

## Wellbore Schematic

|                          |  |                      | Wellbore ochematic          |                                       |                     |
|--------------------------|--|----------------------|-----------------------------|---------------------------------------|---------------------|
| Well Name:               | Jicarilla We                                 | st 2                 |                             | Date Prepared:                        | 7/17/2019           |
| Location:                | UL A, Sec 06, T26N, R05W 860' FNL & 950' FEL |                      |                             | Last Updated:                         | Hespe               |
| County:                  | Rio Arriba                                   |                      |                             | Spud Date:                            | 1/21/1960           |
| API#:                    | 30-039-067                                   | 43                   |                             | Completion Date:                      | 1/29/1960           |
| Co-ordinates:            | Lat 36.5209                                  | 5° Long -107.39396°  | NAD83                       | Last Workover Date:                   |                     |
| Elevations:              | GROL   | JND: 6543'           |                             |                                       |                     |
|                          |  | KB: 6555'            |                             | <u> </u>                              |                     |
| Depths (KB):             | PE   | BTD: 3263'           |                             |                                       |                     |
|                          |  | TD: 3300'            |                             |                                       |                     |
|                          |  |                      |                             |                                       |                     |
|                          | All depths                                   | KB Hole Size         | Surface Casing: (1/21/19    | 960)                                  |                     |
| Surface Casing           |  | 11"                  | Drilled 11" surface hole to | 175'. Ran 5 jnts 8-5/8", 24#, J-55 s  | set at 174'         |
| 8-5/8", 24#, J-55        |  | 0-175'               | Cemented w/ 100 sxs w       | // 2% CaCl.                           |                     |
| 5 jts at 174'            |  |                      |                             |                                       |                     |
| 100 sx                   | 174'   | TOC at surface (calc | :)                          |                                       |                     |
| TOC at surf.             |  | Per Calc             |                             |                                       |                     |
|                          | 111  | V 30.0 A30.0 A50.0   |                             |                                       |                     |
|                          | 111  |                      | Production Casing: (1/28    | 3/1960)                               |                     |
|                          | 111  | 7-7/8"               |                             | hole to 3300'. Ran 99 jnts 5-1/2", 1  | 15.5# set at 3300'. |
|                          |  | 175'-3300            |                             | w/ 8% gel + 50 sxs w/ 2% CaCl.        |                     |
|                          |  |                      |                             | assuming 1.18 yield and 75% effici    | ency.               |
| <b>Production Liner</b>  |  |                      |                             | , , , , , , , , , , , , , , , , , , , |                     |
| 5-1/2" 15.5# J-55        |  |                      | Tubing: (2/2/1960)          |                                       | length (ft)         |
| 99 its set at 3300'      | 111  |                      | KB                          |                                       | 12                  |
| 150 sxs                  | 111  |                      | (108) 1-1/4" 2.4# J-55 tubi | na ints                               | 3219                |
| TOC at 2497' per         | calc   |                      | (100) 1 114 2.411 0 00 1001 | ing jinto                             | OLIO                |
| 100 at 2 for por         |  |                      | -                           |                                       |                     |
|                          |  |                      |                             | Set at:                               | 3231                |
|                          | 111  | 1                    | Perforations:               |                                       | 0201                |
|                          |  |                      | Pictured Cliffs: 3180'-3212 | 2' 3224'-3240' 2 SPF                  |                     |
|                          |  | 1                    |                             | 000# 20/40 sand and 10000# 10/20      | sand                |
| Tubing                   | 111  |                      | 41412 gai water w/ 500      | 700# 20/40 Sand and 10000# 10/20      | Sanu.               |
| 1-1/4" 2.4# J-55         |  | TOC at 2497'         | -                           |                                       |                     |
| 108 ints set at 323      | 81'  | per calc             | Formations:                 |                                       |                     |
| וונס אלו אלו אלו אלו אלו | "  | per care             |                             | 2712'                                 |                     |
|                          |  |                      |                             | 2900'                                 |                     |
|                          | 111  |                      | riullianu-                  | 2300                                  |                     |

Pictured Cliffs-

Lewis-

3170' 3250'

Additional Notes:
No Workover Since Completion in 1960.

PBTD - 3263' TD - 3300'

o PC: 3180'-3212' o PC: 3224'-3240'

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