

CLINE A-15 NO. 2

RE-COMplete IN LANGLIE MATTIX

WELL DATA

PBTD: 5770' ELEVATION: 3308' KB ZERO: 8' GL
LOCATION: 660' FSL & 660' FWL, Section 15, T-23S, R-37E, Lea County, New Mexico
CASING: 13-3/8", 36# surface casing @ 230' w/200 sx.
 9-5/8", 36#, J-55 & H-40 production casing @ 3409' w/600 sx.
 TOC @ 2110' by temp. survey
 7", 20#, J-55 liner from 3336' to 3874' w/200 sx.
 4-1/2", 11.6#, J-55 liner from 3374' to 5800' w/230 sx.

RECOMMENDED PROCEDURE

1. Rig up. If necessary, load and kill well with treated fresh water.
2. Tag bottom with tubing and tally out of hole.
3. GIH w/3-7/8" bit, 4-1/2" casing scraper, and 2-3/8" tubing. Clean out liner from $\pm 3374'$ - $\pm 4100'$.
4. POOH w/bit, casing scraper and tubing.
5. GIH w/4-1/2" cast iron bridge plug. Set CIBP @ $\pm 4000'$. POOH w/tubing.
6. GIH w/9-5/8" treating packer. Set packer @ $\pm 3100'$. Pressure up on tubing to 2500 psi. (This is to determine if the top of the 7" and 4-1/2" liners will withstand the estimated treating pressure.) If the liner tops will not hold pressure, report results to the office. If the liner tops will hold pressure, POOH w/the packer, run the tubing back in the hole open ended, and proceed to step 7.
7. Spot 500 gals. (12 bbls.) 15% HCL-NE acid w/iron sequestering agent from 3370'-3200'. (Inhibit acid for 24 hrs. @ 100°F)
8. POOH w/tubing.
9. Rig up and run GR-Collar log from 3800'-2000'.
10. GIH w/3-5/8" decentralized casing gun (0.40" hole diameter and 0° phasing) w/a collar locator. Perforate from top to bottom w/1 JSPF as follows:
3240'-42', 3255', 3300', 3350', 3360', & 3370' (8 perfs. total)
11. POOH w/perforating gun. GIH w/9-5/8" treating packer and tubing. Set packer @ $\pm 3100'$.

12. Acidize perforations from 3240'-3370' as follows:
 - a. Pump 800 gals. (19 bbls.) 15% HCL-NE acid w/iron sequestering agent down the tubing @ 4-6 BPM.
 - b. Release 2, 7/8" ballsealers after the first 100 gals. of acid and every 100 gals. thereafter. (14 balls total)
 - c. Flush to bottom perforation (3370') w/32 bbls. treated fresh water. Limit surface treating pressure to 2500 psi.
13. Release packer @ 3100'. Lower packer to 3310' to knock ballsealers loose. POOH w/tubing and packer.
14. GIH w/2-3/8" tubing open ended. Spot 126 gals. (3 bbls.) 15% HCL-NE acid with iron sequestering agent from 3598'-3405'. (Inhibit acid for 24 hrs. @ 100°F)
15. POOH w/tubing.
16. GIH w/3-5/8" decentralized casing gun (0.40" hole diameter and 0° phasing) w/collar locator. Perforate from top to bottom w/1 JSPF as follows:
 3470'-78', 3487', 3495', 3506', 3524'-26', 3536'-56', 3574'-78', 3592'-98'
 (48 perfs total)
17. POOH w/perforating gun. GIH w/4-1/2" treating packer and 2-3/8" tubing. Set packer @ ±3400'.
18. Acidize perforations from 3470'-3598' as follows:
 - a. Pump 4000 gals. (95 bbls.) 15% HCL-NE acid w/iron sequestering agent down the tubing @ 4-6 BPM.
 - b. Release 2, 7/8" ballsealers after first 100 gals. acid and every 100 gals. thereafter. (78 balls total)
 - c. Flush to bottom perforation (3598') w/16 bbls. treated fresh water. Limit surface treating pressure to 4000 psi.
19. Release packer @ 3400'. Lower packer to 3600' to knock ballsealers loose. POOH w/tubing and packer.
20. GIH w/9-5/8" treating packer and 2-7/8" work string. Set packer @ ±3100'.
21. Rig up and fracture treat the Langlie Mattix perforations from 3240' to 3598' in three stages down the 2-7/8" tubing at 15 BPM as per the following:

Max. allowable surface pressure: 2500 psi.
 Est. wellhead treating pressure: 2500 psi.

 - a. Pump 2000 gals. YF2PSD pad.
 - b. Pump 2000 gals. YF2PSD w/1 ppg 20/40 sd.
 - c. Pump 2000 gals. YF2PSD w/2 ppg 20/40 sd.
 - d. Pump 2000 gals. YF2PSD w/3 ppg 20/40 sd.
 - e. Pump 2000 gals. YF2PSD w/4 ppg 20/40 sd.
 - f. Release 18, 7/8" ballsealers.
 - g. Repeat steps a thru f for second stage.
 - h. Repeat steps a thru e for third stage.
 - i. Displace w/22 bbls. slick 2% KCL water.
 - j. Record 5, 10, and 15 min. ISIP.
 - k. Shut well in for 4 hrs.

FRAC FLUID COMPOSITION
(DOWELL)

YF2PSD - 30,000 gals. with the following additives:

480 lbs. J84	60 lbs. J218
30 gals. F75	60 gals. J318
5200 lbs. KCL	500 gals. J221
600 lbs. J347	180 lbs. L10
60,000 lbs. 20/40 sand	

22. POOH w/tubing and treating packer.
23. Clean out fill to ±3700' w/sand pump. Run 2-3/8" production string. Swab test well and report results to the office.

Mark A. Whitaker
PREPARED BY

3/10/80
DATE

Larry E. Smith
SUPERVISING PRODUCTION ENGINEER

3/10/80
DATE

DIVISION ENGINEER

DATE

DRILLING SUPERINTENDENT

DATE

dlb

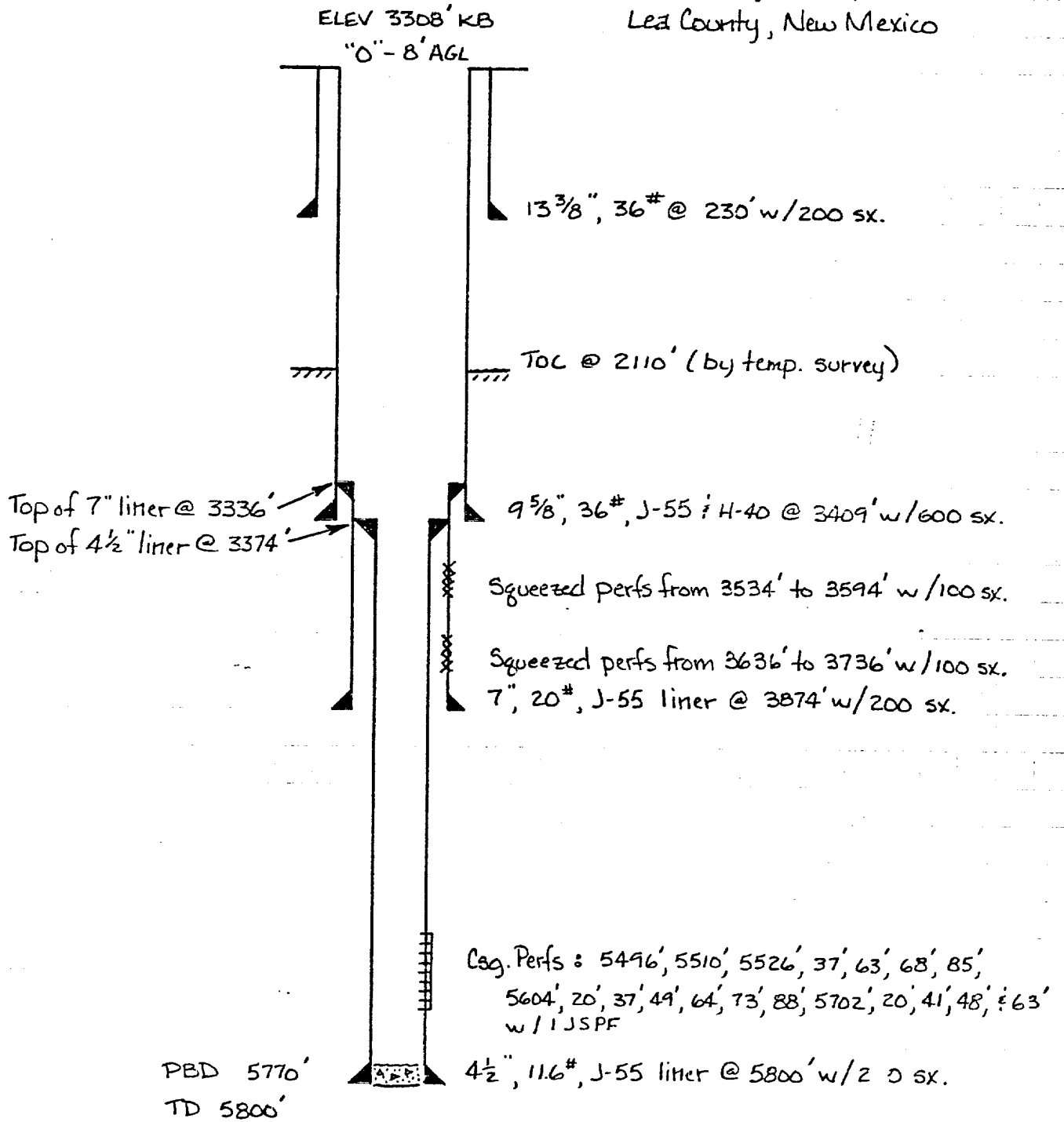
cc: DLW, LRS, HCP, JFB (5), CRP, MAW, FILE, DLB

Cline A-15 No. 2

660' FSL $\frac{1}{2}$ 660' FWL

Section 15, T-23S, R-37E

Lea County, New Mexico

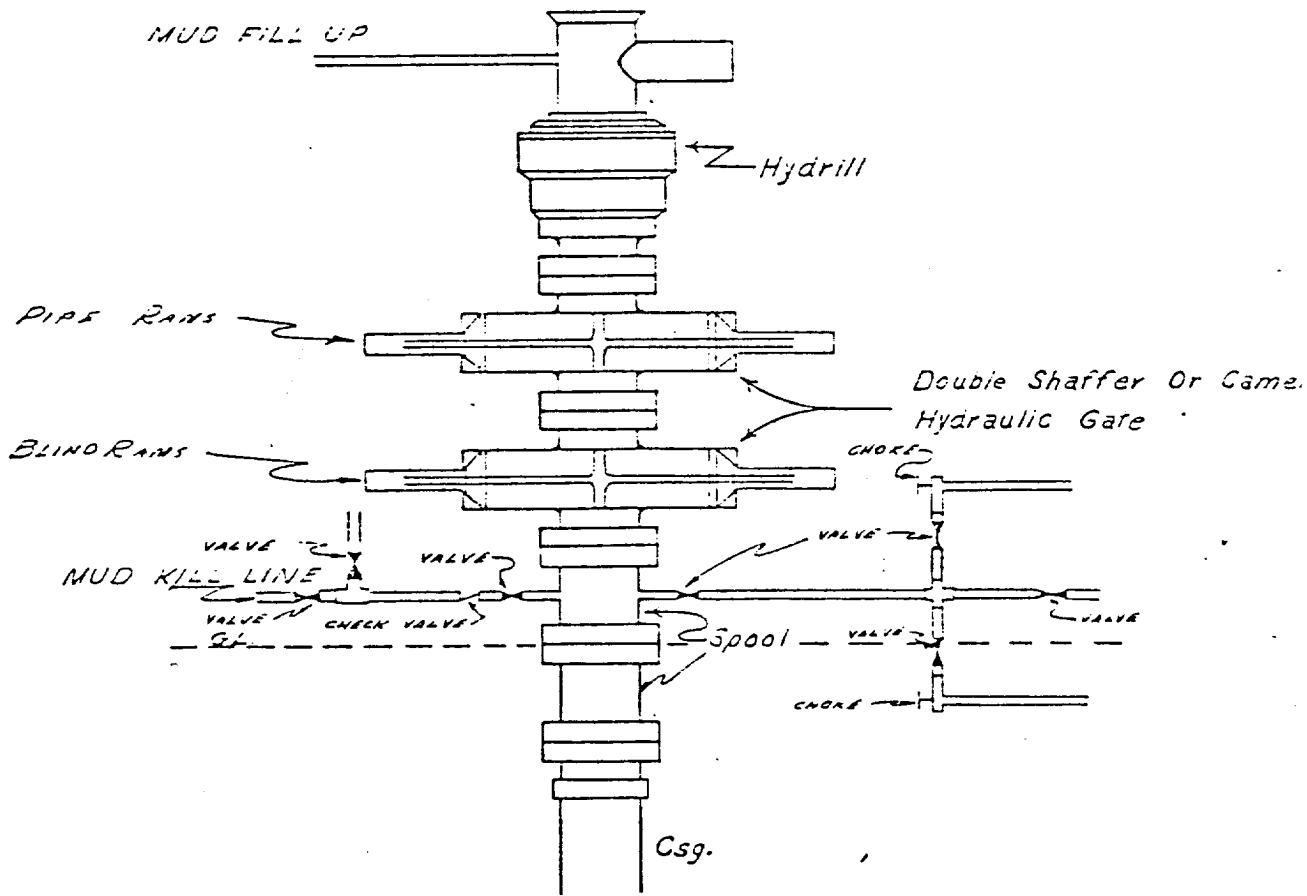


MAW

2/22/80

NMFU

CONTINENTAL OIL COMPANY
Blow-out Preventer Specifications



API SERIES 900

NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head. Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,

HYDRILL NOT USED.