



1) Date: March 27, 19 85
 2) Operator's Well No. Meredith-Hassig No. 21
 3) API Well No. 47 013 3900
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 810 Watershed: West Fork of Little Kanawha River
 District: Lee County: Calhoun Quadrangle: Arnoldsburg 7.5'
- 6) WELL OPERATOR Pennzoil Company 57450 7) DESIGNATED AGENT James A. Crews
 Address P.O. Box 1588 Address P.O. Box 1588
Parkersburg, W.Va. 26102 Parkersburg, W.Va.
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace 9) DRILLING CONTRACTOR:
 Address Route 1, Box 5 Address _____
Sandridge, W.Va. 25274
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Berea
 12) Estimated depth of completed well, 2410 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No

15) 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	<u>8-5/8</u>	<u>H40</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>390</u>	<u>390</u>	<u>Cement to surface</u>	<u>by rule</u>
Coal									Sizes <u>15.05</u>
Intermediate									Depths set
Production	<u>4-1/2</u>	<u>K 55</u>	<u>9.5</u>	<input checked="" type="checkbox"/>		<u>2410</u>	<u>2410</u>	<u>180 sks.</u>	Perforations
Tubing									Top Bottom
Liners									

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3900

April 23 19 85
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires April 23 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>112</u>	<u>SH</u>	<u>MU</u>	<u>MU</u>	<u>19151</u>

Margaret J. Hassig
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File
 10/06/2023

RECEIVED
 MAR 29 1985
 OIL & GAS DIVISION
 DEPT. OF MINES



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: [Blank]
 2) WELL OPERATOR: [Blank]
 3) OIL & GAS INTEL TO BE NOTIFIED: [Blank]
 4) PROPOSED WELL WORK: [Blank]
 5) GEOLOGICAL INFORMATION: [Blank]
 6) ESTIMATED DEPTH OF COMPLETED WELL: [Blank]
 7) APPROXIMATE ESTIMATE DEPTH: [Blank]
 8) APPROXIMATE COST ESTIMATE: [Blank]

WELL ID	DATE	DEPTH (FEET)	STATUS	REMARKS
3-212	4-23	390	X	Cement to surface by [unclear]
4-112	5-8	240	X	130 sks.

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____
 Reason: _____

1) Date: March 27, 19 85
 2) Operator's Well No. Meredith-Hassig No. 21
 3) API Well No. 47 013 - 3900 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OFFICE OF OIL & GAS
 NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

- (i) Name Charles R. Whytse11
 Address Arnoldsburg Rt., Box 33
Spencer, W.Va. 25276
- (ii) Name A. B. Siers
 Address Route 3, Box 725
Arnoldsburg, W.Va. 25234
- (iii) Name Robert Barton
 Address Route 3
Arnoldsburg, W.Va. 25234
Gene Whytse11
Route 3
Arnoldsburg, W.Va. 25234

5(i) COAL OPERATOR No Commercial Coal
 Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
 Name _____
 Address _____

Name _____
 Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____

P 153 643 561

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	<u>Charles R. Whytse11</u>
Street and No.	<u>Arnoldsburg Rt., Box 33</u>
P.O., State and ZIP Code	<u>Spencer, W.Va. 25276</u>
Postage	\$ _____
Certified Fee	_____
Special Delivery Fee	_____
Restricted Delivery Fee	_____
Return Receipt Showing to whom and Date Delivered	X
Return receipt showing to whom, Date, and Address of Delivery	_____
TOTAL Postage and Fees	\$ <u>1.00</u>
Postmark or Date	<u>MAR 27 1985</u>

Documents:
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PLICATION
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OIL & GAS DIVISION
 DEPT. OF MINES

MAR 29 1985

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. Lease on File: See Permit No. 47-013-3735
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No X

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

Curtis A. Lucas

this 27 day of March, 19 85.

My commission expires Oct. 24, 19 89.

Jake M. Board
 Notary Public, Wood County,
 State of W.Va.

WELL

OPERATOR Pennzoil Company

By Curtis A. Lucas
 Its Supervisor, Surveying & Mapping

Address P.O. Box 1588

Parkersburg, West Virginia 26102

Telephone 422-6565

10/06/2023

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
-----------------------	-----------------------	---------	-----------

IV-9
(Rev 8-81)

RECEIVED

MAR 29 1985



DATE 3/25/85

WELL NO. MEREDITH/HASSIG #21

API NO. 47-013-3900

State of West Virginia

Department of Mines

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME PENNZOIL COMPANY

DESIGNATED AGENT JAMES A. CREWS

Address P.O. Box 1588, Parkersburg, WV

Address Box 1588, Parkersburg, W.V.

Telephone 422-6565

Telephone 422-6565

LANDOWNER ROBERT WHYTSELL

SOIL CONS. DISTRICT LITTLEKANAWHA

Revegetation to be carried out by CONTRACTOR

(Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 3/26/85

(Date)

field review

Randall L. Allison
(SCD Agent)

ACCESS ROAD

LOCATION

Structure ROADSIDE DITCH (A)

Structure ANCHORING TRENCH (1)

Spacing SEE SKETCH

Material EARTHEN

Page Ref. Manual 2-12

Page Ref. Manual —

Structure CULVERT 15" ID (B)

Structure — (2)

Spacing SEE SKETCH

Material —

Page Ref. Manual 2-7

Page Ref. Manual —

Structure CULVERT 12" ID (C)

Structure — (3)

Spacing SEE SKETCH

Material —

Page Ref. Manual 2-7

Page Ref. Manual —

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

REVEGETATION

Treatment Area I

Treatment Area II

Lime — Tons/acre
or correct to pH 6.5

Lime — Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Mulch STRAW 2 Tons/acre

Mulch STRAW 2 Tons/acre

Seed* KY 31 FESCUE 30 lbs/acre

Seed* KY 31 FESCUE 30 lbs/acre

PERENNIAL RYEGRASS 20 lbs/acre

PERENNIAL RYEGRASS 20 lbs/acre

RED CLOVER 5 lbs/acre

RED CLOVER 10/56/2023 acre

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

PLAN PREPARED BY Curtis A. Lucas

ADDRESS P.O. Box 1588

Parkersburg, W.V.

PHONE NO. 422-6565

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE ARNOLDSBURG 7 1/2

LEGEND

Well Site ⊕

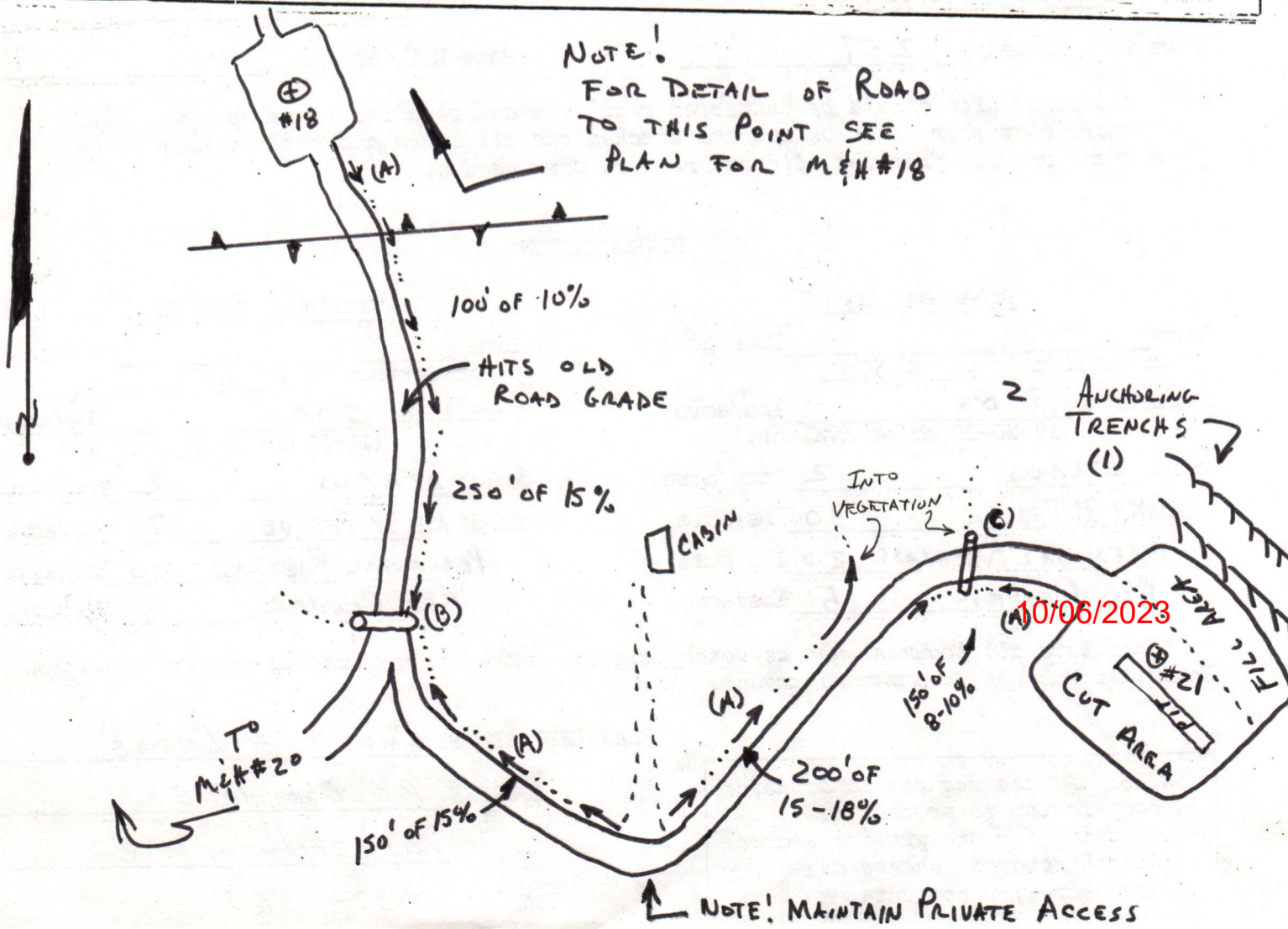
Access Road ———



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

LEGEND

Property boundary ———▲———	Diversion ———/———
Road = = = = =	Spring ⊕→
Existing fence —X—X—	Wet spot ⊕
Planned fence —/—/—	Building ■
Stream ———~———	Drain pipe —○→○→
Open ditch ———>———	Waterway ←= = = =





WR-35 RECEIVED NOV 5 - 1985

DIVISION OF OIL & GAS DEPT. OF ENERGY

State of West Virginia DEPARTMENT OF ENERGY Oil and Gas Division

Date October 31, 1985 Operator's Well No. 21 Farm Meredith-Hassig API No. 47 - 013 - 3900

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

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

LOCATION: Elevation: 810 Watershed West Fork of Little Kanawha River District: Lee County Calhoun Quadrangle Arnoldsburg 7.5'

COMPANY Pennzoil Company ADDRESS P.O. Box 1588, Parkersburg, W.Va. 26102 DESIGNATED AGENT James A. Crews ADDRESS P.O. Box 1588, Parkersburg, WV 26102 SURFACE OWNER Charles R. Whytsell ADDRESS Arnoldsburg Rt., Box 33, Spencer, WV MINERAL RIGHTS OWNER Byford H. Stine ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace ADDRESS Rt. 1, Box 5, Sandridge, WV PERMIT ISSUED 4-23-85 DRILLING COMMENCED 7-11-85 DRILLING COMPLETED 7-16-85 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 and Liners used.

GEOLOGICAL TARGET FORMATION Berea Depth 2360 feet Depth of completed well 2463 feet Rotary X / Cable Tools Water strata depth: Fresh 370 feet; Salt 1616 feet Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Berea Pay zone depth 2370-2384 feet Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow 4 Mcf/d Oil: Final open flow 8 Bbl/d Time of open flow between initial and final tests hours Static rock pressure 80 psig (surface measurement) after 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 10/06/2023 Bbl/d Final open flow Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

CAL 3900

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

Fractured: 8-26-85

Berea w/250 gls. 12.3 mud acid, 197 BGW, 2000# 20/40 sd

Perforated: 2370-2371/2H; 2374-2376/3H; 2380-2384/10H

RECEIVED
 NOV 8 1985
 DIVISION OF OIL & GAS
 DEPT. OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	51	
Silt			51	129	
Sand			129	150	
Silt, Sand			150	370	
Shale			370	496	
Silt, Sand, Shale			496	1616	
Salt Sand			1616	1702	
Shale			1702	1805	
Little Lime			1805	1826	
Pencil Cave			1826	1842	
Big Lime			1842	1965	
Big Injun			1965	1990	
Pocono Shale			1990	2347	
Coffee Shale			2347	2360	
Berea			2360	2386	
Devonian Shale			2386	2463	
Total Depth				2463	

(Attach separate sheets as necessary)

Pennzoil Company
 Well Operator
 By: Curtis A. Lucas
 Date: 11-1-85 10/06/2023

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."

THE WELL COMPLETION REPORT FOR 13-3900 WAS
RECEIVED ON 11/5/85 ~~AND RETURNED ON~~

REASON Requested O-G ratio report 11/6

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

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

JAN 14 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3900 (4-23-85)

Oil or Gas Well _____
(KIND)

Company <u>Pennycel</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Mendick / Hassig</u>	16			Kind of Packer _____
Well No. <u>21</u>	13			Size of _____
District <u>Lee</u> County <u>Cal</u>	10			Depth set _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/4			Perf. top _____
Date shot _____ Depth of shot _____	5 3/16			Perf. bottom _____
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			
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 _____

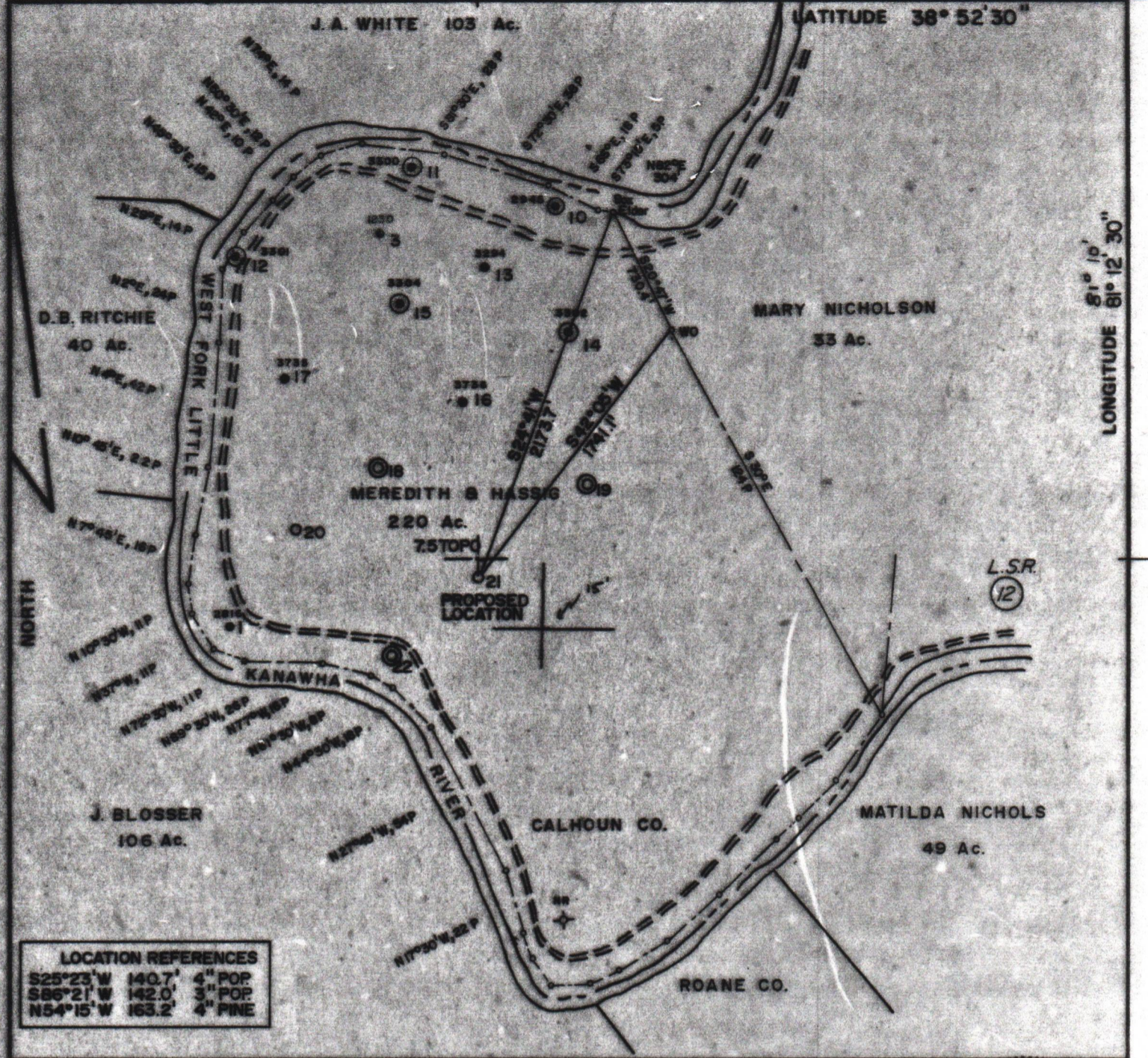
Remarks: Release

1-9-86
DATE

W. W. Mc 10/06/2023
DISTRICT WELL INSPECTOR

MN 4-16-85

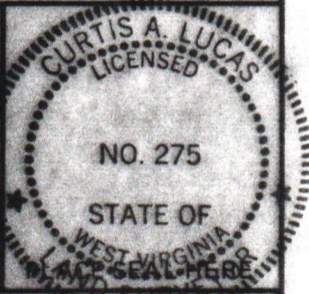
9100' 38° 55'



LOCATION REFERENCES
 S25°23'W 140.7' 4" POP
 S86°21'W 142.0' 3" POP
 N54°15'W 163.2' 4" PINE

FILE NO. 1674
 MAP 42 90s S40 W36
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION MEREDITH & HASSIG NO. 1, ELEV. 687.02

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) *Curtis A. Lucas*
 CURTIS A. LUCAS LLS 275



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



DATE March 27
 FARM Meredith & Hassig No. 21
 API WELL NO. 47-013-3900
 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 810' WATER SHED West Fork of Little Kanawha River
 DISTRICT Lee COUNTY Calhoun
 QUADRANGLE Arnoldsburg 7.5
 SURFACE OWNER Charles R. Whyteall ACREAGE 17.10
 OIL & GAS ROYALTY OWNER Byford H. Stine LEASE ACREAGE 220'
 LEASE NO. 80680-50
 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 Berea ESTIMATED DEPTH 2410'
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P. O. BOX 1588 ADDRESS P. O. BOX 1588
PARKERSBURG, W. V. 26101 PARKERSBURG, W. V. 26101

10/06/2023

7850' LONGITUDE 81° 12' 30" 3900