGE 5228.50
 OIL & GAS ROYALTY OWNER MILLS WETZEL LAND INC. LEASE ACREAGE 5228.50 09/08/2023
 LEASE NO. W-195
 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 GORDON ESTIMATED DEPTH 3450
 WELL OPERATOR QUAKER STATE OIL REF. CORP. DESIGNATED AGENT CARL J. CARLSON
 ADDRESS P.O. Box # 1327 ADDRESS P.O. Box # 1327
PARKERSBURG, W.VA. 26101 PARKERSBURG, W.VA. 26101

B-11

OG-11

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

INSPECTOR'S WELL REPORT

Permit No. 103-1225

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Quaker State</u>	Size			
<u>Parkersburg, W. Va.</u>	16			Kind of Packer
<u>Mills Wetzel Lands</u>	13			
<u>155</u>	10			Size of
<u>Grant</u> County <u>Wetzel</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

RECEIVED

Remarks:

Final Inspection

APR 19 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

4-16-82

R.A. Louder 09/08/2023
512

DATE

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: _____

RECEIVED
 APR 1 1923
 DISTRICT INSPECTOR

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

DATE

09/08/2023

DISTRICT WELL INSPECTOR