

NMGSAU #364 (30-025-38318)

AFE: 11-17-1429

Work Objective: Add pay in and acidize upper interval in the Grayburg.

Day 1: RU SU. POOH w/pump and rods.

NU BOP. POOH w/tubing. Note scale and paraffin deposits as well as location of deposits on report. Notify Midland engineering of type and amount of scale encountered as soon as tubing is pulled.

Day 2: RIH w/bit and scraper. RIH to $\pm 4043'$ and tag for fill. POOH.

MIRU WL Unit. Perforate as follows w/2 SPF and 180 degree phasing:

3636' – 56'

3660' – 76'

3680' – 88'

RIH w/RBP. **Set RBP @ $\pm 3751'$. Set packer @ $\pm 3600'$.** Acidize Upper Grayburg w/4000 gals 15% HCl acid (Grayburg Blend) and ball sealers. Record ISIP, 5 min, 10 min, and 15 min shut-in pressures.

Release packer and RBP. POOH w/packer and RBP.

Day 4/5: Finish POOH w/tubing and lay down packer. Test in hole w/2-7/8" tubing. RIH w/pump and rods. POP.

GL=3674'
KB=3686'
Spud: 6/1/07

Apache Corporation – NMGSAU #364

Wellbore Diagram – Proposed Status

Date : 8/1/2017
J. Bower

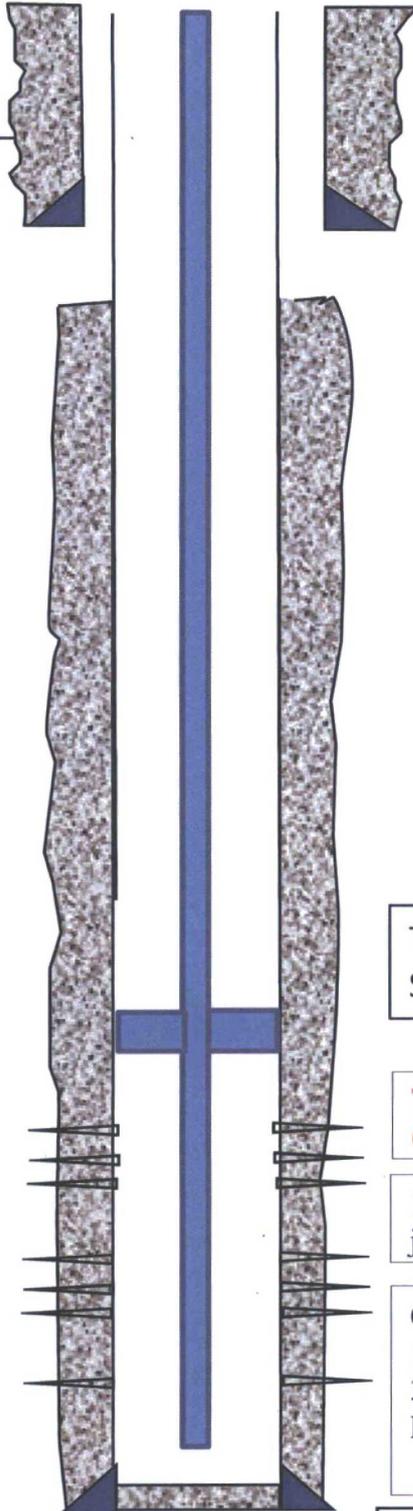
API: 30-025-38318

Surface Location



10' FSL & 1420' FWL,
Sec 19, T19S, R37E, Lea County, NM

Hole Size
=11"



Surface Casing

8-5/8" 24# J-55 @ 395' w/ 282 sx to surface

TAC @ ????'
SN @ 3907'

TBD: Perf Grayburg @ 3636' - 56', 3660' - 76', 3680' - 88' w/ 2 jspf (94 holes) Acidize w/4000 gal 15% NEFE acid

12/11: Perf Grayburg @ 3801-08; 3814-34; 3838-46; 3850-58 w/ 2 jspf (86 holes). Acidized w/ 3000 gal 15% NEFE acid

6/07: Perf Grayburg @ 3888-3902 w/ 2 jspf (40 holes). Acidized w/ 1000 gal 15% NEFE acid.

3/14: Treat perfs fr/ 3801-3858' & 3888-3902' w/ blue spark tools. Return to production.

Hole Size
=7-7/8"

PBTD = 4043'
TD =4120'

Production Casing

5-1/2" 17# J-55 @ 4120' w/ 1231 sxs

GL=3674'
KB=3686'
Spud: 6/1/07

Apache Corporation – NMGSAU #364

Wellbore Diagram – Current Status

Date : 7/7/2016
K. Grisham

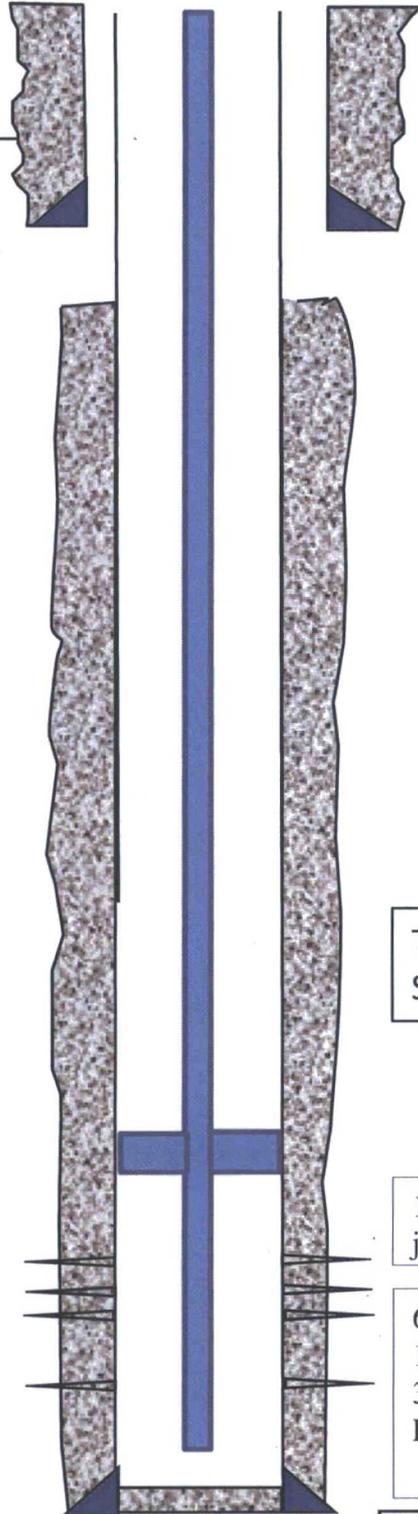
API: 30-025-38318

Surface Location



10' FSL & 1420' FWL,
Sec 19, T19S, R37E, Lea County, NM

Hole Size
=11"



Surface Casing
8-5/8" 24# J-55 @ 395' w/ 282 sx to surface

TAC @ 3715'
SN @ 3907'

12/11: Perf Grayburg @ 3801-08; 3814-34; 3838-46; 3850-58 w/ 2 jspf (86 holes). Acidized w/ 3000 gal 15% NEFE acid

6/07: Perf Grayburg @ 3888-3902 w/ 2 jspf (40 holes). Acidized w/ 1000 gal 15% NEFE acid.
3/14: Treat perfs fr/ 3801-3858' & 3888-3902' w/ blue spark tools.
Return to production.

Hole Size
=7-7/8"

PBTD = 4043'
TD = 4120'

Production Casing
5-1/2" 17# J-55 @ 4120' w/ 1231 sxs