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

API <u>47-033-05819H6A</u>	County <u>Harrison</u>	District	Harrison / Union
Quad West Milford 7.5'	Pad Name KST5HS	Field/Pool Name	Kennedy Storage
Farm Name JAMES IVAN M	ICDONALD	Well Number K	ST5FHS
Operator (as registered with the C	OOG) CNX Gas Company	LLC	r blad hyfydd di Wyddiog y gymr y ym a'r awysdain y ar
Address P.O. Box 1248	City Jane l	Lew State WV	Zip <u>26378</u>
As Drilled location NAD 83/ Top Ho Landing Point of Curv Bottom Ho	le Northing <u>4,335,86</u> ve Northing <u>4,335,78</u>	1 rilled plat, profile view, and deviation         7.57 m       Easting       545,527.36 m         0.98 m       Easting       546,102.74 m         8.03 m       Easting       547,124.99 m	<u> </u>
Elevation (ft) 1155.61' GL	Type of Well	New □ Existing Type of Rep	oort 🗆 Interim = Final
Permit Type ☐ Deviated ☐	Horizontal   Horizontal	6A □ Vertical Depth Typ	e □ Deep ■ Shallow
Type of Operation □ Convert	□ Deepen ■ Drill □	□ Plug Back □ Redrilling □ Re	ework Stimulate
Well Type	CBM ■ Gas ■ Oil □	Secondary Recovery   Solution N	Aining □ Storage Other
Type of Completion ☐ Single	□ Multiple Flu	ids Produced ☐ Brine ☐ Gas ☐ 1	NGL □ Oil Other
Drilled with 🗆 Cable 🍍 Rota	ry		
Drilled Media Surface hole Droduction hole Droduction hole Droduction M Mud Type(s) and Additive(s)  WELL HAS NOT BEEN COMP	ud □ Fresh Water □ Bri		Air □ Mud □ Fresh Water □ Brine
	The second secon	The state of the s	The state of the s
		nenced <u>12/22/2014</u> Date of	
Date completion activities began			
veroai piugging (1714)	Date permission g	ranted N/A	Granted by N/A
Please note: Operator is required	to submit a plugging applic	cation within 5 days of verbal permis	ssion to plug
Freshwater depth(s) ft	N/A	Open mine(s) (Y/N) depths	N
Salt water depth(s) ft	N/A	Void(s) encountered (Y/N) depths	N
Coal depth(s) ft	80'	Cavem(s) encountered (Y/N) deptl	ns N
Is coal being mined in area (Y/N)	N		
			Reviewed by:
	VIII. AT ICHISADO ABRIGO.		



Rev. 8/23/13

API <u>47-033-0</u>	5819H6A		AMES IVAN ICDONALD		Well i	number <u>KS</u> T	C5FHS			
CASING STRINGS Conductor	Hole Size 26"	Casing Size 20"	Depth	New or Used New	Grade wt/ft	Bas Dept	h(s)		ement Circulate ide details to th Y	
Surface										
Coal										
Intermediate 1										
Intermediate 2	***************************************									
Intermediate 3				<u> </u>		······································				····
Production										***************************************
Tubing										
Packer Type ar	d Depth Set	None					I_			**************************************
Comment Deta	ils									
CEMENT	Class		Number		Slurry	Yield	Volu		Cement	WOO
DATA	of Ce		of Sacks	<del></del>	wt (ppg)	( ft 3/sks)	( ft 3	<u> </u>	Top (MD)	(hrs)
Conductor	Cas	28 V					150		0'	<u> </u>
Surface Coal							-		Market of a restaurable or a Contact of the state of the	
Intermediate 1		-			***************************************					ļ
Intermediate 2										<del> </del> -
Intermediate 3										<b></b>
Production			***************************************		······································		· ****			
Tubing							·		7 A PARICHA MARIA	
Drillers TD (ft)	100'			1	Loggers TD	(A) 70221				1
• •		-						W-100 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Marketon and Application of the Control of the Cont	
Deepest formation	•	transactive medical additional designation of the Property of the Company of the			Plug back to	(II)				
Plug back proced	lure:	- reference of the second displace and all these are absorbed					·			
Kick Off Depth (	(ft)	· Villa AV Nilla o e Cola communicación de la cola communicación de la cola cola cola cola cola cola cola c					***************************************		THE LANGE WEIGHT WAS IN THE STREET	
Check all wireling	e logs run	□ caliper □ neutron	☐ density ☐ den			induction	onic			
Well Cored ::	Yes □ No	□ Conven	tional 🗆 Side	ewall		Were Cuttings	Collecte	d 🗀	Yes ti No	
	E CENTRALI:	ZER PLACEMEN				_				
WAS WELL CO	MPLETED A	S SHOT HOLE	□ Yes ■ No	DH	ETAILS		THE PROPERTY OF A SAME AND A SAME AND A	·		Marie Marie ya sh evod
WAS WELL CO	MPLETED O	PEN HOLE	□ Yes ■ No	DF	ETAILS					
WERE TRACER	S USE 🙃	Yes ■ No	TYPES OF TR	ACER(S)	USED			·		

Page 3 of 6 Rev. 8/23/13 09/27/2017

#### API 47-033-05819H6A Farm name <u>JAMES IVAN</u> **MCDONALD**

#### Well number KST5FHS

#### PERFORATION RECORD

Stage	- 4	Perforated from	Perforated to	Number Of	
No.	Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
<u> </u>					
			WELL		
			HAS NOT BEEN		
			COMPLETED.		
			FORMATIONS		
	The state of the s		HAVE NOT BEEN		
			PERFORATED.		* · · · · · · · · · · · · · · · · · · ·
<u> </u>					
				;	

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	•		Avg Treatment	Max Breakdown Pressure (PSI)			Amount of Water (bbls)	
. At a separation of the least						The state of the s		
				WELL				
				HAS NOT BEEN		_		
				COMPLETED.				
		-		NO	The state of the s			
		The state of the s		STIMULATION		· · · · · · · · · · · · · · · · · · ·		
				HAS OCCURRED.				-
	•							a comment of the second
					***************************************			
				A				
	***************************************		n namen ni se ni ni sepanah ninan san san san sen sengan nganggangan dan sanan san san san san san san san san			2		
	· · · · · · · · · · · · · · · · · · ·							

Please insert additional pages as applicable.

Page 4 of 6 09/27/2017

Rev. 8/23/13

# API 47-033-05819H6A Farm name JAMES IVAN MCDONALD

### Well number KST5FHS

OF TEST <u>N/A</u> hrs  EASURED BY  nated □ Orifice □ Pilot  BE ROCK TYPE AND RECORD QUANTITY  TYPE OF FLUID  RESHWATER,BRINE,GAS,H2S, ETC)
EASURED BY  nated
nated
TYPE OF FLUID
Minipage sports with the American color of the Color of t
SEE ATTACHED
e <u>VA</u> Zip <u>24631</u>
e <u>PA</u> Zip <u>15317</u>
PA Zip 15478
e Zip
te

## API 47-033-05819H6A Farm name JAMES IVAN MCDONALD Well number KST5FHS

LITHOLOGY / FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITY  TYPE OF FLUID
Za z zaz jaj sa kontro koj jaj sidekka poputičio, po neopopoljovitek tik idekopopoljak od sekonomicki do i	TVD	TVD	MD	MD	(FRESHWATER,BRINE,GAS,H2S, ETC)
FILL	0	80			
SHALE/COAL	80	180			
LIMESTONE/SHALE/SILTSTONE	180	220			
SHALE/REDROCK/SILTSTONE	220	360		Constitution of the Constitution of	
REDROCK/SILTSTONE	360	390		Street of the street street and s	
REDROCK/SILTSTONE/COAL	390	430			
SHALE/REDROCK/SILTSTONE	430	540	decomos manages and		
SHL/RR/SILTSTONE/SANDSTONE	540	600			
SHALE/REDROCK/SILTSTONE	600	660		Proceedings of the control of the co	Marie Committee
STONE: LIME, SILT, SAND	650	780	**************************************	er mennetismente i del balane	
SHL/RR/SILTSTONE/LIMESTONE	780	960			
REDROCK/SANDSTONE	960	1040			
SANDSTONE	1040	1060		natura e e e e e e e e e e e e e e e e e e e	
SHL/REDROCK/SILTSTONE/COAL	1060	1080	The state of the s	• • • • • • • • • • • • • • • • • • • •	
SHALE/REDROCK/SILTSTONE	1080	1240			
SHALE/SILTSTONE/SANDSTONE	1240	1440			
SHALE/SILTSTONE/COAL	1440	1458			
LITTLE LIME	1458	1482	***************************************		Light Gray
BIG LIME	1500	1552	initiation of states the street consumer.		Light Gray/Brown
BIG INJUN	1600	1671	manyan derenada,	** ***********************************	Light Gray
GANTZ SAND / GANTZ A	1852	1913			Gray
50/30 FOOT SANDS	1972	2059		entermentalismo e las parciales de las con-	Varicolored
GORDON SAND	2096	2239		ريونغم بماريها لامر فقته 1460 (1464) ما	Med Gray
SHALE	2240	2359			Dark Gray
FIFTH SAND	2360	2391		ti s in den en in de alle de de anteres e procesa de anteres de la contraction de la	Med Gray
BAYARD SAND	2447	2470		***************************************	Med Gray
SILTSTONE/SHALE	2471	3000	المران والمساورة والمساورة والمساورة والمساورة	w y gody is kinnek ji dinakin dansekti, qa burinan i	Med/Dark Gray
SPEECHLEY SAND	3001	3086		مناه و در ماه معطوب و موسول منها الا يعرف (مهر برد و برد مهر و برد مهر برد و برد مهر برد و برد مهر برد و برد م	Med Gray
BALLTOWN SAND	3204	3352	er erre ome nome en eg ny ny sy eg gar sy en e	eriteriorismone de company en la company de la company	Med Gray
SILTSTONE/SANDSTONE/SHALE	3353	4375	out our six remaining and a second		Med/Dark Gray
BENSON SAND	4376	4489		· · · · · · · · · · · · · · · · · · ·	Med/Dark Gray
ALEXANDER SAND	4699	4740	exercise of the contract of the contract	n pristings annual states had not a considerate and states and states and a states and s	Med/Dark Gray
SILTSTONE/SHALE	4741	4951	egamina van krijssen er anne er er er	and the time on the mostly can be experiently	Med/Dark Gray
RHINESTREET SHALE	4952	6481		militar s <b>alada si ta</b> n si tan sama alam ne ya ka salas salas	Dark Gray
MIDDLESEX SHALE	6482	6611	Negative community (1994)	e i sene i na sener pressona en para de la companyo	Dark Gray
WEST RIVER SHALE	6612	6644	diginal de la constitución de la c		Med Gray
BURKET SHÅLE	6645	6687		شرمها فالكراب والكار	Black
TULLY LIMESTONE	6688	6745	participation of the second section of the second s	gan kan getin servey engangan serveyet si yayayay	Light Gray

Page 6 of 6 09/27/2017

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 SHALE	6746	6870			Light/Med Gray
MARCELLUS SHALE	6871	6945	***************************************		Black
ONONDAGA LIMESTONE	6946	6956			Light Brown
HUNTERSVILLE CHERT	6957	7023	A PROPERTY OF THE PROPERTY OF		Light/Med Gray
TD PILOT	7023	***************************************	And the second of the Second second		The state of the s