

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, May 17, 2019 PERMIT MODIFICATION APPROVAL Horizontal / New Drill

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

SPENCER, WV 252760406

Re: Permit Modification Approval for DRILCO 2018 1H

47-085-10386-00-00

CHANGE TARGET FORMATION FROM INJUN SANDSTONE TO WEIR SANDSTONE AND MODIFY THE CASING PROGRAM TO ACCOMODATE THIS CHANGE

DALE, DAVID DBA DD OIL COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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 KENSLER

U.S. WELL NUMBER: 47-085-10386-00-00

Horizontal New Drill

Date Modification Issued: 05/17/2019

Promoting a healthy environment.

WW - 2B (Rev. 8/10)

MAY 1 6 2019

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

1) Well Operato	r: DD O	IL CO.		1H	RITCHIE	UNION	BURNTHOUSE
	DA	LE. DAV	ID DD OIL CO.	Operator ID	County	District	Quadrangle
2) Operator's W	ell Numb	er: DRIL	CO 2018 1H		3) Elevation:	1245	_
4) Well Type: (a	a) Oil_X	or Ga	as X				
(b) If Gas:	Produ	iction X / Und	derground Sto	orage		
		Deep	p/ S	Shallow X			
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	tal Depth fresh wa	: 5450 (245) ter strata	: WEIR SANDS 0 + 3000h) Feet a depths: NONE :: NONE	TONE Formation at I	Proposed Tar Proposed Tota	al Depth: We	EIR 2,450
9) Approximate	coal sea	m depth	s: NONE				Michael 1
10) Approximat	e void de	pths,(co	al, Karst, other):	NONE			5/16/
11) Does land o	contain co	oal seam	s tributary to act	tive mine?	NONE		
	-		nd fracturing meth			al sheets if ne	eeded)
			ECTIONAL DRILLI				OOT
ATERAL DRILL	IN THE	WEIR F	ORMATION WI	THESTIMATE	ED 10-STAGE	FRAC	
13)		CA	ASING AND TU	BING PROGR	RAM		
TYPE S	PECIFIC	ATIONS		FOOTAGE	INTERVALS	CEME	NT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	<u>ı. Ft.)</u>
Conductor	20	H40	94LB	40FT	40FT	CT	S
Fresh Water	13 3/8	J55	54.5	400FT	400FT	CT	S
Coal	NONE						
Intermediate	9 5/8	H40	36LB	1700FT	1700FT	CT	S
Production	4 1/2	N80	13.3 LB	5450FT	5450FT	СТ	S
Tubing	NONE						
Liners	NONE						
	s: NONI	E			Tal		

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
DRIICO OIL & GAS CORP	DD OIL CO	1/8	BOOK 122
(Hardman Drilling purchased by	PO BOX 406		PAGE 50
DRILCO OIL & GAS CORP)	SPENCER, WV 25276		
March 1995			
Ritchie County	(see attached Farm Out Assignment)		

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 a cknowledges 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

he applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or jullifies the need for other permits/approvals that may be nec essary and further affirms that all needed ermits/approvals should be ac quired from the appr opriate aut hority before the affected activity is nitiated.

> Well Operator: By:Its:

DD OIL CO HUGH D DALE

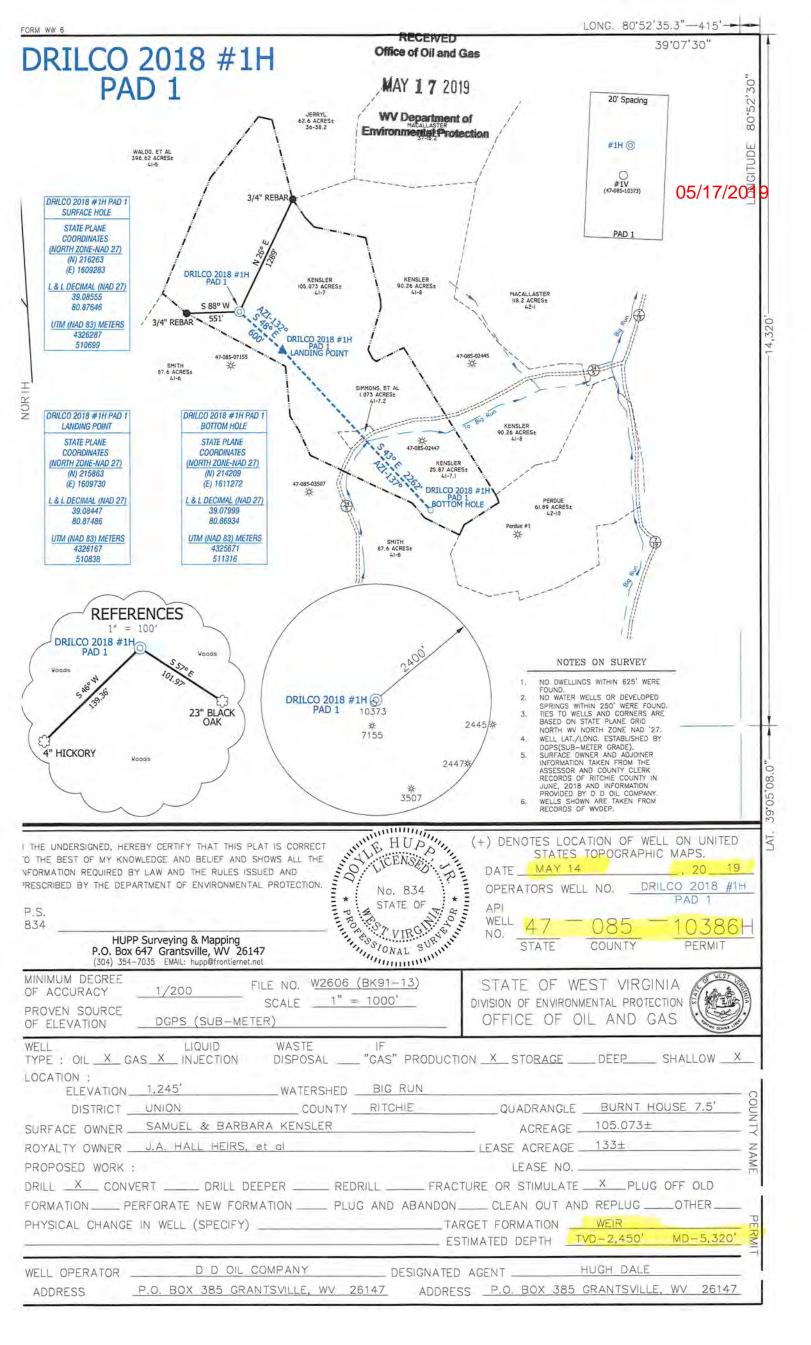
OPERATOR

RECEIVED Office of Oil and Gas

FARM OUT ASSIGNMENT 47 0 8 5 0 1/07 3 8 6 H

MANY T & 2010

Environme ntal Protection	
State of West Virginia	Record and Return to:
County of	DRILCO OIL & GAS, INC
county of	P.O. Box 385,
	Grantsville, West Virginia, 26147
chief executive offices are located at 2021 Calhoun Hwy, Grantsville, consideration of Ten Dollars (\$10.00) in hand paid and other good at hereby acknowledged, does hereby grant, convey, sell, assign, transfiginia limited liability corporation, with its offices located at 2021 Callerty as defined below, as the Property covers and pertains directly to GAS INCORPORATED ONLY OF THE [INSERT WELL NAME] HARD from a surface location on [INSERT SURFACE LOCATION] by [INSERT MINERAL NAME] HARDMAN DRILLING (PURCH scribed below (collectively, the "Lease(s)"), and all production of oil,	fer and set over unto Drilco 2018 1H Drilling Program LLC, a West Virtoun Hwy, Grantsville, West Virginia 26147, ("Assignee"), the Proposition of the WELLBORE, AS DEFINED BELOW, AND LAID OUT IN DRILCO OIL & MAN DRILLING (PURCHASED BY DRILCO OIL & GASWell, (the "Well") DRILCO OIL & GAS leased to Assignor ASED BY DRILCO OIL & GAS under the lease(s) degas, and other minerals from the Wellbore, penetrated by the drill f Assignor's right, title, and interest in the property otherwise relating
leum hydrocarbons; (c) all of the oil, gas, and/or minerals produced from the surface including with limitation presently existing oil, and bore; TO HAVE AND TO HOLD the same unto the same terms and presently assume insofar as same are applicable to the interest herby as HALL LEASE. This Assignment is being entered into and pursuan	rface with the wellbore in search of oil, natural gas, and other petro- from the well so long as its total depth is no deeper than 6,000 feet casinghead gas, natural gas and /or other hydrocarbons in the well- rovisions contained in said leases, contracts and assignments relating dies and agencies having jurisdiction thereof, all of which Assignees ssigned, The term "Leases(s)" means DRILCO OIL & GAS CORP/ADA
in that certain DRILCO OIL & GAS INCORPORATED by and between A MARCH 1995 . This Assignment is mad as covenants running with the respective Leases and rights assigned assigns of Assignor and Assignee.	Assignor and Assignee dated as of [INSERT AGREEMENT DATE] e without warranty of title. The provisions hereof shall be construed hereunder, and shall be binding upon the respective successors and
ASSIGNOR: DRILCO OIL & GAS, INC	ASSIGNEE:
Federal ID #: 83-2371247	Address:
Physical Address: 2021 Calhoun Hwy, Grantsville WV 26147	
By:	DD OIL COMPANY
By: Hugh D. Dale, Managing Partner	PO BOX 406
By: Hugh D. Dale, Managing Partner	
Hugh D. Dale, Managing Partner NOTARY ACKNOWLEDGEMENT	PO BOX 406
Hugh D. Dale, Managing Partner	PO BOX 406
Hugh D. Dale, Managing Partner NOTARY ACKNOWLEDGEMENT	PO BOX 406
Hugh D. Dale, Managing Partner NOTARY ACKNOWLEDGEMENT State of WV, COUNTY OF	PO BOX 406 SPENCER, WV 25276 55-0765849
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

 Well Operator 	or: DD O	IL CO.		1H	RITCHIE	UNION	BURNT HOUSE
	DAL	E, DAV	וט טט טוג עט	Operator ID	County	District	Quadrangle
2) Operator's V	Vell Numb	er: DRIL	CO 2018 1H		3) Elevation:	1245	-
1) Well Type: (a) Oil_x	or Ga	as x				
(1	b) If Gas:	Produ	iction X / Un	derground Sto	rage		
		Dee	0/ 8	Shallow X			
6) Proposed To	otal Depth fresh wa	: 5200 (2200 ter strata	BIG INJUN SAN V+3000H) Feet a depths: NONE			al Depth: N	
9) Approximate	coal sea	m depth	s: NONE				Michael
				NONE			1/10/
IU) Approxima	te voia de	ptns,(co	al, Karst, other):	NONE			
11) Does land	contain co	al seam	s tributary to ac	tive mine?	NONE		
12) Describe pro	posed we	ll work ar	nd fracturing meth	nods in detail (a	attach additiona	al sheets if ne	eded)
			2,200 FT TO INJUI				DENDOM 1
			0-DEGREE HORIZ				RECEIVED Office of Oil and G
HEN DRILL HOR	IZONTAL I	N INJUN	SAND FOR UP TO	3,000 WITH A 1	0-STAGE FRAC	D	JAN 1 6 201
13)		CA	SING AND TU	BING PROGR	RAM		
TYPE S	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	S CEME	Nijonmental Prote
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	<u>ı. Ft.)</u>
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Fresh Water	13 3/8	J55	54.5 LB	400 FT	400 FT	CTS	S
Coal	NONE						
Intermediate	9 5/8	H40	36 LB	1600 FT	1600 FT	CTS	S
Production	4 1/2	N80	13.3 LB	5200 FT	5200 FT	CTS	S
Tubing	NONE						
Liners	NONE						
	d: NONE es: NONE ths Set						

