

GCU 221
Dakota
API # 30-045-11649
T-29N, R-12-W, Sec. 31
San Juan County, New Mexico

Reason/Background for Job

The proposed work is to re-complete the GCU 221 to Pinon North Gallup trend in the Mancos formation. The proposed work is to isolate the Dakota, perf and frac the Gallup with approx 100,000# of sand in a 70Q foam. Then clean out, re-open the Dakota and set well back on production.

1. Retrieve plunger and stop (if still in well)
2. Set barriers
3. MIRU service rig
4. NU BOP
5. Pull tubing
6. Run bit & scraper; Cleanout
7. Set composite bridge plug to isolate DK
8. MIT wellbore to 1800 psi (maximum expected reservoir pressure 1600 psi)
8. Run logs (CBL & PND)
9. Change out wellhead
10. Perforate Gallup
11. RIH frac string and set packer (if casing MIT indicates issues)
12. Set up frac stack and pressure test
13. Pressure test frac string and packer (if applicable)
14. RDMO
15. Frac Gallup - 70Q N2 foam and \pm 100K # of sand
16. Flowback
17. Install BH gauges for the duration of facilities installation
18. Install facilities
19. MIRU Service Unit
20. Drill out composite plug; Clean out to PBTD
21. Run production tubing and land @ \pm 6125'
22. Run Pump and rods & produce well (DH commingle)

Current WBD



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Well History

02/1966 - Spud in
 03/1966 - Complete DK
 04/1969 - Cut paraffin in tubing from 1300' to surface
 10/1969 - Cut paraffin in tubing from 1200' to surface
 11/1969 - Cut paraffin in tubing from 800' to surface
 03/1970 - Cut paraffin in tubing
 10/1970 - Cut paraffin in tubing from 250' to surface
 07/1971 - Cut paraffin in tubing from 760' to surface
 12/1981 - Wirelined. Installed plunger.
 01/1995 - Swabbed well.
 11/2000 - WL - Fish plunger at 5978'. Tag fill at 5979'; broach tubing to 5978'. set plunger stop at 5970'
 02/2011 - WL - pull plunger; pull hard up to 1000' pull plunger stop; tag @ 5966'; retrieve what looked like the bottom part of a plunger; Impression block showed a mandrel off a slip stop; Reset plunger stop @ 5953'
 12/2012 - WL - Pull plunger but could not pull stop; stop @ 5940' WLM

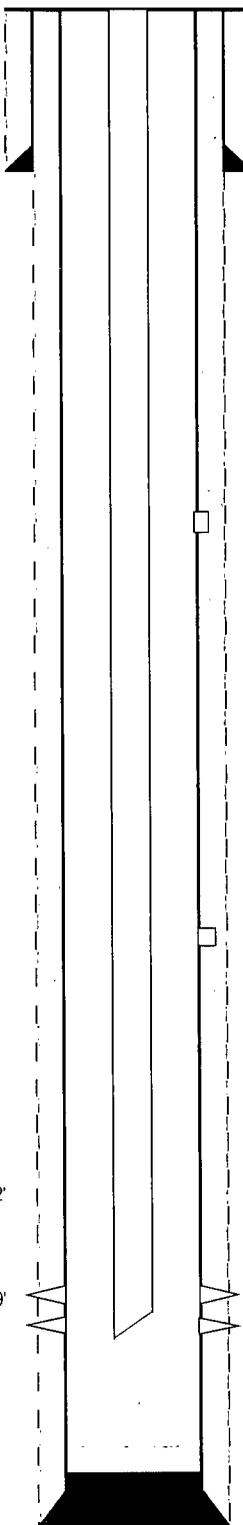
Formation Tops	
Pictured Cliffs	1460
Lewis Shales	1650
Mesaverde	3060
Mancos	4,220
Gallup	5130
Base Gallup	5695
Greenhorn	5905
Graneros Shale	5959
Graneros Dakota	6010
Main Dakota	6092

Deviation Data	
Depth (ft)	Dev (deg)
347	0.75
764	0.75
1517	0.5
1912	0.5
2552	0.5
2942	0.75
3400	0.5
4041	0.75
4560	0.75
5061	0.75
5436	1
6047	0.75

Plunger stop stuck @ 5952'

EOT @ 6019'

GL 5589'
 KB 5601'



Surface Casing Data

12 1/4" Hole
 8 3/4", 24#, @ 347'
 Cmt w/ 225 sks
 TOC @ surf

DV Tool @ 1696'

Tubing Details

2 3/8", EOT @ 6019'

DV Tool @ 4288'

Perforation Data - Dakota

6013 - 6028' ; 6044 - 6053'
 frac w/ 48 K gals wr, 40K # snd
 6098 - 6118' & 6132 - 6142'
 Frac w/ 56,440 gals wr, 50,000# snd

Production Casing Data

7 1/8" Hole
 4 1/2", 10.50#, @ 6193'
 Cmt: 1st stage w/ 500 sx
 2nd stage: 550 sx
 3rd stage: 450 sx
 TOC @ surf

PBDT: 6159'
 TD: 6193'

Final WBD



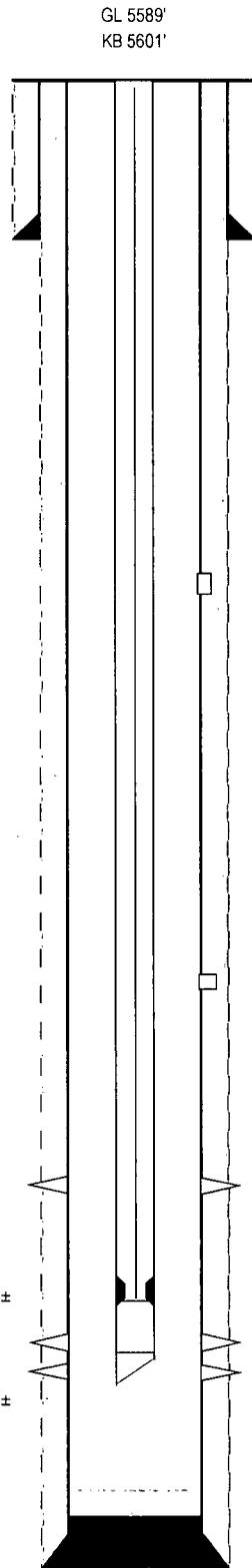
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Tubing Details

MS 2 3/4", 4.7#, J55 x 20' ±
 F nipple 2 3/4" x 1.78"
 Tbg 2 3/4", 4.7#, J55 EUE

DV Tool @ 1696'

Rod Details

Pump 2" x 1 1/2" x 16' RHAC
 Sinkers 1 1/4" x 200' ±
 Rods 3/4" grd D x 1275' ±
 Rods 7/8" grd D, slim hole cpl x 1575' ±
 Fiber rod 1" x 3045' ±
 Polished rod 1 1/2" x 26' ±

DV Tool @ 4288'

Proposed Perfs - Gallup

5554 - 5570'

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