UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| Jic Contract 95 If Indian, All. or Tribe Name Jicarilla Apache Name of Operator MERIDIAN OLL Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 Location of Well, Footage, Sec., T, R, M 990'FSL, 890'FWL, Sec.25, T-27-N, R-3-W, NMPM Jicarilla 95 #5 All Location of Well, Footage, Sec., T, R, M 990'FSL, 890'FWL, Sec.25, T-27-N, R-3-W, NMPM Jicarilla 95 #5 All Location of Well, Footage, Sec., T, R, M 990'FSL, 890'FWL, Sec.25, T-27-N, R-3-W, NMPM Jicarilla 95 #5 All Well Name & Number Jicarilla 95 #5 All Celecter Submits of Submits of Sec., T, R, M Gavilan Pictured Clift Blanco Mesaverde 10. Field and Pool Gavilan Pictured Clift Blanco Mesaverde 11. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission Type of Submission Notice of Intent Recompletion Non-Routine Fracturing Non-Routine Fr | | | |
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| Jicarilla Apache 7. Unit Agreement Name Name of Operator MERIDIAN OLL Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 PO Box 4289, Farmington, NM 8 | Through Mell | 6. | |
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JICARILLA 95 #5

Unit M, Section 25, T27N, R03W Recommended Recompletion Procedure Pictured Cliffs Pay Add & Completion

Inspect location and install and/or test rig anchors. Install 1 - 400 bbl rig tank and fill w/ 2% KCl water. Approximately 202 jts. 2-3/8" 4.7# J-55 tubing will be required (MOI, District Tools) for cleanout and production. Comply with all BLM, NMOCD, Jicarilla Apache, and MOI rules and regulations. Notify engineering when work has commenced. Hold Safety Meetings on a regular basis.

| ******All vendors/service companies on location will | be responsible for protection of the |
|--|--------------------------------------|
| environment, any questions call | at***** |

- 1. Install 2 X 400 bbl frac tanks and fill with 630 bbls 2% KCl water.
- Hold Safety Meeting. MIRU. Place fire and safety equipment in easily accessible locations. NU relief line and blooie line to laydown flow tank. Obtain and record all wellhead pressures.
- 3. Blow down tubing. If tubing will not blow down, kill well with KCI water. ND WH, NU BOP. PBTD is 6319'.
- TOOH with 4069'(PC, lay down) and 6250'(MV) of 2-3/8" 4.70# tubing (Pluck Model D @ 5765'), CO to COTD (6319'), visually inspect and tally tubing.
- 5. RU wireline. RIH with 7-5/8" 26.4# guage ring to 4090', then 5" 15# guage ring to 5790' and check pipe. PU 7-5/8" Retrievable bridge plug, TIH and set bridge plug at 3970'. Run GR CBL CCL in 7-5/8 casing from bridge plug to Surface pipe (TOC at 3500' by TS). Good TOC must be above 3800' to continue. Evaluate GR- CBL- CCL and send copy to production engineering.
- 6. TIH w/ one stand 2-7/8" w/ pkr. Pressure test 2-7/8" w/ pkr and casing to 2800 psi. for 15 min. If pressure test fails, prepare to test and repair casing. Contact Production Engineering and a casing repair will be submitted. If pressure test is successful, TIH w/ retrieving head, unload hole from 2900' to surface, pull bridge plug at 3970' and reset at 4105' to allow restimulation of some of the existing PC perfs. TOOH with tubing.

Main Pictured Cliffs Stimulation:

- 7. Perforate the following intervals w/ 3-1/8" HSC -3125-306, 12 gram Owen charges 0.31" holes w/ 12.02 " penetration, 2 jspf, 180° phasing:
 - 3979' 4066'. (28 Holes) Actual Select-Fire settings will be marked on the logs prior to giving to the Perforating Company.
- 8. RD WL. RU Tefteller and obtain 8 hr PBU w/ gradient stops. RD Tefteller. TIH w/ one stand 2-7/8" w/ pkr.
- 9. RU stimulation company. Hold Safety Meeting. Pressure test surface treating lines to 4000 psi. Maximum STP during acid job is 2800 psi. Pump 850 gals 15% HCI w/additives at a rate of 8-12 BPM, attempt to ball-out the perforations. Drop a total of 45 7/8" RCN ball sealers (1.3sp.gr.) spaced evenly throughout the job. Record rates and pressures while attempting to achieve ball-out.
- 10. RD stimulation company. TOOH w/ one stand 2-7/8" w/ pkr. RU wireline, run junk basket to knock-off/retrieve as many ballsealers as possible. TIH w/ one stand 2-7/8" w/ pkr. RU stimulation company. Prepare to fracture stimulate the Main Pictured Cliffs.
- 11. Pressure test surface treating lines to 4000 psi. Maximum treating pressure is 2800 psi. Fracture stimulate and tag the PC according to the attached procedure. Flow-back the well immediately using a variable choke manifold. Increase choke size as needed to keep the well from logging off, if possible. When pressures and flow rates allow. TOOH w/ one stand 2-7/8" w/ pkr. PU Retrievable bridge plug, TIH and set bridge plug at 3960'. Unload hole from 2700'.

Jicarilla 95 #5 Pictured Cliffs Pay-Add

Upper Pictured Cliffs Stimulation:

- 12. Perforate the following intervals w/ 3-1/8" HSC -3125-306, 12 gram Owen charges 0.31" holes w/ 12.02 " penetration, 2 jspf, 180° phasing:
 - 3850' 3928'. (30 Holes) Actual Select-Fire settings will be marked on the logs prior to giving to the Perforating Company.
- 13. RD wireline.RU Tefteller and obtain 8 hr pressure build-up w/ gradient stops. RD Tefteller. TIH w/ one stand 2-7/8" w/ pkr.
- 14. RU stimulation company. Hold Safety Meeting. Pressure test surface treating lines to 4000 psi. Maximum STP during acid job is 2800 psi. Pump 1000 gals 15% HCl w/additives at a rate of 6-10 BPM, attempt to ball-out the perforations. Drop a total of 50 7/8" RCN ball sealers (1.3sp.gr.) spaced evenly throughout the job. Record rates and pressures while attempting to achieve ball-out.
- 15. RD stimulation company. TOOH w/ one stand 2-7/8" w/ pkr. RU wireline, run junk basket to knock-off/retrieve as many ballsealers as possible. TIH w/ one stand 2-7/8" w/ pkr. RU stimulation company. Prepare to fracture stimulate the Upper Pictured Cliffs.
- 16. Pressure test surface treating lines to 4000 psi. Maximum treating pressure is 2800 psi. Fracture stimulate and tag the PC according to the attached procedure. Flow-back the well immediately using a variable choke manifold. Increase choke size as needed to keep the well from logging off, if possible. When pressures and flow rates allow, TOOH w/ one stand 2-7/8" w/ pkr.
- 17. TIH w/ retreieving head and 2-3/8" 4.70# workstring and clean out to the retrievable bridge plug @ 3960' with air until sand production is minimal. Obtain pitot gauge for the Upper Pictured Cliffs formation. Record pitot gauge as the Upper Pictured Cliffs formation only. Latch onto the retrievable bridge plug and TOOH.
- 18. TIH w/ retreieving head on 2-3/8" 4.70# workstring and clean out to the retrievable bridge plug @ 4120' with air until sand production is minimal. Obtain pitot gauge for the Pictured Cliffs formation. Record pitot gauge as the Pictured Cliffs formation only. Latch onto the retrievable bridge plug and TOOH.
- 19. TIH w/ one joint 2-3/8" 4.7# J-55 tubing, seat nipple, expendable check, and 2-3/8" production tubing. Cleanout to 6319' with air. RU wireline and run afterfrac Tracer log. Evaluate for coverage, fracture tops and fracture bottoms. Send copy to Prod. Engr. Land tubing @ +/-6240' (79' of rathole) and obtain final pitot gauge. ND BOP, NU WH. Contact Production Operations for well tie-in. RD and MOL.

Approved: PURL

Drilling Superintendent

Contacts/Suggested Vendors:

327-6314 Trucking/ Water Haul: Dawn Trucking 327-5244 Basin Wireline: 326-5141 Mountain States Bridge Plugs/PKR: 325-8476 Pressure Build-up: Tefteller inc. 326-9826 MOI. District Tools Tubina: 327-6288 BJ Services Stimulation: 320-2147 (Drake 22) Gary Clark Rig Supervisor: 326-9571 Bruce Voiles Production Oper.: 326-9871 w Brian Ault Engineering: 326-6613 h

Pertinent Data Sheet - Jicarilla 95 #5

Location: 990' FSL, 890' FWL. Unit M. Section 25, T-27-N, R-03-W; Rio Arriba County, NM

Lat. 36.539734, Long. 107.101410; GITI

Field: Blanco Mesaverde

Elevation: 7361' GL

<u>TD:</u> 6350' PBTD: 6319'

Gavilan Pictured Cliffs

 Spud Date:
 05/11/58
 DP#:
 29213B

 Completed:
 06/29/58
 Prop. #:
 071337100

GWI: 100%

NRI: 87.5%

Casing Record:

| <u>Hole Size</u> 15" 9-7/8" | Casing Size 10-3/4" 7-5/8" | Weight & Grade 32.75# H-40 26.40# J-55 | Depth Set 300' 4300' | Cement 200 sx 120 sx 225 sx | Top/Cement Surface 3500' (TS) 4109' |
|-----------------------------------|----------------------------------|--|----------------------------|--------------------------------------|--|
| 6-3/4" | 5" | 15# J-55 | 6350' | 225 sx | 4109' |

^{** 5&}quot; liner set @ 6350' and top of liner @ 4109'.

Tubing Record:

| Tubing Size 2-3/8" 2-3/8" | Weight & Grade 4.70# J-55 4.70# J-55 | <u>Depth Set</u> 6250' (MV) 4069' (PC) | <u>Packer</u> 5765' | <u>S.N.</u> 6223' |
|---------------------------------|--|--|------------------------|----------------------|
| 2-3/8" | 4.70# 3-33 | 4003 (1 0) | | |

Formation Tops:

| 1 Ollitation Topes | |
|--------------------|-------|
| Ojo Alamo | 3526' |
| Kirtland | 3746' |
| Pictured Cliffs | 3968' |
| Lewis | 4068' |
| Cliffhouse | 5782' |
| Menefee | 5851' |
| Point Lookout | 6132' |
| Mancos | 6305' |
| | |

Logging Record: Electric Log, GR, TS, PGAC Rad. Log

Stimulation: Perfed Mesaverde: 5807' - 6276'

Fraced Mesaverde: 35,000 lbs sand and 70,000 gallons water.

Perfed Pictured Cliffs: 3979' - 3994'

Fraced Pictured Cliffs: 42,000 lbs sand and 84,000 gallons water.

Transporter: Gas - Williams Field Service

Oil - Gary Williams Energy

Jicarilla 95 #5

Unit M, Sec. 25, T27N. R03W Lat. 36.539734 Long. 107.101410 Pictured Cliffs Pay Add and Stimulation

