39-15-00 LATITUDE NOTES: LATITUDE, LONGITUDE AND NAD 27 WV NORTH SPC: WELL TIES FROM DGPS SUBMETER SCALED COOR .: SURVEY. CORNER TIES FROM MY PLAT DADI 11004 = 261,059.16 DATED 10/19/88 FOR WELL 47-017-03682. 1,705,836.50 13,680' SOUTH 30-00 SURFACE, BOUNDARY AND ADJOINER 10,970' WEST INFORMATION TAKEN FROM COURT HOUSE. 80 MATHEY ONGITUDE S 82°00'00" W E.C. 1287.00 3 10°00'00" L 017-03682 **DADI 11004** CORDER W. MOWREY HEIRS SINGLETON 60.50 AC. +-1468. N 2°33'24" NORTH 1457 38. **DAVIS** 1.4 S 89°00'00" E 12" LOCUST 1815.00 297, 973.50 N65W KEENER L3 33-2205 **** 1565' CORDER 33-1995 POST & STONE 2123' 33- NR @ 33-2238 1104 1366' DADI ** 11004 1893 1464' 33-3327 1675 NAD 27: ld Bearing Distance N 51°00'00" 181.50' 1 -;;_3354 39-12-43 54 L2 N 37°00'00" W 165.00' 1551 80-32-17.41 N 52°00'00" W 13 231.00 S 18°00'00" W 49.50 2938 1975 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS FILE NUMBER: I THE UNDERSIGNED, HEREBY STATE THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND DADI11004.1.PCS DRAWING NUMBER: 1'' = 500'PRESCRIBED BY THE DEPARTMENT OF ENERGY MINIMUM DEGREE SUBMETER OF ACCURACY: PROVEN SOURCE OF ELEVATION: (SIGNED) TE OF BEST DGPS SURVEY SUBMETER SURVEY STEPHEN D. LOSH, P.S. #674 PLACE SEAL HERE LAND SURVEYING SERVICES APRIL 29, 2009 STATE OF WEST VIRGINIA DATE: 21 CEDAR LANE, BRIDGEPORT, WV 26330 OPERATORS WELL NO .: OFFICE OF OIL AND GAS PHONE: 304-842-2018 OR 842-5762 FORM WW-6 #10 McJUNKIN ROAD API WELL NO NITRO, WV 25143-2506 47 03682 017 WELL TYPE: OIL ___ GAS $\frac{\chi}{}$ LIQUID INJECTION ___ WASTE DISPOSAL ___ CBM . STATE COUNTY PERMIT (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X LOCATION: ELEVATION 1212.95 WATERSHED LAUREL RUN GREENBRIER DODDRIDGE COUNTY DISTRICT **BIG ISAAC** LEASE NUMBER QUADRANGLE COUNTY NAME THELMA J. KEENER 59.50 (12-02) SURFACE OWNER _ ACREAGE WILLIAM MOWREY HEIRS 60.50 OIL & GAS ROYALTY OWNER LEASE ACREAGE PROPOSED WORK: DRILL ___CONVERT __DRILL DEEPER ___REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION ____ OTHER PHYSICAL CHANGE (SPECIFY) PERMIT PLUG & ABANDON _ CLEAN OUT & REPLUG Maxton 2670 Gordon Lower _ ESTIMATED DEPTH DOMINION EXPLORATION & PRODUCTION, INC. RODNEY BIGGS __ DESIGNATED AGENT P. O. BOX 1248 JANE LEW, WV 26378 P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS _

Ria Isaac

WR-35 Rev (5-01) Page 1 of 2

State of West Virginia Department of Environmental Protection Office of Oil and Geo

Lease No:

Office of Oil and Gas
Well Operator's Report of Well Work

Farm Name:	KEENER, WILL	IAM J.			Well No. 1	11004 (Mo Rework	wre	y 1-392-S)	
LOCATION:	Elevation: 1212.9	95'		_ Q	uadrangle:	Big Isaac	······································	***************************************	
Dis	trict: Greenbrier			Coun	ty: Doddrid	lge			
Latit	ude: 13,680	Feet South of:	39	Deg.	15 Min.	. 00	Sec.	·	
	ude: 10,970	Feet West of:	80	~~ ~	30 Min.	***************************************	Sec.		
Company:	Dominion Appal	- achian Develonm	ent.	Inc		***************************************			
	The second secon		***************************************	Casing and	Used in	Left in v	vell	Cement fill	
			1	Tubing	drilling			up Cu. Ft.	
Address:	P.O. Box 1248								
	Jane Lew, WV 263	78							
Agent:	Rodney J. Biggs								
Inspector:	Dave Scranage								
Date Permi		14/2009						······································	
	Vork Commenced:	9/17/2009			<u> </u>				
	Vork Completed:	9/21/2009							
Verbal Plug					See	Previo		WR-35 for	
Date Permit Rotary	sion granted on: Cable X	Rig		***************************************	existing	Casing p	rog		
Total Depth		MIE							
	r Depth (ft.):	N/A		······································					
Sait Water		<u>7/Α</u>			1			***************************************	
	g mined in area (N/	<u> </u>	1	•> ••••••••••••••••••••••••••••					
Coal Depth							***************************************		
Oil Depths		N/A		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************				
		ON	nar alka tapanaan	-		one depth (f	26	93'-1923' 84'-2730'	
	al open flow		MCF			al open flov	***************************************	Bbl/d	
	al open flow		MCF		Fin	al open flov	v	Bbl/d	
	ne of open flow betw		lests					Hours	
Static roc	k Pressure	130		psi	g (surface pr	ressure) afte	r	12 Hours	
Gas: Initia Fina Tim	oducing formation_ il open flow_ il open flow_ e of open flow betwe			F/d 	Oil: Initia Fina	ne depth (ft) al open flow al open flow	,	* Bbl/d * Bbl/d *	
Static rock * COMMING NOTE: ON BAC OR STIMULATI	R Pressure SLED WITH PREVI CK OF THIS FORM PUT NG, PHYSICAL CHANCE RECORD OF ALL FORM	OUS FORMATION THE FOLLOWING: 1 THE FOLLOWING: 1	NS). DE	psig TAILS OF PER	(surface pre RFORATED IN A SYSTEMAT	essure) after FTERVALS, F FIC DETAILEI	RACI	OFC 9 S	.003 Gae
GEOLOGICAL E	Signed:	Odney J. Biggs	927	ENCOUNT	ERED BY THE	WELLBORE	i.	MN Debaut DEC 9 S	mentof i Protectio
	Date:		75	<u> </u>	- No		F	Rey HAMMAN)	01/08/20

WR-35 Rev (5-01)

WELL: 11004 (Mowrey 1-392-S) Rework DADI

Page 2 of 2 9/21/2009 GORDON, 2684'-2730', 16 HOLES, BD 1775#, AVG RATE 18 BPM, AVG PRESS 1860#, 280 BBLS, TOT SAND 17,000#, ISIP 1750#, FG 1.07 PSI/FT

MAXTON, 1893'-1923', 40 HOLES, BD - N/A, AVG RATE 9.5 BPM, AVG PRESS 3015#, 296 BBLS, TOT SAND 15,000#, ISIP 1860#, FG 1.39 PSVFT

State of West Virsinia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: KEENER, WILLIAM J. Operator Well No.: MOWREY 1-392-S Elevation: 1200.00 Quadransle: BIG ISAAC LOCATION: District: GREENBRIER Counts: DODDRIDGE Latitude: 13780 Feet South of 39 Des. 15Min. 0 Sec. Longitude 10790 Feet West of 80 Deg. 30 Min. O Sec. Company: STONEWALL GAS CO. P. O. BOX 1575 | Casing | Used in | Left RICHMOND, VA 1 | Tubins | Drillins | in Well(Cu. Ft.) Asent: CHARLES W. CANFIELD Inspector: MIKE UNDERWOOD 11 3/4 218' 218' Permit Issued: 12/01/88
Well work Commenced: 03-03-89 03-08-89 Well work Completed: 1662' Verbal Plussins Permission sranted on:_____ Rotary_X___ Cable ____ Ris Total Depth (feet) _____ Sks Fresh water depths (ft) __705____ Salt water depths (ft) _1520 Is coal being mined in area (Y/N)?N 1 Coal Depths (ft):___N/A____ OPEN FLOW DATA DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Producing formation Alexander Fay zone depth (ft) 5260' Gas: Initial open flow 41 MCF/d Oil: Initial open flow N/A _ Bbl/d Final open flow 1,100M MCF/d Final open flow N/A Bbl/d Time of open flow between initial and final tests $\frac{1}{100}$ Hours Static rock Pressure $\frac{1,600}{100}$ psis (surface pressure) after $\frac{48}{100}$ Hours Second producing formation Benson Pay zone depth (ft) 4920' Gas: Initial open flow 41 MCF/d Oil: Initial open flow N/A Bbl/d Final open flow 1.100M MCF/d Final open flow N/A Rb1/d Time of open flow between initial and final tests 1 Hours Static rock Pressure 1,600 __psis (surface pressure) after __48 Hours NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL TOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: STONEWALL GAS CO.

By: May 2, 1989

PRESIDENT

FRAC DATE	STAGES	5				
PERFS	HOLES	BBL		SAND	BD	ISIP
ALEX 5262' to 70'	16	700		60,000#	2188#	1629#
BENSON 4912' to 26'	20	800		70,000#	2672#	1799#
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARK	S
File	Red	Soft	0 ,	25 '	Hole Damp	70'
Shale	Red	Soft	25 *	180 '	1 1/2" St H ₂ 0 2	
Red Rock/Shale	Red	Soft	180'	580 *	Hole Damp	680
Sand/Shale	Gray	Soft	580 1	1,340		
R. R. Sand	Red	Soft	1,340	1,940'	Gas @ 2,9 No Sh	
Big Lime	Gray	Hard	1,940'	2,0201		
Big Injun	Gray	Hard	2,020	2,100'	Gas @ 3,8 6/10 1"	
Shale	Gray	Soft	2,100	2,560'		
Gordon	Gray	Soft	2,560'	2,720	Gas @ 4,5 4/10 1"	
Sand/Shale	Gray	Soft	2,720	2,870		
5th Sand	Gray	Soft	2,870	2,920	Gas @ 5,4	450' " ^H 2 ⁰
Shale	Gray	Soft	2,920	3,420		
Speechley	Gray	Soft	3,420	3,600'	Gas @ TD 1"	6/10 H ₂ 0
Shale	Gray	Soft	3,600'	3,700		
Balltown	Gray	Soft	3,700	3,870	MIEVA	ENWIE'
Shale	Gray	Soft	3,870	4,880	NE	VEL
Benson	Brown	Soft	4,880	4,940	AP WA	-
Shale	Gray	Soft	4,940'	5,130'		N OF OIL & GA IENT OF ENER
Alexander	Brown	Soft	5,130'	5,300	î gr	V ~
ว	4		TD	5,450	, 'F	il 5 1989

Drsued 12/01/88 Experies 12/01/90
Page Of

	DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
	WELL WORK PERMIT APPLICATION
1)	Well Operator: STONEWALL GAS COMPANY 47850, 4 252
2)	Operator's Well Number: MOWREY #1 (392-S) 3) Elevation: 1200'
4)	Well type: (a) $Oil_{\underline{\hspace{1cm}}}/$ or $Gas_{\underline{\hspace{1cm}}}X/$
	(b) If Gas: Production X / Underground Storage/ / Deep/ Shallow X /
5)	Proposed Target Formation(s): ALEXANDER
6)	Proposed Total Depth: 5450 feet
7)	Approximate fresh water strata depths: 175', 273',
8)	Approximate salt water depths: 1580'
9)	Approximate coal seam depths: 323-325, 380-385', 650-653, 738-741
10)	Does land contain coal seams tributary to active mine? Yes/ No X /
11)	Proposed Well Work: Dill & Stimulate Mill Will
12)	
-	CASING AND TUBING PROGRAM
TYPE	SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	S	PECIFICAT	TIONS	FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42#	200	200	38 CSR 18-11.3
Fresh Water					1 10 8	365 SR18-110
Coal				4	ient !	M.01
Intermediate	8 5/8	ERW	23#	1650 W	1650	38 CSR 18-11.3
Production	4 1/2	ERW	10.5#	5450	5450 🗲	38 CSR 18-11.1
Tubing						
Liners			To a control of the c		187818-6	

Tubing							4
Liners		erando de la companya			1037		Lan
PACKERS :	Kind				ME	RES V E	
	Sizes				WO NO	V 7 5 1000	U
105	Depths set				Duvois	10 1000	
70-20		Rog Divison of	Oil and 85	S Use Only	DEPARTM	OF OIL & GAS	Y
Fee(Permit 1	Reclamat	ion Fund	WPCP	
Plat	1 WW-9	WW-2B	Bond ,	(Type		Agen	it

Pag	je	1	0	f	
For	m	WW	2	_	A
(0.9	8/8	7)			
Fil	.e	Co	p	У	

DEGENVE	
- NOV 1 8 1888	1)

DIVISION OF OIL & GAS 3)

Date:_	NOVE	MBER	4,	1988		
Operat MOWRE	or's	well 392-		mber	 	***************************************

3) API Well No: 47 - 017 - 3682
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	MOTIOE AND AFFEITCRITON	FOR A WELL WORK PERMIT	
4)	Surface Owner(s) to be served:	5) (-) 62 0	
=)	(a) Name WILLIAM J. KEENER	5) (a) Coal Operator Name N/A	•
	Address RT 3, BOX 83	Address	
	SALEM, WV 26426	Address	
	(b) Name	(h) Con? Oimor(n) wi	Ab Danisani
	Address	(b) Coal Owner(s) wi Name <u>EASTERN ASSOC</u>	th Declaration
	Address	Address ONE PPG PLA	CE CURP.
	(c) Name	PITTSBURGH,	DA 15222
	Address		
	The second secon	Name Address	A CONTRACTOR OF THE CONTRACTOR
		AUULCSD	
6)	Inspector MIKE UNDERWOOD	(c) Coal Lessee with	Doglaration
•	Address RT 2, BOX 135	Name NA	
	Address RT 2, BOX 135 SALEM, WV 26426	Address	
	Telephone (304) - 782-1043	Addiess	
	TO THE PERSON(S) NAMED A	ABOVE TAKE NOTICE THAT.	
		150 VD TIME ROTTON THAT.	•
	Included is the lease or leases of	or other continuing con	tract or
contr	cacts by which I hold the right to	extract oil and one o	D CLACC OL
X	Included is the information requi	red by Chanter 22D Ar	A tiple 1
Secti	ion 8(d) of the Code of West Virgi	nia (see page ?)	cicle 1,
	I certify that as required under	Chantar 22B of the War	+ Winninin 0-3-
T has	e served copies of this notice ar	chapter 22B or the wes	t Virginia Code
2 C C O M	mpanying documents pages 1 through	id application, a locat	ion plat, and
accon	Personal Service (Affidavit	on the above name	d parties, by:
	Personal Service (Arridavit	attached)	•
	X Certified Mail (Postmarked p	postal receipt attached)
	Publication (Notice of Publi	.cation attached)	
	T have read and understand Charte		
+0 +1	I have read and understand Chapte	er 22B and 38 CSR 11-18	, and I agree
CO C1.	ne terms and conditions of any per	mit issued under this	application.
famil	I certify under penalty of law th	at I have personally e	xamined and am
701111	iar with the information submitte	d on this application	form and all
arrac	chments, and that based on my inqu	dry of those individua	immediately
iespo	onsible for obtaining the informat	cion, I believe that th	e information
TO CI	ue, accurate, and complete.		
:	I am aware that there are significant in the signif	cant penalties for sub	mitting false
INTOL	mation, including the possibility	of fine and imprisonm	ent.
	Well Operator	STONEWALL GAS COMPAN	IX
	By: -/3-4	a fruit	
	Its: PRESI		
		DRAWER R	
		NE LEW, WV 26378-0080	
O	Telephone	304-884-7881	
SUDSC	ribed and sworn before me this	day of <u>NOVEMBER</u>	, 19 <u>88</u>
9	in I was to some the		
	ward r. almer		
му со	mmission expires OCTOBER 14.	1993	COMMISSIONER