



1) Date: May 21, 19 84  
 2) Operator's Well No. McCartney #1A  
 3) API Well No. 47 - 021 - 4195  
 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: 785 Watershed: Rockcamp Run LK6LB  
 District: DeKalb County: Gilmer Quadrangle: Tanner 7.5  
 6) WELL OPERATOR Waco Oil & Gas Co., Inc. 7) DESIGNATED AGENT Kenneth Greenlief  
 Address 1297 N. Lewis St. Address 1297 N. Lewis St.  
Glenville, WV 26351 Glenville, WV 26351  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Deo Mace Name I. L. Morris Well Service, Inc.  
 Address Rt. 1, Box 5 Address 1297 N. Lewis St.  
Sandridge, WV 25274 Glenville, WV 26351  
 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, Marcellus  
 12) Estimated depth of completed well, 5900 feet  
 13) Approximate trata depths: Fresh, 100 feet; salt, N/A feet.  
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes  No

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 JUN 6 - 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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									
Coal									Sizes
Intermediate	8 5/8	ERW	20	X		500	500	100 sacks -	CTS - By Rule 15.05
Production	4 1/2	J-55	10.5	X			5900	600 sacks	Depths set By Rule 15.01
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-021-4195 Date June 18, 19 84

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 June 18, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond <b>BLANKET</b>	Agent: <u>LO</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>1078</u>
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T. L. Morris  
 Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

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

1) WELL LOCATION: District: Putnam; County: Putnam; Township: Putnam; Section: Putnam; Range: Putnam; Elevation: Putnam; B (If "Gas" Production): Putnam; Underground storage: Putnam; Well No.: Putnam; State: Putnam; County: Putnam; Designated Agent: Putnam; Drilling Contractor: Putnam; Well Operator: Putnam; On a Gas Inspector to be notified: Putnam; Proposed Well Work: Putnam; Geological Target Formation: Putnam; Estimated depth of completed well: Putnam; Approximate true depth: Putnam; Approximate coal seam depth: Putnam; Casing and Turb Program: Putnam

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DEPT. OF MINES OIL & GAS DIVISION

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 Follow-up inspection(s)

Well work started

Completion of the drilling

Well Record received

Reclamation completed

OTHER INSPECTIONS

Reason: [Signature]

Reason: [Signature]

Blanket	Agents	Plan	Casing	Fee
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09/29/2023

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.

1) Date: May 21, 19 84  
2) Operator's  
Well No. McCartney #1A  
3) API Well No. 47 - 021 - 4785  
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 Louella Williams  
Address Tanner, WV 26179  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR None  
Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name None  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

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.
- 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

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

Kenneth Greenlief,  
this 21 day of May, 1984.  
My commission expires Sept. 16, 1990.

M. Lynn Chapman  
Notary Public, Gilmer County,  
State of West Virginia

WELL

OPERATOR Waco Oil and Gas Company, Inc.

By Kenneth Greenlief  
Its Agent  
Address 1297 N. Lewis St.  
Glenville, WV 26351  
Telephone (304) 462-5347

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JUN 6 - 1984

OIL & GAS DIVISION  
DEPT. OF MINES

09/29/2023

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.

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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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Olena McCartney, etal	Waco Oil & Gas Co., Inc.	1/8	339-269



1) Date: May 21, 19 84  
 2) Operator's Well No. McCartney #1A  
 3) API Well No. 47 - 021 -  
 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 X /  
 B (If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 785 Watershed: Rockcamp Run  
 District: DeKalb County: Gilmer Quadrangle: Tanner 7.5
- 6) WELL OPERATOR Waco Oil & Gas Co., Inc. 7) DESIGNATED AGENT Kenneth Greenleaf  
 Address 1297 N. Lewis St. Address 1297 N. Lewis St.  
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Deo Mace Name I. L. Morris Well Service, Inc.  
 Address Rt. 1, Box 5 Address 1297 N. Lewis St.  
Sandridge, WV 25274 Glenville, WV
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Marcellus  
 12) Estimated depth of completed well, 5900 feet  
 13) Approximate trata depths: Fresh, 100 feet; salt, N/A feet.  
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes \_\_\_\_\_ / No X

**RECEIVED**  
 JUN 6 - 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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									
Coal									Sizes
Intermediate	<u>3 5/8</u>	<u>ERW</u>	<u>20</u>	<u>X</u>		<u>500</u>	<u>500</u>	<u>100 sacks -</u>	<u>CTS - By Rule 15.05</u>
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>			<u>5900</u>	<u>600 sacks</u>	<u>By Rule 15.01</u>
Tubing									Perforations:
Liners									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

NAME: \_\_\_\_\_  
 By \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_

(For execution by natural persons)

Lowella Williams Date: 5/22/84  
 (Signature)  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 (Signature)



INSTRUCTIONS TO SURFACE OWNERS

AND

EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- (1) The proposed well work will constitute a hazard to the safety of persons; or
(2) The plan for soil erosion and sediment control is not adequate or effective; or
(3) Damage would occur to publicly owned lands or resources; or
(4) The proposed well work fails to protect fresh water sources or supplies.

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

09/29/2023



IV-9  
(Rev 8-81)

DATE May 4, 1984

WELL NO. McCartney 1A\*

API NO. 47 - 021 - 4125

Rec'd. (WFSCD)  
MAY 9 1984

State of West Virginia  
Department of Mines  
Oil and Gas Division

\*NOTE: This is a revised reclamation plan for McCartney 1A well.

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Waco Oil & Gas Co., Inc.

DESIGNATED AGENT Kenny Greenleaf

Address Glenville, WV 26351

Address Glenville, WV 26351

Telephone (304) 462-5347

Telephone (304) 462-5347

LANDOWNER Lowella Williams

SOIL CONS. DISTRICT West Fork

Revegetation to be carried out by Main Line Construction Co. (Agent)

This plan has been reviewed by West Fork SCD. All corrections and additions become a part of this plan: 5/15/84 (Date)

THIS REVIEW IS MADE FOR SITE AS SHOWN. A CHANGE OF ELEVATION OF PLUS OR MINUS 10 FT. OR SLOPE OF PLUS OR MINUS 3 PERCENT MAKES THIS PLAN NOT ACCEPTABLE TO WFSCD.

Kenneth E Knight  
(SCD Agent)

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JUN 6 - 1984

ACCESS ROAD

LOCATION  
OIL & GAS DIVISION  
DEPT. OF MINES

Structure Drainage Ditch (A)

Structure Diversion Ditch (1)

(Inside road cuts)

Spacing As shown on sketch.

Material Earthen

Page Ref. Manual 2-12

Page Ref. Manual 2-12

Structure Cross Drains (B)

Structure Sediment Barrier (Rip Rap) (2)

15-18% - 51' apart, 5-10% - 80' apart,

Spacing As required per grade 20% - 45' apart

Material Logs + Stone

Page Ref. Manual 2-1

Page Ref. Manual 2-16

Structure Road Culverts (18" min. I.D.) (C)

Structure Filter Strip (3)

As shown on plan (according to oil & gas manual)

Spacing at natural drains

Material Undisturbed Natural Vegetation

Page Ref. Manual 2-7

Page Ref. Manual 2-16

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.

Structure Sediment Barrier (D)

Material hay or straw bales

Page Ref. Manual 2-16

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 H. Seed - paper 3/4 Tons/acre

Mulch H. Seed - paper - 3/4 Tons/acre

Seed\* Ky. 31 Fescue 35 lbs/acre

Seed\* Ky. 31 Fescue 35 lbs/acre

Ladino Clover 5 lbs/acre

Ladino Clover - 5 lbs/acre

lbs/acre

lbs/acre

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

\* According to pH test.

PLAN PREPARED BY S. E. Hall

ADDRESS Waco Oil & Gas Co., Inc.

Glenville, WV 26351


PHONE NO. (304) 462-5347


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

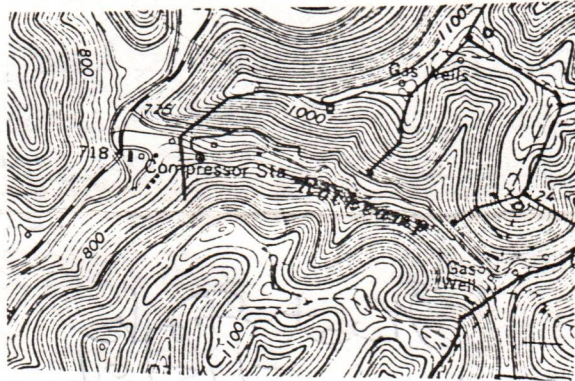
09/29/2023

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Tanner 7.5'

**LEGEND**

Well Site 


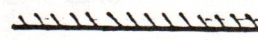








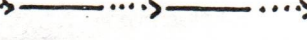
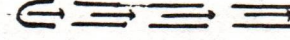
Access Road 



**WELL SITE PLAN**

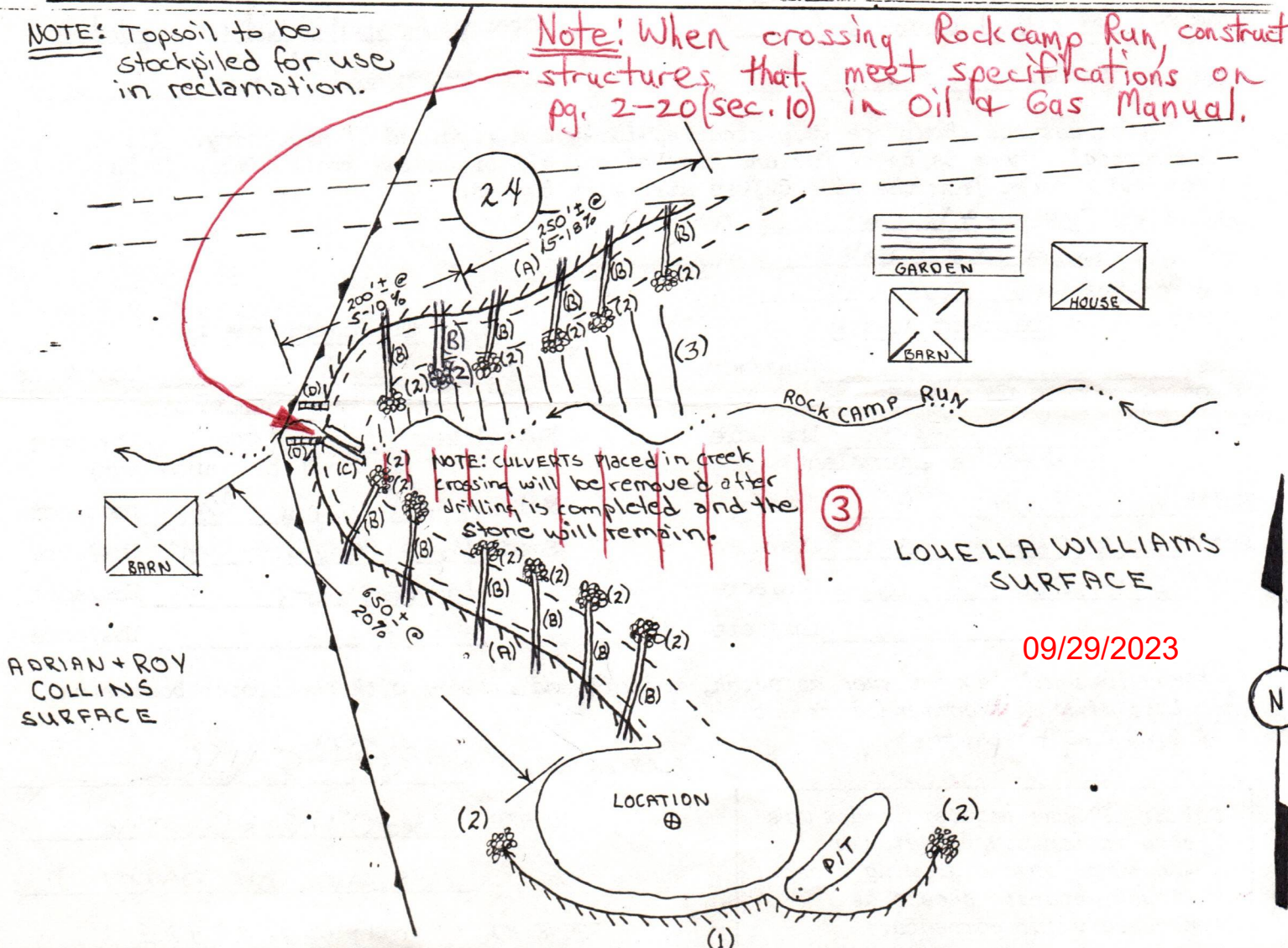
Sketch to include well location, existing access road, roads to be constructed, wellsite drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

**LEGEND**

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 

NOTE: Topsoil to be stockpiled for use in reclamation.

Note: When crossing Rockcamp Run, construct structures that meet specifications on pg. 2-20 (sec. 10) in Oil & Gas Manual.





IV-35  
(Rev 8-81)

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State of West Virginia  
OIL & GAS DIVISION Department of Mines  
DEPT. OF MINES Oil and Gas Division

Date 2-12-85  
Operator's Well No. 1A  
Farm McCartney  
API No. 47 - 021 - 4195

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

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

LOCATION: Elevation: 785 Watershed Rockcamp Run  
District: Dekalb County Gilmer Quadrangle Tanner 7.5

COMPANY Waco Oil and Gas Co., Inc.

ADDRESS Glenville, WV

DESIGNATED AGENT Kenneth Greenlieb

ADDRESS Glenville, WV

SURFACE OWNER Louella Williams

ADDRESS Tanner, WV

MINERAL RIGHTS OWNER Mrs. J.D. McCartney et al

ADDRESS Orville, Ohio 44667

OIL AND GAS INSPECTOR FOR THIS WORK   

Deo Mace ADDRESS Sandridge, WV

PERMIT ISSUED 7-18-84

DRILLING COMMENCED 12-04-84

DRILLING COMPLETED 12-11-84

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	762	762	to surface
7'			
5 1/2			
4 1/2		5950	700 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5600 feet

Depth of completed well 5970 feet Rotary X / Cable Tools   

Water strata depth: Fresh 57 feet; Salt None feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Silt and Shale Pay zone depth 5890-5940 feet

Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d

Final open flow 223 Mcf/d Final open flow None Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1100 psig (surface measurement) after 48 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 Oil: Final open flow    Bbl/d

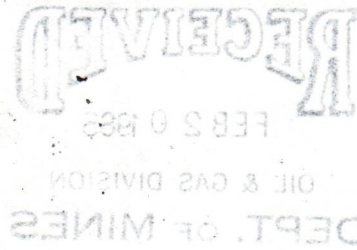
Time of open flow between initial and final tests    hours

Static rock pressure    psig (surface measurement) after    hours shut in

717 - 4195

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

5890 to 5940- 500 Gal. 15% Hcl., (10,000 lb. 80-100) (30,000 lb. 20-40)



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	3	
Sand, Shale, Blue Clay			3	74	
Sand, Shale, Red Rock			74	815	1/2" stream fresh water @ 57'
Sand, Shale			815	1504	
Little Lime			1504	1606	
Shale			1606	1636	
Big Lime			1636	1740	
Big Injun			1740	1830	
Sand, Shale			1830	3060	
Speechly Section			3060	3570	
Balltown Section			3570	4150	
Riley Section			4150	4440	
Benson			4440	4450	
Shale			4450	4720	
Alexander			4720	4760	
Shale			4760	4870	
Upper Elk			4870	4880	
Shale			4880	5100	
Lower Elk			5100	5140	
Sand Shale			5140	5970-TD	

(Attach separate sheets as necessary)

Waco Oil and Gas Co., Inc.

Well Operator

By: Kenneth Greenlief *Kenneth Greenlief*

Date: 2-12-85

09/29/2023

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."

26-Feb-85

**RECEIVED**  
DEPARTMENT OF ENERGY  
OIL AND GAS

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

JAN 8 1986

Company: WACO OIL & GAS  
Farm: WILLIAMS, LOUELLA

Well: #1A

Permit No. 47-21-4195  
County: GILMER

(6-18-84)

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	.....	.....
25.04	Prepped before drilling to prevent waste	.....	.....
25.03	High pressure drilling	.....	.....
16.01	Required permits at wellsite	.....	.....
15.03	Adequate Fresh Water Casings	.....	.....
15.02	Adequate Coal Casings	.....	.....
15.01	Adequate Production Casings	.....	.....
15.04	Adequate Cement Strength	.....	.....
15.05	Cement Type	.....	.....
23.02	Maintained Access Roads	.....	.....
25.01	Necessary Equipment to Prevent Waste	.....	.....
23.04	Reclaimed Drilling Pits	.....	.....
23.05	No Surface or Underground Pollution	.....	.....
23.07	Requirements for Production & Gathering Pipelines	.....	.....
16.01	Well Records on Site	.....	.....
16.02	Well Records Filed	.....	.....
7.05	Identification Markings	.....	.....

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED *Drew Mace*

DATE 1-14-86

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

*T. L. ...*

Administrator

January 16, 1986

Date

RECEIVED  
DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25302  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

Permit No. 47-21-4192  
County: WILMER

Well: 41A

Company: WACO OIL & GAS  
Form: WILLIAMS, LOUELLA

Rule	Description	In Compliance
		Yes No
7.02	Identification Markings	
18.02	Well Records Filed	
18.01	Well Records on Site	
21.02	Requirements for Production & Gathering Pipelines	
23.02	No Surface or Underground Pollution	
23.04	Retained Drilling Pits	
23.01	Necessary Equipment to Prevent Waste	
23.02	Maintained Access Roads	
12.02	Cement Type	
12.04	Adequate Cement Strength	
12.01	Adequate Production Casings	
12.02	Adequate Coal Casings	
12.03	Adequate Fresh Water Casings	
18.01	Required permits of wellsite	
22.03	High pressure drilling	
22.04	Prepared before drilling to prevent waste	
23.04	Notification prior to starting work	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED \_\_\_\_\_  
DATE \_\_\_\_\_

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

\_\_\_\_\_  
Administrator

\_\_\_\_\_  
Date

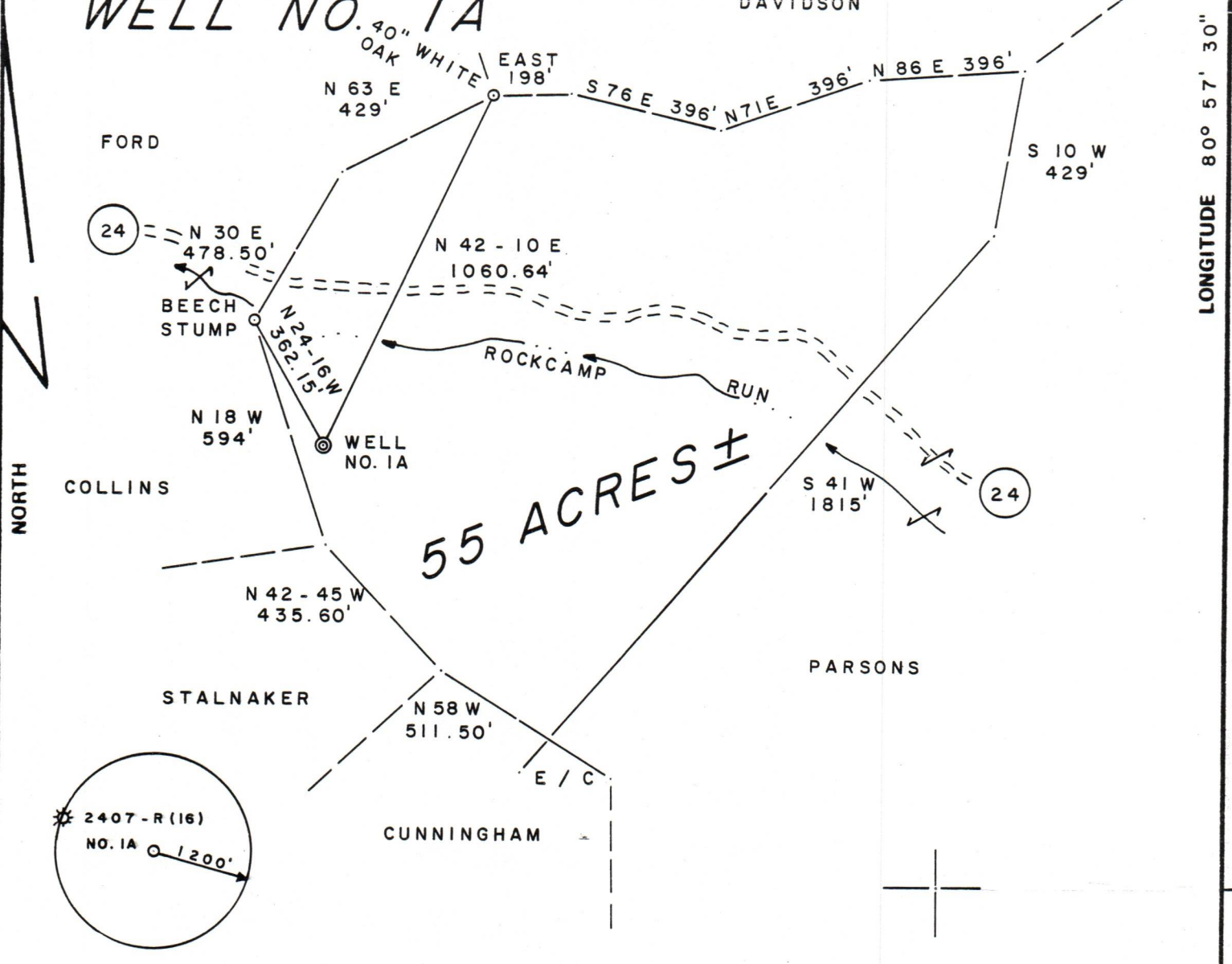
3,650'

LATITUDE 39° 00' 00"

# MCCARTNEY LEASE

## WELL NO. 1A

DAVIDSON



LONGITUDE 80° 57' 30"

NORTH

FILE NO. 12 - 69  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 / 200  
 PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS  
ELEV. 718'

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) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677

GREGORY A. SMITH  
 LICENSED  
 No. 677  
 STATE OF WEST VIRGINIA  
 PLACE SEAL HERE

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



DATE MARCH 27, 19 84  
 OPERATOR'S WELL NO. 1A  
 API WELL NO. 47-021-4195  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 785' WATER SHED ROCKCAMP RUN  
 DISTRICT DEKALB COUNTY GILMER  
 QUADRANGLE TANNER 7.5'  
 SURFACE OWNER LOUELLA WILLIAMS ACREAGE 55  
 OIL & GAS ROYALTY OWNER MRS. J. D. MCCARTNEY, et. al. LEASE ACREAGE 55 09/29/2023  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X 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 ELK ESTIMATED DEPTH 5600'  
 WELL OPERATOR WACO OIL & GAS CO., INC DESIGNATED AGENT KENNY GREENLIEF  
 ADDRESS P. O. BOX 4 ADDRESS P. O. BOX 4  
GLENVILLE, WV 26351 GLENVILLE, WV 26351