

Date 12-18-80 Western District Farmington (31) F. Receipt 347044
Operator JOHN H. HILL
Lease Hodges Well No. 19
Field Ballard Pictured Cliffs Location S28,T26N,R8W
County San Juan State New Mexico
State Number 1 This Zone ☐ This Well ☒

WELL DATA:	OG ☐ NG ☒ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐		Depth: 18/PB 2446		Formation Pictured Cliffs		
	Size Tubing ---		Tubing Perf. ---		Type Packer ---		
	Set From ---		To 2446		Set At ---		
	Size Casing 2 7/8		Wt. 6.5		Size Liner ---		
	Set From surface		To 2446		Wt. ---		
Liner Set From ---		To ---		Open Hole: Size ---		From --- To ---	
Casing Perforations: Size .34		Holes Per Foot 1		Intervals 2286, 2288, 2294, 2296, 2298, 2306, 2308, 2312, 2314, 2316, 2318 (11 holes)		Prior Production none	

TREATMENT DATA: Pad Used: Yes ☒ No ☐ Pad Type 70% Quality Foam, 2% KCl
Treating Fluid Type: Oil ☐ Water ☐ Acid ☐ Misc. ☐ Foam ☒ Emulsion ☐
Treating Fluid Volume Gals. 8,261.4 Fluid Description 70% Quality Foam, 2% KCl,
1/2 gal/1000 X-cide
Total Prop Quantity 45,000 Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐
Prop Mesh Sizes, Types and Quantities 10/20 frac sand, 45,000 lbs.
Hole Loaded With formation water Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul. ☐
Ball Sealers: -- In -- Stages of --
Types and Number of Pumps Used (1) Buffalo
Auxiliary Materials 51 gals. Adfoam: 8.4 gals. X-cide

Procedure Run 18.2 bbl pad, 1#/gal 10/20 sand for 35.7 bbls.; 2#/gal 10/20 for 142.8 bbls.; flush to top perforation (4.0 bbls.)

FLUID PUMPED AND CASCIDES IN BBLs.	
tubing Cap	--
casing Cap.	14.2
annulus Cap	--
open Hole Cap	--
fluid to Load	--
Fed Volume	18.2
Treating Fluid	178.5
Flush	4
Overflush	--
Total to Recover	200.7

[illegible]

Treating Pressure: Min.	0	Max.	2450	Avg.	2375
Inj. Rate on Treating Fluid	4.5	Rate on Flush	4.5		
Avg. Inj. Rate	4.5	I.S.D.P.	1500	Flush Dens. lb/gal	.97
Final Shut-in Pressure	1300	in	15	Minutes.	
Operator's Maximum Pressure	3500				
Job Number	5 min. shut in - 1400				
	10 min. shut in - 1350				

Customer Representative C. D. Moore
Western Representative P. W. Heiser
Distribution (9) JOHN H. HILL*
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Attn: Mr. Steve Connor
cc: Farmington District

