04/01/2016

NAME: Opequalin DATE: 3/22/2016

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

MOLECULARITE	4102 County HAF		District TEN MILE	
Quad WOLF SUMMIT 7.	.5' Pad Name S'	TROTHERS, B.T.	Field/Pool Name W	OLF SUMMIT
Farm name SMITH, HARL	EY GLENN		Well Number 5	
Operator (as registered with	ILO ENEDON	'LLC		
Address 5260 DuPONT I	ROAD City	PARKERSBURG	State WV	Zip 26101
Type of Completion ■ Sing Drilled with □ Cable ■ Drilling Media Surface ho Production hole ■ Air □	hole Northing 4,351,429 curve Northing Hole Northing Hole Northing Hole Type of Ward Horizontal Hole Horizontal Deepen Drill al CBM Gas Oil Call Gard Gas Hole Rotary  Sole Air Mud Fresh Water Display	East East East  Fell □New Existing  rizontal 6A Vertical  □ Plug Back □ Redri □ Secondary Recovery □ Seroduced □ Brine □Gas	ting 547,243 M ing ting Type of Report Depth Type Illing Rework clution Mining Ste	orage 🗆 Other
Frank Company of the	(s)			
Jate permit issued	30/14 Date drilling 6	commenced		0144144
N/A  Date permit issued	30/14 Date drilling of 8/25/14	Date completion act	vities ceased	9/11/14
N/A  Date permit issued	30/14 Date drilling of 8/25/14		vities ceased	0144144
Oate permit issued 7/ Date completion activities by Verbal plugging (Y/N)	30/14 Date drilling of 8/25/14	Date completion action	vities ceased Granted by	9/11/14
Pate permit issued	30/14 Date drilling of B/25/14  N Date permission gr	Date completion action	vities ceased Granted by /erbal permission to p	9/11/14
Oate permit issued	30/14 Date drilling of 8/25/14  N Date permission graphics of the properties of the part of the permission graphics and the plugging approximately plugging appr	Date completion action antedpplication within 5 days of vOpen mine(s) (Y/N) of the completion action	vities ceased Granted by /erbal permission to p	9/11/14 olug
Oate permit issued	30/14 Date drilling of 8/25/14  N Date permission graphics of the submit a plugging appropriate to submit a plugging appropriate approp	Date completion action and particular policies of which is a second policy of the control of the	vities ceased Granted by verbal permission to plepths (Y/N) depths	9/11/14 olug N
N/A  Date permit issued7/  Date completion activities by Jerbal plugging (Y/N)	30/14 Date drilling of 8/25/14  N Date permission graphic properties of the permission of the permissi	Date completion action anted  pplication within 5 days of v  Open mine(s) (Y/N) of void(s) encountered (Cavern(s) encountered)	vities ceased Granted by verbal permission to plepths (Y/N) depths	9/11/14 olug N

Page 2 of 4 WR-35 Rev. 8/23/13 Farm name\_JUNKINS, EARL & BELVA Well number\_109 API 47-033 04102 Basket Did cement circulate (Y/N) Casing New or Grade CASING Hole wt/ft \* Provide details below\* Depth(s) STRINGS Size Depth Used Size Conductor Existing Surface 486' LS 64' 14" 7" New Coal **Existing** 14" 11 3/4" 397'- 447' New LS Intermediate 1 Intermediate 2 Intermediate 3 Production Existing 6 1/4" 4 1/2" 2737.8' New J-55 Tubing Packer type and depth set Comment Details Yield WOC Slurry Volume Cement CEMENT Class/Type Number (ft.3) ft 3/sks) Top (MD) of Cement of Sacks (hrs) DATA wt (ppg) Conductor Surface 505 1.18 596 Existing 8 Reg Neat 15.6 Coal Existing 8 Reg Neat 15 15.6 1.18 18 Intermediate 1 Intermediate 2 Intermediate 3 Production **Existing** 8 14.2 1.27 318 50:50 Pozmix 250 Tubing Drillers TD (ft) 2961' Loggers TD (ft) Deepest formation penetrated Fifth Sand Plug back to (ft) N/A Plug back procedure NA Kick off depth (ft) ■ density ■ deviated/directional **■** induction Check all wireline logs run **■** caliper **■** temperature neutron **■** resistivity 🖪 gamma ray □sonic Conventional Sidewall Were cuttings collected ■ Yes □ No Well cored □ Yes ■ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE □ Yes 

No DETAILS Received DETAILS WAS WELL COMPLETED OPEN HOLE? □ Yes 🖪 No FEB 2 4 2016

TYPE OF TRACER(S) USED \_\_

WERE TRACERS USED - Yes - No

API 47- 033 - 04102 Farm name SMITH, HARLEY GLENN Well number 5

## PERFORATION RECORD

s)	Formation(s)	Number of Perforations	Perforated to MD ft.	Perforated from MD ft.	Perforation date	Stage No.
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Please insert additional pages as applicable.

## STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	N/A		No Treatment					
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Please insert additional pages as applicable.

Received
Office of Oil & Gas

FEB 2 4 2016

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API 47- 033	_ 04102		Farm	name_JUNKII	NS, EARL	& BELVA	Well numbe	r_109	
PRODUCING	FORMATI	ON(S)		DEPTHS					
Fifth Sand		,		2810'- 2836'	TVD		MD		
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Please insert ad	lditional pa	ges as ap	plicable.						
GAS TEST	□ Build up	Dr.	awdown	□ Open Flow		OIL TEST D	Flow Dum	p	
SHUT-IN PRE	SSURE	Surface		psi Bott	om Hole_	psi	DURATION	OF TEST _	hrs
OPEN FLOW	Gas	mcfpd	Oil		_ bpd	Water bpd	GAS MEAS		□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN NAME TY	FT DE	BOTTOM EPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTO DEPTH IN MD	FT DESCRIBE		•	ANTITYAND IL, GAS, H₂S, ETC)
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