

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, May 24, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 824403 47-045-01380-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 824403

Farm Name: CONLEY, HAZEL, ETAL

U.S. WELL NUMBER: 47-045-01380-00-00

Vertical Plugging
Date Issued: 5/24/2021

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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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B Rev. 2/01

1) Date April 15	, 2021
2)Operator's	
Well No. 824403	
3)API Well No.	47-045 01380

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

	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liqui	d injection / Waste disposal /
- I		derground storage) Deep/ ShallowX
5)	Location: Elevation 1,204.6 ft	Watershed Brushy Fork of Crawley Creek
0 /	District Guyan	County Logan Quadrangle Chapmanville
6)	Well Operator Diversified Production LLC	7) Designated Agent Jeff Mast
r	Address P.O. Box 6070	Address P.O. Box 6070
	Charleston, WV 25362	Charleston, WV 25362
8)	Oil and Gas Inspector to be notified Name Terry Urban	Name Diversified Production LLC (In-house Rig)
	Address P.O. Box 1207	Address 1951 Pleasantview Ridge Road
	Clendenin, WV 25045	Ravenswood, WV 26164
	See Att Derator to Count Formation, Elventur, Cont, Wa W/o Cel, Pull	ached 2 All Perfs, Dilibas blain Lee Formation with Cut Displain All Csq Not Cenut IN RECEIVED Office of Oil and Gas
		Office of Oil and Gas APR 2 0 2021 WV Department of Environmental Protection

PLUGGING PROGNOSIS

API # 47-045-01380 Logan County, West Virginia 37.9220043384433, -82.0752164932344

Nearest Emergency Room: Logan Regional Medical Center: 20 Hospital Drive, Logan, WV 25601

Casing Schedule

13 3/8" csg @ 20'
9 5/8"csg @ 351' CTS w/159 CFT
7" csg @ 1626' CTS w/324 CFT
4 ½" csg @ 3839' w/ 304 CFT TOC @ 1112' CBL
2 3/8" tbg @3630'
TD @ 3890'

Completion: Frac

Devonian Shale: 49H/3149'-3660'

Fresh Water: 99'
Salt Water: 1190'
Gas Shows: 3149'-3660'
Oil Shows: None Reported

Coal: 93' Elevation: 1202'

- 1. Prepare road and location.
- 2. MIRU service rig and support equipment.
- 3. Record PSI on csg/tbg.
- 4. RIH w/ wireline. Check TD.
- 5. TOOH LD tbg. Inspect.
- 6. TIH w/ tbg to 3660'. Load well as needed w/ 6% bentonite gel. Pump 611' C1A cement plug from 3660'-3049' (Shale Gas Show). Check TOC. Top off as needed.
- 7. TOOH w/ tbg to 3249. Pump 6% bentonite gel from 3049' 1240'
- 8. TOOH w/ tbg to 1240". Pump 138' C1A cement plug from 1240'-1102' (Salt water and elevation).
- 9. TOOH w/ tbg to 1102'. Pump 6% bentonite gel from 1102'-150'. TOOH LD tbg.
- 10. Free Point 4 ½" csg. Cut and TOOH. Pump 100' C1A cement plug across cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
- 11. TIH w/ tbg to 150'. Pump 150' C1A cement plug from 150'-0' (Freshwater, Coal, and Surface). TOOH LD
- 12. Erect monument with API#, date plugged, and company name.

13. Reclaim location and road to WV-DEP specifications.

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Office of Oil and Gas

APR 2 0 2021

WV Department of Environmental Protection

See WW-4B Aywllh 10.419.21

DATE: 2/14/00

API #:47-45-01380

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Farm name: Conley, Hazel, et al

Location Elevation: 1,2021

District:Guvan

Operator Well No: 824403

Ouadrangle:

Chapmanville

County:

Logan

COLUMBIA NATURAL RESOURCES	Casing & Tubing	Used in drilling	Left in Well	Cement fill up Cu.Ft.
Address: P. O. Box 6070				
Charleston, WV 25362-0070	13 3/8"		20	N/A
Agent: W. A. Watson, Jr.				
Inspector: Ofie Helmick	9 5/8"		351	159.3
Date Permit Issued: 01/14/00				
Date Well work commenced: 12/20/00	7"		1,626.40	324.55
Date Well Work completed: 01/22/01				
Verbal Plugging:	4 1/2"		3,839	304
Date Permission granted on:	***		1.	
Rotary Cable Rig				
Total Depth (feet):3,890'				
Fresh Water Depth (ft):99'				
Salt Water Depth (ft.):1,190'				1
Is coal being mined in area (NX Y)				FEDOR
Coal Depths (ft): 93' - 99'				j
				Protection (

OPEN FLOW DATA

Producing formation: Devonian Shale Pay zone depth(ft) from 3,149' to 3,660'; from

Gas: Initial open flow

MCF/d Oil: Initial open flow

Bbl/d

Final open flow 304 MCF/d Final open flow

Bbl/d

Time of open flow between initial and final tests 72 Hours

Static rock Pressure 323 psig (surface pressure) after 96 Hours

2nd producing formation:

Pay zone depth (ft) from

; from

Gas: Initial open flow

MCF/d Oil: Initial open flow

Bbl/d

Final open flow

MCF/d Final open flow

Bbl/d

Time of open flow between initial and final tests

Hours

Static rock Pressure

psig (surface pressure) after

Hours

3rd producing formation:

Pay zone depth (ft) from

; from

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Gas: Initial open flow

MCF/d Oil: Initial open flow

Bbl/d

Office of Oil and Gas

Final open flow Time of open flow between initial and final tests

MCF/d Final open flow

Bbl/d

Hours

APR 2 0 2021

to

to

Static rock Pressure

psig (surface pressure) after

Hours

WV Department of **Environmental Protection**

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS,

INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

WELL # 824403

Additional Comments:

PERFORATIONS:			
Stage I, Perforations: 49 ho	eles from 3,149' to	3,660'	
Stage 2, Perforations:	holes from	to	
Stage 3 Perforations:	holes from	to	
Stage 4, Perforations:	holes from	to	
FRACTURING:			
1 st ST	AGE: N2 FRAC ON DEVO	NIAN SHALE	
Perforations from 3 Breakdown @ 2,010 ATP 2,532 PSI, Total N ₂ 1,500,000 Sc	5,149 - 3,660', Acid 2) PSI, Avg. Rate 52,59 20 Bbl., 21 cf. I.S.I.P. 2,780	gal. H 5 SCFM ⊠ OR BF Total sand 15 min. 725	ICL, PM — #
2 nd S	TAGE:		
Perforations from Breakdown @ PSI, Ave ATP PSI, Total I Total N ₂ Scf.	H ₂ 0 Bbl., 10tal I.S.I.P. 15	BPM # # min.	FEB 2.2 2791
Perforations from Breakdown @	PSI, Avg. Rate	id gal. SCFM OR Total sand 15 min.	BLM [
4 th S	STAGE:		
Perforations from Breakdown @ ATP PSI, Total N ₂ Scf.	PSI, Avg. Rate Total H ₂ 0 Bbl. I.S.I.P.	SCFM OR	HCL, Office of Oil and Gas # APR 2 0 7021 WV Department of Environmental Protection

WEI	I.	DA	TA	SHEET

well name CocomBIA FEE
operator CNR

	. WELL NO.	824403 STATE	PERM	GEOLOGIST Vim Templin
COUNTY_ TWP	GUYAN	STATE_	w	GEOLOGIST Vim Templing

FED 22 7771

WV Continued

From the state of the state of

FORMATION TOPS & BOTTOMS

SACT SAND 674-141 Arregin 3186-200.

MAXON 1321-1362

LIME UNE 1526-1566

BIG TONN 1800- 1836

BUF TONN 1800- 1836

Liken 234-2320

U. Deprim 2320-3338

L. Herry 3326-2600

BUF 3660-3184

LOGS RUN

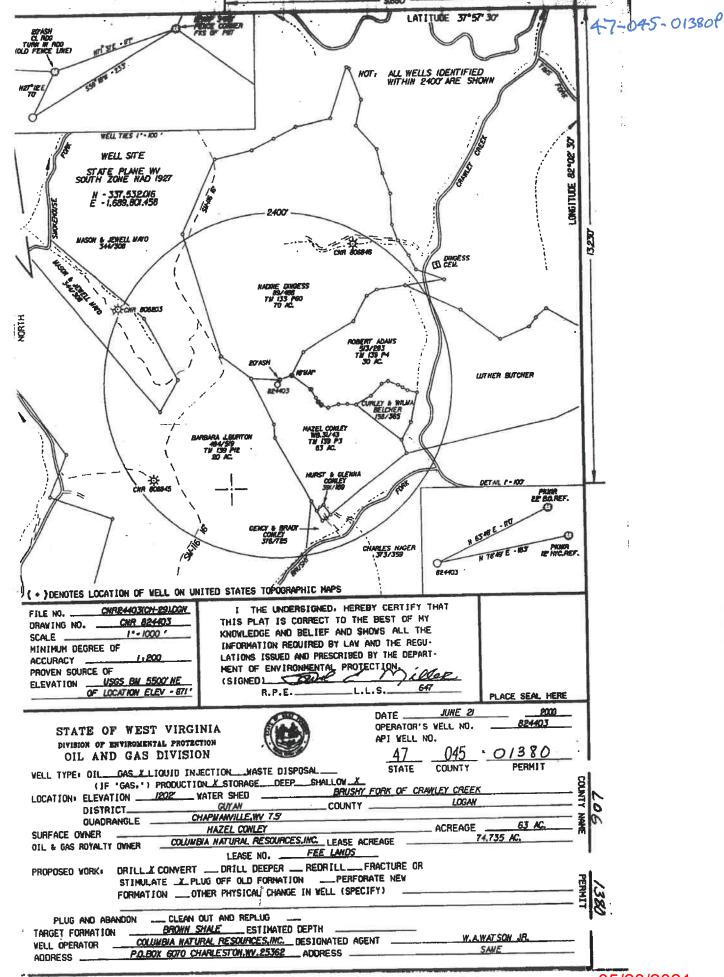
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Office of Oil and Gas

APR 2 0 2021

WV Department of Environmental Protection

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05/28/202**%**



WW-4A Revised 6-07

1)	Date:	April 15, 2021			
2)	Operator's '824403	Well Number			
9)	ADI Wali M	. 47	045	01380	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

	ner(s) to be served:	5) (a) Coal Operator		
(a) Name	Curly and Wilma Belcher	Name		
Address	P.O. Box 1545	Address		
	Chapmanville, WV 25508			
(b) Name	•	(b) Coal Own	ner(s) with Declaration	
Address		Name	Southern Regional Development	
	· 	Address	3 Commercial Drive	
			Norfolk, VA 23510	
(c) Name		Name		
Address	-	Address		
6) Inspector	Terry Urban	(c) Coal Less	eee with Declaration	
Address	P.O. Box 1207	Name	Boone West Development	
	Clendenin, WV 25045	Address	P.O. Box 1867	
Telephone	304-549-5915		Charleston, WV 25327	
	,	*		

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat 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 Chief.

					_
		OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A. Copley 144 Wilard Circle Humcure, WV 25526	Well Operator By: Its: Address	Diversified Production, LLC Jeff Mast Director Production P.O. Box 6070	
ł	My C	ommission Expires September 16, 2023		Charleston, WV 25362	
ŀ		*****************	Telephone	304-543-6988	

RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 15

y of april,

APR 2 0 2021

My Commission Expires

Seplember 16, 2028

Notary Public

WV Department of Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficr@wv.gov.

U.S. Postal Service" CERTIFIED MAIL® RECEIPT Domestic Mail Only 114 824403 47-047-01380 Charleston: WW 2532 Certified Mail Fee 0523 \$3.60 H 01 \$2.85 xtra Services & Fees (check box, Return Receipt (hardcopy) П \$0.00 Return Receipt (electronic) **Postmark** Certified Mail Restricted Delivery \$0.00 Here Adult Signature Required \$0.00 Adult Signature Restricted Delivery \$ 20 Postage \$1.60 04/15/2021 Total Postage and Fees \$8.05 824403 7017 Boone West P. D. BOX 186 25377 Charleston, WV U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only Charmany Lile, WV 25508 54 Certified Mail Fee 0523 \$3.60 200 Extra Services & Fees (check box, add for a street 01 ПЦ **Postmark** Return Receipt (electronic) \$-\$0.00 Here Certified Mail Restricted Delivery \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted Delivery \$ 20 Postage \$1.40 04/15/2021 Total Postage and Fees \$7.85 824403 7017 orly + Wilma BOX 1545 hapmanuille WY 25508 U.S. Postal Service CERTIFIED MAIL® RECEIPT m Domestic Mail Only 306. For delivery information. Norfolk: VA 23510 m Certified Mail Fee \$3.60 0523 100 01 RECEIVED xtra Services & Fees (check box, \$0.00 Office of Oil and Gas Return Receipt (hardcopy) Postmark 000 \$0.00 Return Receipt (electronic) Here 40.00 Certified Mall Restricted Delivery APR 2 0 2021 Adult Signature Required \$0.00 Adult Signature Restricted Delive 밁 Postage WV Department of \$1.60 04/15/2021 **Environmental Protection** 뭐 824403 Development U 100 3 Commercial 23510 Norfolk

01380 API Number 47 - 045 Operator's Well No. 824403

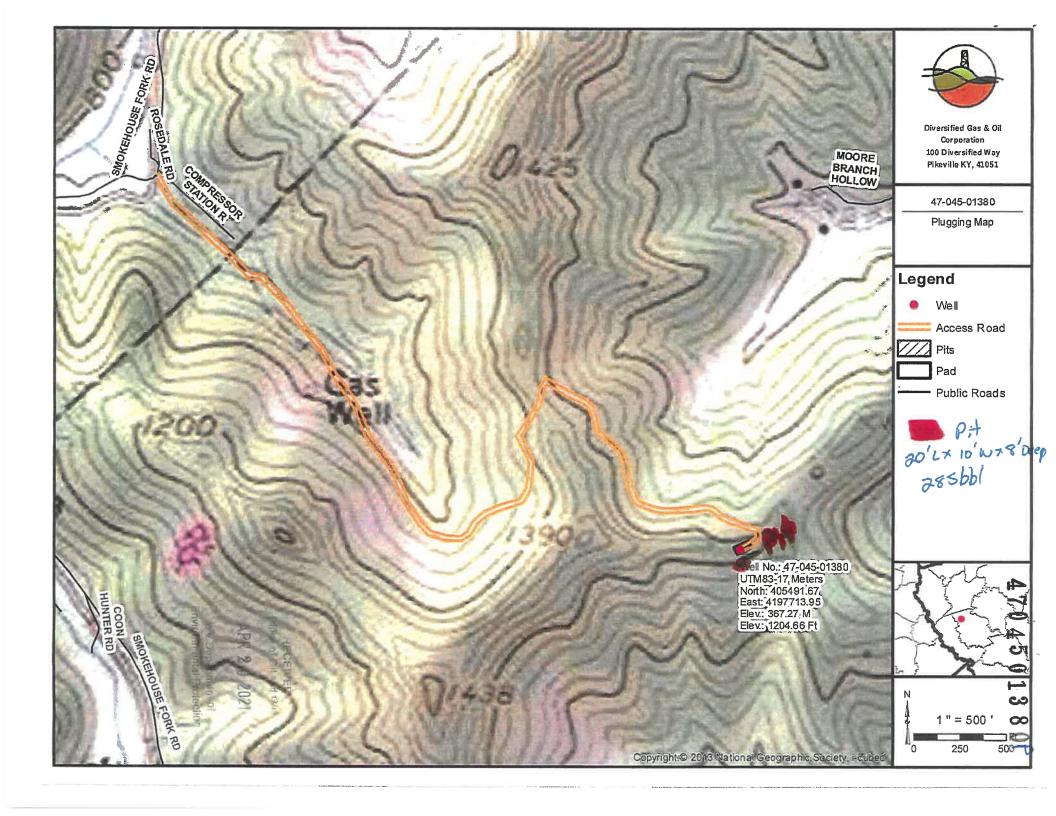
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Diversified Production LLC OP C	Code 494524121
Watershed (HUC 10) Brushy Fork of Crawley Creek Quadrangle Chapm	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well wo Will a pit be used? Yes No	
If so, please describe anticipated pit waste: Produced fluid and cement return	S
Will a synthetic liner be used in the pit? Yes V No If so, wh	at ml.?_20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WW Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) ■ Other (Explain All fluid recovered will be hauled to a Diversified),
Will closed loop systembe used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil	
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?	
Drill cuttings disposalmethod? Leave in pit, landfill, removed offsite, etc	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sa	
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cu West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	uttings or associated waste rejected at any tion and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENER on April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Env provisions of the permit are enforceable by law. Violations of any term or condition of to regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fam application form and all attachments thereto and that, based on my inquiry of those individe information, I believe that the information is true, accurate, and complete. I am submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Director Production	vironmental Protection. I understand that the inegeneral permit and/or other applicable law iliar with the information submitted on this viduals immediately responsible for obtaining aware that there are significant penalties for
Subscribed and sworn before me this 15th day of april Phyllis a. Copley	, 20 / RECEIVED Office of Oil and Gas
My commission expires September 16, 2023	APR 2 0 2021

WV Department of Environmental Protection 05/28/2021

Operator's Well No. 824403

Proposed Revegetation Trea	atment: Acres Disturbed 1+/-	Preveg etation pl	E
Lime 3	Tons/acre or to correct to p	H 6.5	
Fertilizer type	-20-20 or equivalent	2	
Fertilizer amount_		lbs/acre	
Mulch_2	Tons	s/acre	
	Se	eed Mixtures	
Т	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alside Clover	5
Annual Rye	15		
	olved 7.5' topographic sheet.		
lomments:			
2			
Title: June 1			Office of Oil and 5
	Uhh Ingle low	Date: 4-19-71	Office of Oil and 6



WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELL LOCATION	JN FURM: GPS		
_{API:} 47-045-01380	WELL NO.: 8	324403	_
FARM NAME: Conley Hazel Eta	al		- ;
RESPONSIBLE PARTY NAME: Diver	sified Producti	ion LLC	
COUNTY: Logan	_{DISTRICT:} Gu	yan	
QUADRANGLE: Chapmanville			
SURFACE OWNER: Curly & Wilm	a Belcher		=
ROYALTY OWNER: Diversified F	roduction LLC		er.
UTM GPS NORTHING: 4,197,713.	95		
UTM GPS EASTING: 405,491.67	GPS ELEVAT	1,204.6'	2
The Responsible Party named above has chospreparing a new well location plat for a plugg above well. The Office of Oil and Gas will not the following requirements: 1. Datum: NAD 1983, Zone: 17 Nor height above mean sea level (MSI 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed I	ring permit or assigned and accept GPS coordinate th, Coordinate Units: ma L) – meters.	API number on the es that do not meet	
Real-Time Diffe			RECEIVED
Mapping Grade GPS X : Post Processor	ed Differential		Office of Oil and Gas APR 2 0 2021
4. Letter size copy of the topograp I the undersigned, hereby certify this data is obelief and shows all the information required prescribed by the Office of Oil and Gas.	hy map showing the w correct to the best of my	knowledge and	WV Department of Environmental Protection
Signature	Title	Date	-