02/12/2016

WR-35 Rev. 8/23/13

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

API	47-017-06409H6A	County <u>Doddridge</u>	D	istrict	Southwest	
Quad	Oxford 7.5'	Pad Name OXFD11H	S Fi	eld/Pool Name	Oxford	
Farm Na	me MORRIS, I. L.		W	ell Number OX	FD11AHS	
Operator	(as registered with the C	OOG) CNX Gas Compan	y LLC			
Address	P.O. Box 1248	City Jan	e Lew S	tate WV Zi	p 26378	
As Drille	ed location NAD 83/		s-drilled plat, profile vi		survey	
	Top Hol			520,416.00 m	_	
	Landing Point of Curv			519,919.26 m		
	Bottom Hol	e Northing $4,337$,	159.60 m Easting	519,437.13 m		
Elevation	n (ft) 1340' GL	Type of Well	■ New □ Existing	Type of Repo	rt 🗆 Interim	■ Final
Permit T	ype Deviated D	Horizontal Horizonta	al 6A □ Vertical	Depth Type	□ Deep	■ Shallow
Type of	Operation Convert	□ Deepen ■ Drill	□ Plug Back □ Red	drilling 🗆 Rev	vork Stimul	ate
Well Typ	pe □ Brine Disposal □	CBM ■ Gas ■ Oil	☐ Secondary Recovery	□ Solution Mi	ning Storage	e Other
Type of	Completion Single	■ Multiple F	luids Produced Bri	ne ■ Gas □ No	GL □ Oil Oth	er
Drilled v	vith □ Cable ■ Rota	rv				
	pe(s) and Additive(s)	ud □ Fresh Water □ F				
	on Basea Maa, Baetelle	rac, rotymets and Weigh	ang rigents.			
	mit Issued02/12/20		nmenced 07/27/2	Date dr	illing ceased	09/18/2014
	npletion activities began			tion activities cea		5/05/2015
Verbal p	lugging (Y/N) N	Date permission	granted N/A	(Granted by	N/A
Please no	ote: Operator is required	to submit a plugging app	dication within 5 days o	of verbal permiss	ion to plug	
Freshwat	er depth(s) ft	50', 620'	Open mine(s) (Y/N) depths	N	are resident
Salt wate	er depth(s) ft	1,648'	Void(s) encountere	d (Y/N) depths	N REGE	IVED
Coal dep	th(s) ft	None Reported	Cavern(s) encounte	red (Y/N) depths		oll and Gas
Is coal be	eing mined in area (Y/N)	N			NOV S	3 0 2015
A	PPR(OVED			WV Byje Envirorgore	wedthment of KtainProtection

Rev. 8/23/13

API <u>47-017-06409H6A</u> Farm name <u>MORRIS, I. L.</u>

Well number **OXFD11AHS**

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement Circulate (Y/N) * Provide details to the right *
Conductor	24"	20"	100'	N	J-55 94# / 100'	N/A	Y
Surface	17 1/2"	13 3/8"	1221'	N	J-55 54.5# / 1221'	N/A	Y
Coal	•	•	-	•	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2832'	N	J-55 36# / 2832*	N/A	Y
Intermediate 2	•	<u> </u>	•		•	-	-
Intermediate 3	•	·	-	-	•	•	-
Production	8 3/4"	5 1/2"	12694'	N	P-110 20# / 12694'	N/A	N
Tubing	5 1/2"	2 3/8"	7341.6'	N	P-110 4.7# / 7341.6'	N/A	N
Packer Type and	d Depth Set	None					

Packer Type an	nd Depth Set None		_				
Comment Detail	ils		<u>.</u>				
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft 3/sks)	Volume (ft 3)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	127	15.2	1.18	150	Surface	24
Surface	Class A	960	15.6	1.20	1151	Surface	8
Coal	-	•	-	-	-	-	-
Intermediate 1	Class A	936	15.6	1.20	1123	Surface	8
Intermediate 2		• • • • • • • • • • • • • • • • • • •	<u>-</u>	-		- -	1 -
Intermediate 3	-	-	-	-	-	•	1 -
Production	Class A (Lead) / Class A (Tail)	535 / 1750	14.2 / 14.8	1.24 / 1.25	663 / 2190	522'	8
Tubing	-	-	-	-	-	•	-
Orillers TD (ft)	6883'		Loggers TD	O (ft) 6863'			-
Deepest formation	on penetrated: Marcellus		Plug back to	(fl) N/A			
Plug back proced	•		1 iug ouen to				
rug odek proces	uuic. 14/A						
Kick Off Depth ((ft) 3000'						
Thank allinalin			. 1/1' .: 1 =				
Check all wireling		•					
	□ neutro	on 🗆 resistivity 🗀 g	amma ray 🗆 ten	nperature ⊏ se	onic		
Well Cored □	Yes ■ No □ Conv	entional = Sidewall		Were Cuttings	Collected =	Ves □ No	
		- Sidewall		wore cuttings	- Conceicu	ics = No	
	E CENTRALIZER PLACEM						
Conductor - No	centralizers used. Fresh Water	er - Bow spring centraliz	ers on first joint th	hen every fourt	<u>h joint to 100 f</u>	eet from surface	: Coal
	ralizers on first joint then eve very fourth joint until inside s						
	rough the lateral and the curv						ig Joints
						ind out ve.)	
WAS WELL CO	MPLETED AS SHOT HOLI	E ■ Yes □ No	DETAILS <u>Pl</u>	ug and Perforat	tion Shot Hole		
		· -		. –		RECEIVE	:F)
WAS WELL CO	MPLETED OPEN HOLE	□ Yes ■ No	DETAILS			e of Oil a	
					Offi	CA OL CHI M	iu Qe
WERE TRACER	RS USE □ Yes ■ No	TYPES OF TRACE	R(S) HSED			NOV 3 0 2	015
IRACLI	2000 - 100	I I I LO OI TRACE	USED			NOVOICE	013

Amount of

API <u>47-017-06409H6A</u>

Farm name MORRIS, I. L.

Well number OXFD11AHS

PERFORATION RECORD

Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number Of Perforations	Formation(s)
	 			
				See Attached
			 	
			+	
	Perforation date			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Avg Pump Rate (BPM)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Nitrogen / other (gals)
			 		: -		
1							See Attached
							- See Attached
						RECEIVE	(0)
			 		Offic	ce of Oil at	
						!	ant of

Please insert additional pages as applicable.

WV Department of Environmental Protection

Rev. 8/23/13

API 47-017-06409H6A

Farm name MORRIS, I. L.

Well number OXFD11AHS

PERFORATION RECORD

Stage		Perforated from	Perforated to	Number Of	
No.	Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
1	4/20/2015	12635	12633	12	Marcellus
2	4/20/2015	12562	12315	48	Marcellus
3	4/20/2015	12274	12014	64	Marcellus
4	4/21/2015	11974	11727	48	Marcellus
5	4/21/2015	11680	11433	48	Marcellus
6	4/23/2015	11388	11132	64	Marcellus
7	4/23/2015	11092	10845	48	Marcellus
8	4/23/2015	10798	10551	48	Marcellus
9	4/24/2015	10504	10257	48	Marcellus
10	4/26/2015	10210	9963	48	Marcellus
11	4/26/2015	9917	9662	64	Marcellus
12	4/27/2015	9622	9365	64	Marcellus
13	4/27/2015	9328	9081	48	Marcellus
14	4/28/2015	9034	8787	48	Marcellus
15	4/28/2015	8740	8493	48	Marcellus
16	4/29/2015	8452	8193	64	Marcellus
17	4/30/2015	8159	7900	64	Marcellus
18	4/30/2015	7860	7613	48	Marcellus

RECEIVED
Office of Oil and Gas

NOV 3 0 2015

WV Department of Environment Protection

API 47-017-06409H6A

Farm name MORRIS, I. L.

Well number OXFD11AHS

STIMULATION INFORMATION PER STAGE

Stage No.	Stimulations Date	Avg Pump Rate (BPM)	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen / other (gals)
1	4/20/2015	61.7	8553	7677	4923	100400	4440	3525
2	4/20/2015	74.9	7516	6474	5414	401200	10607	6920
3	4/20/2015	76.1	7702	6678	5555	401300	9716	2154
4	4/21/2015	94.5	8203	6866	5438	401650	10550	7099
5	4/21/2015	78.1	7700	6163	5747	400500	9083	6657
6	4/23/2015	82.6	7729	6351	5804	402300	10525	2481
7	4/23/2015	87.9	7623	6382	5628	401800	10568	3996
8	4/23/2015	79.4	7514	6220	5214	401950	10025	3722
9	4/24/2015	88.8	7773	6319	5541	402000	10618	4031
10	4/26/2015	83.2	7607	5712	5126	401400	10868	3828
11	4/26/2015	94	7990	7184	5423	400600	9829	3694
12	4/27/2015	80.7	7310	6405	5780	401900	10552	3976
13	4/27/2015	91.9	8231	6576	5822	401800	10315	3931
14	4/28/2015	80.9	7770	6804	5527	400300	10515	3781
15	4/28/2015	99.5	7676	6498	6621	401400	9602	3795
16	4/29/2015	72.3	7143	6724	4701	401350	8692	3545
17	4/30/2015	83.8	7278	6795	6203	400800	8347	3544
18	4/30/2015	93.5	7539	6561	6498	401800	8822	6595

RECEIVED Office of Oil and Gas

NOV 3 0 2015

PI 4	47-017-06409H6A	Farm name <u>MORRIS, I. L.</u>	Well nu
------	-----------------	--------------------------------	---------

Submittal of Hydraulic Fracturing Chemical Disclosure Information

API <u>47-017-06409H6</u>	Yarm nam	ie <u>MORRIS.</u>	<u>I. L.</u>	Well numb	oer <u>OXFD11AHS</u>	
PRODUCING FORMAT	ION(S)	DEPTHS				
MARCELLUS		<u>6858'- 6863</u>	g' TVD	7582'- 7632'	MD	
						
Please insert additional pa	nges as applicable.					
GAS TEST □ Build up		■ Open Flo	w OII	TEST Flow	□ Pump	
SHUT-IN PRESSURE		· ·	ttom Hole		URATION OF TEST_	73.5 hrs
OPEN FLOW Gas	Oil mcfpd0	NO		Water 240 bpd	GAS MEASURED	
LITHOLOGY / FORMATION	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN F MD	BOTTOM T DEPTH IN FT MD	TYP	PE AND RECORD QUANTITY E OF FLUID .,BRINE,GAS,H2S, ETC)
		- · · - ·				
	_ · _ _ · 			- +	! 	
					<u></u>	
					CEE	TTACHED
					SEE F	ATTACHED
			·			
			ļ			· · · · · · · · · · · · · ·
. – – – – – – – –				:		
Please insert additional pa						
	tterson UTI					
			_ City <u>Ei</u>	ghty Four	State PA	Zip <u>15330</u>
Address 7136 South Y			City <u>T</u> ı	ılsa	State OK	Zip <u>74136-6378</u>
Cementing Company <u>Ca</u>						
Address 2001 Summit stimulating Company Ca			_ City <u>Sn</u>	nithfield	State PA	Zip <u>15478</u>
Address 2001 Summit			City Sn	nithfield	State PA	Zip 15478
lease insert additional pa						
					f	RECEIVED
completed by <u>CNX Gas</u> ignature					Telephonic	mais Pilotha Gas
ignature	squar	I itle <u>Si</u>	eve Spitler - C	ompletions Manage	r-Gas WV	Date id Makes is

Attach copy of FRACFOCUS Registry

WV Depodmental Protection

API 47-017-06409H6A

Farm name MORRIS, I. L.

Well number OXFD11AHS

LITHOLOGY / FORMATION	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUAN TYPE OF FLUID (FRESHWATER,BRINE,GAS,H2S, ETC)
TLL	0	111	0	111	
S/ SHALE	111	163	111	163	
HALE/ REDROCK	163	193	163	193	
REY SHALE	193	289	193	289	
EDROCK/ SHALE	289	416	289	416	
EDROCK/ SS	416	480	416	480	
EDROCK	480	511	480	511	
EDROCK/ SS/ SHALE	511	725	511	725	
HALE/ SS	725	850	725	850	
HALE	850	1018	850	1018	CONTRACTOR ASSESSMENT
HALE/ SS	1018	1077	1018	1077	
HALE/ REDROCK	1077	1266	1077	1266	
HALE/ SS	1266	1410	1266	1410	
HALE	1410	1615	1410	1615	
S/ SHALE	1615	1648	1615	1648	THE RESIDENCE OF THE PARTY OF T
/HITE SS	1648	1932	1648	1932	
S/ SHALE	1932	2280	1932	2280	
REY SHALE	2280	2501	2280	2501	
REY SHALE/ SS	2501	2565	2501	2565	
S/ SHALE	2565	2620	2565	2620	
S	2620	2645	2620	2645	
S/ SHALE	2645	2700	2645	2700	
HALE	2700	2725	2700	2725	
S/ SHALE	2725	2770	2725	2770	
	2770	2800	2770	2800	
/ SHALE	2800	3171	2800	3181	
HALE	3171	3360	3181	3371	
HALE/ SS	3360	3424	3371	3434	
HALE	3424	3738	3434	3750	
S/ SHALE	3738	3927	3750	3961	
ALE	3927	3990	3961	4001	
S/ SHALE	3990	4070	4001	4031	
ALE	4070	6020	4031	6025	
/ SHALE	6020	6140	6025	6150	Total tree
HALE/ SS	6140	6170	6150	6185	RECEIVED
/ SHALE	6170	6201	6185	6216	Office of Oil and Gas
JRKETT	6773	6815	7128	7244	NOV 3 0 2015
JLLY	6815	6834	7244	7320	MAAAA
(MM)	0913	0054	7244	7320	WV Departion 2/12/20 Environmental Protection

Page 8 of 8 11/11/2015

Rev. 8/23/13

API 47-017-06409H6A Farm name MORRIS, I. L.

Well number OXFD11AHS

LITHOLOGY / FORMATION	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY TYPE OF FLUID (FRESHWATER,BRINE,GAS,H2S, ETC)
HAMILTON	6834	6858	7320	7582	
UPPER MARCELLUS	6858	6863	7582	7632	
MIDDLE MARCELLUS	6863		7632		
TD	6883				

RECEIVED Office of Oil and Gas

NOV 3 0 2015

WV Department of Environmental 02/12/2016