



IV-9
(Rev 8-81)

DATE July 11, 1983

WELL NO. 69-1

State of West Virginia API NO. 47 - 13 - 3619

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Key Oil Company
Address P.O. Box 709, Spencer, W.Va.
Telephone 304-927-5490

DESIGNATED AGENT Richard Rexroad
Address P.O. Box 709, Spencer, W.Va.
Telephone 304-927-5490

LANDOWNER West Virginia Pulp & Paper
Revegetation to be carried out by _____

SOIL CONS. DISTRICT Little Kanawha
Key Oil Company (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 7-11-83

(Date)
Jarrett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert</u> (A) Spacing <u>12 inch</u> Page Ref. Manual <u>2-7</u>	Structure <u>Diversion Ditch</u> (1) Material _____ Page Ref. Manual <u>2-12</u>
Structure _____ (B) Spacing _____ Page Ref. Manual _____	Structure RECEIVED (2) Material _____ Page Ref. Manual <u>JUL 15 1983</u>
Structure _____ (C) Spacing _____ Page Ref. Manual _____	Structure <u>OIL & GAS DIVISION</u> (3) Material <u>DEPT. OF MINES</u> 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 & II

Lime _____ Tons/acre
or correct to pH 6.5

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

Mulch Hay or Straw 2.5 Tons/acre

Seed* Ky. 31 Tall Fescue 40 lbs/acre
Redtop 5 lbs/acre
_____ lbs/acre

Treatment Area II

Lime _____ Tons/acre
or correct to pH _____

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

Mulch _____ Tons/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.

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

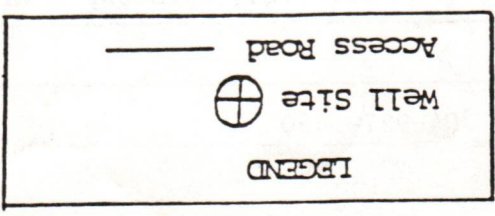
PLAN PREPARED BY Charles Maxwell 10/20/2023

ADDRESS P.O. Box 709, Spencer, W.Va.

PHONE NO. 304-927-5490

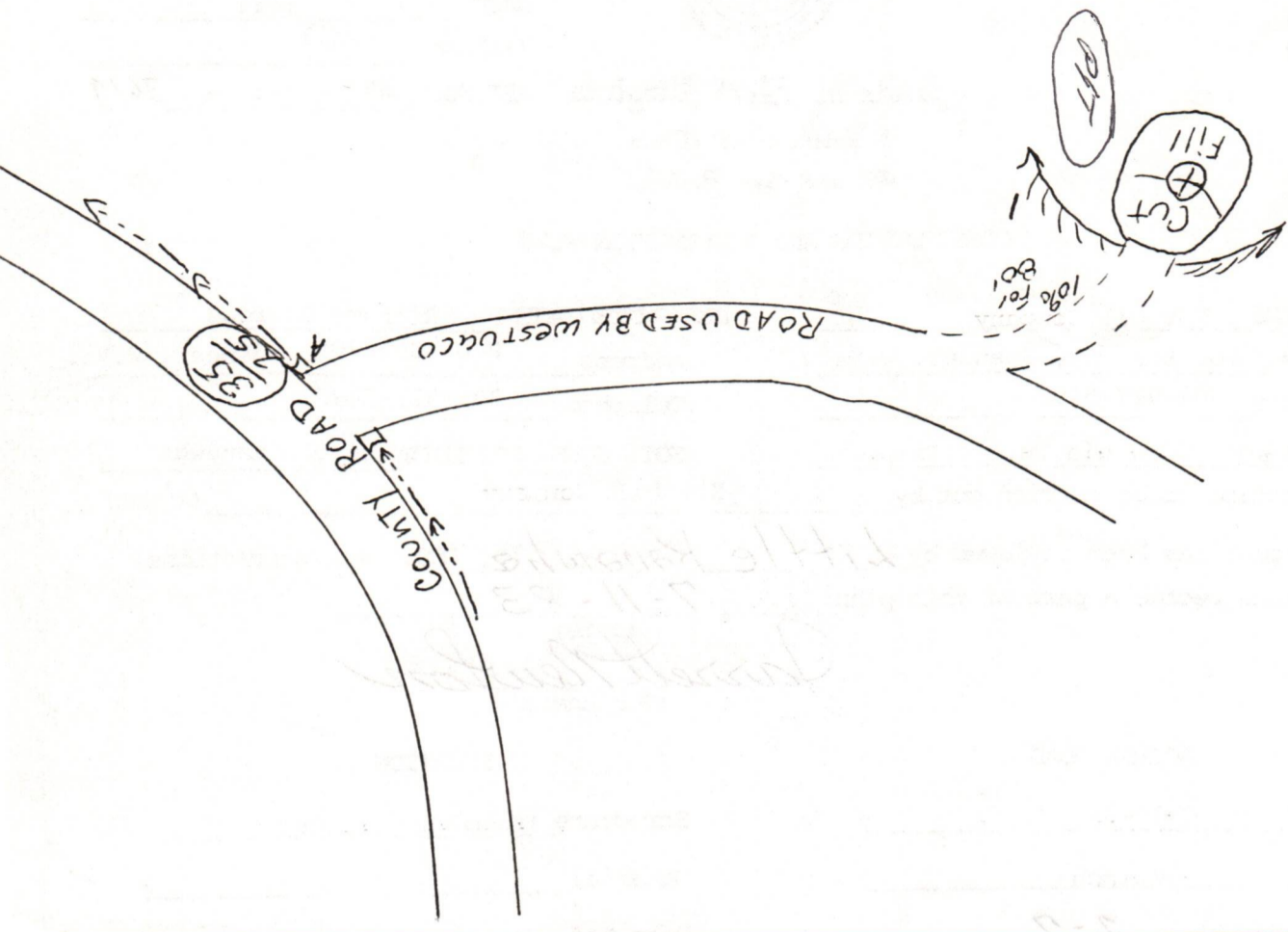
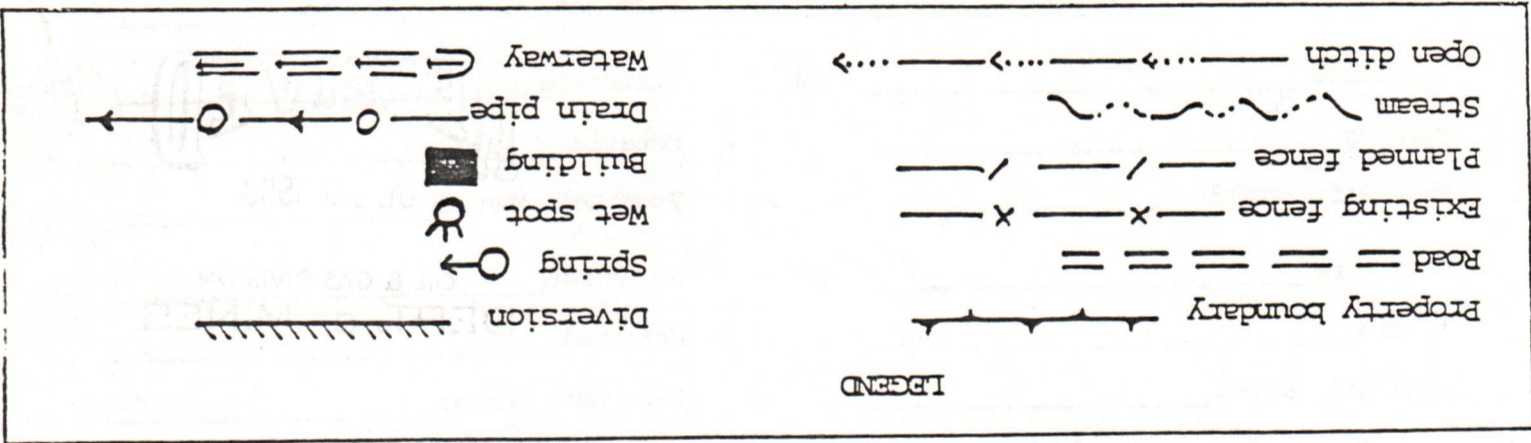
ATTACH OR PHOTOGRAPHY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE

10/20/2023



WELL SITE PLAN

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

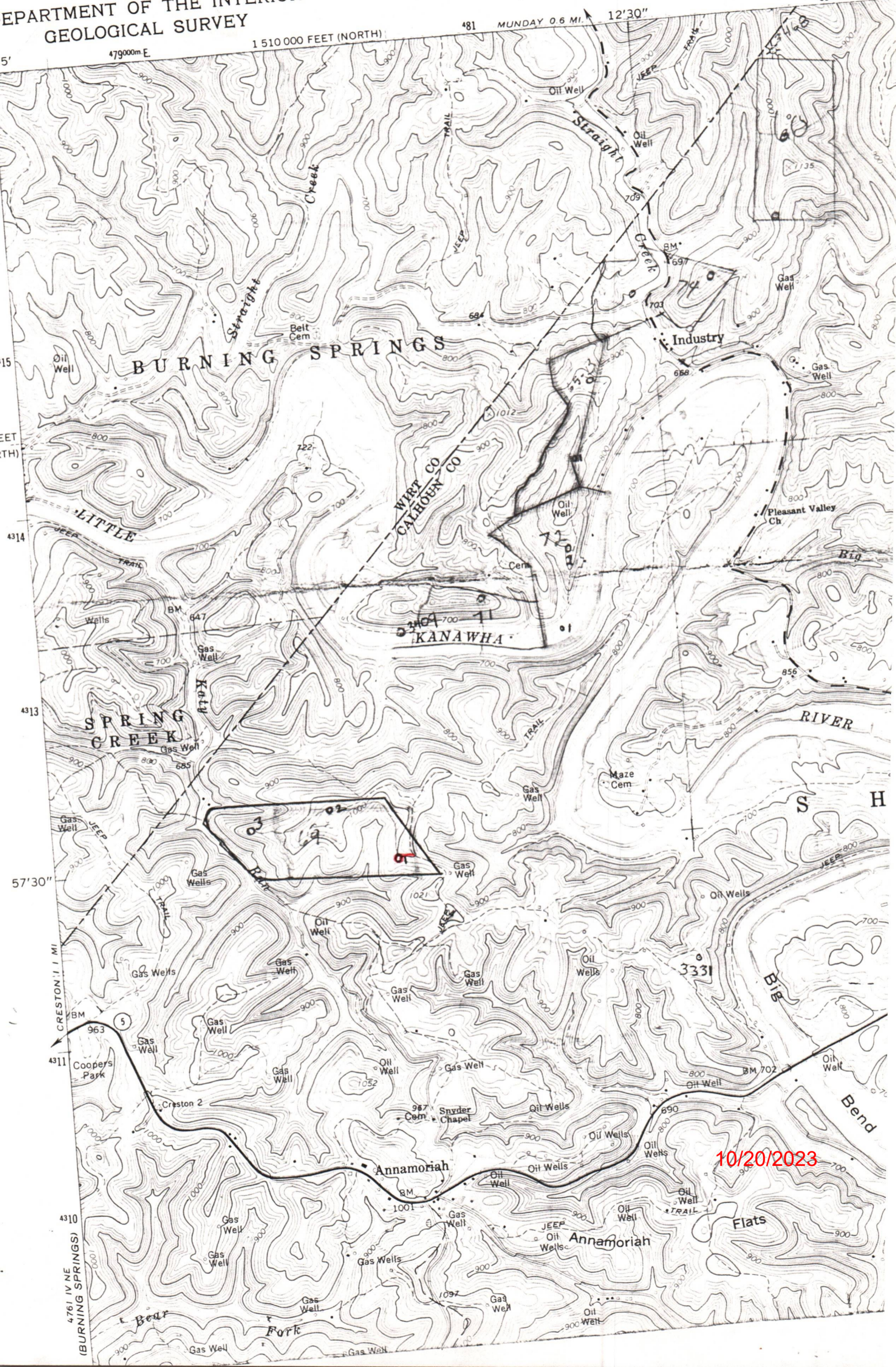


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Annamoriah
7.5

STATE OF WEST VIRGINIA
AND OTHER

483



10/20/2023

1) Date: July 11, 19 83
2) Operator's Well No. 69-1
3) API Well No. 47 13 3619
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 W.Va. Pulp & Paper
Address #2 Ferguson Drive,
Parkersburg, W.Va. 26101
(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

Richard A. Rexroad
this 11 day of July, 1983.
My commission expires Nov. 9, 1992.

Charles Lewis Maxwell
Notary Public, Roane County,
State of West Virginia

WELL

OPERATOR Key Oil Company

By [Signature]
Its Designated Agent
Address P.O. Box 709
Spencer, W.Va. 25276
Telephone 304-927-5490

RECEIVED

JUL 15 1983

OIL & GAS DIVISION
DEPT. OF MINES

10/20/2023

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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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>
Harley M. Collins	M & J JOINT VENTURE	50%	080-268
Geraldine C. Hopwood	M & J JOINT VENTURE	50%	080-268

This was assigned to Key Oil, Inc., 11th day of July, 1983.

This was assigned to Key Oil Company, 14th day of July, 1983.

1) Date: July 11, 1983
 2) Operator's Well No. 69-1
 3) API Well No. 47 13 3619
 State County Perm

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OFFICE OF OIL & GAS

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A. Oil / Gas /
 B. (If "Gas", Production / Underground storage / Deep / Shallow /
- 5) LOCATION: Elevation: 988' Watershed Katys Run
 District: Sheridan County: Calhoun Quadrangle: Annamoriah 7.5'
- 6) WELL OPERATOR Key Oil Company
 Address P.O. Box 709
Spencer, W.Va. 25276
- 7) DESIGNATED AGENT Richard A. Rexroad
 Address P.O. Box 709
Spencer, W.Va. 25276
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Deo Mace
 Address Rt 1 Box 5
Sandridge, W.Va. 25374 (655-7398)
- 9) DRILLING CONTRACTOR:
 Name Unknown
 Address _____
- 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 Shale
- 12) Estimated depth of completed well (or actual depth of existing well), _____ feet
- 13) Approximate water strata depths: Fresh, 125 feet; salt, 1,500 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 FILLUP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kind	Size
Conductor	13 3/8	ERW	54.5		X	20'				
Fresh water	9 5/8	ERW	36	X		300'	300'	To surface		
Coal										
Intermediate	7	ERW	20	X		2,200	2,200'	1,900'		
Production	4 1/2	ERW	10.5	X		5,200'	5,200'	As needed		
Tubing										
Liners										
									Perforations:	
									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 (or less than 5 days if the Application is to plug a well), 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: Westvaco Corporation
Parkersburg District
 By Steve M. Richard
 Its Land Surveyor Date: 7-14-83

(For execution by natural persons)

 (Signature) Date: _____

 (Signature) Date: _____

RECEIVED
 10/26/2023
 JUL 15 1983

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.) Permit will be good for 24 months. See Chapter 22, Article 4 of the W. Va. Code.

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, WV 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 personally served or mailed to you 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. (This time is changed to FIVE (5) DAYS from the filing date if the permit is only to plug a well.) 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 should 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.

10/20/2023

Aug 2, 1983

OIL AND GAS RECLAMATION NOTICE

TO:

Name WEST VIRGINIA PULP and PAPER
Address # 2 Ferguson Drive
Parkersburg, W.V. 26101

RECEIVED

AUG - 4 1983

OIL & GAS DIVISION
DEPT. OF MINES

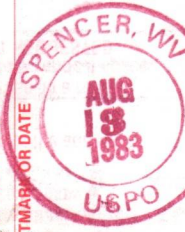
ce is hereby given that
lamation of the surface
rginia Code § 22-4-12b

P18 3337079

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO <u>Steve Richards</u>	CERTIFIED FEE	\$ 70
STREET AND NO. <u># 2 Ferguson Dr</u>	SPECIAL DELIVERY	\$ 75
P.O., STATE AND ZIP CODE <u>Parkersburg WVA 26101</u>	RESTRICTED DELIVERY	
POSTAGE	SHOW TO WHOM AND DATE DELIVERED	60
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
	TOTAL POSTAGE AND FEES	\$ 155



PS Form 3800, Apr. 1976

API Permit No. 47- 13 - 3619 ;
 Acreage 95 ;
 Watershed Katy's Run ;
 District Sheridan ;
 County Calhoun ;
 Public road access County Route 35/25 ;
 Generally used farm name Collins .

This tract of land was utilized in connection with the well work authorized by the permit listed above issued by the Office of Oil and Gas of the West Virginia Department of Mines.

Any claim for oil and gas production damage compensation from the undersigned pursuant to Article 4C, Chapter 22 of the Code must be made within two years of the publication of this notice.

WELL OPERATOR Key Oil Company

ADDRESS P.O. Box 709, Spencer, W.V. 25276

TELEPHONE (304)-927-5490

COPY
FOR YOUR RECORDS

DEPT. OF MINING

1913

DEPT. OF MINING

FOR YOUR RECORDS
COPY

Oil and Gas Lease

FROM

TO

No. _____

Date _____, 19__

Term, Ten Years _____

Number of Acres _____ LOCATION _____

District _____

County _____

Received for Record _____, 19__

Recorded _____, 19__

In Book _____ Page _____

Filed and admitted to record in the office of the Clerk of the County Commission of Calhoun

County, W. Va. \$2.00 or 11:30 o'clock
Recorded in _____ Book No. _____ Page _____

My Commission Expires: _____
Notary Public _____

County, _____, this the _____ day of _____, 19__

Taken, subscribed and sworn to before me _____, a Notary Public of _____

(SEAL) _____
(SEAL) _____

Dated this the _____ day of _____, 19__

right, title to and interest in the within described oil and gas lease to have and to hold according to all the terms and conditions contained therein.

hereby acknowledged _____ do hereby assign, transfer, set over and convey all _____

For and in consideration of the sum of One Dollar (\$1.00) cash in hand paid and other valuable consideration the receipt of which is _____

My Commission expires _____

Given under my hand this _____ day of _____, A. D. 19__

_____ A. D. 19__ has this day acknowledged the same before me in my said county.

_____ signed to the writing above bearing date the _____ day of _____

_____ and _____ do certify _____ of said county of _____

STATE OF _____ COUNTY OF _____ To-wit: _____

My Commission expires _____

By *Anna M. Stalaker*, Deputy,
RICHARD N. STALNAKER, Clerk

Fee: \$2.00

day admitted to record in said office.

The foregoing Agreement _____ together with the certificate thereto annexed, was this

CALHOUN COUNTY COMMISSION CLERK'S OFFICE April 8, 1982 11:30A M.

STATE OF WEST VIRGINIA

My Commission expires _____

Given under my hand this _____ day of _____, A. D. 19__

_____ A. D. 19__ has this day acknowledged the same before me in my said county.

_____ signed to the writing above bearing date the _____ day of _____

_____ and _____ do certify _____ of said county of _____

STATE OF W. Va. COUNTY OF HARRISON To-wit: _____

My Commission expires _____

Given under my hand this _____ day of _____, A. D. 1982

_____ A. D. 1982 has this day acknowledged the same before me in my said county.

_____ signed to the writing above bearing date the _____ day of _____

_____ and _____ do certify _____ of said county of _____

STATE OF W. Va. COUNTY OF HARRISON To-wit: _____

10/20/2023

Richard N. Stalaker, Clerk

ED
OF ENERGY
AND GAS



IV-35
(Rev 8-81)

MAY 5 1986

Date August 17, 1983
Operator's
Well No. 69-1
Farm _____
API No. 47 - 013 - 3619

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 988 Watershed Katies Run
District: Sheridan County Calhoun Quadrangle Annamariah

COMPANY Key Oil Company
ADDRESS P. O. Box 709, Spencer, WV 25276
DESIGNATED AGENT Richard Rexroad
ADDRESS P.O. Box 709, Spencer, WV 25276
SURFACE OWNER WV Pulp and Paper Company
ADDRESS #2 Ferguson Dr., Parkersburg, WV
MINERAL RIGHTS OWNER Harley M. Collins, et al
ADDRESS 407 Liberty Ave., Bridgeport, WV
OIL AND GAS INSPECTOR FOR THIS WORK _____
Deo More ADDRESS RD1, Box 5, Doddridge, WV
PERMIT ISSUED July 19, 1983
DRILLING COMMENCED July 22, 1983
DRILLING COMPLETED July 27, 1983
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	301	301	118 cu.ft.
8 5/8			
7	2112	2112	398 cu.ft.
5 1/2			
4 1/2	5062	5062	308 cu.ft.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5,200 feet
Depth of completed well 5,119 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 140 feet; Salt 720 feet
Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3529-4814 feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow ---- Bbl/d
Final open flow 240 Mcf/d Final open flow 28 Bbl/d
Time of open flow between initial and final tests 96 hours
Static rock pressure 500 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth 10/20/2023 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

(Continue on reverse side)

Cal. 201

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

1st stage 35-0.49" holes 4,336 to 4,814
 1,000,000 scf N₂ + 500 gal. 15% HCl Acid
 2nd stage 32-0.49" holes 3,529 to 3,866
 800,000 scf N₂ + 350 gal. 15% HCl Acid

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			0	90	
Sandstone			90	140	Fresh water 140'
Siltstone - Shale			140	495	
Sandstone			495	555	
Shale			555	705	
Sandstone			705	730	Salt water 720'
Siltstone - Shale			730	1070	
Sandstone			1070	1160	
Shale			1160	1205	
Sandstone			1205	1235	
Shale			1235	1250	
Sandstone			1250	1350	
Siltstone - Shale			1350	1495	
Maxton Sandstone			1495	1525	
Shale			1525	1610	
Little lime			1610	1695	
Shale			1695	1720	
Big lime			1720	1850	1-1/2" stream oil - 1740'
Big Injun			1850	1995	
Shale			1995	2000	
Squaw			2000	2015	
Shale			2015	2040	
Weir			2040	2120	
Siltstone-Shale			2120	2370	
Coffee Shale			2370	2380	
Siltstone - Shale			2380	2730	
Shale			2810	4335	
Riley			4335	4345	
Shale			4345	4795	
Benson			4795	4822	
Shale			4822	5119	

(Attach separate sheets as necessary)

Key Oil Company

Well Operator

By: Barry K. Lay
 Date: Barry K. Lay, Petroleum Engineer 10/20/2023 8/17/83

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

RECEIVED
JUL 27 1983

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3619
13-3919

Oil or Gas Well _____
(KIND)

Company <u>Key Oil</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>H. Collins</u>	16			Kind of Packer _____
Well No. <u>69-1</u>	13			Size of _____
District <u>Shepherd</u> County <u>Cal</u>	10			Depth set _____
Drilling commenced <u>7-21-83</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			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			

Drillers' Names Hurt 5

Remarks: 301' of 9 5/8" 1005K5 cement, Haliburton 7-22-83

7-22-83
DATE

Des M...
10/26/2023
DISTRICT WELL INSPECTOR

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

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OCT 19 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 13-3619

Oil or Gas Well _____
(KIND)

Company Key Oil Co
 Address _____
 Farm collins
 Well No. 69-1
 District Shenandoah County Cal.
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer
16			
13			Size of
10			
8 1/4			Depth set
6 3/8			
5 3/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: Location reclaimed - glass light

10-11-83
DATE

W. M. [Signature] 10/20/2023
DISTRICT WELL _____

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

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DEPARTMENT OF ENERGY
OIL AND GAS

(7/19/83)

JAN 14 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3619

Oil or Gas Well _____
(KIND)

Company <u>Key oil</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Harley Collins</u>	16			Kind of Packer _____
Well No. <u>69-1</u>	13			
District <u>Stonewall</u> County <u>Cal.</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6%			Depth set _____
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:
Well has been drilled.
Reclamation released 12-8-83

1-10-86
DATE

Dw Max 10/20/2023
DISTRICT WELL INSPECTOR

THIS ASSIGNMENT, made as of the 11th day of July, 1983, by and between M & J JOINT VENTURE, a partnership, party of the first part, hereinafter sometimes referred to as "Assignor," and KEY OIL, INC., a Delaware corporation, party of the second part, hereinafter sometimes referred to as "Assignee";

WHEREAS, Assignor has agreed to assign, sell, transfer and convey to Assignee, all of Assignor's right, title, interest and estate in and to all those certain oil and gas lease agreements and the leasehold estates created thereby, covering or affecting properties situate in Calhoun County West Virginia, which are more particularly described in Exhibit "A", appended hereto and incorporated by reference as a part hereof;

WHEREAS, Assignee has agreed to take and accept all of Assignor's right, title, interest and estate in and to the aforesaid oil and gas lease agreements and the leasehold estate created thereby as aforesaid;

NOW, THEREFORE, WITNESSETH, that for and in consideration of the sum of Ten Dollars (\$10.00), cash in hand, paid by Assignee to Assignor, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign and transfer to Assignee, subject to the terms and conditions hereinafter set forth, all of its right, title and interest in and any estate created by all those certain oil and gas lease agreements which are more particularly described in Exhibit "A", appended hereto and incorporated as a part hereof.

This Assignment is on and subject to the following terms and conditions:

(1) Assignee agrees to faithfully and promptly perform all the terms and conditions of said agreement to be performed by Assignor and further agrees to indemnify and hold Assignor harmless from and against any and all claims, suits and demands arising out of or caused by Assignee's failure to perform the same.

(2) Assignee shall reclaim all surface area damaged by Assignee's operations in accordance with West Virginia State laws, and agrees to indemnify and hold harmless Assignor with respect to surface damage and environmental disturbances caused by Assignee's operations.

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JUL 15 1983

OIL & GAS DIVISION
DEPT. OF MINES

(3) Assignor hereby excepts and reserves an overriding royalty with respect to each tract or parcel affected hereby equal in amount to three and one-half percent (3½%) of all the oil and gas produced and saved from all wells drilled thereon by the Assignee. Such overriding royalty payments shall be made monthly to Assignor at its address of P.O. Bpx 727, Spencer, W.Va. 25276.

(4) Any renewals or extensions of the assigned leases, whether by either party, shall be subject to the same terms and conditions as if they were a part hereof.

(5) This Assignment is executed in duplicate, each copy of which shall for all purposes be treated as an original and shall be binding on the parties hereto, their successors and assigns.

WITNESS the following signatures and seals:

M & J JOINT VENTURE

By: Joe McLaughlin
Joe McLaughlin
A Partner

WITNESS:

Maude A. Rhoads

KEY OIL, INC.

By: Joe McLaughlin
Joe McLaughlin
Its President

State of West Virginia
County of Roane, To-Wit:

The foregoing instrument was acknowledged before me this 11th day of July, 1983, by Joe McLaughlin, a partner of M & J JOINT VENTURE, a partnership, on behalf of the partnership.

MARCH 1, 1986
My Commission Expires:

Robert T. [Signature]
Notary Public

State of West Virginia
County of Roane, To-Wit:

The foregoing instrument was acknowledged before me this 11th day of July, 1983, by Joe McLaughlin, President of KEY OIL, INC., a corporation on behalf of the corporation.

MARCH 1, 1986
My Commission Expires:

Robert T. [Signature]
Notary Public

10/20/2023

"EXHIBIT A"

"Exhibit A" to as Assignment dated the 11th day of July, 1983, by and between M & J JOINT VENTURE and KEY OIL, INC.

<u>LEASE #</u>	<u>ACRES</u>	<u>LESSOR</u>	<u>LESSEE</u>	<u>DATED</u>	<u>DESCRIPTION</u>	<u>RECORDED-BOOK/PAGE</u>
65B	43	Virgil D. Monroe, Lorene, his wife Henrietta Mills, Widow Dorcy Wilson, Ada, his wife	M & J JOINT VENTURE	March 12, 1982 February 27, 1982 March 12, 1982	Sheridan District	080-170 080-272 080-276
69	95	Harley M. Collins, Dorothy B. Collins, his wife Geraldine C. Hopwood, Don R. Hopwood, her husband	M & J JOINT VENTURE	March 2, 1982	Sheridan District	080-268 080-268
72	78	Harley M. Collins, Dorothy B. Collins, his wife Geraldine C. Hopwood, Don R. Hopwood, her husband	M & J JOINT VENTURE	March 12, 1982	Sheridan District	080-266 080-266

This instrument prepared by:

M & J JOINT VENTURE

P.O. Box 727, Spencer, W. Va. 25276

THIS ASSIGNMENT, made as of the 15th day of July, 1983, by and between KEY OIL, INC., party of the first part, hereinafter sometimes referred to as "Assignor," and KEY OIL COMPANY, party of the second part, hereinafter sometimes referred to as "Assingee";

WHEREAS, Assignor has agreed to assign, sell, transfer and convey to Assignee, all of Assignor's right, title, interest and estate in and to all those certain oil and gas lease agreements and the leasehold estates created thereby, covering or affecting properties situate in Calhoun County West Virginia, which are more particularly described in Exhibit "A", appended hereto and incorporated by reference as a part hereof;

WHEREAS, Assignee has agreed to take and accept all of Assignor's right, title, interest and estate in and to the aforesaid oil and gas lease agreements and the leasehold estates created thereby as aforesaid;

NOW, THEREFORE, WITNESSETH, that for and in consideration of the sum of Ten Dollars (\$10.00), cash in hand, paid by Assingee to Assignor, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign and transfer to Assignee, subject to the terms and conditions hereinafter set forth, all of its right, title and interest in and any estate created by all those certain oil and gas lease agreements which are more particularly described in Exhibit "A", appended hereto and incorporated as a part hereof.

This Assignment is on and subject to the following terms and conditions:

(1) Assignee agrees to faithfully and promptly perform all the terms and conditions of said agreement to be performed by Assignor and further agrees to indemnify and hold Assignor harmless from and against any and all claims, suits and demands arising out of or caused by Assignee's failure to perform the same.

(2) Assignee shall reclaim all surface area damaged by Assignee's operations in accordance with West Virginia State laws, and agrees to indemnify and hold harmless Assignor with respect to surface damage and environmental disturbances caused by Assignee's operations.

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10/20/2023
OIL & GAS DIVISION
DEPT. OF MINES

(3) This Assignment is subject to all prior reservations.

(4) Any renewals or extensions of the assigned leases, whether by either party, shall be subject to the same terms and conditions as if they were a part hereof.

(5) This Assignment is executed in duplicate, each copy of which shall for all purposes be treated as an original and shall be binding on the parties hereto.

WITNESS the following signatures and seals:

KEY OIL, INC.

By: Joe McLaughlin
Joe McLaughlin
Its President

WITNESS:

Charles J. Morrow

KEY OIL COMPANY

By: Joe McLaughlin
Joe McLaughlin
Its President

State of West Virginia
County of Roane, To-Wit:

The foregoing instrument was acknowledged before me this 15th day of July, 1983, by Joe McLaughlin, President of Key Oil, Inc., a corporation on behalf of the corporation.

3-1-86
My Commission Expires:

Richard T. [Signature]
Notary Public

State of West Virginia
County of Roane, To-Wit

The foregoing instrument was acknowledged before me this 15th day of July, 1983, by Joe McLaughlin President of Key Oil Company, on behalf of the corporation.

3-1-86
My Commission Expires:

Richard T. [Signature]
Notary Public

10/20/2023

"Exhibit A" to an Assignment dated the 14th day of July, 1983, by and between KEY OIL, INC. AND KEY OIL COMPANY.

<u>LEASE #</u>	<u>ACRES</u>	<u>LESSOR</u>	<u>LESSEE</u>	<u>DATED</u>	<u>DESCRIPTION</u>	<u>RECORDED-BOOK/PAGE</u>
5B	43	VIRGIL D. Monroe, Lorene, his wife Henrietta Mills, Widow Dorcy Wilson, Ada, his wife	M & J JOINT VENTURE	March 12, 1982 February 27, 1982 March 12, 1982	Sheridan District	080-170 080-272 080-276
9	95	Harley M. Collins, Dorothy B. Collins, his wife Geraldine C. Hopwood, Don R. Hopwood, her husband	M & J JOINT VENTURE	March 2, 1982	Sheridan District	080-268 080-268
2	78	Harley M. Collins, Dorothy B. Collins, his wife Geraldine C. Hopwood, Don R. Hopwood, her husband	M & J JOINT VENTURE	March 12, 1982	Sheridan District	080-266 080-266

10/20/2023

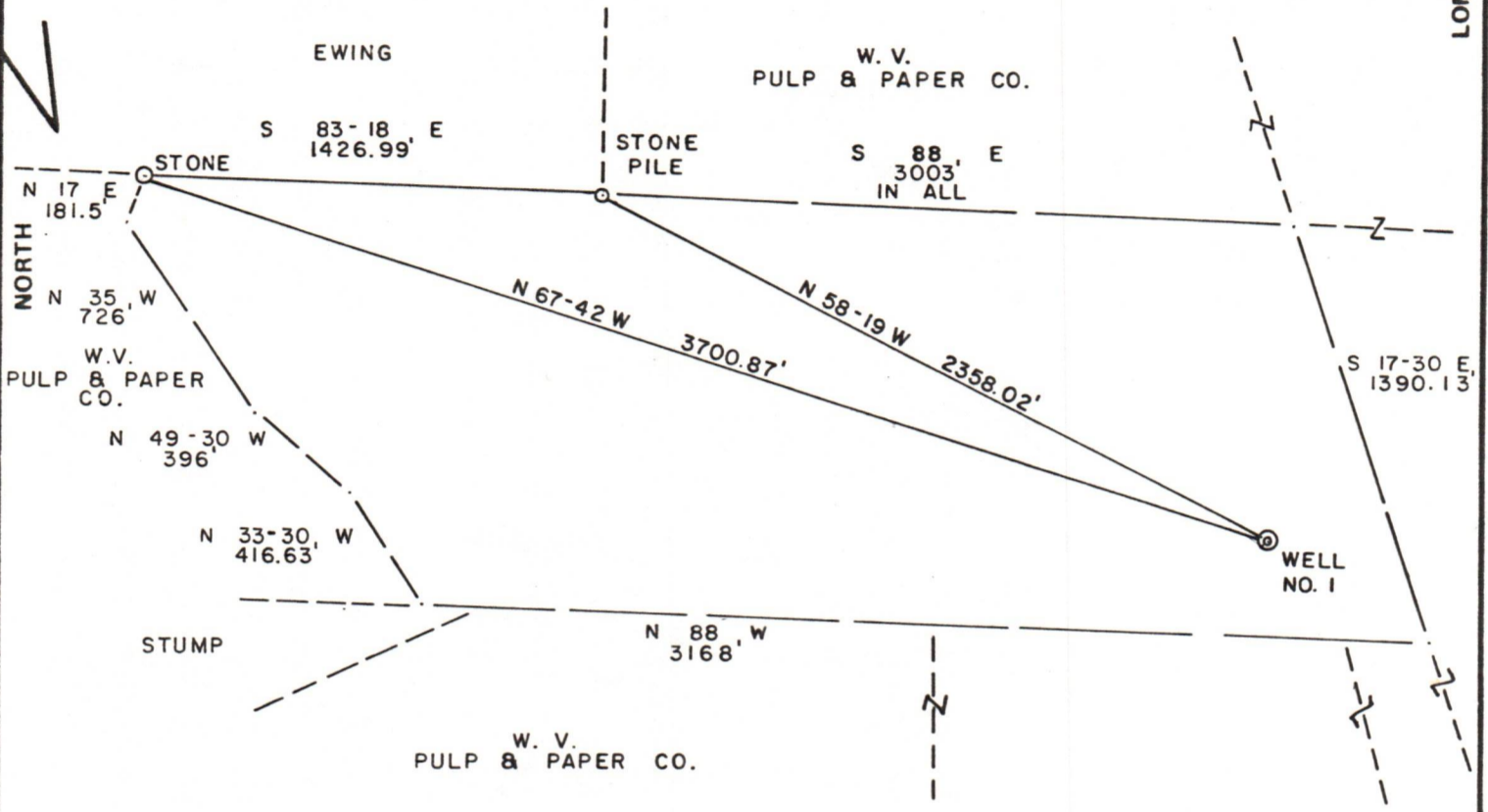
This instrument prepared by:
Key Oil, Inc., Spencer, W.Va. 25276

LATITUDE 38° 57' 30"

COLLINS LEASE WELL NO. 1

95 ACRES ±

LONGITUDE 81° 12' 30"



FILE NO. 6-68
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1 / 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV. 1021'

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



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



DATE JUNE 16, 1982
 OPERATOR'S WELL NO. 1
 API WELL NO. _____
47 - 013 - 3619
 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 988' WATER SHED KATYS RUN
 DISTRICT SHERIDAN COUNTY CALHOUN
 QUADRANGLE ANNAMORIAH 7.5'
 SURFACE OWNER W.V. PULP & PAPER ACREAGE 95
 OIL & GAS ROYALTY OWNER HARLEY M. COLLINS et. al. LEASE ACREAGE 95
 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 MARCELLUS ESTIMATED DEPTH 5200'
 WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT RICHARD REXROAD
 ADDRESS P.O. Box 709 ADDRESS P.O. BOX 727
SPENCER, W.V. 25276 SPENCER, W.V. 25276

10/20/2023