

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's  
Well No. J. MILLS, JR. #154  
API Well No. 47 - 103 - 1224  
State County Permi

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

LOCATION: Elevation: 1438 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  
Parkersburg, WV 26101

Address P.O. Box 1327  
Parkersburg, WV 26101

OIL & GAS ROYALTY OWNER Mills Wetzel Lands, Inc.

Address 115 So. LaSalle Street  
Chicago, Illinois 60603

Acreage 5228.5

SURFACE OWNER Lewis Wetzel Hunting Ground

Address Dept. of Natural Resources  
Charleston, WV 25303

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. #3  
Alma, WV 26320

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MAR 18 1981

OIL & GAS DIVISION  
DEPT. OF MINES

COAL OPERATOR None

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name Mills Wetzel Lands, Inc.  
Address 115 So. LaSalle Street  
Chicago, Illinois 60603

Name     

Address     

COAL LESSEE WITH DECLARATION ON RECORD:

Name None

Address     

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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. Prod. Manager

PROPOSED WORK ORDER

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

BILLING CONTRACTOR (IF KNOWN) Clint Hurt & Assoc.  
Address P.O. Box 388  
Elkview, WV 25071

GEOLOGICAL TARGET FORMATION, Gordon

Estimated depth of completed well, 3460 feet, Rotary XX / Cable tools      /

Approximate water strata depths: Fresh, 150 feet; salt, 1900 feet.

Approximate coal seam depths: no mineable coal 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		3460	3460	450 sx	Depths set
Tubing									
Runners									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 ~~the permit 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

Date March 17, 19 81  
 Well No. J. MILLS JR. #154  
 API No. 47 - 103 - 1224  
 State County Permit

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 Oil 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) Samuel R. Plason (SCD Agent)

Access Road		Location	
Structure	<u>Cross Drains</u> (A)	Structure	<u>Sediment Barrier</u> (1)
Spacing	<u>100' or less</u>	Material	<u>Gravel or Brush</u>
Page Ref. Manual	<u>1:5</u>	Page Ref. Manual	<u>1:5</u>
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.

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

Legend:  Well Site  
 Access Road

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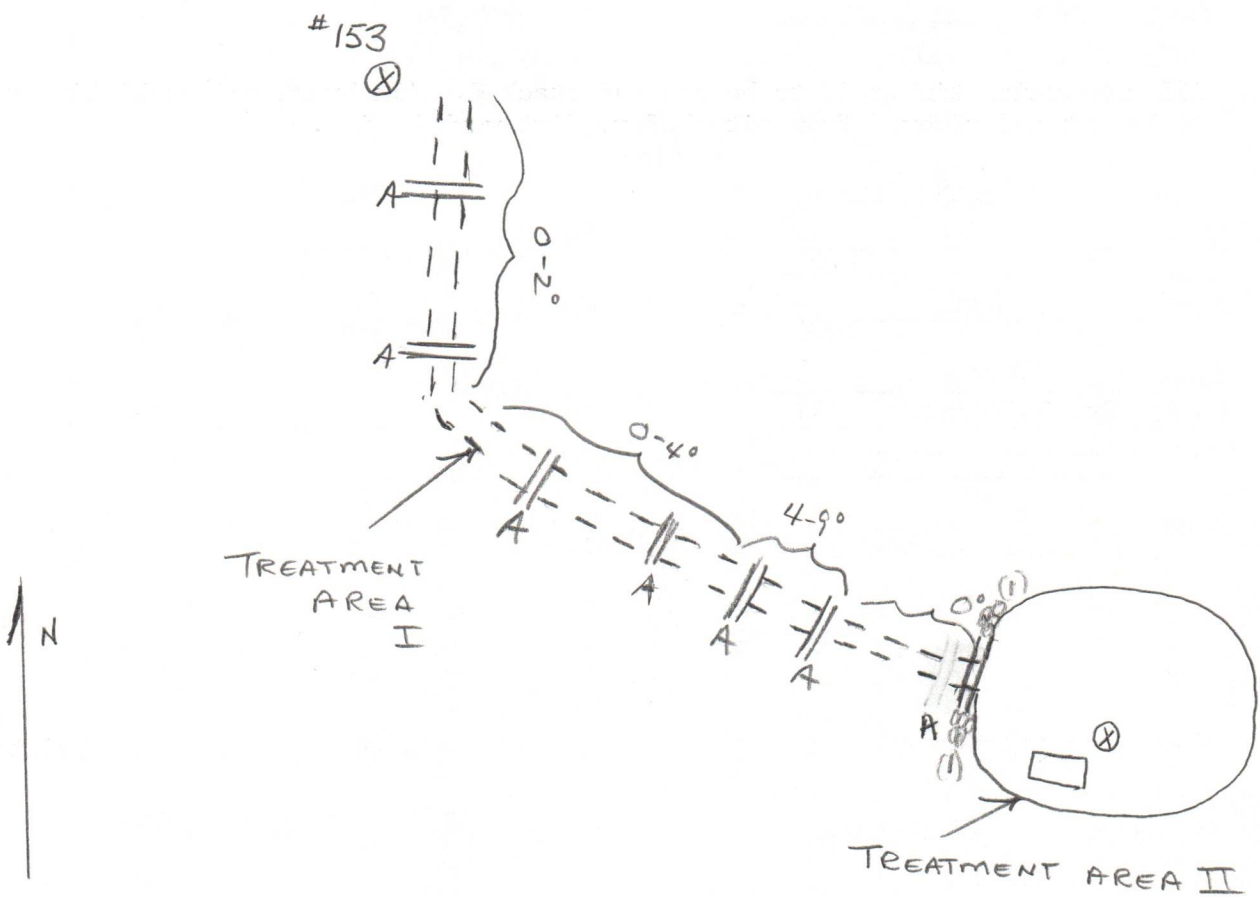
OIL & GAS DIVISION  
DEPT. OF MINES

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.

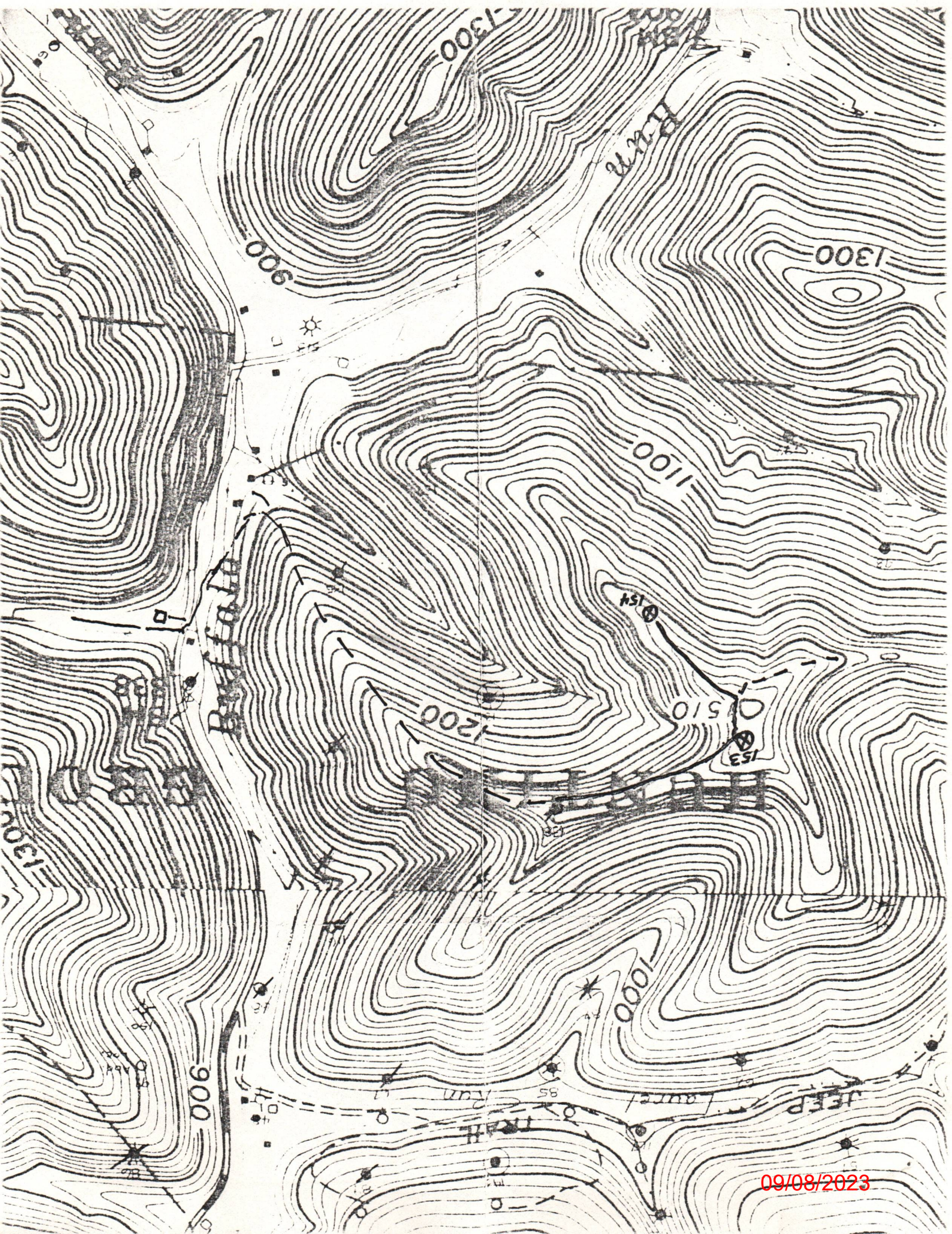


Comments: Pit will be lined with Plastic. Location grade is 00°. Access  
road grade is 0 - 9°. Soil is type C. Cross drain locations to be flagged out  
under supervision of DNR Service Forester.

Signature:  P.O. Box 1327, Parkersburg, WV 614-423-9543  
 Agent Address P 09/08/2023

Carl J. Carlson

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



09/08/2023

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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. #154

[08-78,

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

API Well No. 47 - 103 - 1224  
State County Permit

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

LOCATION: Elevation: 1438 Watershed: Buffalo Run  
District: Grant County: Wetzel Quadrangle: Center Point 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 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

\_\_\_\_\_, 19 \_\_\_\_\_

Alma, WV 26320

GEOLOGICAL TARGET FORMATION: Gordon Depth 3303-3346 feet

Depth of completed well, 3405 feet Rotary XX / Cable Tools \_\_\_\_\_

Water strata depth: Fresh, na feet; salt, 1721 feet.

Coal seam depths: na Is coal being mined in the area? no

Work was commenced 6/29/81, 19 \_\_\_\_\_, and completed 7/5/81, 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		421	421	160 SX	
Coal									Sizes
Intermediate									
Production	4 1/2	K-55	9.5	XX		3401	3401	455 SX	Deaths set
Tubing									
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3303-3346 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, 125 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

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

Perforated from 3305 to 3348 with 44 shots.

Frac'd with 790 bbl. water and 28,000# of 20/40 sand. Broke at 3000 psi, treated at 3000 psi and 22 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	1002	
Sandstone			1002	1113	
Shale & Siltstone			1113	1210	
Sandstone			1210	1232	
Shale			1232	1280	
Sandstone			1280	1395	
Shale			1395	1721	
Sandstone & Shale			1721	2258	Salt Sands
Shale			2258	2433	
Limestone			2433	2447	Little Lime
Shale			2447	2450	Pencil Cave
Limestone			2450	2520	Big Lime
Sandstone			2520	2718	Big Injun
Shale & Siltstone			2718	3287	
Sandstone			3287	3291	Gordon Stray
Shale & Siltstone			3291	3303	
Sandstone			3303	3346	Gordon
Shale			3346	3405	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."



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

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INSPECTOR'S WELL REPORT

Permit No. 103-1224

OIL & GAS DIVISION  
DEPT. OF MINES  
(KIND)

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-154</u>	13			Size of
District <u>Grant</u> County <u>Wetzel</u>	10			
Drilling commenced	8 1/4			Depth set
Drilling completed <u>Total depth 3422'</u> <u>Log - 3405'</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
Volum. _____ 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

July 7, 1981  
DATE

William J. Bloss 09/08/2023  
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

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

INSPECTOR'S WELL REPORT

Permit No. 103-1224

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Quaker State</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Parkersburg, W. Va.</u>	Size			Kind of Packer _____
Farm <u>Mills Wetzel hands</u>	16			
Well No. <u>154</u>	13			
District <u>Grant</u> County <u>Wetzel</u>	10			Size of _____
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	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			

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APR 19 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Drillers' Names \_\_\_\_\_

Remarks: Final Inspection accepted

4-16-82  
DATE

R. A. Lawther 312  
09/08/2023  
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			BRIDGE		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

RECORDING UNIT  
 STATE DEPARTMENT OF MINES  
 CHARLESTON, WEST VIRGINIA

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

DATE

**09/08/2023**

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

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 NOV 17 1983  
 OIL & GAS DIVISION  
 DEPT. OF MINES

FINAL INSPECTION REQUEST  
INSPECTOR'S COMPLIANCE REPORT

Permit No. 103-1224 County Wetzel  
 Company Quaker State Oil Ref Farm Wetzel Mills hands  
 Inspector \_\_\_\_\_ Well No. 154  
 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

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. Lowther  
 DATE: 11-15-83

09/08/2023

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NOV 17 1953

DEPT. OF MINES  
OIL & GAS DIVISION

*[Faint, illegible handwritten text]*

7-77777777

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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

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1.0 API well number: (If not available, leave blank. 14 digits.)	47 103 2 1224 ** 14				OCT 20 1981
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.)	3348 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 W.Va. 26101 State Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Grant District Field Name Wetzel County County W.Va. State				
(b) For OCS wells:	N/A Area Name		N/A Block Number		
(c) Name and identification number of this well: (35 letters and digits maximum.)	John Mills, Jr. #154				
(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: <i>Carl J. Carlson</i>				
Date Received by Joint Agency	September 23, 1981 Date Application is Completed				614-423-9543 Phone Number
Date Received by FERC					

OIL & GAS DIVISION  
DEPT. OF MINES

FT7900S06/2 2

09/08/2023



FEB 22 1982

PARTICIPANTS:

DATE: \_\_\_\_\_

BUYER-SELLER CO: \_\_\_\_\_

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 = 1224  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

CK 1500'

103-1200 = 1200'

\* 103-1223 = 920'

Gordon

*Deferred for BP calculation and well record  
 Hold for hearing*  
 JG Huzzey

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: 6-29-81 Date completed 7-5-81 Deepened \_\_\_\_\_
- (5) Production Depth: 3303-46
- (5) Production Formation: Gordon
- (5) Final Open Flow: 10 MCF
- (5) After Frac. R. P. 125# 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 3 B B L
- 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 #154

API Well No. 47 - 103 - 1229  
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 1438

ADDRESS P.O. Box 1327

Watershed Buffalo Run

Parkersburg, W.Va. 26101

Dist. Grant County Wetzel Quad Center Point

GAS PURCHASER Consolidated Gas Supply Corp.

Gas Purchase Contract No. Under

ADDRESS 445 West Main Street

Meter Chart Code Negotiation

Clarksburg, W.Va. 26301

Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: 6-29-81

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

125 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. Sanford, 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]

Audrey J. Sanford  
Notary Public

09/08/2023

John Mills #154

$$P_i = 125$$
$$X = \frac{GL}{53.34 T_R}$$

$$G = 0.75$$

$$L = 3405'$$

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

$$T_f = 70^\circ$$

103-1224

$$\begin{aligned} \text{BHP} &= P_i + P_i (e^X - 1) \\ &= 125 + 125 \left[ e^{\frac{(0.75)(3405)}{(53.34)(70+460)}} - 1 \right] \\ &= 125 + 125 \left( e^{\frac{2553.75}{28270.2}} - 1 \right) \\ &= 125 + 125 (e^{0.090} - 1) \\ &= 125 + 125 (1.095 - 1) \\ &= 125 + 11.8 \\ &= 136.8 \end{aligned}$$

09/08/2023



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- ) CAUSE NO. 29
PORATION FOR CERTIFICATION OF )
CERTAIN WELLS IN KANAWHA AND ) ORDER NO. 6-1
WETZEL COUNTIES, WEST VIRGINIA, )
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

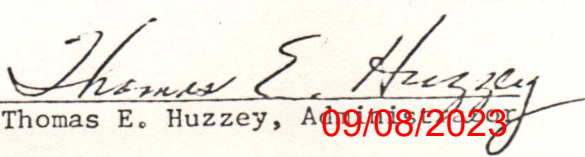
NOW, therefore, based on the aforementioned Findings of Fact and Conclusion of Law, it is found by the Administrator that Quaker State Oil Refining Corporation's applications for certification of wells Nos. 47-039-3584, 47-103-1223 and 47-103-1224 are approved.

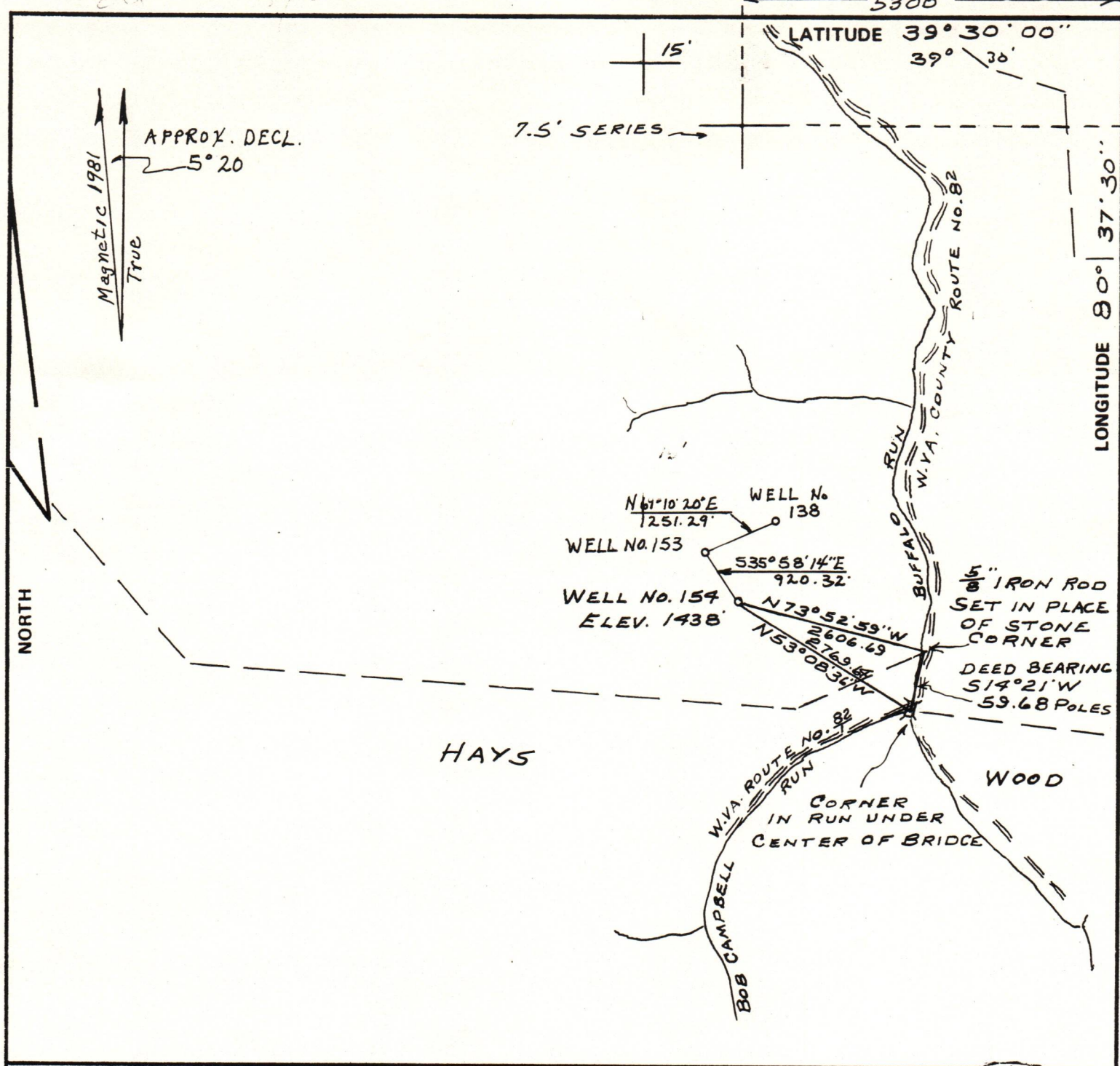
The Office of Oil and Gas further incorporates the Report of the Office and Findings of Fact and Conclusion of Law dated April 14, 1982, as if the same were fully set forth and includes hereto the Report of the Office and Findings of Fact and Conclusion of Law as a part of this Order.

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, Adm. 09/08/2023



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1 in. = 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, 1981  
 OPERATOR'S WELL NO. 154  
 API WELL NO. \_\_\_\_\_  
47 - 103 - 1224  
 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 1438' 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 5228.5 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 3460  
 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