

Flint GU #4

Zones Left to Test

1. Wolfcamp	15 days	(a)
2. Yeso	42 days	(a)
3. San Andres	40 days	(b)
4. Morrow	<u>25 days</u>	(c)
	122 days	

- (a) Detailed in Yates letter of January 18, 1985
- (b) Procedure similar to Yeso procedure
- (c) Includes 7 days to drill out to bottom plus 18 days described in Yates letter of January 18, 1985

BEFORE EXAMINER QUINTANA	
OIL CONSERVATION DIVISION	
YATES	EXHIBIT NO. 4
CASE NO.	8323

Flint "GU" Com. #4 - formerly Pan Am Flint Gas Unit #1
NW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 22, T18S-R26E,
Eddy County, New Mexico

Prognosis for Testing and Recompletion

The following chronology is based upon work days and does not take into consideration weekends or holidays.

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| Day | | |
| 1 | Move in workover unit; remove Blanco equipment from well. | |
| 2 | Pick up YPC work string and packer, RIH and nipple up. | |
| 3-5 | Swab and test Morrow perfs 9094-9116, test deliverability. | |
| 6 | If Morrow is not commercial, spot 500 gallons Morflo acid. Let soak 2 hours, put away. | |
| 7 | Swab and test Morrow perfs 9094-9116. | |
| 8-12 | Shut in for pressure build-up. Amarada bomb in hole. | |
| 13 | If Morrow is not commercial, acidize with 2000 gallons Morflo acid + N ₂ . | |
| 14-16 | Swab and test Morrow perfs 9094-9116. | |
| 17 | If Morrow is not commercial, sand frac with 10,000 gallons gelled KCl water and 5000 gallons CO ₂ and 15,000 pounds of sand. | |
| 18-22 | Flow and swab back well and evaluate deliverability. | |
| 23 | If Morrow is not commercial, will proceed with workover. Pull tubing and packer, run CBL correlation log. | |
| 24 | Perforate Strawn Sand 8504-08, run Retrievable Bridge Plug to 8600'. | |
| 25-26 | RIH with tubing and packer, test RBP, if ok spot acid across Strawn perfs, set packer, acidize perfs 8504-08 with 1000 gallons NEA + N ₂ . | |
| 27-29 | Flow back or swab back load, get stabilized flow rate and fluid sample. | |
| 30-33 | Get 72-hour bottom hole pressure build-up, evaluate for Sand frac feasibility. | |
| 34-39 | If warranted, sand frac with 10,000 gallons gelled KCL water and 5000 gallons CO ₂ , flow back and evaluate well completion. | |
| 40 | If Strawn not commercial, pull out of hole, set cast iron bridge plug at 9000' with cement on top of plug, cast iron bridge plug at 8600' with cement on top of plug. | |
| 41 | Perforate Canyon Lime 7944-54; run in hole with tubing and packer. | |
| 42 | Spot acid across perfs, set packer and treat Canyon with 1500 gallons NEA + N ₂ . Flow back or swab back load. | |
| 43-44 | Swab or flow well, get stabilized flow rate and fluid sample. | |
| 45-48 | Get 72-hour bottom hole pressure build-up, evaluate for additional stimulation. | |
| 49-52 | Re-treat well with 10,000-15,000 gallons retarded acid + CO ₂ , flow back and evaluate well completion. | |
| 53-54 | If Canyon completion not feasible, POOH. Set cast iron bridge plug at 7800' with cement on top of plug, perforate Wolfcamp carbonate at 6250-56, RIH with tubing and packer. | |

- Day 55 Spot acid across perfs, set packer and treat Wolfcamp with 1000 gallons 15% NefeA + N2. Flow back.
- 56-58 Swab or flow well, get stabilized flow and fluid sample.
- 59-62 If have oil or gas show, get 72-hour bottom hole pressure build-up. Evaluate for additional stimulation.
- 63-67 Re-treat well, either 10,000-15,000 gallons retarded acid + CO2 or 10,000-15,000 gallons Sand frac. Flow back or swab test and evaluate for well completion.
- 68 If Wolfcamp is not commercial, POOH. Set CIBP at 6200' with cement on top of plug. If CBL indicates cement is not circulated behind 5 1/2" casing, perforate 5 1/2" casing at about 3400', circulate 5 1/2"- 9 5/8" annulus and cement 5 1/2" casing to the surface.
- 69 WOC. Run calibrated Gamma Ray Neutron Log, 3400' to 1500'.
- 70 Perforate Yeso dolomite at 2830-3256 selectively, acidize with 2000 gallons NefeA and scale and corrosion inhibitors. Sand frac with 60,000-80,000 gallons gelled KCl water down casing.
- 71-72 RIH with tubing, anchor rods and pump. Set up pumping unit and put well to pumping back load.
- 73-110 Pump back load and evaluate well for completion. Yeso normally requires 20-40 days of pumping before well begins to cut oil. Then additional pumping is required for evaluation of commercial potential.

At this point if Yeso completion is unsatisfactory, will consider re-completion in the San Andres.