

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

September 27, 2013

WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-1304036, issued to PRIME OPERATING COMPANY, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: 1166

Farm Name: MACE, DEO. D.

API Well Number: 47-1304036

Permit Type: Re-Work Date Issued: 09/27/2013

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW - 2B Now (Rev. 8/10)

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

) Well Operato					Czlhou		474
	or: Prime	Operatir	ng Company	306837	013	Land American Control of the Control	Millstone
	0			Operator ID	County	District	Quadrangle
) Operator's V	Vell Numb	er: Hall 1	166		3) Elevation:	1175'	
) Well Type: (a	a) Oil	_ or Ga	sX				
(k	o) If Gas:	Produ	ction X / Une	derground Sto	rage	_	
		Deep	/ 8	Shallow X			
) Proposed Ta) Proposed To) Approximate) Approximate	otal Depth: fresh wat	: 5500' ter strata	depths: 340'	Formation at I	Proposed Tar Proposed Tota	get Depth: 550 al Depth: 5500	0'
) Approximate	coal sear	m depths	S: None				
				None			
0) Approximat	te voia aej	ptns,(coa	al, Karst, other):	None			-
1) Does land	contain co	al seam	s tributary to ac	tive mine? N	lo		
2) Describe pro	nosed we	ll work ar	nd fracturing meth	nods in detail (a	attach additiona	l sheets if need	ed)
			lower heron, gordon,				
rill out all frac plu	gs, run tubi	ng, rods a	nd turn well in prod	ducation.			
3)		CA	SING AND TU	BING PROGR	RAM .		
A series proceedings of the first	SPECIFICA	A		FOOTAGE	INTERVALS	CEMENT	
	Size	Grade	Weight per ft	For Drilling	Laft in Mall		
Conductor				1 or Brining	Left in Well	Fill -up (Cu. F	
				10. Dinning	Lett in vveii	Fill -up (Cu. F	
Fresh Water	9 5/8"	LS	38#	409'	409	Fill -up (Cu. F	<u></u>
	9 5/8"	LS	38#				<u></u>
Coal	9 5/8"	LS J-55	38#				E _{X1}
Coal Intermediate				409'	409	Surface	E _{X1}
Fresh Water Coal Intermediate Production Tubing	7"	J-55	20#	409'	409 2368.75'	Surface	E _{X1}
Coal Intermediate Production Tubing	7"	J-55	20#	409'	409 2368.75' 5500'	Surface Surface 3940'	E _{X 1}
Coal Intermediate Production Tubing Liners	7" 4 1/2"	J-55	20#	409'	409 2368.75' 5500'	Surface	E _{X1}
Coal Intermediate Production Tubing	7" 4 1/2" d:	J-55	20#	409'	409 2368.75' 5500'	Surface Surface 3940'	E _{X1}

9 WM

WR-35 Rev (9-11)

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

DATE:	09/09/2013	
API #:	47-013-04036	

ION: Elevation: 1175'	_ Quadrangle: _^	Millstone		
District: Sherman	County: Calho	un		
Latitude: 9758 Feet South of 38 Deg	g. 00 Min.	00 5	Sec.	
Longitude 6837 Feet West of 81 De	g. 00 Min.	00	Sec.	
Company: Prime Operating Company				
	Casing &	Used in	Left in well	Cement fill
Address: Charleston, WV	Tubing	drilling		up Cu. Ft.
Agent: Halsey M. Whitney				
Inspector: Eddy Gainer	9 5/8" LS/38#		409'	to Surface
Date Permit Issued: January 8, 1987				
Date Well Work Commenced: 02/20/1987	7" J55/20#		2368.75'	to Surface
Date Well Work Completed: 02/27/1987	2 3/8"			
Verbal Plugging:				
Date Permission granted on: 01/08/1987				
Rotary Cable Rig				
Total Vertical Depth (ft): 3404'				
Total Vertical Depth (1): 3404'				
Total Measured Depth (ft): 3404'				
Fresh Water Depth (ft.): 610' Salt Water Depth (ft.): 1800'				
Sait Water Depth (it.).				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.): none				
Void(s) encountered (N/Y) Depth(s) N				
EN FLOW DATA (If more than two producing forma	ations please inclu	de additiona	al data on separate	sheet)
	y zone depth (ft)		Reco	eived
Gas: Initial open flow 750 MCF/d Oil: Initial open		bl/d	1100	DIVOG
Final open flow MCF/d Final open f	lowBr	ol/d		W 10000
Time of open flow between initial and final tests_ Static rock Pressure 80 psig (surface pressure)			SEP 1	6 2013
static rock i ressurepsig (surface pressure	, unter			
	zone depth (ft)	- C		Oil and Gas
Gas: Initial open flowMCF/d Oil: Initial ope		bl/d	WV Dept. of Envir	onmental Protection
Final open flow MCF/d Final open f		ol/d		
Time of open flow between initial and final tests_				
Static rock Pressurepsig (surface pressure	afterHou	15		

09/27/2013

Were core samples taken? Yes	_No_X	Were cuttings caught during drilling? Yes X No
Were Electrical, Mechanical or Geoph	ysical logs recorded on this w	vell? If yes, please list_GR, Den, Neu, Ind
NOTE: IN THE AREA BELOV FRACTURING OR STIMULATIN DETAILED GEOLOGICAL REC COAL ENCOUNTERED BY THE	W PUT THE FOLLOWING, PHYSICAL CHANGE, CORD OF THE TOPS AN WELLBORE FROM SURF	NG: 1). DETAILS OF PERFORATED INTERVALS, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC ND BOTTOMS OF ALL FORMATIONS, INCLUDING
Perforated Intervals, Fracturing, or Sti	mulating:	
Nat/Open H		
Plug Back Details Including Plug Typ	e and Depth(s): none	
Formations Encountered: Surface:	Top Depth	n / Bottom Depth
Salt Sand	1905'	
Little Lime	2060'	
Big Lime	2080'	
Big Injun	2219'	
Sunbury SH	2557'	
Undiff Berea/Lo Huron	2600'	
Gordon	2747'	
Fifth Sand	3006'	
Cement Data:		Noot circulated to Surface
		Neat, circulated to Surface.
7" J-55 20# - 220 sx 50/50 w/500 # Gel @ 6% ahead, cir		followed by 115 sx Neat, 3" CaCl2, 1/4" Celloflake ice.
		SEP 1 6 2013

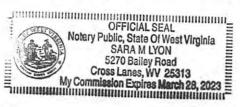
WW-	2A
(Rev.	6-07)

1). Date:	6/24/20	13			
2.) Operator	r's Well	Number	Hall 1166		
		State	County	Permit	
3.) API Wel	No.:	47-	013	- 04036	

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

	ner(s) to be served:		5) (a) Coal Op	erator	
(a) Name	Deo Mace	N	Name	n/a	
Address	2035 Sand Ridge		Address	-	
	Arnoldsburg, WV 25274		-		
(b) Name				wner(s) with	Declaration
Address			Name	n/a	
			Address		
				-	
(c) Name			Name		
Address	-		Address		
6) Inapactor	Ed Colors		(c) Coall	essee with D	eclaration
6) Inspector	Ed Gainer		_ (c) Coar Le		eciaration
Address	PO Box 821		_	n/a	
4.00	Spencer, WV 25276		Address	_	
Telephone	304-389-7582				
and the state of		PERSONS NAM			
Included is the OR	ne lease or leases or	other continuing	contract or contr	acts by which	I hold the right to extract oil and gas
I have re issued under this I certify this application footballing the info	ation plat, and accom Personal Service Certified Mail (Formation (Notation and understand Complication) Publication.	panying docume ce (Affidavit attact Postmarked postatice of Publication chapter 22-6 and that I have personants, and that based the information inficant penalties Well Operator By: Its:	ents pages 1 thrombed) al receipt attached n attached) 35 CSR 4, and conally examined sed on my inqui is true, accurate for submitting fa	and am famility of those inceeds and complete alse information	ave served copies of this notice and the above named parties by: the terms and conditions of any permit this with the information submitted on dividuals immediately responsible for each, including the possibility of fine and
		Address	714 1/2 Lee Street Ea		
		Talanhana	Charleston, WV 25301	1	
Outeralliand and	sworn before me this	Telephone	7		, 2013
Subscribed and	sworn before the this	1 2 m day of	Septemb	Se r	, 8013
Sain 4	n. Tyon			Nota	ary Public
My Commission	Expires (m	urch 28, 3	1623		
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 depprivacyofficer@wv.gov



SEP 1 6 2013

SURFACE OWNER WAIVER

County	Calhoun	Operator	Prime Operating Company	
5-3-7-7-7-8-E	-	Operator well number	Hall 1166	

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 a dequate 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.

<u>Comments must be in writing.</u> 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:

- 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.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water guality 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 F orm WW2-B, a s urvey plat, and a s oil and er osion 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.

1_	Deo	Mace Signature	Date	8-12-04	Company Name By				
v.	DEO	MACE			Its	F	Rec	eived	Date
		Print Name				Signature	SEP	1 6 2013	Date

WW-2B1	
(5-12)	

Well	No.	Hall 1166	

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 Sampling Contractor		ALS Environmental - South Charleston, WV	
Well Operator	Prime Operatin	ng Company	
Address	714 1/2 Lee Str	reet East	
	Charleston, WV	V 25301	
Telephone	304-342-0121		

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

SFP 1 6 2013

WW-	-2A1	
(Rev.	1/11)	

Operator's Well Number Hall 1166

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
Juanita Hall	Sterling Drilling / Prime (Assignment)	1/9	
Mary S. Barnes	Sterling Drilling / Prime (Assignment)	7/54	
Drexel Hall	Sterling Drilling / Prime (Assignment)	7/54	
Raiph E. Hall	Sterling Drilling / Prime (Assignment)	10/54	
Kenneth Hall	Sterling Drilling / Prime (Assignment)	7/54	
Kenneth Ferguson	Sterling Drilling / Prime (Assignment)	10/54	
Constance H. Slade	Sterling Drilling / Prime (Assignment)	7/108	
Robert Hall	Sterling Drilling / Prime (Assignment)	7/108	

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

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 ac quired from the appropriate aut hority before the affected activity is initiated.

Well Operator: By:Its:

Prime Operating Company		
Halsey Whtiney	SEP 1.6 2012	
Designated Agent	OE: 1 0 2013	

WW-9 Rev. 5/10

Page	7	of 8	
API Number 47 - 013	-	04036	
Operator's Well No. Hall	1166		

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Prime Operating C	company	OP Code 306837	
Watershed Sycamore Creek	Quadra	angle Millstone 7 1/2	
Elevation 1175'	County Calhoun	District_Sherman	
	Vaste: Drilling cutting and Drilling fluids		
Do you anticipate using more th	nan 5,000 bbls of water to complete the pro-	oposed well work? Yes	No X
Will a synthetic liner be used in	the pit? Yes	mil.?_10-mil 20 MIL.	
Proposed Disposal Method For			
Land	Application	D087-3432	
^ Unde	erground Injection (UIC Permit Number as (at API Number	20001-0402	
	Site Disposal (Supply form WW-9 for dis	nosal location)	
	er (Explain		
5.00			
	r this well? Air, freshwater, oil based, etc. e? Synthetic, petroleum, etc. n/a	All, soap allo gell	
Additives to be used? soap and g			
Will closed loop system be used			
Drill outtings disposal method?	Leave in pit, landfill, removed offsite, etc	leave in pit. Water will be taken	underground injection well
Drift cuttings disposal method?	to solidify what medium will be used? Ce	ment lime canduct Cement ar	nd lime
-if left in pit and plan t	ne/permit number?	ment, mile, sawdust	
-Landini or offsite fram	ne/permit number?		
provisions of the permit are en law or regulation can lead to en I certify under penalt application form and all attac obtaining the information, I be penalties for submitting false in	y of law that I have personally examine thements thereto and that, based on my elieve that the information is true, accuratormation, including the possibility of fine that M. Whitney	d and am familiar with the inquiry of those individuals rate, and complete. I am av	nformation submitted on this immediately responsible for
Subscribed and sworn before m	this 12th day of Septer	nber, 2013 Notary Publi	SEP 1 6 2013
.,	20 222	WV De	pt. of Environmental Protection
My commission expires \(\frac{\fir}{\fir}}}}}}}}}}{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\	arch 28, 2023		OFFICIAL SEAL Notary Public, State Of West Virginia SARA M LYON SARA M LYON O

		LEGEND	
Property Boundary	~~~	Diversion (121/11)	111111111111111111111111111111111111111
Road = = = = = =	=====	Spring O	
Existing Fence — X -	_ × _ × _	Wet Spot	
Planned Fence / _	_/_/_	Drain Pipe with size in inches	(Z) >
Stream	7 7	Waterway C	\Leftrightarrow \Leftrightarrow \Leftrightarrow
		Programme Company of the Company of	
Rock 688888		Artificial Filter Strip XXX	XXXXXXXXXXXXXX
North N		Pit: cut walls	
Buildings		Pit: compacted fill walls	7
Water wells		Area for Land Application of I	Pit Waste
Drill site		Œ	
Dramaged Revenuentation Transfer	mont: Agrae Disturbed	Prevegetation pl	п
Proposed Revegetation Treatr			
Lime 2-5	Tons/acre or to correct t	орН 0.5	
Fertilizer (10-20-20	or equivalent) 500	lbs/acre (500 lbs minimum)	
_{Mulch} Hay			
Mulch	1	ons/acre	
		Seed Mixtures	
Are	ea I	Ar	ea II
Seed Type	lbs/acre	Seed Type	lbs/acre
Redtop clover	5	Redtop clover	5
KY 31	40	KY 31	40
Attach: Drawing(s) of road, location,	pit and proposed area for land	d application.	
n	17.5		
Photocopied section of involv	ved 7.5' topographic sheet.		
Plan Approved by:		1 0 0	00
Comments:	Existing	well - mointain	sediment control
on road 21	ocation at all	times	
Title: Type to	^	Date: 7/9/13	Received
Field Reviewed? (_) Yes () No	

Form WW-9 Attachments: Photocopied section of involved 7.5' topographic sheet

Property Boundary

Planned Fence -

Open Ditch

Rock

North N

Buildings

Drill Site

Water Wells

Existing Fence — X —

Road = = = = = = = = =

(W)

PRIME OPERATING COMPANY WELL #1166

GRAPHIC SCALE

1 INCH = 500 FEET

- ×-

Drawing(s) of road, location,pit and proposed area for land application

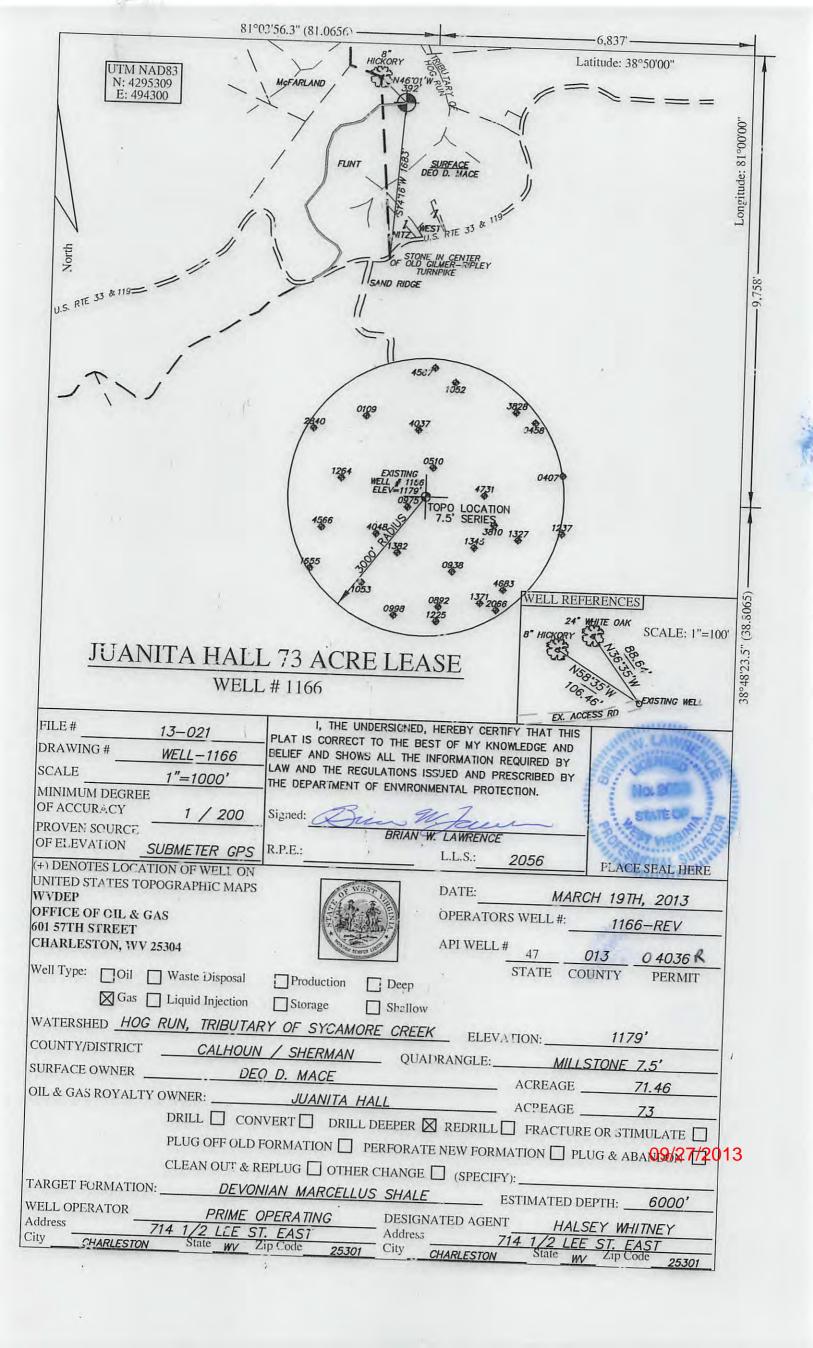
Operator's Well No. 1166-REV Quadrangle Name: MILLSTONE 7.5' Du Wells 1 INCH = 1000 FEET Drain Pipe with size in inches Waterway ← ← ← ← ← Cross Drain Artifical Filter Strip Pit cut walls Pit compacted fill walls Area for Land Application of Pit 30 X80 X10

LEGEND

Spring Wet Spot

Received

09/27/2013



a subsidiary of Prime Energy Corporation

Eastern Oil Well Service Company

714-1/2 Lee Street East • Charleston, WV 25301 (304) 342-0121 • FAX (304) 343-7019

September 13, 2013

Mr. Gene Smith Assistant Chief Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304

OK# 0630822

RE: Permit Applications

Dear Mr. Smith,

Enclosed please find the following Applications:

- A request for Modification of a Well Work Permit for the Hall 495 UIC well. The permit has been modified to include a Pit and the cement sqz of the casing annulus at 360'. (1st Priority)
- 2.) A Well Work Permit for the Hall 1166 well (1" Priority of the producing well re-works).
- 3.) A Well Work Permit for the Godfrey 1202 well (2nd Priority of the producing well re-works).

Included is a check for \$1400 broken down as follows:

\$100 for the Pit Permit for the Hall 495 \$650 for the well work permit for the Hall 1166

\$650 for the well work permit for the Godfrey 1202

I would appreciate your earliest consideration of these applications. Thank you in advance and please let me know if you have any question or required changes.

Sincerely,

Halsey M. Whitney

District Manager

Received

SEP 1 6 2013



IV-3	15
(Rev	8-81)

State of West Wirginiu

Department of Mines Wil und Gas Bivision

Date Ma	rch 3, 198	1
Operator Well No.		
Farm	Hall	
API No	47 - 013	- 4036

DIVISION OF OIL & GAS

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

ELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	no Storag	6	/		,,
OCATION: Elevation: 1175' Watershed S	<u>ycamore Cr</u>	Onagrandje GGK	Millsto	no 7141	_
District: Sherman County Call	oun	Coomman	11111360	<u> </u>	
OMPANY Sterling Drilling & Production Co., Inc.					
DDRESS 710 Va. St. E., Charleston, WV 25301	Casing	Used in	Left	Conent	
ESIGNATED AGENT William E. Stover	Tubing	1	in Well	fill u	
DDRESS 710 Va. St. E., Charleston, WV 25301	Size				
SURFACE OWNER Ralph Mace	20-16		!		1
ADDRESS Rt. 1 Box 5, Sand Ridge, WV 25274	Cond.				
MINERAL RIGHTS OWNER Juanita Hall, et al	13-10"	409'	409'	100 s	ks
ADDRESS Rt. 1 Box 106, Millstone, WV 25261	9 5/8	702	100		
THE THE CAS THESPECTION FOR THIS WORK DEC	7	2369'	2369'	335 s	ks
Mace ADDRESS Sand Ridge, WV 25274	5 1/2	2303	2307	333 3	Ng:_
PERMIT ISSUED January 8, 1987			to surf	ace	
DRILLING COMMENCED February 21, 1987	4 1/2		1 00 041.	100	
DRILLING COMPLETED February 27, 1987	2				
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used				
		Dei	oth 475	io'	feet
Depth of completed well 3404' feet	Rotary				
Depth of completed well 3404' feet; Water strata depth: Fresh 610' feet;					
		l being mi	ned in the	area?	? No
Coal seam depths: None					
OPEN FLOW DATA	_	3-		04041	foot
Producing formation Brown Shale	P	ay zone de	. Ост.	-3404 ·	
Gas: Initial open flow Mcf/d	OTT: T	nitiai ope	tit trow		ahi /d
Final open flow 750 Mcf/d	r. Landard	Beil Okail	e h	anke	٠,٠٠
Time of open flow between ini	tiai aixi	THEL GSC	er 24 bo	ure chi	nt ir
Static rock pressure 80 psig(surfa	ce measur	Guart, art	<u></u>	09/27/2	2013
(If applicable due to multiple completion	カーーノ	ear anne de			
Second producing formation		nitial one	en flow		Bb1/c
Gas: Initial open flow Mcf/d	0:1: 2	rinaj oron Tiritai otv	 flow		Bb1/c
Final open flow Mcf/d Time of open flow between in	CIL: T	final tos	 ts }	ours	,
Static rock pressurepsiq(surface	war an	اک دید		alı	. .

FORM IV-35 (PEVERSE)

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

Natural

 $\mathcal{T}^{(k)} = \mathcal{T}_{k}(x_{k})$

WELL LOG

	₩.		
	للــــــان	411 # 1166	REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all from and salt water, coal, oil and q
Sand and Shale	0	540	
Sand and Shale	540	1905	Fresh water @ 610'
Salt Sand	1905	2040	
Shale	2040	2060	
Little Lime	2060	2080	
Big Lime	2080	2219	
Big Injun	2219	2260	
Shale	2260	3404	
Total Depth		3404	
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(Attach separate sheets as necessary)

Sterling Drilling & Production C	Co., Inc.
Well Operator	09/27/2013
By: 1 3 27 87	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including the desired of the desired of

PORM WW-2(B) PERMIT COPY
OBUST BEC 23 1986



1) Date: December 10
2) Operator's

Well No. Hall 51166

3) API Well No. State 013 Apr

DIVISION OF ONL GAS DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

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4) WELL TY				4x			Ö.	-	ممنعينة		. 3	
				ы <u>т</u>		-	orage	De	P	✓ Shallow	-	
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Address					Ploor 4	730	Address			Street		 .
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) OIL & GA			BE NOT	FIED	٠.	,) DRILLING					
NameI								Unknown a	t this	£ime		
Address			Box				Address	-		· · · · ·		
				W. 2527		•	•			 		
) PROP OSE	D METT	WORK:		<u>*</u> /			/ Redrill		imulate	X /	3 ;	
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*												
					ey-Bensor						<i>-</i>	
12) Estima					2	feet				*		
13) Appro		•			540 r							
14) Appro	ximate coa	l seam de	pths:	0			l being mined in	the area? Y	es	/ Ňo_		!
) CASING	AND TUBI	NG PRO	GRAM	See (713 - 1261	1					, w	-
CASING OR	Я		CIFICATION		tt	FOOTAGE IN	TERVAL9		(T FILLUP	PAC	KERS	
TURING TYPE	مستو	Green	Weight per ft.	1 New 1 T	sed For	drifting	Left in well		SACKS -	• • • •	ž.,	, 4.
ondictor			1					1		Kinds		1
esh water	9 5/8	LS	33#	×	26	+380	M 36	0 -0 -	ford D	Bule	78.	*
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is permit cove	ering the w	eli operal	or and we	il location	snown below i	s evidence o	f permission gi ification must j	ranted to drill	in accordan	ce with the p	ertinesit tega.	1 16-
irements suop	rei to the ici	dian of r	comanico Local	ine and ni	to for any nern	nitted work	incauda musi d In addition, th	ne well operac	er or his con	tractor shall	notify the pro	oper
strict oil and g	as inspecto	r 24 hou	rs before a	ctual perm	itted work has	commenced	In addition, the	•	•			
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OTE: Keep o	me copy of	this peri	tut posted	at the grill	ing location.	Diffe	ctor, Div	4.9 /9 02.03	77	d Gas	7 Lb.	11
			the save	en elde of e	APPI ICA	T'S COPY	for instruction	to the well o		THE PART NAMED IN		
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Received

SEP 1 6 2013

09/27/2013

47 -013 -4036

State County

_____, 19_86

1) Date: December 10

1166

Operator's

API Well No.

. 5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:

Well No.

2)

3)

Name

Name Address

Address

FORM WW-2A DEC 23 1986 DIVISION OF OIL & GAS

' (iii) Name

Address

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL & GAS

DEPA	RTMENT (OF ENERGY	NOTICE	OF APPLICA	TION FOR A 1	WELL WORK PE	RMIT	
		OWNER(S) OF	RECORD TO	BE SERVED		OAL OPERATOR	Unoperated	
(1) Name	Ralph Ma	ace					
•	Addre	ss Rout	e I Box 5		5 (11) C	DAL OWNER(S)	WITH DECLARATION	ON RECORD
		Sand	Ridge, WV	25274		ame	Unknown	
(i	i) Name				Ad	ddress		
	Addre	88					••.	

TO THE PERSON(S) MANED ABOVE: You should have received this Form and the following documents:

- The Application for a Well Work Permit on Form WW-2(B) which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
 The plat (aurveyor's map) showing the well location on Form WW-6, and The Construction and Reclasation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosin and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUPPLICATED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPT OF THE APPLICATION WW-2(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Cas, with respect to a well at the location described on attached Application and depicted on attached Form WW-5. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Flam have been mailed by registered or certified mail or delivered by hand to the person(a) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director of the Division of Oil and Gas.

6) EXTRACTION RIGHTS

Check and provide one of the following:

Included is the lease or lesses or other continuing contract or contracts by which I hold the right to extract oil or gas.

The requirement of Code 228-1-8(c)(1) through (4). (see reverse side for specifics.)

7) ROYALTY PROVISIONS

Ie the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for fist well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed?

If the enswer above is Wo, nothing additional is needed. If the enswer is Yes, you may use Affidavit Form WV-60.

See the reverse eide for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice. and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by William E. Stover

this 10 day of December	, 19 <u>86</u> ,
My commission expires Aug.	19 95.
May Justinera	
Notary Public, Kanawha	County,
State of West Virginia	

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Addre	ss 710	Virgi	nia S	treet	East	Arcade	Bldg.
•	Cha	rlesto	n, WV	2530	1		
Telep	hone_	(304)	342-0	121			

WELL OPERATOR Sterling Drilling & Pro. Co., Inc.

Received

09/27/2013

SEP 1 6 2013



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



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Francisco de ENERGY

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	DECEMBER 8, 1986
	10. 5.D. P. G. # 1166
Ξ	HEI NO. 47 - 013 -4036

CONSTRUCTOR NO FEELANATION FLAN <u>Sterlina Drillina Ł Prod.Co.</u> TEIGGE ACTIO VIRGINIA ST. EAST THE ISO GRAND ST. - 4th FLOR MITTESCHARLESTON, W. VA. 25301 ---- WHITE PLAINS . NY 10601 <u> 1- 1012 (304) 342-012 |</u> Telephone (914) - 684 - 5830 ENDORE ! RALPH MACE SOIL COME. DISTRICT LITTLE KANA WHA FEVERETETION TO be CETTIES OUT DYSTERLING DRILLING & PROD. CO-W.E. STUER LEST) of Energy This plan has been reviewed by See, All constitutes exi additions become a pert of this plan: 24-86 Carel Maca ಸಿಲಲಾಗ ATTES FORD LOCATION S-----DRAINAGE DITCH . (A)SEDIVERSION DITCH . Material EARTHEN STATE EARTHEN Face Fef. Maria (2-12) Fage Ref. Mercel (2-12) 2% EVERY 250'; 10% EVERY 80' S---- ROCK-RIP- RAP (2) 20% CVCEU45' Matatal ROCK Page Ref. Merris (2-16)(C-4) Page Raf. Marial (2-4) (C) Structure (3) STITE CULVERT Pit METETIE EARTHEN SETT AS PER OFF. MAN. (AT NATURAL DEAL AS) Page Per Marrie Page Ref. Markel N/A All structures should be inspected regularly and repaired if necessary. All commercial timber is to be out and stacked and all brush and small timber to be out and removed from the site before dirt work begins. REVERENCE: Treatment Area 1 Treamer In T 2-5* 2-5* Tars/2-2 Line Toos/eare e c==== = = == 5 .م e enter to pi 6.5 500 1 1/2/2== 500 ± 15/2== (10-20-20 ar em :12:e--) · (16-20-20 cr equivalent) MAY HAY 2 MAY Sie Redtop clover SEEDTOP CLOVER 51 155/2=E

"Inscricte all legumes Buch as vetah, trefail and elovers with the proper basterium.

Sculare with 3% recommended answer. * depending on existing soil by

12s/2=e

TITE: Fleat read ecoperation to protest was seed in for one protest is \$p2502013 Attach separate shoots is necessary for comments.

Office of Oil and Gas WAY Dept. of Environmental Protection

THAT PREPARED BY MARK C. ECHARD, LLS ATTREE Rtc. 71 BOX6

GICNVILL W.VA. 2635

40 15/2

lbs/ame

THAT OR PHITOTOPY SECTION OF A MADE TOPOTRAPHIC MAP.

Well Site ()
Access Posi ----



RECEIVE DEC 29 1986

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL SITE PLAN

setch to include well location, existing access rock, rocks to be constructed, wells: filling pits and necessary structures numbered or lettered to correspond with the filter of this plan. Include all natural drainage.

