Prepared by: B.Savage Date: 02/16/2022

> KB = 13 ftGL = 6,254 ftAPI# 30-045-20039

Spud Date: 03/13/1967 Ready to produce: 03/29/1967 Casing Squeeze: 09/18/1993

## Formation Tops:

Ojo Alamo: 1,112' Kirtland: 1,208' Fruitland: 1,744' Pictured Cliffs: 1,827' Cliffhouse: 3,460' Point Lookout: 4.190' Gallup: 5,340' Graneros: 6,242'

Dakota: 6,360'

# MorningStar Operating, LLC

# Tibbar Federal #4 San Juan County, NM

Section 25, T26N R09W

TD - 6,481 ft MD

12-1/4" hole to 311' KB

Surface Csg: 9 its (290') 8-5/8" 24# J55 STC

Setting Depth: 303 ft

Cement

175sx Reg cement

Cement circulated to surface

7-7/8" hole to 6481'

Prod Csg: 202 jts 4-1/2" 10.5# J55

Setting Depth: 6,481'

FC @ 6,479'

DV tools @ 2088' & 4598'

Cement

1<sup>st</sup> stage lead: 175sx 50/50 Pozmix 1<sup>st</sup> stage tail: 125sx reg cement 2<sup>nd</sup> stage: 250sx Class C

3rd stage: 500sx Class C

Circulated 50 bbls good cmt to surface

Perfs: (Dakota):

6272'-90' at 2 spf 6296'-98' at 4 spf 6300'-08' at 2 spf 6318'-20' at 4 spf

6364'-72' at 2 spf 6382'-88' at 2 spf 6394'-98' at 4 spf 6404'-08' at 4 spf

SWFrac 3/27/1967:

112,000 gal treated wtr 90,000 lbs 10/20 sand

AIR=61 bpm, but ball inj failed to work...

decide to refrac

Refrac 03/28/1967:

50,000 gal treated wtr

w/83 nylon core balls in 4 stages

40,000 lbs 10/20 sand

AIR=43 bpm

Casing squeeze (09/1993):

Set RBP @ 2000', Ran CBL and audio log. Perf 2>0.34" holes at 1926'.

Pump 12.6bbls of 15.6ppg cement, ~ 3.2bbls cmt

squeezed into formation.

Drillout to 1745'.

Perf 2>0.34" holes at 1730'

Pump/hesitate 15sx balanced plug.

Perf 2>0.34" holes at 878'.

Spot 25sx balanced plug, pressure up.

Drillout test to 883', 500psig passed. Drillout test to 1800', 500psig passed.

Ran CBL/audio log, still shows gas fluid movement

Pull RBP @ 2000'. RIH ModG RBP set @ 2,996'. Perf 3 sq holes at 2760'. Pump 200sx Class G

pressured up and WOC.

Perf 2>0.34" holes at 312'. Pump 200sx Class G, no blow out of bradenhead, SI with sq.pressure.

Drillout test to 314', 500psig passed.

Drillout test to 2,763', 500psig passed. POOH RBP.

Cleanout to PBTD, RWTP.

Prod Tbg (09/28/1993): 2-3/8" 4.7# J-55 tbg: EOT=6,374' KB; Dakota Perfs: 6,272' - 6,408' (overall)

PBTD: 6,465 ft

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 82491

### **CONDITIONS**

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	82491
	Action Type:
	[UF-WBS] Wellbore Schematic (WELLBORE SCHEMATICS)

#### CONDITIONS

Created By		Condition Date
mkuehling	None	4/29/2022