



 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

Thursday, March 7, 2019
 WELL WORK PERMIT
 Horizontal / New Drill

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

SPENCER, WV 252760406


Re: Permit approval for DRILCO 2018 1H
 47-085-10386-00-00

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 1H
 Farm Name: SAMUEL & BARBARA KEN 
 U.S. WELL NUMBER: 47-085-10386-00-00
 Horizontal New Drill
 Date Issued: 3/7/2019

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operator: DD OIL CO. 1H RITCHIE UNION BURNT HOUSE
DALE, DAVID DD OIL CO. Operator ID County District Quadrangle

2) Operator's Well Number: DRILCO 2018 1H 3) Elevation: 1245

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

5) Proposed Target Formation(s): BIG INJUN SAND Proposed Target Depth: 2200

6) Proposed Total Depth: 5200 (2200V + 3000H) Feet Formation at Proposed Total Depth: INJUN SAND 2200

7) Approximate fresh water strata depths: NONE

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? NONE

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

BUILD WELL LOCATION AND DRILL 2,200 FT TO INJUN SAND. SEE ADDENDUM 1 (2A)
STARTING AT 1600 FT, EMPLOY A 10-DEGREE HORIZONTAL CURVE, TO 65 DEGREES.
THEN DRILL HORIZONTAL IN INJUN SAND FOR UP TO 3,000 WITH A 10-STAGE FRAC.

Michael Doff
1/10/19

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Office of Oil and Gas

JAN 16 2019

13) **CASING AND TUBING PROGRAM**

WV Department of Environmental Protection

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	20	H40	94 LB	40 FT	40 FT	CTS
Fresh Water	13 3/8	J55	54.5 LB	400 FT	400 FT	CTS
Coal	NONE					
Intermediate	9 5/8	H40	36 LB	1600 FT	1600 FT	CTS
Production	4 1/2	N80	13.3 LB	5200 FT	5200 FT	CTS
Tubing	NONE					
Liners	NONE					

Packers: Kind: NONE
Sizes: NONE
Depths Set NONE

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

1) Well Operator: THE OIL CO
 DATE: 03/08/2019 OPERATOR ID: 00000000000000000000 COUNTY: PUTNAM DISTRICT: 00000000000000000000 QUADRANGLE: 00000000000000000000

2) Operator Well Number: 0018 5H (3) Elevation: 2518

4) Well Type: (a) Oil or Gas (b) if Gas: Production Underground Storage

Leak: NO Station: NO

5) Proposed Target Formation: 818 INJUN SAND Proposed Total Depth: 3200
 6) Proposed Total Depth: 3200 Formation at Proposed Total Depth: 818 INJUN SAND

7) Approximate fresh water static depth: NONE

8) Approximate salt water depth: NONE

9) Approximate coal seam depth: NONE

10) Approximate void depth (coal, karst, other): NONE

11) Does land contain coal seams likely to active mine? NONE

12) Describe proposed well work and casing intervals in detail (attach additional sheets if needed).

BUILD WELL LOCATION AND DRILL 200 FT TO INJUN SAND

STAYING AT 1000 FT EMBL OF A 10-DEGREE HORIZONTAL CURVE TO 88 DEGREE

THEN DRILL HORIZONTAL INJUN SAND FOR 10,000 FT TO STAGEFRAC

CASING AND LUBING PROGRAM

TYPE	SPECIFICATION	Grade	Weight per ft	Foot Drilling	Interval	CEMENT
Conductor	20	140	24 LB	40 FT	40 FT	CTS
Production	4 1/2	130	13.8 LB	8200 FT	8200 FT	CTS
Intermediate	3 3/8	140	38 LB	1000 FT	1000 FT	CTS
Coal	NONE					
Production	13 3/8	130	84.8 LB	400 FT	400 FT	CTS
Conductor	20	140	24 LB	40 FT	40 FT	CTS

13) Depth of well: NONE

14) Slope: NONE

15) Depth of well: NONE

03/08/2019



Drilco Oil and Gas Corp
PO Box 385
Grantsville, WV 26147
Office: 304-354-9516
Cell: 304-550-0978
Fax: 304-354-6809

Hugh D. Dale Jr., President
hugh@drilcooilgas.com

February 20, 2019

Jeff McLaughlin, B. S. Petroleum Eng.
Technical Analyst, Office of Oil & Gas
WV Dept. of Environmental Protection
Phone: 304-926-0499 ext. 1614

Hello Jeff,

This letter serves as an ADDENDUM to PAGE WW-2B in our permit application for DRILCO 2018 1H. I have also included a copy of WW-2B, and a WELL RECORD for API 47-085-02447.

- 1) We are proposing a "course of action plan" based on the potential that the new well under permit could fall within the 500' range of an existing, cemented well #API 47-085-02447.
- 2) The attached WELL RECORDS for #API 47-085-02447 indicate that there is an abundance of cement over the completion zone, that should offer sufficient zonal isolation, and cause no safety issues in regard to the proposed DRILCO 2018 1H well.
- 3) As an abundance of caution, we will closely monitor the frac process, and shut down if any issues are presented, and also avoid perforations in the closest zones.

If you have any questions, please feel free to discuss this action plan with me.

Sincerely,

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

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Office of Oil and Gas

FEB 20 2019

WV Department of
Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 18

Quadrangle Holbrook

Permit No. R19-2447

WELL RECORD

Oil or Gas Well Oil
(KIND)

Company Haveman Drilling Co.
 Address 4001 Jefferson St. Parkersburg, W. Va.
 Farm Harley Simmons Acres 133
 Location (waters) Big Run
 Well No. 1 Elev. 912
 District Union County Ritchie
 The surface of tract is owned in fee by Harley Simmons
Alburn, W. Va. Address _____
 Mineral rights are owned by J. A. Hall, Hoins
 Address Buckannon, W. Va.
 Drilling commenced 11-27-61
 Drilling completed 12-23-61
 Date Shot _____ From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ None Inch
 _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure No test lbs. _____ hrs.
 Oil Est. 5 Bbl. bbls., 1st 24 hrs.
 WELL ACIDIZED _____
 WELL FRACTURED Riverbank - 1-15-67

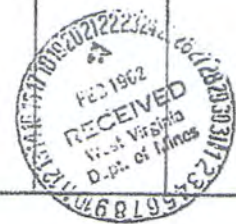
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
10			Kind of Packer
11	10	3	
10			Size of
8 1/2	350		
6 1/2	972		Depth set
5 3/16			
3 1/2"	2015	2015	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE 1 1/2 No. Ft. 2015 Date
1-3-62 30 sks. cement, 4 aquagel, 4 lime,
15 Harold LANSON
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT 15 Bbl. oil and 534 Gals
 ROCK PRESSURE AFTER TREATMENT 150 lbs. - 24 hrs.
 Fresh Water _____ Feet 55 ft. Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	10			
Gravel			10	18			
Slate			18	55			
Sand			55	65	Water	55	1 balloon every 2 hrs
Red Rock			65	80			
Lime			80	95			
Red Rock			95	125			
White Slate			125	165			
Red Rock			165	175			
Slate			175	198			
Red Rock			198	235			
Sand			235	260			
Slate			260	295			
Red Rock			295	355			
slate & shells			355	555			
Red Rock			555	650			
slate & shells			650	680			
Sand			680	910			
Slate			910	980			
Lime			980	1030			
slate & shells			1030	1066			
Sand			1066	1135			
Slate			1135	1162			
Sand			1162	1190			
Black slate			1190	1245			
Sand			1245	1295			
Slate			1295	1305			
Sand			1305	1320			

(over)



Formation	Color	Hard or Soft	Top / f	Bottom	Oil, Gas or Water	Depth Found	Remarks
Black Slate & Shells			1320	1620			
Sand			1620	1665	Show Gas	1630-1635	
Red Rock			1665	1710			
Slate			1710	1715			
Red Rock			1715	1760			
Lime			1760	1780			
Slate			1780	1790			
Lime			1790	1805			
Slate & Shells			1805	1825			
Lime			1825	1889	Show Gas	1850-1855	
Sand			1889	1940	Show Oil	1925-1935	
Lime			1940	1980			
Slate & Shells			1980	2032			

Date February 19, 1962

APPROVED Hargrett Drilling Co. Owner

By Don W. Hardman, Partner
(Title)

WW-2A
(Rev. 6-14)

1). Date: 12/31/2018
2.) Operator's Well Number DRILCO 2018 1H
State County Permit
3.) API Well No.: 47- 085 -

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: (a) Name SAMUEL/BARBARA KENSLE Address 1471 TOWNSHIP RD 51 E RUSHYLVANIA. OH 43347
(b) Name Address
(c) Name Address
5) (a) Coal Operator Name Address
(b) Coal Owner(s) with Declaration Name NONE Address
(c) Coal Lessee with Declaration Name NONE Address
6) Inspector MIKE GOFF Address Telephone 304-549-9823

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

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: RECEIVED

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

Office of Oil and Gas

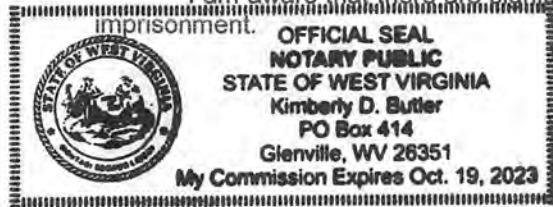
JAN 16 2019

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.

WV Department of Environmental Protection

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: [Signature]
Its: OPERATOR
Address: PO BOX 385 GRANTSVILLE, WV 26147
Telephone: 304-354-9516
Email: hugh@drilcooilgas.com

Subscribed and sworn before me this 31 day of December, DD OIL CO

Notary Public

My Commission Expires 10/19/2023

Oil and Gas Privacy Notice

WW-2A Surface Waiver
(4/16)

SURFACE OWNER WAIVER

County 085

Operator DD OIL CO
Operator well number DRILCO 2018 1H

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.

Sam Kensler
Signature

Date 12/31/2018

Company Name DD OIL CO.
By HUGH D DALE Date 12/31/2018
Its

SAMUEL KENSLER

Print Name

RECEIVED
Office of Oil and Gas

JAN 30 2019

**WV Department of
Environmental Protection**

Hugh D Dale Jr 12/31/2018
Signature Date

03/08/2019

WW-2A1
(Rev. 1/11)Operator's Well Number DRILCO 2018 1H

**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	1/8	02/463
	Purchased by Drilco Oil + Gas Corp March 1995 Ritchie County Book 122 Page 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-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County 047-085
Operator DD OIL CO.

Operator's Well Number DRILCO 2018 1H

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

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
Its _____
Date _____

Signature
Date 12/31/2018

RECEIVED
Office of Oil and Gas

JAN 16 2019

WV Department of
Environmental Protection

03/08/2019

WW-2B1
(5-12)

Well No. DRILCO 2018 1H

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 2,000 FT
Sampling Contractor _____

Well Operator DD OIL CO
Address PO BOX 385
GRANTSVILLE, WV 26147
Telephone 304-354-9516

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
JAN 16 2019

03/08/2019

WW-9
(5/16)

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

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: FRESH WATER AND DRILL CUTTINGS

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20

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 _____)

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 / FOAM

-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. LEAVE IN PIT

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) LIME AND SAWDUST

-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.

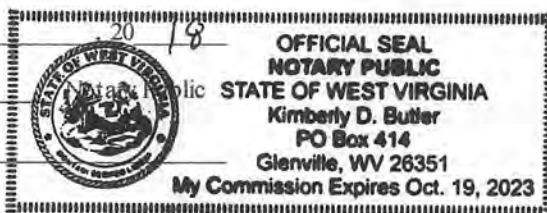
Company Official Signature [Signature]
Company Official (Typed Name) HUGH D DALE
Company Official Title MANAGING MEMBER LLC

JAN 16 2019

WV Department of Environmental Protection

Subscribed and sworn before me this 31 day of December

Kimberly D Butler
My commission expires 10/19/2023



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

CONTRACTORS MIX 40 LB

CONTRACTORS MIX 40 LB

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 Gaff

Comments: Preseed & mulch any disturbed areas.

RECEIVED
Office of Oil and Gas

JAN 16 2019

WV Department of
Environmental Protection

Title: Oil & Gas Inspector Date: 01/10/2019

Field Reviewed? () Yes () No

No groundwater issues known.
Closest water well is MORE THAN 2,000 feet away.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.


Drilling contractor is directed to only use pit(s) as necessary.

Before any discharge, all fluids in pit will be tested prior to land application (pit treating company). Fluids may be hauled to oil well.

Solids will be left in pit and buried on site.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Inspections will occur daily during drilling process, and on weekly basis until pit closure.

Signature: 

Date: 12/31/2018

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Office of Oil and Gas

JAN 16 2019

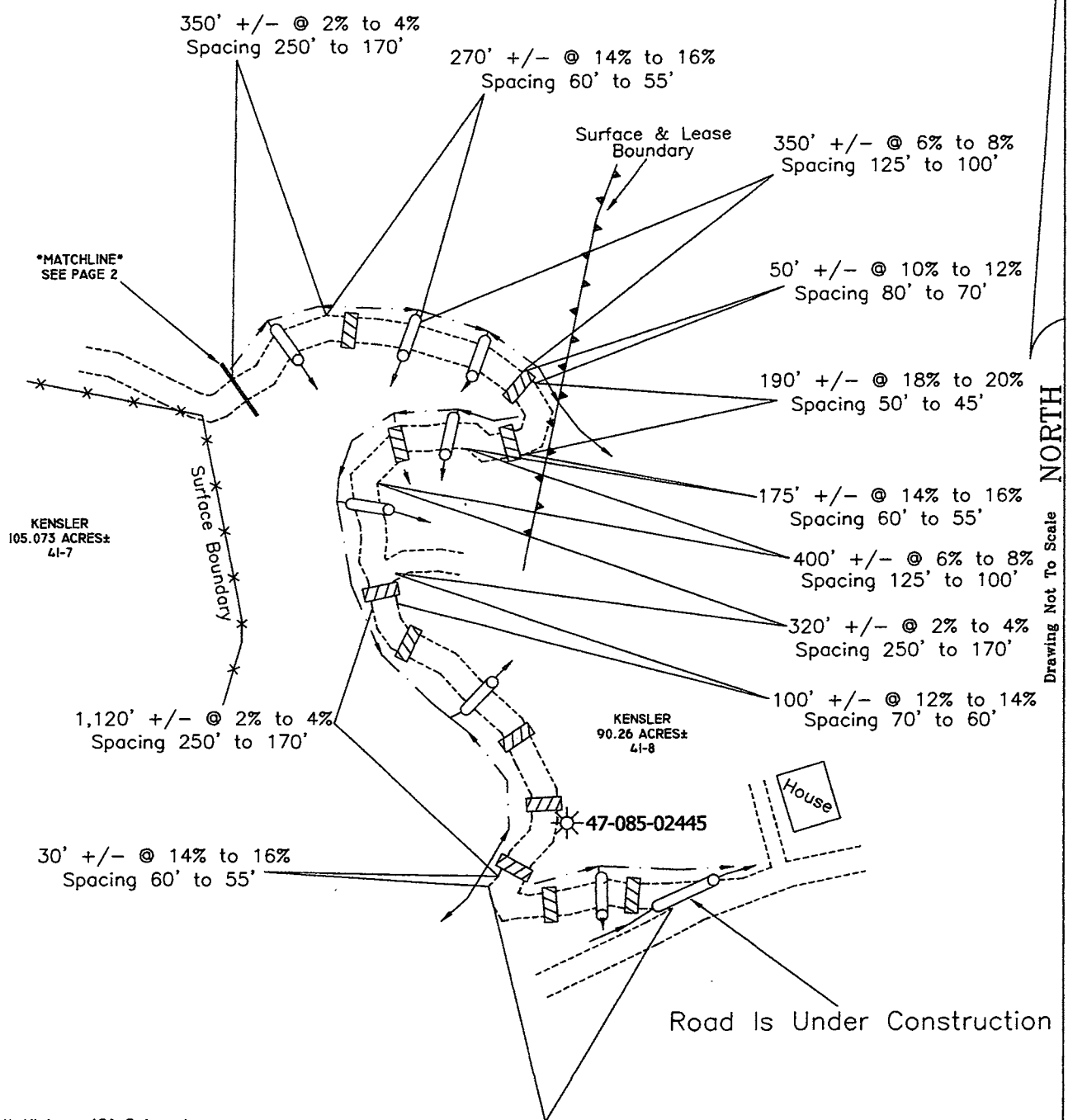
WV Department of
Environmental Protection



D D OIL COMPANY DRILCO 2018 #1H PAD 1

Form W-9

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, OIL AND GAS IMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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, OIL AND GAS IMP MANUAL. FIELD CONDITIONS OVER OUTCROPPS AND BEDROCK MAY PROHIBIT DILET 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.

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JAN 16 2019

WV Department of
Environmental Protection
Job Number:

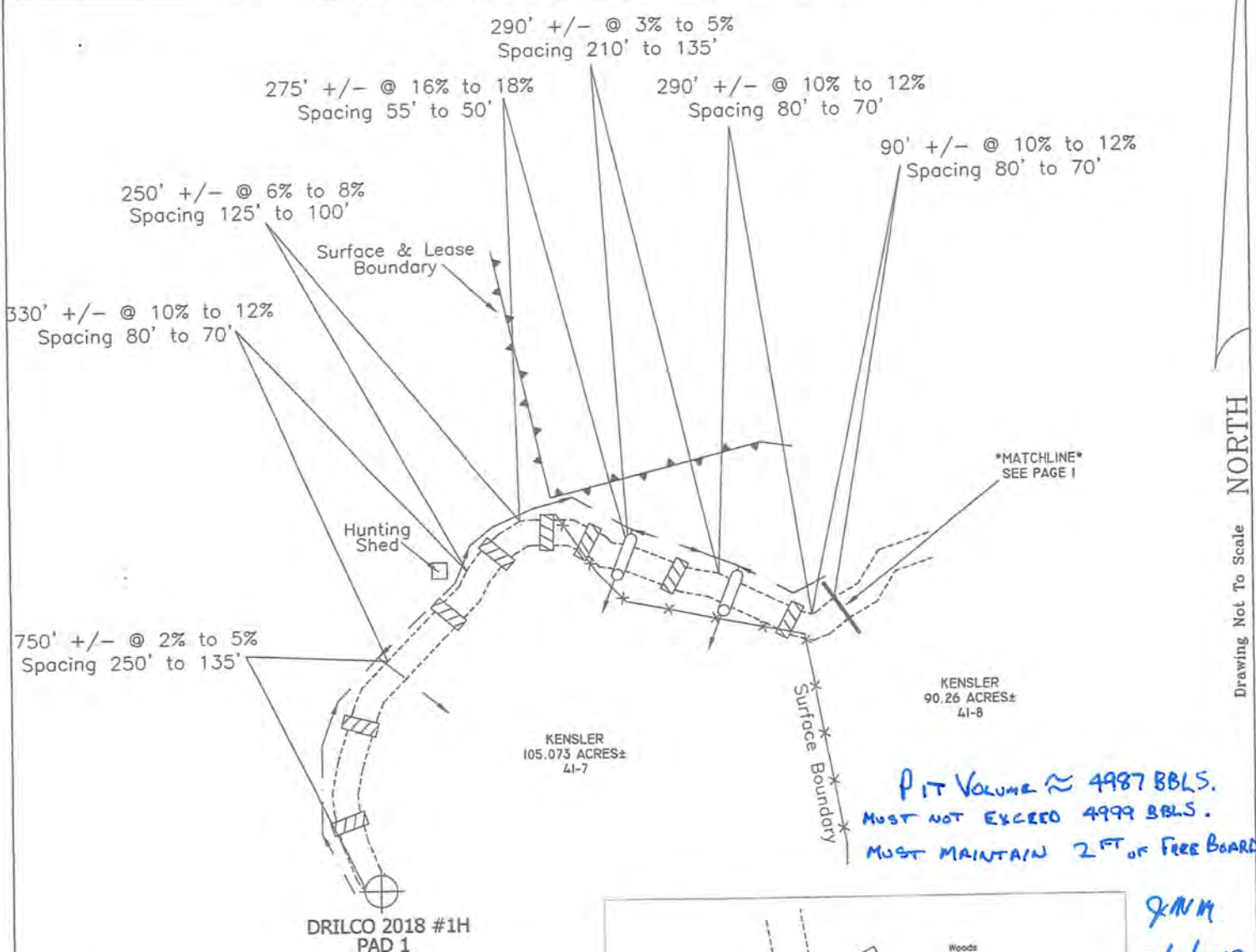
HUPP Surveying & Mapping P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net	Drafted BY:	Date Drafted:	Job Number:
	DB	12/26/18	W20182606

MDC
1/10/19

DD OIL COMPANY DRILCO 2018 #1H PAD 1

Form W-9

Page 2 of 2



PIT VOLUME ≈ 4987 BBLs.
 MUST NOT EXCEED 4999 BBLs.
 MUST MAINTAIN 2 FT OF FREE BOARD

Road Is Under Construction

○ Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP. OIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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. OIL AND GAS BMP MANUAL. FIELD CONDITIONS, ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

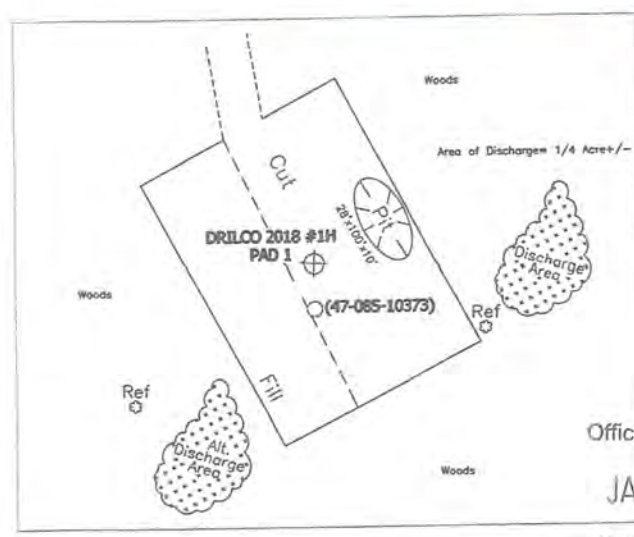
EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

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.



JMM
 2/21/2019

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 JAN 16 2019

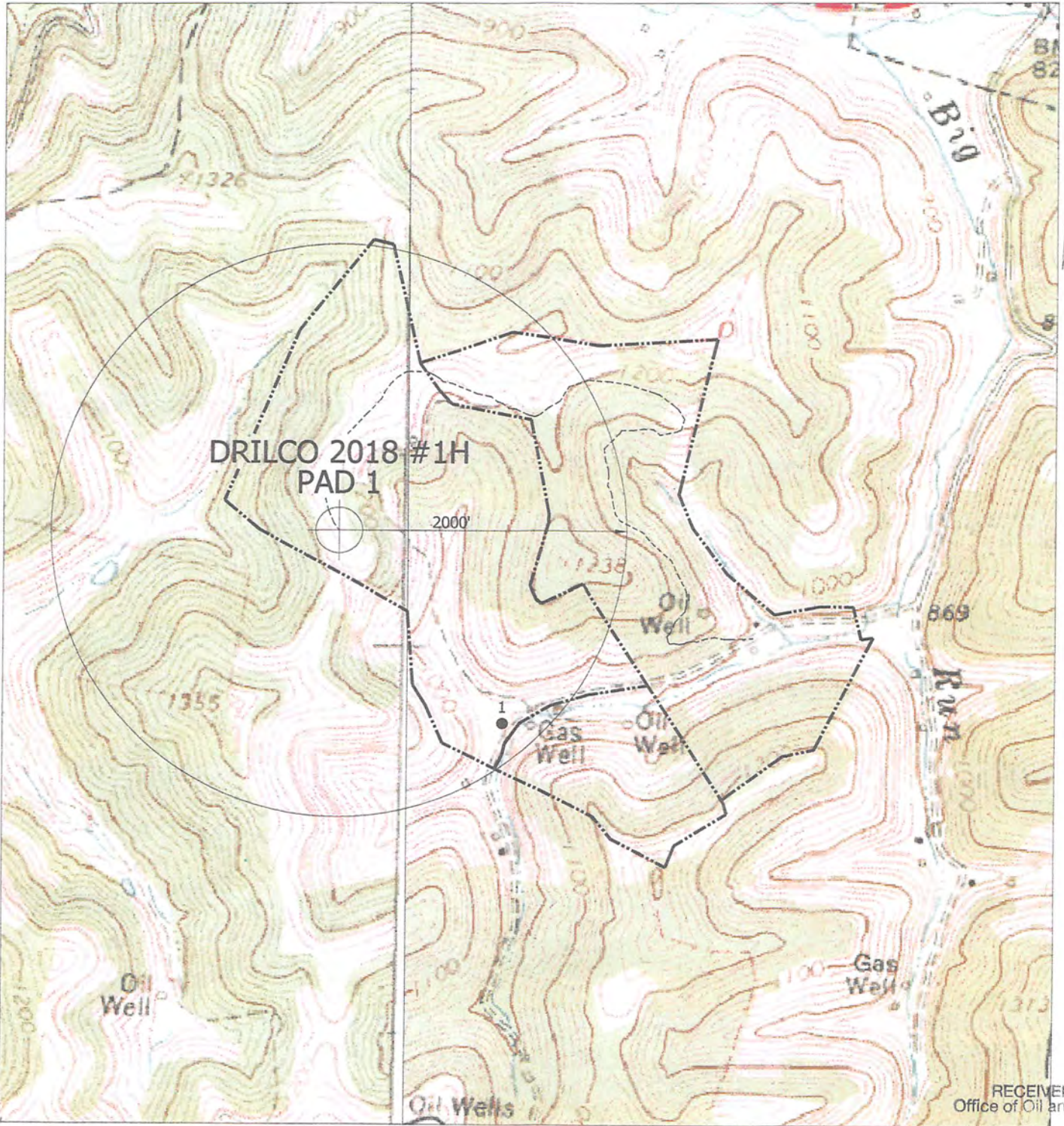
WV Department of Environmental Protection

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	DB	12/26/18	W20182606

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 1/10/19

Drawing Not To Scale NORTH

D D OIL COMPANY DRILCO 2018 #1H PAD 1 WATER



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PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'

BURNT HOUSE Quad

D D OIL COMPANY WV Department of
P.O. BOX 382 Environmental Protection
GRANTSVILLE, WV 26147

MAG
1/10/19

DRILCO 2018 #1H PAD 1

39°07'30"

LONGITUDE 80°52'30"

14,320'

LAT. 39°05'08.0"

DRILCO 2018 #1H PAD 1 SURFACE HOLE

STATE PLANE COORDINATES (NORTH ZONE-NAD 27)
(N) 216263
(E) 1609283

L & L DECIMAL (NAD 27)
39.08555
80.87646

UTM (NAD 83) METERS
4326287
510699

DRILCO 2018 #1H PAD 1 LANDING POINT

STATE PLANE COORDINATES (NORTH ZONE-NAD 27)
(N) 215863
(E) 1609730

L & L DECIMAL (NAD 27)
39.08447
80.87486

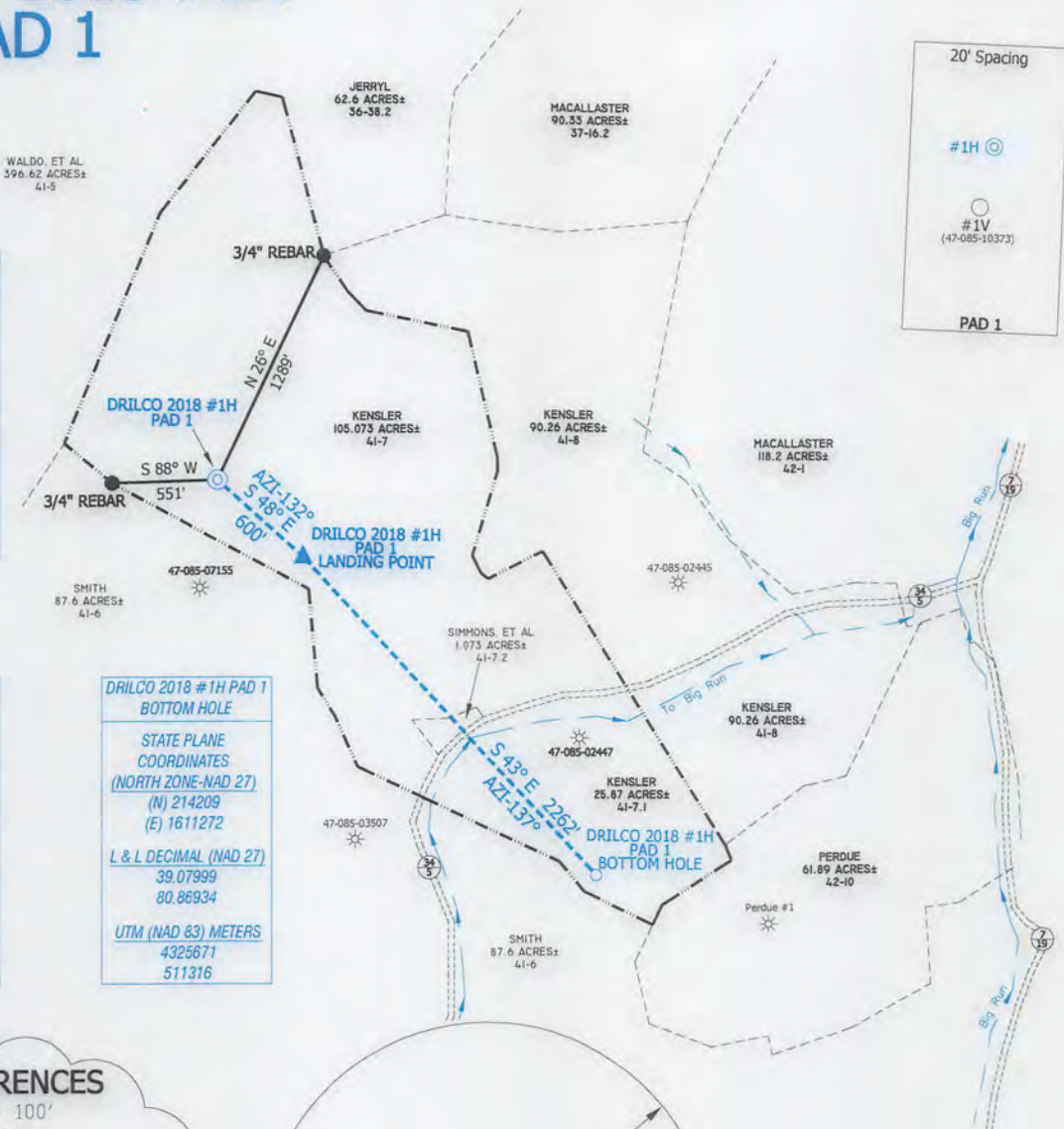
UTM (NAD 83) METERS
4326167
510838

DRILCO 2018 #1H PAD 1 BOTTOM HOLE

STATE PLANE COORDINATES (NORTH ZONE-NAD 27)
(N) 214209
(E) 1611272

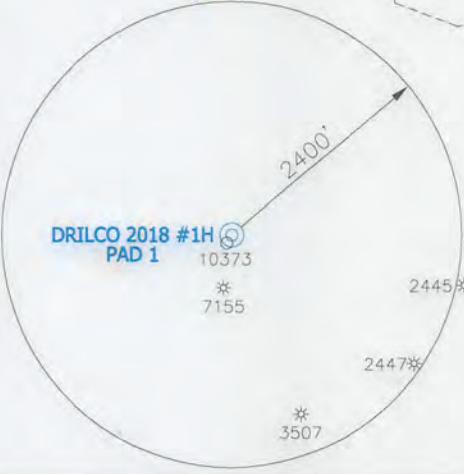
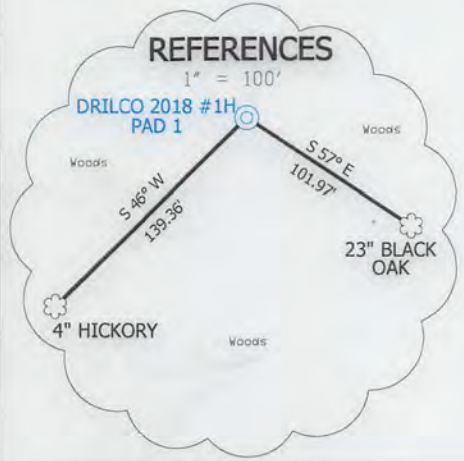
L & L DECIMAL (NAD 27)
39.07999
80.86934

UTM (NAD 83) METERS
4326671
511316



03/08/2019

NORTH



- NOTES ON SURVEY**
1. NO DWELLINGS WITHIN 625' WERE FOUND.
 2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WY NORTH ZONE NAD '27.
 3. WELL LAT./LONG. ESTABLISHED BY DGPS (SUB-METER GRADE).
 4. 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.
 5. 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 DECEMBER 26, 20 18

OPERATORS WELL NO. DRILCO 2018 #1H PAD 1

API WELL NO. 47-085-10386H

STATE STATE COUNTY COUNTY PERMIT PERMIT

P.S. 834

Doyle Hupp, Jr.

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" = 1000'

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 KENSLE 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 BIG INJUN
ESTIMATED DEPTH TVD-2000' MD-4,870'

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

COUNTY NAME PERMIT