

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's
Well No. J. MILLS, JR. #153

API Well No. 47 - 103 - 122
State County Perm.

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

LOCATION: Elevation: 1509 Watershed: Buffalo Run
District: Grant County: Wetzel Quadrangle: Center Point

WELL OPERATOR QUAKER STATE OIL REFG. CORP. DESIGNATED AGENT Carl J. Carlson
Address P.O. Box 1327 Address P.O. Box 1327
Parkersburg, WV 26101 Parkersburg, WV 26101

OIL & GAS ROYALTY OWNER Mills Wetzel Lands, Inc. COAL OPERATOR None
Address 115 So. LaSalle Street Address:
Chicago, Illinois 60603

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

Address Dept. of Natural Resources
Charleston, WV 25305
Acreage 5228.5

FIELD SALE (IF MADE) TO:
Name None
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip L. Tracy 758-4573
Address Rt. #2
Alma, WV 26320

RECEIVED
MAR 18 1981
OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
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, 1948, 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) 343-3092

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, 3550 feet, Rotary XX / Cable tools /

Approximate water strata depths: Fresh, 150 feet; salt, 2000 feet.

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

DRILLING AND TUBING PROGRAM

DRILLING 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	X		350	350	cemented to	surface
Coal									Sizes
Intermediate									
Production	4 1/2	K-55	9.5	X		3550	3550	450sx	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 dwelling 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

Date: , 19

By
Its

A-4

Date March 17, 19 81
Well No. J. MILLS JR. #153
API No. 47 - 103 - 1223
State County Permit

#430

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, WB 26101 Address P.O.Box 1327, Parkersburg, WV 26101
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. 3/20/81 (Date) Hermit H. Plam (SCD Agent)

Access Road	Location
Structure <u>Cross Drains</u> (A)	Structure _____ (1)
Spacing <u>250' 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 or correct to pH <u>6.5</u>	Lime _____ Tons/Acre or correct to pH _____
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer _____ lbs/acre (10-20-20 or equivalent)
Mulch <u>Straw</u> <u>2</u> Tons/Acre	Mulch _____ Tons/Acre
Seed* <u>Ky 31</u> <u>Fescue</u> <u>45</u> lbs/acre _____ lbs/acre _____ lbs/acre	Seed* _____ 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 Center Point.

Legend:  Well Site
 Access Road

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09/08/2023

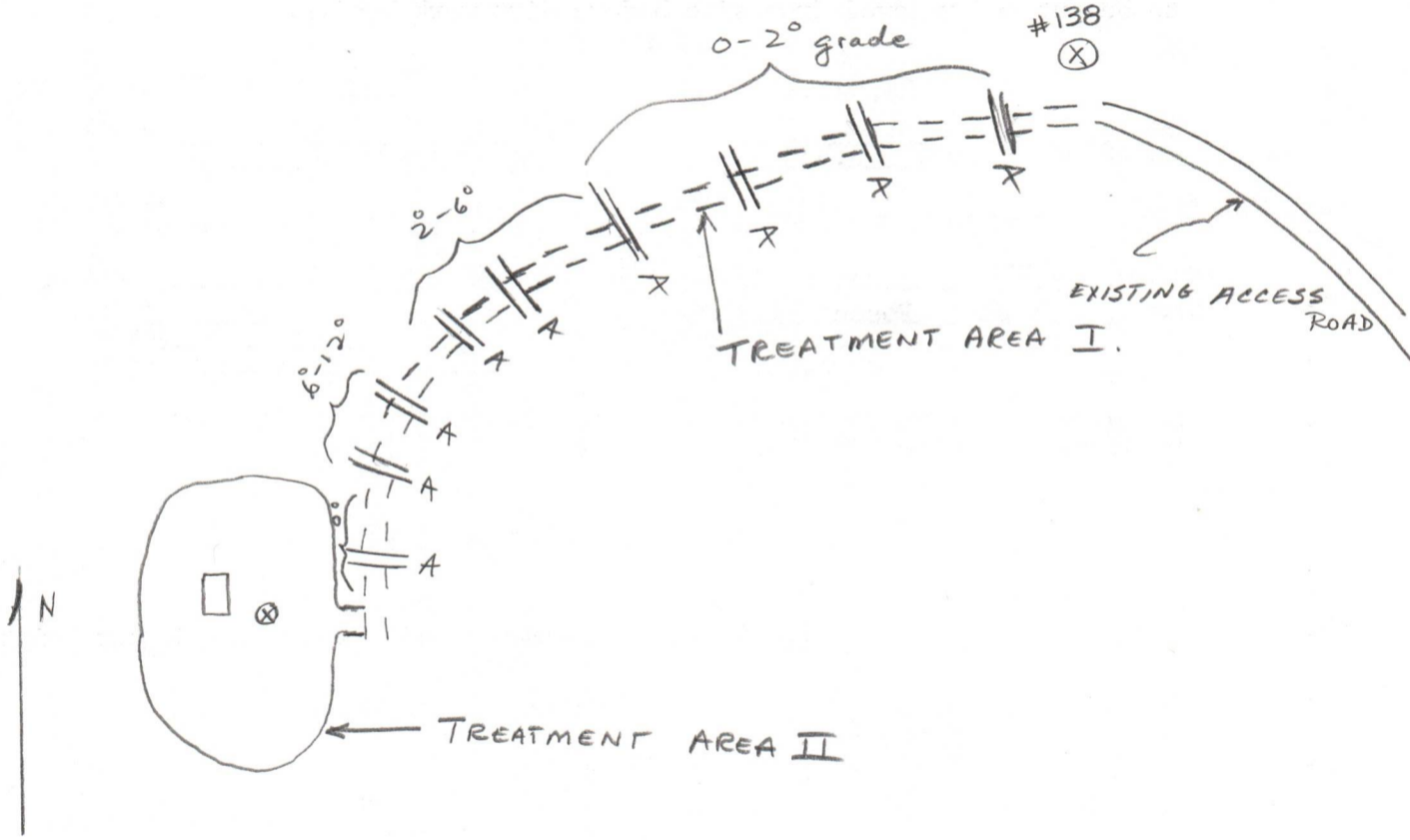
A-5

Well Site Plan

- Legend:
- Property Boundry
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch

- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- 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.

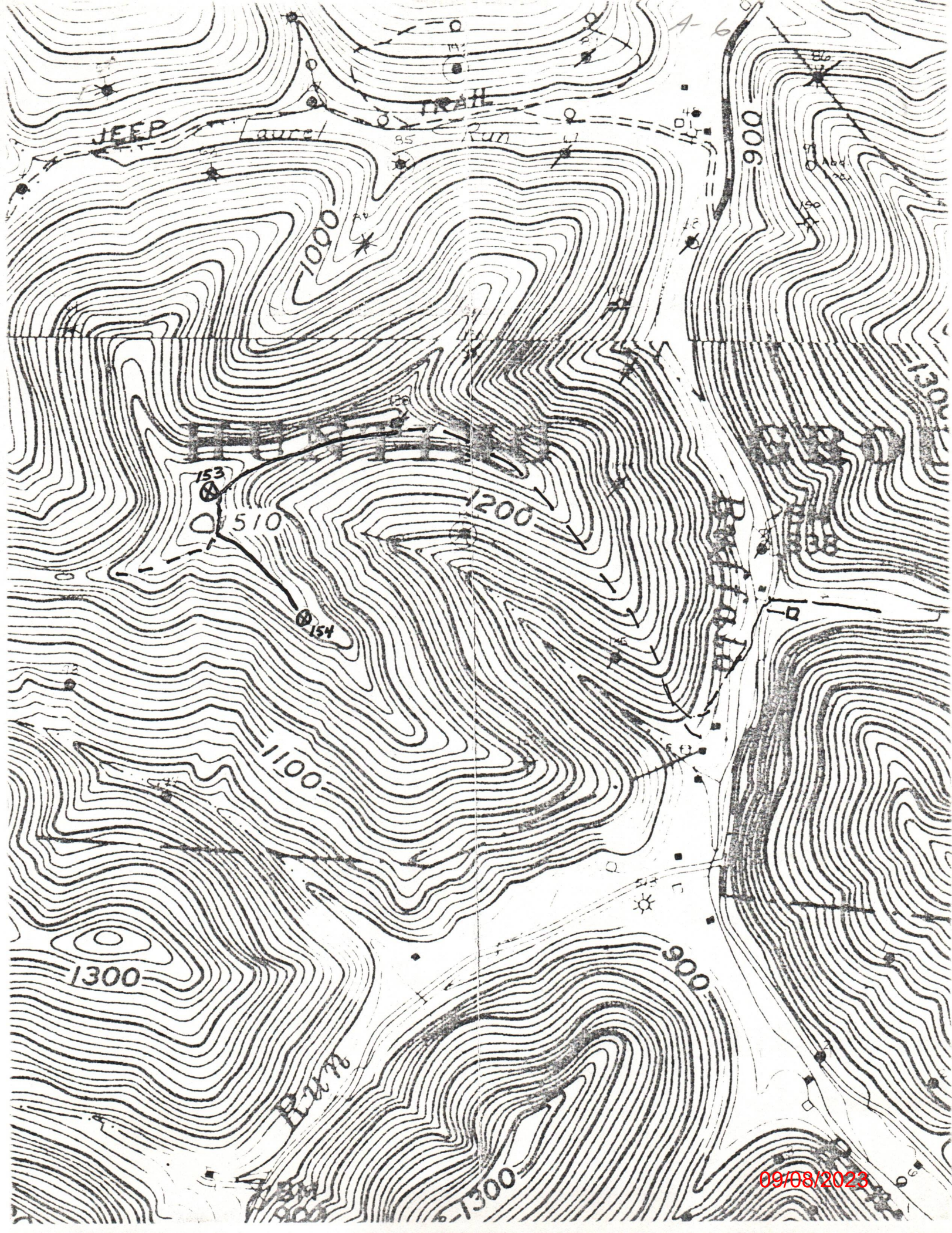


Comments: Pit will be lined with Plastic. Cross drains will be flagged out
under supervision of Service Forester of DNR. Location grade 0%. Road
grade 0° - 12°. Soil is Type C.

Signature:

Agent Address PO # 09/08/2023

Carl J. Carlson P.O. Box 1327, Parkersburg, WV 614-4239543
 Please request landowners cooperation to protect new seeding for one growing season.



09/08/2023

OIL & GAS DIVISION
DEPT. OF MINES

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09/08/2023

A-10

QUAKER STATE OIL REFINING CORPORATION

PARKERSBURG PRODUCTION DEPARTMENT
1226 PUTNAM HOWE DRIVE
BELPRE, OHIO 45714

PHONE: (614) 423-9543

Mail Address:
Post Office Box 1327
Parkersburg, West Virginia 26101

March 23, 1981

Mr. Fred Burdette
DEPARTMENT OF MINES
Oil & Gas Wells Division
1613 Washington Street, East
Charleston, West Virginia 25311

Dear Fred:

Here are the revised permit applications for our Mills #153, 154, 155, 156, and 157. I checked with the W. Va. Geological Survey and there are no mineable coal seams in this area. We have modified the applications to reflect this and now show "No mineable coal" in the blank for the coal seams. We will be cementing the production string across any non-mineable seams just in case. If you have any further questions, please call me.

Sincerely yours,

QUAKER STATE OIL REFINING CORPORATION



Michael C. Brannock
Senior Geologist

MCB/rmk

Encl.

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. #153

[08-78,

WELL OPERATOR'S REPORT
OF

API Well No. 47 - 103 - 1223
State County Permi-

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil XX / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___)
LOCATION: Elevation: 1509 Watershed: Buffalo Run
District: Grant County: Wetzel Quadrangle: Center Point

WELL OPERATOR QUAKER STATE OIL REFG. CORP. DESIGNATED AGENT Carl J. Carlson
Address P.O. Box 1327 Address P.O. Box 1327
Parkersburg, WV 26102-1237 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 30, 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 L. Tracy
Address Rt. #3
Alma, WV 26320

GEOLOGICAL TARGET FORMATION: Gordon Depth 3380 - 3417 feet
Depth of completed well, 3522 feet Rotary XX / Cable Tools ___
Water strata depth: Fresh, na feet; salt, 1895 feet.
Coal seam depths: na Is coal being mined in the area? no
Work was commenced 6/24/81, 19___, and completed 6/29/81, 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		387	387	110 SX
Coal								Sizes
Intermediate								
Production	4 1/2	K-55	9.5	XX		3477	3477	440 SX
Tubing								
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3380 - 3417 feet
Gas: Initial open flow, show Mcf/d Oil: Initial open flow, show Bbl/d
Final open flow, 10 Mcf/d Final open flow, 3 Bbl/d
Time of open flow between initial and final tests, --- hours
Static rock pressure, 500 psig (surface measurement) after 12 hours shut in

09/08/2023

[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

B-2

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

Perforated from 3390 to 3410 with 21 shots (.49")
 Frac'd with 825 bbl. water and 28,000# 20/40 sand. Broke at 3200 psi, treated at 2675 psi and 27 BPM. I.S.I. 2100 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
Shale & Siltstone			0	1070	
Sandstone			1070	1192	
Shale & Siltstone			1192	1270	
Sandstone			1270	1310	
Shale & Siltstone			1310	1387	
Sandstone			1387	1410	
Shale			1410	1801	
Sandstone			1801	1824	
Shale			1824	1895	
Sandstone & Shale			1895	2276	Salt Sands
Shale			2276	2516	
Limestone			2516	2520	Little Lime
Shale			2520	2534	Pencil Cave
Limestone			2534	2592	Big Lime
Sandstone			2592	2793	Big Injun
Shale & Siltstone			2793	3364	
Sandstone			3364	3368	Gordon Stray
Shale & Siltstone			3368	3380	
Sandstone			3380	3417	Gordon
Shale			3417	3522	L.T.D.

(Attach separate sheets to complete as necessary)

QUAKER STATE OIL REFINING CORPORATION
 Well Operator

By Michael C. Brannock

Its Michael C. Brannock - Sr. 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."

DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

Wet-1223

INSPECTOR'S WELL REPORT

Permit No. _____ Oil or Gas Well _____
KIND _____

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Quaker State Oil				
Address Parkersburg Wv.	Size			
Farm Mills Wetzel	16			Kind of Packer
Weil No. 153	13			Size of
District _____ County Wetzel	10			
Drilling commenced _____	8 3/4			Depth set
Drilling completed _____ Total depth _____	6 3/4			
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf top
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf bottom
Volume _____ Cu. Ft.	Liners Used			Perf top
Rock pressure _____ lbs. _____ hrs.				Perf bottom
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Moving rig in

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JUN 30 1981

OIL & GAS DIVISION
DEPT. OF MINES

D. J. Tracy 512
DISTRICT WELL INSPECTOR
09/08/2023

6-23-81
DATE

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

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JUL - 9 1981

INSPECTOR'S WELL REPORT

Permit No. 103-1223

OIL & GAS DIVISION
Oil or Gas Well
(KIND)
DEPT. OF MINES

Company <u>Quaker State Oil Ref. Co</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-152</u>	13			Size of
District <u>Grant</u> County <u>Wetzel</u>	10			
Drilling commenced	8 1/4	396'		Depth set
Drilling completed	6 5/8			
Total depth <u>3526'</u> Log - <u>3522'</u>	5 3/16			Perf. top
Date shot	3			Perf. bottom
Depth of shot	2			Perf. top
Initial open flow	Liners Used			Perf. bottom
/10ths Water in				
Inch				
Open flow after tubing				
/10ths Merc. in				
Inch				
Volume	CASING CEMENTED	SIZE	No. FT.	Date
Cu. Ft.				
Rock pressure	NAME OF SERVICE COMPANY			
lbs.				
hrs.				
Oil	COAL WAS ENCOUNTERED AT			
bbls., 1st 24 hrs.				FEET INCHES
Fresh water				FEET INCHES
feet				FEET INCHES
feet				FEET INCHES
Salt water				FEET INCHES
feet				FEET INCHES
feet				FEET INCHES

Drillers' Names _____

Remarks:

Contractor, Clint Hurt Rotary

July 7, 1981

DATE

William J. Blosser #502
DISTRICT WELL INSPECTOR

William J. Blosser

09/08/2023

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

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 NOV 17 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

Permit No. 103-1223 County Wetzel
 Company Quaker State Farm mills
 Inspector _____ Well No. 153
 Date _____

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	<u>✓</u>	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	<u>✓</u>	_____
25.01	Necessary Equipment to prevent Waste	<u>✓</u>	_____
23.03	Reclaimed Drilling Site	<u>✓</u>	_____
23.04	Reclaimed Drilling Pits	<u>✓</u>	_____
23.05	No surface or underground Pollution	<u>✓</u>	_____
7.03	Identification Markings	<u>✓</u>	_____

COMMENTS: This well was drilled before I started
to work

Release

I have inspected the above well and (HAVE) 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. Lowther
 DATE: 11-15-83

09/08/2023

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NOV 13 1983

Oil & Gas Division

DEPT. OF MINES

103
104
105

NOV 13 1983
BANK OF AMERICA

11-10-83

11-10-83

09/08/2023



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

November 30, 1983

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

In Re: PERMIT NO: 47-103-1223
FARM: Mills Wetzel Lands, Inc.
WELL NO: J. Mills, Jr. #153
DISTRICT: Grant
COUNTY Wetzel 3/81

Gentlemen:

The FINAL INSPECTION REPORT for the above described well has been received in this office. Only the column check below applies:

 The well designated by the above permit number has been released under your Blanket Bond.

 Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

XXXXXX Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well will remain under bond coverage for life of the well.

Very truly yours,

Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

09/08/2023

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OCT 20 1981

OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47 103 2 1223 ** 14			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3410 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Quaker State Oil Refining Corporation Name P.O. Box 1327 Street Parkersburg City			015540 Seller Code
5.0 Location of this well: (Complete (a) or (b).)	Grant District Field Name			
(a) For onshore wells (35 letters maximum for field name.)	Wetzel County County			W.Va. State
(b) For OCS wells:	N/A Area Name	N/A Block Number		
	Date of Lease: Mo. Day Yr.		N/A OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum)	John Mills, Jr. # 153			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum)	Gordon			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tentative: Consolidated Gas Supply Corporation Name			Buyer Code
(b) Date of the contract:	Under Negotiation Mo. Day Yr.			
(c) Estimated annual production:	3.65 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)	Under Negotiation	---	---	Under Negotiation
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places)	2.501	---	---	2.501
9.0 Person responsible for this application	Carl J. Carlson Name Dist. Prod. Mgr. Title			
Agency Use Only	Signature Carl J. Carlson			
Date Received by Joint Agency	September 23, 1981 Date Application is Completed			
Date Received by FERC	614-423-9543 Phone Number			

FT7903S06/2 2

09/08/2023

PARTICIPANTS:

DATE: FEB 22 1992

BUYER-SELLER CODE

WELL OPERATOR: Quaker State Oil Refining Corp.

015540

FIRST PURCHASER: Consolidated Gas Supply Corp.

004228

OTHER:

3
 W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
811020-103-103-1223
 Use Above File Number on all Communications
 Relating to Determination of this Well

CR 1500

103-1200 = 1250'

103-1224 = 920"

Deferred for hearing, BP calculation and
 Complete well record
 J. Huggley

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. All 7.0 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: 6-24-81 Date completed 6-29-81 Deepened
- (5) Production Depth: 3380-3417
- (5) Production Formation: Gordon
- (5) Final Open Flow: 10 MCF
- (5) After Frac. R. P. 500 # 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 Report
- (5) Oil Production: yes From Completion Report 3 BBL
- 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 #153

API Well No. 47 - 103 - 1223
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

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

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

Carl J. Carlson Signature

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

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

(619) 423-9543 Area Code Phone Number

(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 1978, (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 103 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

OCT 20 1981

Date received by Jurisdictional Agency

J. E. Haggerty By Title

09/08/2023

Date September 23, 1981

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

Operator's Well No. Mills #153

API Well No. 47 - 103 - 1223
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

WELL OPERATOR Quaker State
ADDRESS P.O. Box 1327
Parkersburg, W.Va. 26101
GAS PURCHASER Consolidated Gas Supply
ADDRESS 445 West Main St.
Clarksburg, W.Va. 26301

DESIGNATED AGENT Carl J. Carlson
ADDRESS P.O. Box 1327
Parkersburg, W.Va. 26101
LOCATION: Elevation 1509
Watershed Buffalo Run
Dist. Grant County Wetzel Quad. Center Point
Gas Purchase Contract No. - } Under
Meter Chart Code = } Negotiation
Date of Contract =

* * * * *

Date surface drilling was begun: 6-24-81

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

500 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, Audrey J. Renfard, 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, 1981.

[NOTARIAL SEAL]

Audrey J. Renfard
Notary Public

09/08/2023

John Mills # 153

$$P_i = 500$$

$$K = \frac{GL}{53.34 T_R}$$

$$G = 0.70$$

$$L = 3522'$$

$$T_R = T_f + 460^\circ$$

$$T_f = 75^\circ$$

103-1223

$$\begin{aligned} BHP &= P_i + P_i (e^x - 1) \\ &= 500 + 500 \left[e^{\frac{(0.70)(3522)}{(53.34)(75+460)}} - 1 \right] \\ &= 500 + 500 \left(e^{\frac{2465.4}{28536.9}} - 1 \right) \\ &= 500 + 500 (e^{0.086} - 1) \\ &= 500 + 500 (1.090 - 1) \\ &= 500 + 45.1 \\ &= 545.1 \end{aligned}$$



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

BEFORE THE OFFICE OF OIL AND GAS
OF THE DEPARTMENT OF MINES
OF THE STATE OF WEST VIRGINIA

IN THE MATTER OF THE APPLICATIONS)	
OF QUAKER STATE OIL REFINING COR-)	
PORATION FOR CERTIFICATION OF)	CAUSE NO. 29
CERTAIN WELLS IN KANAWHA AND)	
WETZEL COUNTIES, WEST VIRGINIA,)	ORDER NO. 6-1
AS NEW ONSHORE PRODUCTION WELLS)	
UNDER SECTION 103 OF THE NATURAL)	
GAS POLICY ACT.)	

REPORT OF THE OFFICE

This cause came before the Administrator of the Office of Oil and Gas on April 14, 1982, at 10:00 a.m., in Conference Room C, Capitol Conference Center, Charleston, West Virginia, after giving notice of hearing as required by law on the applications of Quaker State Oil Refining Corporation for certification of wells Nos. 47-039-3584, 47-103-1223 and 47-103-1224 as new onshore production wells under Section 103 of the Natural Gas Policy Act.

FINDINGS OF FACT

1. Applicant is an operator within the meaning of paragraph (w) of Chapter 22-4-1 subject to the provisions of Article 4 and the necessary rules and regulations promulgated for enforcement of Articles 4, 5 and 7 of Chapter 22.
2. Applicant has made filings for certification pursuant to Rule 34.03.
3. The Office of Oil and Gas "Well Certification Requirements" filed with the Federal Energy Regulatory Commission states as follows:

As a requirement for new onshore production wells under Section 274.204, "...any well that does not conform with Chapter 22-4B-8 of the West Virginia Code of 1931, as amended, will not be certified without a hearing."
4. Chapter 22-4B-8 - Distance Limitations - (a) ...unless the following limitations are observed:
 - (1) "For all shallow wells with a depth less than three thousand feet, there shall be a minimum distance of one thousand feet from the nearest existing well..."

(2) "For all shallow wells with a depth of three thousand feet or more, there shall be a minimum distance of one thousand five hundred feet from the nearest existing well...."

5. Applicant's well in Kanawha County is completed shallower than three thousand (3,000) feet and the wells in Wetzel County are completed deeper than three thousand (3,000) feet.

6. Well Nos. 47-039-3584, 47-103-1223 and 47-103-1224 were drilled for oil production with 90% to 100% of the income of each well expected from oil production.

7. The average GOR of the well in the Kanawha County Field is 1,640 cu. ft. of gas/bbl of oil and 5,000 cu. ft. of gas/bbl of oil in the John Mills Field of Wetzel County.

8. Spacing for maximum recovery of oil is six hundred sixty (660) feet in the Kanawha County Field and one thousand three hundred forty (1,340) feet in the John Mills Field of Wetzel County.

CONCLUSION OF LAW

1. That due notice of the time, place and purpose of the hearing has been given in all respects as required by law.

2. That pursuant to Chapter 22, Article 4, Code of West Virginia of 1931, as amended, the Office has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

ORDER

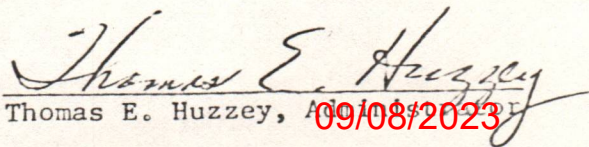
NOW, therefore, based on the aforementioned Findings of Fact and Conclusion of Law, it is found by the Administrator that Quaker State Oil Refining Corporation's applications for certification of wells Nos. 47-039-3584, 47-103-1223 and 47-103-1224 are approved.

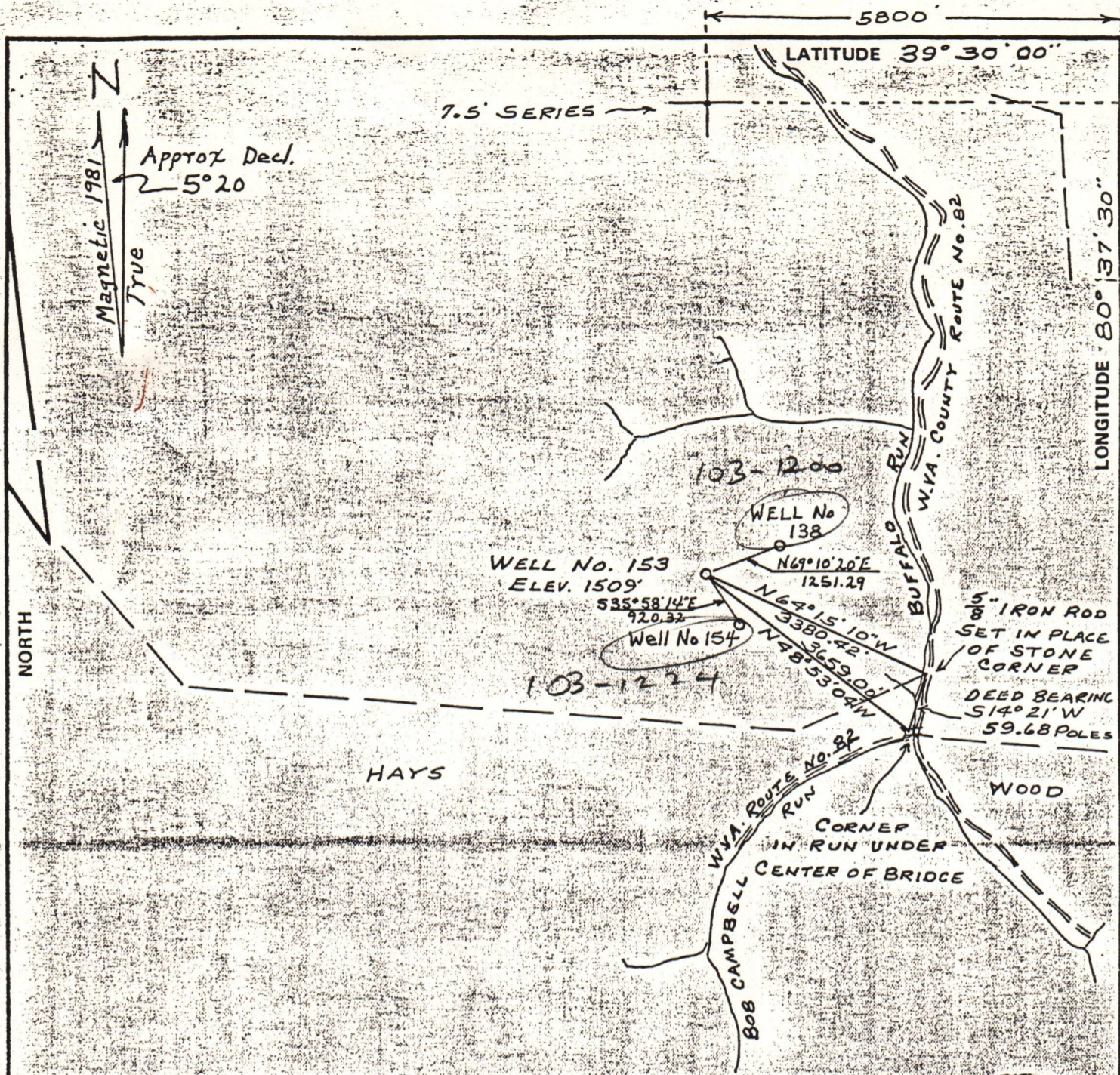
The Office of Oil and Gas further incorporates the Report of the Office and Findings of Fact and Conclusion of Law dated April 14, 1982, as if the same were fully set forth and includes hereto the Report of the Office and Findings of Fact and Conclusion of Law as a part of this Order.

Entered this 6th day of May, 1982.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

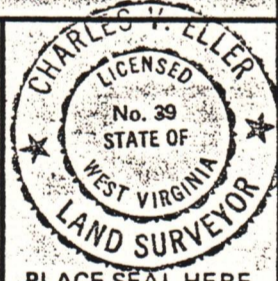
OFFICE OF OIL AND GAS
OF THE DEPARTMENT OF MINES
OF THE STATE OF WEST VIRGINIA

By: 
Thomas E. Huzzey, 09/08/2023



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) Charles V. Eller
 R.P.E. _____ L.L.S. No. 39



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



DATE FEB 28, 191981
 OPERATOR'S WELL NO. 153
 API WELL NO. _____
47 - 103 - 1223
 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 1509' WATER SHED BUFFALO RUN
 DISTRICT GRANT COUNTY WETZEL
 QUADRANGLE CENTER POINT
 SURFACE OWNER LEWIS WETZEL HUNTING GROUND ACREAGE 5228.50
 OIL & GAS ROYALTY OWNER MILLS WETZEL LANDS INC. LEASE ACREAGE 5228.50
 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 3550
 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

09/08/2023