

Illinois Department of Natural Resources Office of Oil and Gas Resource Management

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OG-31 Step Rate Test

62 IL.ADM.CODE SECTION 240.340(e)(2)(B)
Proposed Maximum Injection Pressure (MIP) - Alternate Compliance Method

	WEII				
Refe	rence #:	Well Name:			
Jppe	ermost Interval Open During Test				
	Formation Name:				
,	Top Depth(ft.):	Bottom Depth(ft.):			
to	o Doguirod.				
	s Required:	tion water and the company and in a superson we			
1.	Is a copy of the ticket (record of each inject and time, the table on page 2 may be used	alon rate and the corresponding pressure d as the ticket) from the step rate test included		<u>YES</u>	<u>NO</u>
2.	Is a chart (identifying the rate and resulting	•	۷.		
	included:	, ,		<u>YES</u>	NO
3.	enough that the bottom-hole pressure appr	f the shut-in period. (Prior to testing, shut in the coximates the shut-in formation pressure, if lest pressure and shut-in formation pressure we	ss than 2	24 hours	
_	Date Step Rate Test was conducted: Was an initial zero injection rate (pressure st	abilizina) etan parformad?	,	YES	NO
	, ,	abilizing) step perior ried: ate step at least 120% of the preceding rate?	-	YES	NO
	Was each step of equal length and of at leas		_	<u>YES</u>	NO
	Was the formation fracture pressure (FFP) 6			YES	NO
9.	If the answer to #8 is "YES", were at least 3	rate steps below the FFP conducted?	,	<u>YES</u>	NO
10.	If the answer to #8 is "YES", were at least 2	rate steps above the FFP conducted?	•	<u>YES</u>	<u>NO</u>
11. \	Was an existing fracture opened (if yes, no fo	uther rate steps are required)?		<u>YES</u>	<u>NO</u>
12.	If the answer to #8 and #11 is "NO", were a	t least 5 rate steps conducted?		<u>YES</u>	<u>NO</u>
i	If the answer to #8 or #11 is "YES", was the in pressure and 5-minute shut-down pressure.	re read and recorded?	-	<u>YES</u>	<u>NO</u>
	If the answer to #13 is "YES" provide the foll FFP or pressure at which an existing fractur	_	(DCI)		
	Shut-down pressure:	e opened.	(PSI) (PSI)		
	Instantaneous Shut-in Pressure (ISIP):		(PSI)		
,	5-minute shut-down pressure:		(PSI)		
	Testing Company Information: Company Name:				
	Contact Information:				
	Operator/Technician Name:				

Step Rate Test Ticket

Test Well Reference #:

Step	Step Start Time	Step End Time	Injection Pressure	Injection Rate	
<u>Number</u>	(hh:mm)	(hh:mm)	(PSI)	(bbls/min)	Comments/Description

Note

- Include the initial zero injection rate (pressure stabilizing) step in the "Ticket".
- Formation Fracture Pressure (FFP) The pressure necessary to initiate a fracture in intact rock.
- Treating Pressure The average wellhead pressure recorded during fracture propagation or the average wellhead pressure recorded while performing an acid treatment.
- Shut-down Pressure Pressure recorded at the time the pumps are shut-down.
- Instantaneous Shut-In Pressure (ISIP) the wellhead pressure immediately after pumps are shut down following a fracture treatment or step rate test. The ISIP is approximately equal to the treating or shut-down pressure minus wellbore and near-wellbore friction effects.
- 5-minute Shut Down Pressure Pressure recorded 5-minutes after the time the pumps are shut-down.

Note this form is intended to accompany an OG-3 or OG-4 application.