

**BREITBURN ENERGY PARTNERS
M STATE #12 RECOMPLETION**

PROJECT: M State 12: Recomplete Glorieta Formation

DRILLED: 2/14 LAST WO: 8/16 – CO and lower pump

LOCATION: 2264' FSL & 1702' FWL; Sec. 20, T-22S, R-37E

FIELD: Blinebry-Drinkard COUNTY: Lea STATE: NM

TD: 7,150' PBSD: 7,102' DATUM: 3,384' GL KB to GL: 12'

CASING AND LINER RECORD

SIZE	WT / GRADE	DEPTH	CEMENT	HOLE SIZE	TOC	REMARKS
13 3/8"	54.5# / J-55	1198	1090sx	17 1/2"	surf	
8 5/8"	32# / J-55 LTC	4002	950sx	11"	surf	Circ 71 bbls to surf
5 1/2"	20# / HCL-80	7150	2 stg (370sx, 340sx)	7 7/8"	600'	1.5bbl to surf

PRESENT FORMATION AND
COMPLETION:

Abo 6,672' – 6,724'; Drinkard 6,444' – 6,624';
Blinebry 5,808' – 5,970'

TUBING
& ROD

DETAIL: 212 Jts 2 7/8" J-55; 2 1/2" x 1 3/4" x 24' pump, 1 SB, shear tool, 11 SBs, 44-3/4" KDs, 68-7/8" T66, 100-1.25" FG

MISC.: Current Production: 20 BOPD, 208 MCFD, 34 BWPD

- ✓ Prior to MI, blow down well/kill as necessary
 - ❖ 5 1/2" 20#: ID = 4.778", Drift = 4.653", Bbls/ft = 0.0222, Ft/Bbl = 45.0918
 - L-80: Burst = 9,190 psi (100%), 7352 psi (80%)
 - ❖ 2.875" 6.5#: ID=2.441", Drift= 2.347, Bbls/ft= 0.00578, displacement= 0.00224
 - J-55: Burst= 7,260 psi; Collapse= 7,680 psi

Procedure:

This procedure will temporarily isolate current pools (Blinebry, Drinkard, Wantz;Abo) for the purpose of testing the Wildcat Glorieta.. Production from the Wildcat Glorieta will determine whether the zones will be permanently plugged or downhole commingled with the Glorieta..

1. MIRU PU. Unseat pump and POOH LD rods and 2.5" x 1 3/4" x 24' RHBC pump
2. Unset TAC. NU BOP, tag for fill and check PBSD, POOH, stand back 5,600' tbg, LD remainder.
3. PU & RIH w/ B&S + SN on 2 7/8" tbg to 5,600', POOH, LD B&S.

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4. MIRU WL. RIH w/ GR & JB to 5,600'. POOH. RIH w/ CIBP and set at 5,575'. Dump bail 10' cement on top. POOH. RDMO WL.
5. PU & RIH w/ 5 ½" AS-1X Pkr on tbg (test packer mandrel and SN before running) and test tubing in hole to 5,000 psi and set packer @ 5,450'; test CIBP to 5,000#. Test backside to 5,000# after bleeding pressure off tubing
6. MIRU acid company. If casing and plug test good, lower tubing to 5434 and spot 100 gals acid over perf interval, PU 100' and reverse circulate tubing to clean out packer and tubing (31 bbls to flush clean tubing). POOH w/ Pkr. LD Pkr. Standback tbg.
7. RU WL & Lubricator. Correlate to **Casedhole Solutions CBL/GR/CCL LOG** dated **2/24/14**. PU & RIH w/ perf gun & perforate 1st stage Glorieta Formation w/ 3 spf & 120° phasing as follows (B to T):

Stage 1 - Glorieta Perfs					
Top	Bottom	SPF	Net Ft	# Holes	Formation
5414	5418	3	4	15	Glorieta
5420	5422	3	2	9	Glorieta
5426	5430	3	4	15	Glorieta
5432	5434	3	2	9	Glorieta
Gross	20		12	48	

8. POOH w/ guns & confirm all shots fired. RD lubricator & WL.
9. RIH w/ treating pkr, SN, and tbg to 100' above top perf (~5,300') and Set pkr and prep for job
10. Acidize w/ 1,300 gals (2.5bbls/net ft) 15% HCL with NEFE.
 - a. With bypass and casing open start pumping acid at 1-2bpm; After pumped 28.9 bbls acid, set down on packer to close bypass, pump rest of acid (2.05 bbls) and 32bbls flush at 4 bpm (to fully displace acid to top perf). **Don't stop pumping, ramp up rate right after bypassed is closed.**
 - b. While pumping acid stage, drop 5 ball sealers after the first 200 gals, then drop 5 balls every 100 gals for a total of 50 ball sealers
 - c. **Monitor ball action for indications of pressure increases and watch for pressure spike nearing end of job as some perfs may be tight or not fully opened.**
11. RD acid company. Monitor pressure for indications of vacuum or increases 30 min
12. RU swab equipment. Swab test well to tester and temporary tanks until further plans are determined. Notate all fluid levels and approximate load recoveries
13. Swab for 4-5 days for indication of fluid production and prep to perf and stimulate remaining stages.
14. Stages will be as follows and will have similar procedures:

Stage 2 - Glorieta Perfs					
Top	Bottom	SPF	Net Ft	# Holes	Formation
5350	5352	3	2	9	Glorieta
5355	5358	3	3	12	Glorieta
5361	5363	3	2	9	Glorieta
5365	5367	3	2	9	Glorieta
5371	5374	3	3	12	Glorieta

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5377	5380	3	3	12	Glorieta
5382	5386	3	4	15	Glorieta
5389	5391	3	2	9	Glorieta
Gross	41		21	87	

Stage 3 - Glorieta Perfs					
Top	Bottom	SPF	Net Ft	# Holes	Formation
5278	5280	3	2	9	Glorieta
5282	5284	3	2	9	Glorieta
5294	5298	3	4	15	Glorieta
5301	5303	3	2	9	Glorieta
5308	5314	3	6	21	Glorieta
5323	5324	3	1	6	Glorieta
5326	5331	3	5	18	Glorieta
Gross	53		22	87	

Stage 4 - Glorieta Perfs					
Top	Bottom	SPF	Net Ft	# Holes	Formation
5129	5142	3	13	42	Glorieta
5154	5164	3	10	33	Glorieta
5195	5206	3	11	36	Glorieta
Gross	77		34	111	