



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, March 20, 2020
WELL WORK PERMIT
Vertical / Fracture

DALE, DAVID DBA DD OIL COMPANY
P. O. BOX 406

SPENCER, WV 252760406


Re: Permit approval for DRILCO 2018 1V
47-085-10373-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: DRILCO 2018 1V
Farm Name: SAMUEL & BARBARA KEN 
U.S. WELL NUMBER: 47-085-10373-00-00
Vertical Fracture
Date Issued: 3/20/2020

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B
(Rev. 8/10)

OK #
0162
#50.00

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: DD OIL CO

1V	RITCHIE	UNION	BURNTHOUSE
----	---------	-------	------------

DALE, DAVID dba DD OIL CO Operator ID County District Quadrangle

2) Operator's Well Number: DRILCO 2018 1V API 47-085-10373 3) Elevation: 1245

4) Well Type: (a) Oil or Gas
(b) If Gas: Production / Underground Storage
Deep / Shallow

5) Proposed Target Formation(s): ALEXANDER/ELK Proposed Target Depth: 5,800

6) Proposed Total Depth: Feet Formation at Proposed Total Depth: 5,800

7) Approximate fresh water strata depths: NONE ENCOUNTERED

8) Approximate salt water depths: NONE

9) Approximate coal seam depths: NONE

10) Approximate void depths, (coal, Karst, other): NONE

11) Does land contain coal seams tributary to active mine? NO

Michael Hoff
2-27-20

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

WELL WORK PROPOSED IS A 3-STAGE, SLICK WATER FRACTURE (CO-MINGLE).
IN THE ALEXANDER/BENSON/RILEY AND/OR BALLTOWN FORMATIONS.
50,000 LBS PER STAGE/15 PERFS PER STAGE. 20/40 MESH FRAC SAND. 1,500-2,000 GALLONS 15% HCL ACID.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13 3/8	H40	42 LB	21	21	CTS
Fresh Water	9 5/8	H40	36 LB	468	468	C TS
Coal						
Intermediate	7	J55	20 LB	1970	1970	CTS
Production	4 1/2	N80	13.5 LB	6790	6790	CEMENT BACK TO 7"
Tubing						(4,800)
Liners						

Packers: Kind: NONE
Sizes: NONE
Depths Set NONE

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-085-10373 County RITCHIE District UNION
Quad BURNTHOUSE 7.5 Pad Name DRILCO 2018 1V/1H Field/Pool Name AUBURN
Farm name KENSLER, SAMUEL AND BARBARA Well Number DRILCO 2018 1V
Operator (as registered with the OOG) DD OIL CO
Address PO BOX 406 City SPENCER State WV Zip 25276

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4326281 Easting 510698
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1245 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
N/A AIR DRILLED

Date permit issued 10-19-18 Date drilling commenced 2-19-19 Date drilling ceased 2-29-19
Date completion activities began WAITING ON PIPELINE Date completion activities ceased COMPLETION PLANNED 4-20
Verbal plugging (Y/N) NO Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft NONE ENCOUNTERED Open mine(s) (Y/N) depths NONE
Salt water depth(s) ft NONE ENCOUNTERED Void(s) encountered (Y/N) depths NONE
Coal depth(s) ft NONE Cavern(s) encountered (Y/N) depths NONE
Is coal being mined in area (Y/N) NO

Reviewed by:

WR-35
Rev. 8/23/13

API 47-085 - 10373 Farm name KENSLE, SAMUEL AND BARBARA Well number DRILCO 2018 1V

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	17 1/2	13 3/8	21.4	NEW	H40	SURFACE	YES
Surface	12 1/4	9 5/8	468.20	NEW	H40	SURFACE	YES
Coal	NONE						
Intermediate 1	8 3/4	7	1970	NEW	J55	SURFACE	YES
Intermediate 2						and 985 ft	
Intermediate 3							
Production	7 7/8	4 1/2	6790	NEW	H80	SURFACE	YES
Tubing						CENTRALIZERS AT	
Packer type and depth set						5,700 FT, 2300 FT, 1900 FT, 1100 FT	

Comment Details CTS ALL STRINGS TO SURFACE

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	10	14.5	1.118	126	CTS	12
Surface	CLASS A	161	14.5	1.118	190.5	CTS	12
Coal							
Intermediate 1	CLASS A	326	14.5	1.118	385	CTS	12
Intermediate 2							
Intermediate 3							
Production	CLASS A	671	14.5	1.118	791	CTS	48
Tubing							

Drillers TD (ft) 6815 Loggers TD (ft) 6819
 Deepest formation penetrated TULLY Plug back to (ft) BRIDGE PLUG SET AT 5,700
 Plug back procedure RUN PIPE CEMENTED IN 5,700 FT, RUN PIPE TO 6790, PLUGGED BACK TO 5,700 WITH BRIDGE PLUG INSIDE 4 1/2" CASING

Kick off depth (ft)

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING
 CONDUCTOR PIPE NONE
 9 5/8" TWO PLACED BOTTOM OF STRING AND TOP
 7" INTERMEDIATE 8 PLACED EVERY 650 FT
 4 1/2" EVERY 6 JOINTS, APPROX 250' APART, 30 CENTRALIZERS

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED

WR-35
Rev. 8/23/13

API 47- 085 - 10386 Farm name KENSLER, SAMUEL AND BARBARA Well number DRILCO 2018 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>WEIR</u>	<u>2450</u> TVD	<u>4350</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

*Removal
2/20/20*

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 800 psi Bottom Hole 1100 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 125 mcfpd Oil 150 bpd NGL _____ bpd Water 150 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		
					PLEASE SEE ATTACHED LITHOLOGY ADDENDUM

Please insert additional pages as applicable.

Drilling Contractor MITCHELL
Address 2529 SYCAMORE ROAD City CLARKSBURG State WV Zip 26301

Logging Company STRATA GRAPH NE INC
Address 116 ELLSWORTH AVE City MARIETTA State OH Zip 45750

Cementing Company FORMATION CEMENTING
Address 1800 KEMPER COURT City ZANESVILLE State OH Zip 43701

Stimulating Company PRODUCERS SERVICE
Address 109 GRAHAM ST City ZANESVILLE State OH Zip 43701

Please insert additional pages as applicable.

Completed by HUGH D DALE Telephone 304-354-9516
Signature  Title MANAGING MEMBER Date 10-15/2019



DRILCO OIL AND GAS
—drilcooilgas.com—

BOX 385 GRANTSVILLE, WV 26147 304-354-9516

DrilcoOilGas.com

LITHOLOGY ADDENDUM API # 047-085-10386

LITHOLOGY FORMATION	TOP (ft)	BOTTOM (ft)
Clay	0	10
Sand	10	65
R&R	65	95
Sand	95	180
Slate	180	210
Sand	210	550
R&R	550	620
Sand	620	845
Sand/Shale	845	1125
Sand	1125	1750
Shale	1750	1836
Little Lime	1836	2040
Big Lime	2040	2206
Big Injun	2206	2254
Brown Shale	2254	2420
Weir	2420	2492

Hugh D. Dale, Jr., President Drilco Oil & Gas Corporation

WW-2A
(Rev. 6-14)

1). Date: 02/24/2020
2.) Operator's Well Number DRILCO 2018 1V
State County Permit
3.) API Well No.: 47- 085 - 10373

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator
(a) Name SAMUEL & BARBARA KENS Name NONE
Address 1471 TOWNSHIP ROAD 51E Address _____
RUSHYLVANIA, OH 43347
(b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name NONE
Address _____
(c) Name _____ Name _____
Address _____ Address _____
6) Inspector MIKE GOFF (c) Coal Lessee with Declaration
Address _____ Name NONE
Address _____
Telephone 304-549-9823 Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

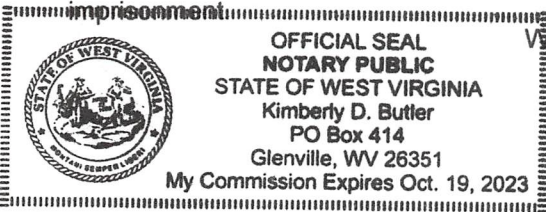
Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator DD OIL CO
By: _____
Its: OPERATOR
Address: PO BOX 385, GRANTSVILLE WV 26147
Telephone: 304-354-9516
Email: hugh@drilcooilgas.com

Subscribed and sworn before me this 24 day of FEBRUARY, 2020

Kimberly D Butler Notary Public
My Commission Expires 10.19.23

Oil and Gas Privacy Notice



DRILCO OIL AND GAS
—drilcooilgas.com—

BOX 385 GRANTSVILLE, WV 26147 304-354-9516

DrilcoOilGas.com

February 21, 2020

Samuel and Barbara Kensler
1471 Township Road 51 E
Rushsylvania, OH 43347
937-935-4786
937-935-9128

Hello Mr. and Mrs. Kensler,

This is Kim Butler, Hugh's assistant.
Hope this finds you well.

Hugh wanted you to know that we are now in the process of permitting a FRACTURE and STIMULATION on the VERTICAL WELL we had completed in the Fall of 2019. Although it is the same location, and nothing has changed, we are still required for legal reasons to give you notice via verifiable mail.

Attached is a copy of the plat (same as before) that shows the location of the well and FRAC.

Also, I have included 2 ORIGINAL COPIES of the signed SURFACE OWNER WAIVER that is part of the permitting process. Please sign BOTH and return one to me, in the attached envelope, as quickly as possible.

If you have any questions, please contact me at 304-354-9516, or Hugh at 304-550-0978, or hugh@drilcooilgas.com.

Hugh D. Dale, Jr., President
Drilco Oil & Gas Corporation

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

County 085

Operator 2018 DRILCO 1H DRILLING
Operator well number 047-085-10373

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, 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 of the West Virginia Code. Well work 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 and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

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

List of Water Testing Laboratories. The Office 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 Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, 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 on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

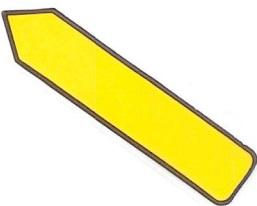
Company Name DD OIL
By HUGH D DALE
Its FEB 24, 2020
Date

SAMUEL KENSLER
Print Name

OPERATOR

Signature

Date



WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County RITCHIE
Operator DD OIL CO Operator's Well Number 047-085-10373

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

NO COAL

WAIVER

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 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date

Company Name DD OIL CO
By HUGH D DALE OPERATOR Date 02/24/2020
Its _____
[Signature] 2/24/20
Signature Date

4708510373F

WW-2B1
(5-12)

Well No. Drilco 2018 1V

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name No water sources within 1,000 ft
Sampling Contractor No water within 2000' FT

Well Operator D+D oil
Address P.O. Box 385
Grantsville, WV 26147
Telephone 304-354-9616

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

RECEIVED
Office of Oil and Gas

MAR 1 1998

WV Department of
Environmental Protection

WW-9
(5/16)

4708510373F

API Number 47 - 085 - 10373
Operator's Well No. DRILCO 2018 1V

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name DD OIL CO OP Code

Watershed (HUC 10) BIG RUN Quadrangle BURNT HOUSE

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number)
- Reuse (at API Number)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain NO PIT WASTE)

FLOW BACK WILL BE CONTAINED IN TANKS & SENT TO OIL PURCHASER ENLINK. CB

Will closed loop system be used? If so, describe: NO

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. AIR

-If oil based, what type? Synthetic, petroleum, etc. NONE

Additives to be used in drilling medium? NONE

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? NONE

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]
Company Official (Typed Name) HUGH D DALE
Company Official Title MANAGING MEMBER LLC



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Kimberly D. Butler
PO Box 414
Glenville, WV 26351
My Commission Expires Oct. 19, 2023

Subscribed and sworn before me this 24 day of February, 2020

Kimberly D Butler Notary Public

My commission expires 10.19.2023

WW-2A1
(Rev. 1/11)

Operator's Well Number 047-085-10373

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, 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
HALL HEIRS	HARDMAN DRILLING (PURCHASED BY DRILCO OIL & GAS CORP MARCH 1995 RITCHIE COUNTY BOOK 122 PAGE 50	1/8	122/50

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By:Its:

DD OIL CO

HUGH D DALE

OPERATOR

WW-9
(5/16)

API Number 47 - 085 - 10373
Operator's Well No. DRILCO 2018 1V

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name DD OIL CO OP Code _____
Watershed (HUC 10) BIG RUN Quadrangle BURNT HOUSE

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

MAG
2-27-20

Will closed loop system be used? If so, describe: NO

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. AIR

-If oil based, what type? Synthetic, petroleum, etc. NONE

Additives to be used in drilling medium? NONE

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? NONE

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

Company Official (Typed Name) HUGH D DALE

Company Official Title MANAGING MEMBER LLC



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Kimberly D. Butler
PO Box 414
Glenville, WV 26351
My Commission Expires Oct. 19, 2023

Subscribed and sworn before me this 24 day of February, 2020

Kimberly D Butler Notary Public

My commission expires 10.19.2023

Form WW-9

Operator's Well No. DRILCO 2018 1V

Proposed Revegetation Treatment: Acres Disturbed LESS THAN 1 Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

CONTRACTOR'S MIX 40LB

CONTRACTOR'S MIX 40LB

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Doff

Comments: RECLAMATION PERFORMED DURING INITIAL VERTICAL DRILL.
ANY DAMAGE TO RECLAMATION WILL BE REPAIRED
WILL ADD EROSION AND CONTROL MEASURES AS NEEDED.

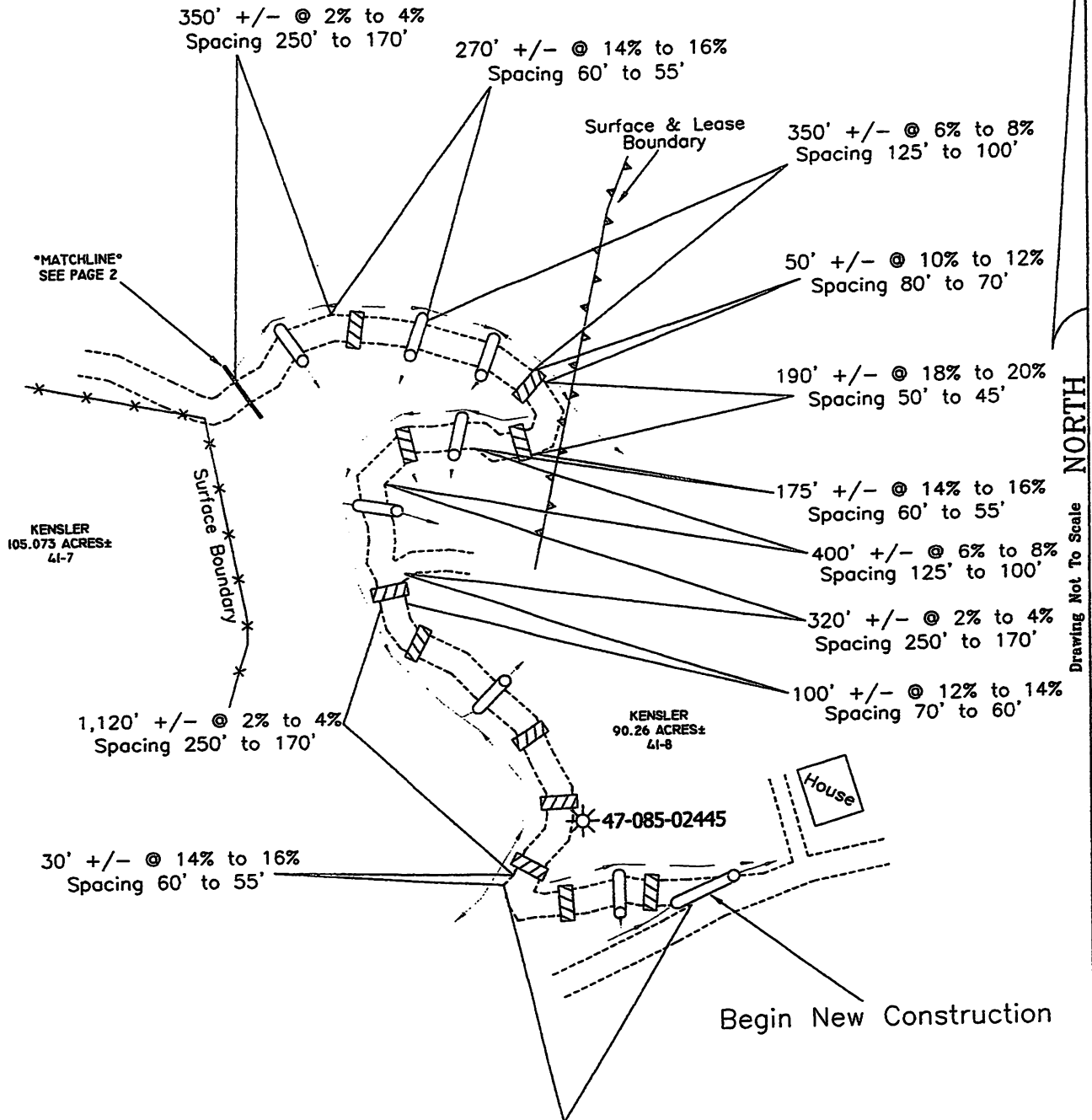
Title: Oil & Gas Inspector Date: 2-27-20

Field Reviewed? () Yes () No

Form W-9

DRILCO DRILCO 2018 #1V PAD 1

Page 1 of 2



Drawing Not To Scale NORTH

Install Minimum 12" Culvert

ALL ROADS SHOWN HEREIN ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP, OD, AND GAS BOP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DDT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DDT.

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP, OD, AND GAS BOP MANUAL. FIELD CONDITIONS (WOOD OUTCROPS AND BEDROCK) MAY PREVENT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION. CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER. STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

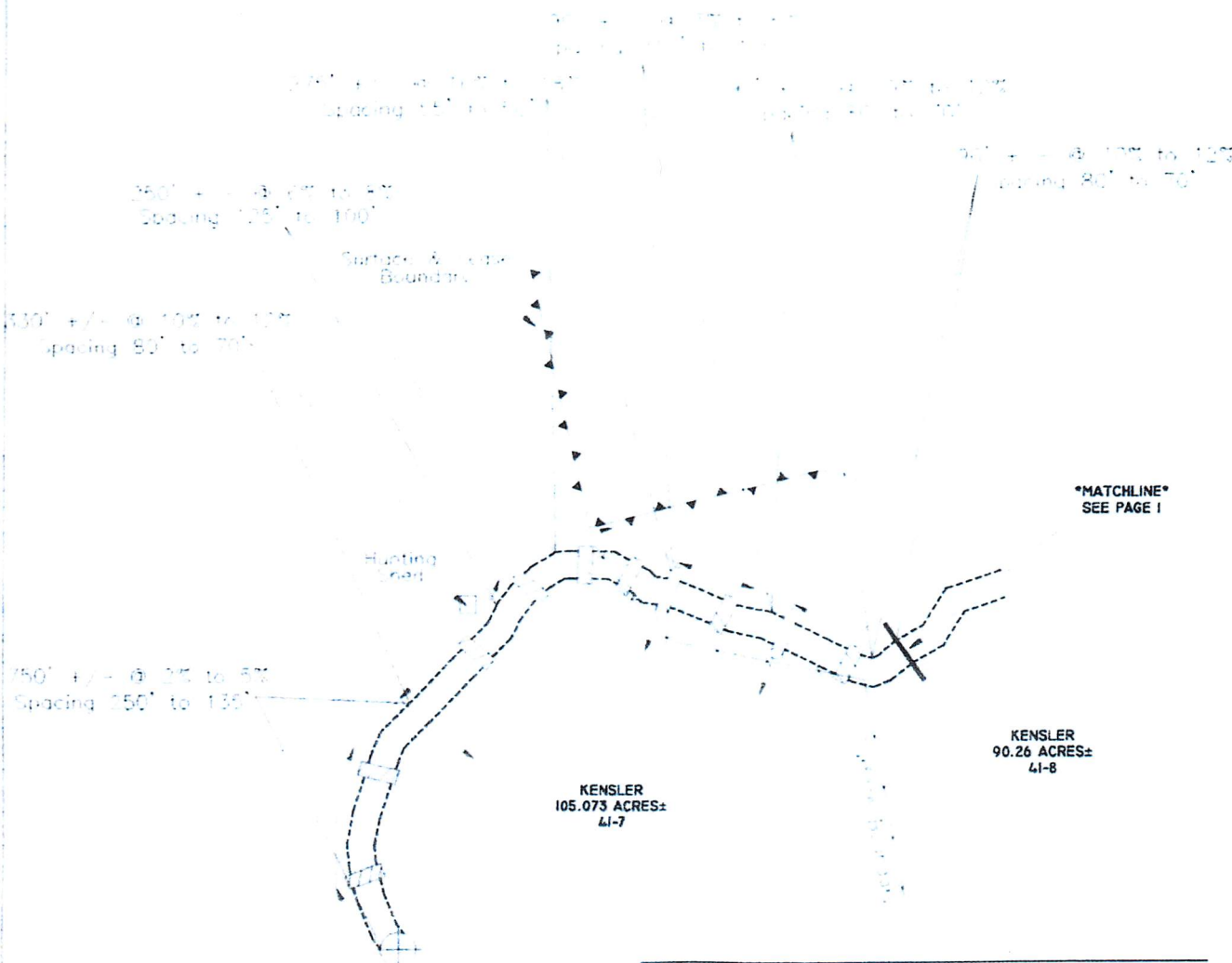
RECEIVED
Office of Oil and Gas
AUG 14 2018
WV Department of
Environmental Protection

HUPP Surveying & Mapping P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net	Drafted BY:	Date Drafted:	Job Number:
	DB	07/11/18	W20182606

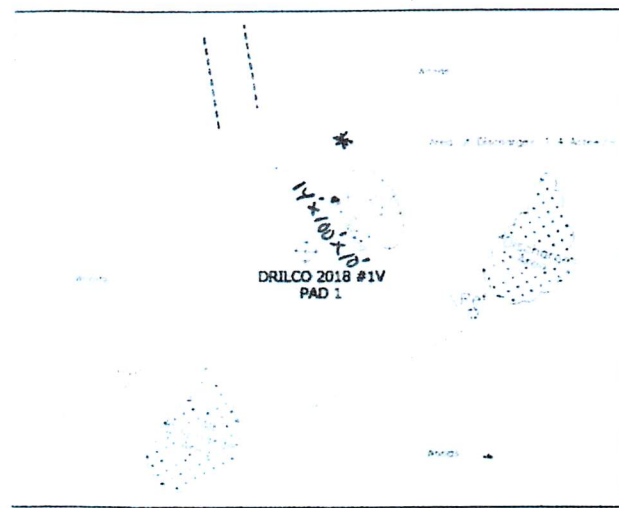
Form W-9

D D OIL COMPANY DRILCO 2018 #1V PAD 1

Page 2 of 2



**DRILCO 2018 #1V
PAD 1**



* PIT area = 14' x 100' x 10'

1. All roads shown herein are existing unless otherwise noted and shall be maintained in accordance with DEP rules and regulations. All drainage structures shall be maintained in accordance with WV Dept. of Transportation. Separate permits may be required by the DEP.

2. Sediment basins, traps and appropriate erosion control barriers are to be constructed at all culvert and pipe drain inlets and outlets as required by the WV DEP and S&C DEP manual. Field conditions, rock content and debris may prohibit inlet trap, basins installed when these conditions exist. Additional erosion control measures shall be evaluated and utilized.

3. Contractors are responsible for notifying the operator and inspector prior to any deviation from this plan.

4. Contractors are responsible for locating utilities whether shown on the plan or not.

5. Temporary field and trench fill slopes after construction of location cut and stake all trench above 4'-0" in diameter and thicker. Stake trench below location for sediment control.

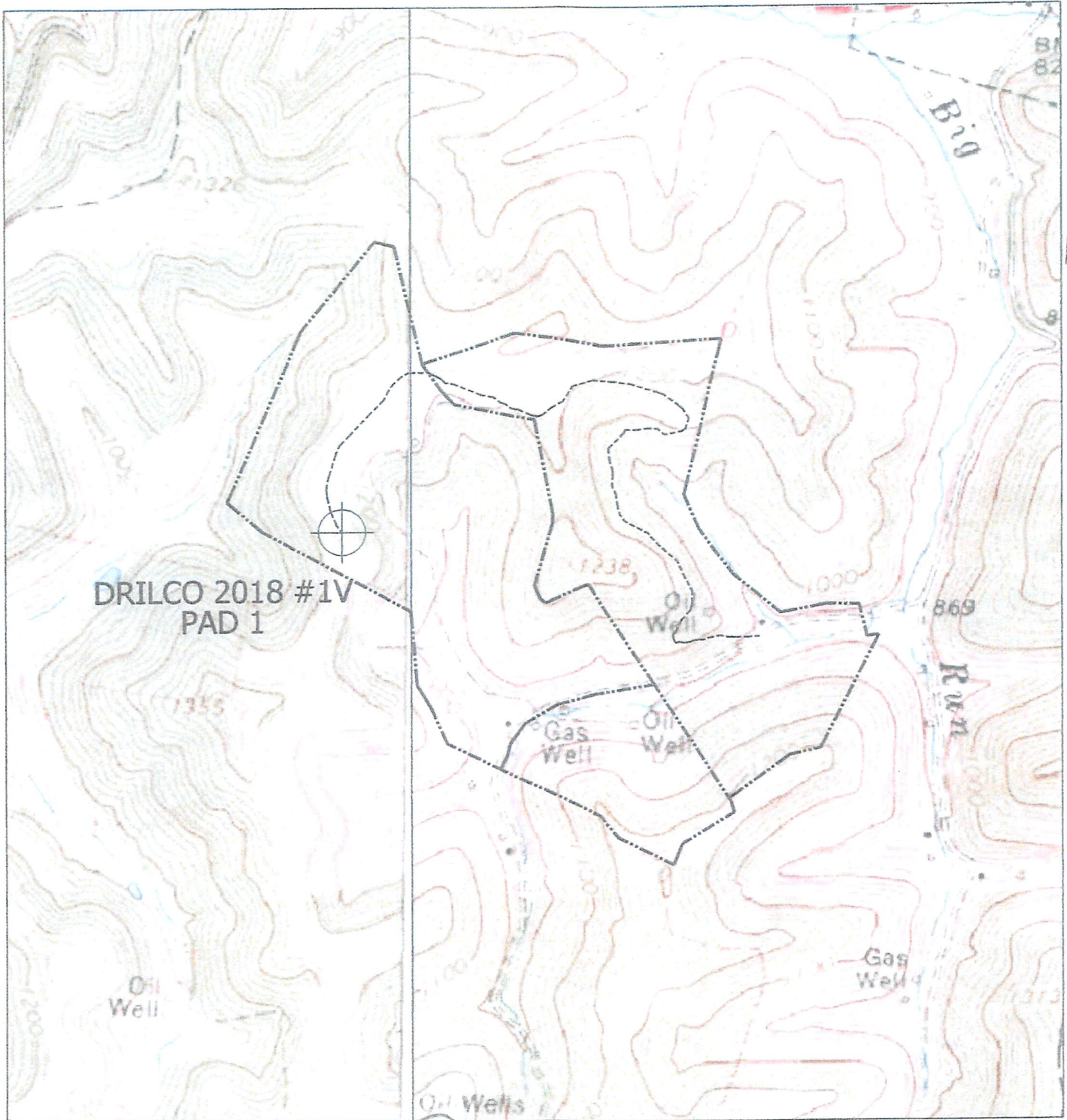
Drawing Not To Scale NORTH

HUPP Surveying & Mapping	Drafted BY	Date Drafted.	Job Number
P.O. Box 647 GRANTSVILLE, WV 26147 Ph: (304) 354-7035 E-MAIL: hupp@frontier.net	EE	7-11-18	W0162606

DRILCO

Form W-9

DRILCO 2018 #1V PAD 1



NORTH

HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147
PH:(304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'
BURNT HOUSE Quad

DRILCO
P.O. BOX 382
GRANTSVILLE, WV 26147



47-085-10373F

LONG. 80°52'35.1" - 400'

FORM WW 6

39°07'30"

DRILCO 2018 #1V PAD 1 (47-085-010373V)

DRILCO 2018 #1V PAD 1
 STATE PLANE
 COORDINATES
 (NORTH ZONE-NAD 27)
 (N) 216234
 (E) 1609298

L & L DECIMAL (NAD 27)
 39.08547
 80.87641

UTM (NAD 83)
 4326278
 510704

WALDO, ET AL
396.62 ACRES±
41-5

JERRYL
62.6 ACRES±
36-38.2

KENSLER
90.26 ACRES±
41-8

KENSLER
105.073 ACRES±
41-7

NORTH

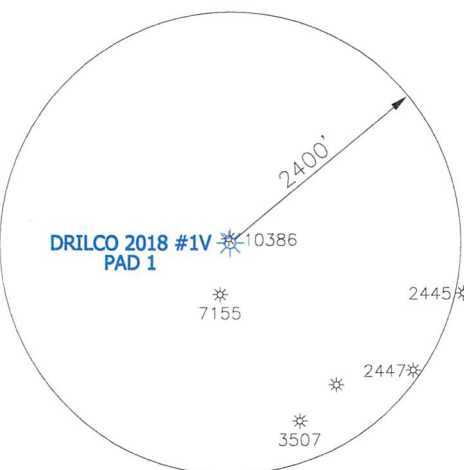
To Left Fork
30" BLACK OAK, SNAG

DRILCO 2018 #1V
PAD 1
(47-085-010373V)

#1H
(47-085-10386)
#1V
(47-085-10373)

LINE LEGEND

LEASE BOUNDARY	---
SURFACE BOUNDARY	---
CREEK/STREAM	---
ROADS	---
WELL TIES	---



47-085-07155

SMITH
87.6 ACRES±
41-6

SIMMONS, ET AL
1.073 ACRES±
41-7.2

NOTES ON SURVEY

1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
3. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
4. WELL LAT./LONG. ESTABLISHED BY DGPS (SUB-METER GRADE).
5. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JUNE, 2018 AND INFORMATION PROVIDED BY D D OIL COMPANY.
6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

47-085-03507

WELL

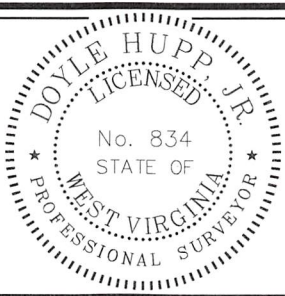
To Big Run

47-085-02447
KENSLER
25.87 ACRES±
41-7.1

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S.
834

HUPP Surveying & Mapping
P.O. Box 647 Grantsville, WV 26147
(304) 354-7035 EMAIL: hupp@frontiernet.net



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE FEBRUARY 28, 20 20
 OPERATORS WELL NO. DRILCO 2018 #1V
 PAD 1
 API WELL NO. 47-085-10373F
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2606 (BK91-13)
 PROVEN SOURCE OF ELEVATION DGPS (SUB-METER) SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1,245' WATERSHED BIG RUN
 DISTRICT UNION COUNTY RITCHIE QUADRANGLE BURNT HOUSE 7.5'

SURFACE OWNER SAMUEL & BARBARA KENSLER ACREAGE 105.073±
 ROYALTY OWNER J.A. HALL HEIRS, et al LEASE ACREAGE 133±

PROPOSED WORK : LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
 ESTIMATED DEPTH 5,800'

WELL OPERATOR D D OIL COMPANY DESIGNATED AGENT HUGH DALE
 ADDRESS P.O. BOX 385 GRANTSVILLE, WV 26147 ADDRESS P.O. BOX 385 GRANTSVILLE, WV 26147

LONGITUDE 80°52'30"

14,350'

LAT. 39°05'07.7"

COUNTY NAME

PERMIT

DRILCO 2018 #1V PAD 1 (47-085-010373V)

39°07'30"

LONGITUDE 80°52'30"

14,350'

LAT. 39°05'07.7"

DRILCO 2018 #1V PAD 1

STATE PLANE
COORDINATES
(NORTH ZONE-NAD 27)
(N) 216234
(E) 1609298

L & L DECIMAL (NAD 27)
39.08547
80.87641

UTM (NAD 83)
4326278
510704

WALDO, ET AL
396.62 ACRES±
41-5

JERRYL
62.6 ACRES±
36-38.2

KENSLER
90.26 ACRES±
41-8

KENSLER
105.073 ACRES±
41-7

#1H
(47-085-10386)
#1V
(47-085-10373)

PAD 1

LINE LEGEND

LEASE BOUNDARY	---
SURFACE BOUNDARY	---
CREEK/STREAM	---
ROADS	---
WELL TIES	---

NORTH

To Left Fork

30" BLACK OAK, SNAG

N 74° W
836'

N 24° E
1310'

DRILCO 2018 #1V
PAD 1
(47-085-010373V)

S 11° W
541'

47-085-07155

SMITH
87.6 ACRES±
41-6

SIMMONS, ET AL
1.073 ACRES±
41-7.2

WELL

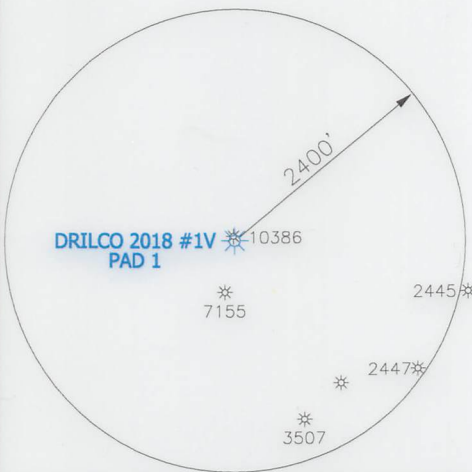
47-085-02447

KENSLER
25.87 ACRES±
41-7.1

47-085-03507

NOTES ON SURVEY

1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
3. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
4. WELL LAT./LONG. ESTABLISHED BY DGPS (SUB-METER GRADE).
5. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JUNE, 2018 AND INFORMATION PROVIDED BY D D OIL COMPANY.
6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.



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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 28, 20 20
 OPERATORS WELL NO. DRILCO 2018 #1V PAD 1
 API WELL NO. 47-085-10373 **F**
 STATE COUNTY PERMIT

P.S. 834

 HUPP Surveying & Mapping
 P.O. Box 647 Grantsville, WV 26147
 (304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2606 (BK91-13)
 PROVEN SOURCE OF ELEVATION DGPS (SUB-METER) SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE : OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____ "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION :
 ELEVATION 1,245' WATERSHED BIG RUN
 DISTRICT UNION COUNTY RITCHIE QUADRANGLE BURNT HOUSE 7.5'

SURFACE OWNER SAMUEL & BARBARA KENSLER ACREAGE 105.073±
 ROYALTY OWNER J.A. HALL HEIRS, et al LEASE ACREAGE 133±

PROPOSED WORK : LEASE NO. _____
 DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
 ESTIMATED DEPTH 5,800'

WELL OPERATOR D D OIL COMPANY DESIGNATED AGENT HUGH DALE
 ADDRESS P.O. BOX 385 GRANTSVILLE, WV 26147 ADDRESS P.O. BOX 385 GRANTSVILLE, WV 26147

NSM