

**HJ "13" Federal Com No. 1
Bone Spring Recompletion**

API No.: 30-015-23781

Location: 1980' FSL & 2310' FWL Section 13, T-19S, R-31E
Eddy County, New Mexico

Elevation: 3558' GL

KB: +18'

TD: 12,690'

PBTD: 10,345'

Casing & Cement:

13-3/8", 54.5#/ft., K-55, ST&C @ 604' cmt. w/625 sx. circulated

8-5/8", 32#/ft., K-55, ST&C @ 4101' cmt. w/1772 sx. Circulated via 1"

5-1/2", 17#/ft., N-80, LT&C @ 12,696' cmt. w/1250 sx. TOC @ 8,360' by CBL

Tubing:

282 joints (9207') 2-7/8", 6.5#/ft., N-80, EUE tubing

Existing Perforations:

Morrow: 12623'-37', 12595'-608', 12341'-97'

CIBP: 11,910' capped w/35' cement

Existing Perforations:

Atoka: 111939'-54', 11790'-810'

CIBP: 11,750' capped w/35' cement

Existing Perforations:

Wolfcamp: 10418'-26', 10436'-40', 10459'-74'

CIBP: 10,380' capped w/35' cement

Existing Perforations:

Bone Spring 2nd Sand: 9174'-94'

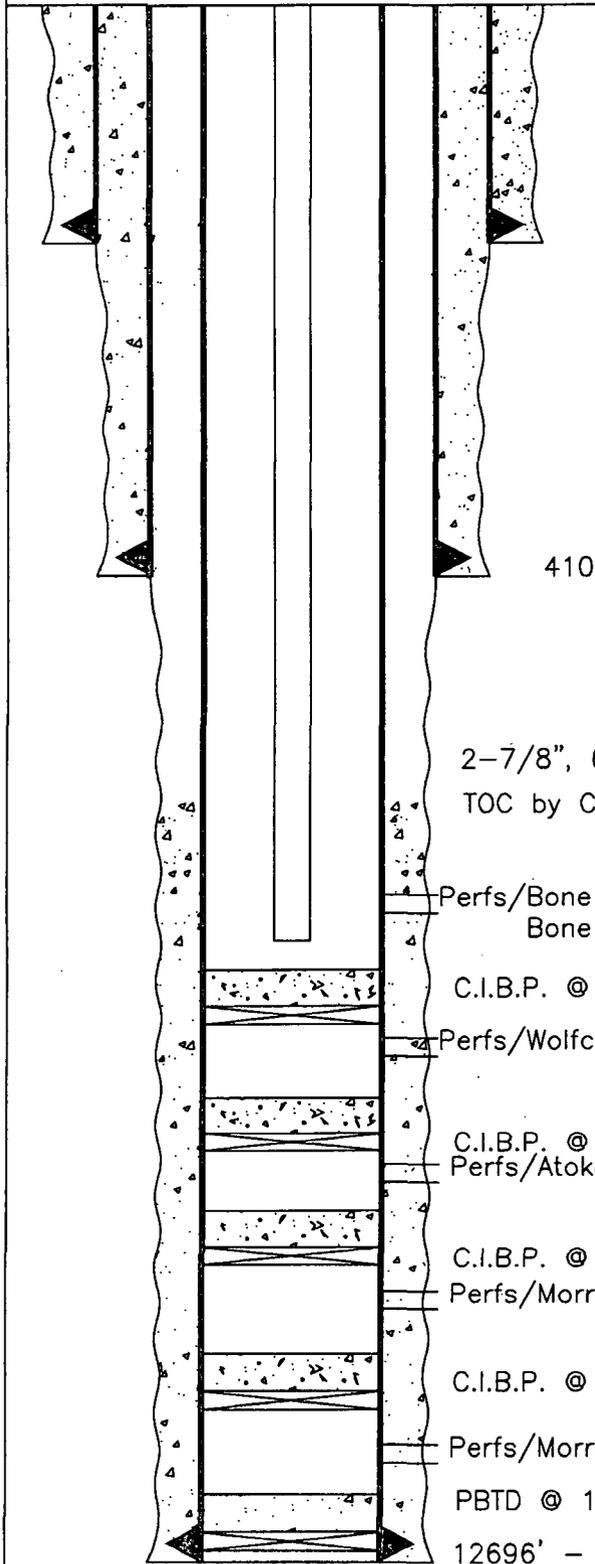
Bone Spring 1st Sand: 8513'-16', 8520'-30', 8534'-39'

Work Performed:

1. 11/11/13 - MIRU well servicing unit. ND wellhead. NU 5M hydraulic BOP; tested to 5M.
2. Released production packer at 10214'. Loaded and circulated hole w/230 bbls. 2% KCL TFW. TOO H and laid down 2-3/8" tubing. ND BOP. NU frac stack.
3. RD well servicing unit.
4. 11/12/13 - RU Schlumberger wireline unit. PU 5-1/2" CIBP. TIH and tagged cement plug @ 11,715' (COA requirement). Pull up and set CIBP @ 10380'. Spotted 35' cement on top of plug. WOC 4 hours and tagged plug (O.K'd by Jennifer/Wesley).
5. 11/13/13 - Tested 5-1/2" casing to 4300 psig. Held O.K.
6. Perforated 2nd Bone Spring sand w/2 JSPF (42 holes) from 9174'-94'.
7. 12/10/13 - Rigged up BakerHughes. Frac 2nd Bone Spring sand w/4540 bbls. freshwater carrying 1200 lbs. 20/40 sacked sand + 13,774 lbs. liteprop + 7400 lbs. 20/40 Garnet RC. Injection rate 60 BPM. Average treating pressure 3710 psig.
8. 12/12/13 - RU Schlumberger wireline unit. TIH w/5-1/2" composite flow through bridge plug. Set plug at 9000'. Perforated 1st Bone Spring sand 8513'-16', 8520'-30', 8534'-39' w/2 JSPF (42 holes total).
9. Frac 1st Bone Spring sand w/1500 gals. 15% HCL-NE-FE acid + 4220 bbls. fresh water carrying 856 lbs. 20/40 sacked sand + 13,760 lbs. 14/40 liteprop + 9985 lbs. 20/40 Garnet RC. Injection rate 60 BPM. Average treating pressure 3373 psig.
10. 12/13/13 - RU Metering & Testing. Flowed back 980 BW. Well died.
11. ND Frac stack. NU BOP.
12. 1/2/14 - MIRU Reeco Well Service pulling unit. RU TFH reverse unit. PU 4-3/4" bit, DCs, and 2-7/8" tubing. TIH, circulated out sand on top of composite plug and drilled out plug set at 9000'. Continue in hole to 9300'. Circulated hole clean. TOO H.
13. 1/6/14 - RU and run 282 joint 2-7/8", 6.5#/ft. N-80 production tubing w/EOT at 9207'.
14. ND BOP. NU wellhead.
15. 1/7/14 - Run pump and rods. Space out and hang well on. Flowing back load water.

BONE SPRING RECOMPLETION
01/01/14

Elevation: 3558GL KB: +18'



17-1/2" Hole
604' - 13 3/8", K-55, 54.5#, ST&C Casing
Cemented w/625 sxs. Circulated to Surf.

12-1/4" Hole
4101' - 8-5/8", K-55, 32#, ST&C Casing.
Cemented w/1770 sxs. Circulated to Surface

7-7/8" Hole
2-7/8", 6.5#/ft, N-80, EUE Tbg. @ 9207'
TOC by CBL 8360'

Perfs/Bone Spring 8513'-16', 8520'-30', 8534'-39'
Bone Spring 9174'-94'

C.I.B.P. @ 10380' w/35' Cement on Top

Perfs/Wolfcamp 10418'-24', 10436'-40', 10459'-74'

C.I.B.P. @ 11750' w/35' Cement on Top
Perfs/Atoka 11788'-810'

C.I.B.P. @ 11910' w/35' Cement on Top
Perfs/Morrow 11939'-54'

C.I.B.P. @ 12300' w/35' Cement on Top

Perfs/Morrow 12341'-97', 12595'-608', 12623'-37'

PBTD @ 12654'

12696' - 5 1/2", 17#, N80
Cement w/1250 sxs. Class 'H'

T.D. @ 12697'

Lynx Petroleum Cons.
Federal 'HJ' 13 No. 1
1980' FSL & 2310' FWL
Sec. 13, T-19S, R-31E
Eddy County, N.M.