



KB: 17' above GL

Cimarex Energy Co. of Colorado
Shelley 34 State 1 (Monument Field)
800' FNL & 330' FEL
Sec. 34, T-19S, R-37E, Lea Co., NM

H. Eads

6/8/2012

CURRENT

12-1/4" Hole

29 jts 8-5/8", 24# J-55 csg @ 1230'
cmtd w/ 580 sx, circ 155 sx

DV Tool @ 3847'

Rods : 75 - 7/8" D rods
190 - 3/4" N97 rods

Pump: 2" X 1-1/2" X 20' RHBC

207 jts 2-3/8" 4.7# 8rd J-55 Tbg

Tubb perms: (6656' - 6660')
(6694' - 6698')
(6738' - 6742')

CIBP @ 6935'
Drinkard perms: (6950' - 6967')
CIBP @ 6980'
Drinkard perms: (6987' - 6991')
(6996' - 7000')

7-7/8" Hole

4-1/2", 11.6# N-80 csg @ 7190' - 169 jts
cmt w/ 1500 sx (Stg 1: 750, circ 166 & Stg 2: 750, no circ)

PBTD @ 6935'

TD @ 7190'



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PROPOSED

12-1/4" Hole

29 jts 8-5/8", 24# J-55 csg @ 1230'
cmtd w/ 580 sx, circ 155 sx

DV Tool @ 3847'

Glorieta Perfs @ 5326' - 5334'

CIBP @ 6645'

Top of Tubb @ 6,434'

Tubb perfs: (6656' - 6660')
(6694' - 6698')
(6738' - 6742')

CIBP @ 6935'

Drinkard perfs: (6950' - 6967')

CIBP @ 6980'

Drinkard perfs: (6987' - 6991')
(6996' - 7000')

7-7/8" Hole

4-1/2", 11.6# N-80 csg @ 7190' - 169 jts
cmt w/ 1500 sx (Stg 1: 750, circ 166 & Stg 2: 750, no circ)

PBTD @ 6935'

TD @ 7190'



AFE No:

Procedure Sheet – Hobbs District

PLEASE COMMENCE WITH WORK PER PROCEDURE

Shelley 34 State 1

Recomplete Well in Glorieta Dolomite

Current Well Data:

KB	17' above GL
TVD/PBTD	7,190'/6,935'
KOP	N/A Vertical Well
Perfs	Tubb (6656' – 6742')

Casing

Size	Weight	Grade	Thread	Set at	Cmt	Remarks
8-5/8"	24#	J-55	ST&C	1412'	640 sx	circ 115 sx
4-1/2"	11.6#	J-55	LT&C	7190'	1500 sx	DV @ 3847'

Tubing

Quantity	Description	Length	Setting Depth
210	2-3/8" 4.7# J-55 EUE 8rd tbg	6303.93	6321.43
1	2" x 4-1/2" TAC	2.60	6324.03
7	2-3/8" 4.7# J-55 EUE 8rd tbg	315.86	6639.89
1	2-3/8" SN	1.10	6640.99
1	2-3/8" Perf sub w/ BP	4.10	6645.09

Rods

Quantity	Description	Length
1	1-1/4" x 22' PR	22.00
2	7/8" Grade D pony rods (6' & 8')	14.00
75	7/8" Grade D rods	1875.00
180	3/4" N97 rods	4500.00
8	1-1/2" K-bars	200.00
1	Lift sub w/ RHR	2.00
1	2" x 1-1/2" x 20' RHBC	20.00

Procedure:

Notify BLM 24 hours prior to starting operations
Max Treating Pressure = 8,000 psi

1. Hold operational safety meeting on location; discuss all risk and potential dangers.
2. MIRU Pulling unit.
3. Kill well if necessary w/ 2% KCL.



AFE No:

4. TOOH w/ Rods and 2-7/8" tbg.
5. PU 4-3/4" bit and 5-1/2" casing scraper. RIH to 6,650'.
6. TOOH, LD bit and scraper. PU 5-1/2" CIBP.
7. TIH to 6,645' and set CIBP. Spot 3 sacks of sand on top of CIBP.
8. Release from the CIBP and PU 1 joint, Circulate well w/ 155 bbls of 2% KCL.
 - a. Pressure Test Casing to 500#. Hold 30 minutes.
9. TOOH w/ 2-7/8" tbg standing back tbg.
10. RU WL. RIH w/ Select fire perforating guns and a gamma ray gun.
 - a. Correlate gamma ray back to Halliburton "Spectral Density/Dual Spaced Neutron/Spectral Gamma" dated 06/26/2002.
11. Perforate the Glorieta, 5,326' – 5,334' w/ 0.41" EH, 3 SPF, 120-degree phasing, and 27 total shots.
12. RIH w/ 2-7/8" tbg and 2-7/8" x 4-1/2" Treating Packer.
 - a. Hydrotest 2-7/8" tubing to **MTP: 8,000 psi**
13. RIH and set packer at ± 5,275' w/ 20 pts compression.
14. RD WL. RU Acid Crew and pressure test lines to **MTP: 8,000 psi**.
15. Pressure up casing to 500# to monitor pressures while acidizing.
16. Acidize the perforated interval w/ 5,000 gals 15% HCL.
 - a. Pump At 5-6 BPM
 - b. Drop 3 ball sealers every 555 gals
 - c. Flush tbg w/ 50 bbls of 2% KCL.
17. RU flowback equipment in such a way that production can be turned to the battery once hydrocarbons are detected.
18. Flowback well until it dies (if at all).
19. RIH w/ tbg and rods.
20. Return to production.