

Roadrunner No. 1
Sec. 2, T24N, R8W
San Juan County, New Mexico

6/13/84 Move in, rig up Star W Rig 7. (CCM)

Summary: Drilled out stage tool, cleaned out to bottom. Pressure tested to 4000 PSI. Held good. Rig changed sandline.

6/14/84 Day No. 2. Trip in hole with 3-7/8" tooth bit and casing scraper on 2-3/8" EUE tubing. Tagged stage tool @ 5211' KB.

Pressure test casing to 4000 PSI. Held good. Drilled out stage tool. Trip in hole to bottom and cleaned out to 7183' KB. Pulled tubing to 7080' KB. Pressure tested to 4000 PSI. Held good. Shut well in. Changed sandline the rest of the day. Shut down overnight.

6/15/84 Day No. 3. Roll hole with 10 Bbls gel plug and loaded hole with 1% KCL water. Spotted 250 Gal. 15% HCL. Rip out of the hole. Rig up Pengo Wireline. Ran Gamma Ray Correlation Log from PBSD to 4800'. Perforated Dakota C with 3-1/8" casing gun as follows:

7084 - 60	2 PF
7068 - 76	2 PF

Per Density Log. Total 40 holes.

Rig up Western Co. Broke down perfs and fraced with 1% KCL slickwater, 1 gal/1000 Aquaflo, 2-1/2 #/1000 Gal. FR-2, 15 #/1000 Aquaseal as follows:

10,000 Gal.	Pad
5,000 Gal.	1/2 #/gal. 40/60 sand
27,500 Gal.	1 #/gal. 40/60 sand
4,725 Gal.	Flush

Total Fluid - 1,194 Bbls.

Total Sand - 30,000 Lbs 40/60.

Average Rate - 30 BPM.

Average Pressure - 3050 PSI.

ISDP - 2300 PSI. Down to 2000 PSI in 15 minutes. Shut in 1 hour.

Opened to reserve pit with 1300 PSI. Well blew down in 2 hours to slow stream. Left to reserve pit overnight. Well dead this AM.

Gassing lightly. No sign of oil. All water flowed back.

Preparing to run tubing.

6/16/84 Day No. 4. Well dead this AM. Trip in hole with 2-3/8" tubing, saw-tooth collar on bottom, seating nipple 1 joint off bottom. Checked for sand fill. No fill. Pulled above perfs and swabbed. Fluid level @ surface. Swabbed down to 5500' KB. Fluid level staying @ 5500' KB. No gas. No oil. All water. Shut down overnight.

6/17/84 Well dead. Start swabbing. Fluid level @ 2000' KB.

Swabbed all day. Fluid level would not go down below 5500' KB.

All water, no oil, no gas. Swabbed all day. Shut down overnight.

6/19/84 Trip out of hole with 2-3/8" tubing, seating nipple and saw tooth collar. Trip in hole with tubing. Set retainer @ 7012' KB.

Pressure test tubing to 4000 PSI. Held good. Rigged up

Dowell. Mixed and pumped 50 sx Class H neat cement. 9 Bbl

slurry. Displaced with 26.5 Bbls water. Left 1/2 Bbl cement in tubing. Started pumping in @ 2800 PSI. Finished @ 3400 PSI.

ISIP 2700 PSI. Pulled out of retainer and reversed tubing clean.

Pulled 3 joints. Rigged down Dowell. Rigged up Western Co.

Pressure tested casing and retainer to 4000 PSI. Held good. Load hole with frac fluid and spotted 250 gal. 15% HCL across perfs.

Trip out of hole with retainer stringer and 2-3/8" tubing. Rigged

up Pengo and perforated Graneros with 3-1/8" casing gun, 2 shots/ft. from 6885 - 6911' KB per Density Log. 52 holes. Rigged down Pengo. Rigged up Western Co. and brokedown perfs. Pumped in @ 1650 PSI, 10 BPM. ISIF 1200 PSI. Shut in 900 PSI after 5 minutes.

6/20/84 Day No. 6. Rigged up Western Co. to frac Graneros as follows: 1% KCL water, 1 gal/1000 Aquaflo, 2-1/2 #/1000 FR-2, 15 #/1000 Aquaseal.

20,000 Gal.	Slickwater Pad
70,000 Gal.	1 #/gal. 20/40 sand
4,608 Gal.	Slickwater Flush

Total Sand 70,000 Lbs. 20/40.

Total Water 2253 Bbls slickwater.

Average Pressure 3400 PSI, Maximum Pressure 3700 PSI, Average Rate 39 BPM. ISIF 2300 PSI. 1700 PSI after 15 minutes. Shut well in 1 hour. Opened to reserve pit through 3/4" choke. Well started making a little oil with gas about 30 minutes after opening. Put flow to frac tank overnight. Shut down overnight.

6/21/84 Well made 375 Bbls total fluid overnight. Estimated very little oil. Now dead, gassing lightly. Trip in hole with 2-3/8" tubing, saw tooth collar and seating nipple. Tag sand @ 6870' KB. Circulated down 30' to clean out. While cleaning up hole, pump engine caught mud pit on fire. Rig burned up, fire burned itself out. Stabbed valve on tubing and shut well in. Waiting to remove rig from location.

6/22/84 Star W still on location. Waiting on insurance company.

6/23/84 - 6/25/84 Star W rig still on location.

6/26/84 Removing Star W rig.

6/29/84 Move in, rig up Bayless Rig 6. Tubing dead. Opened casing valve and bled backside down. Well dead pulled 5 stands of tubing, no drag. Set donut with sub and stripped off Star W BOP. Rigged up Bayless BOP. Trip in hole with 5 stands. Rigged up to reverse circulate 33.55' of sand out to 6945' KB. Pulled 3 joints to leave 207 joints @ 6847' KB to swab test Graneros perfs @ 6885' KB - 6911' KB. Started swabbing. Swabbed 80 Bbls in 3 hours. Mostly water. Well gassing slightly. Shut down overnight.

6/30/84 Well made 17 Bbls overnight. Dead this AM. Swabbed 100 Bbls fluid, mostly water. Well started flowing making 50% oil, 50% water. 151 Bbls total swabbed and flowed.

Daily est. cost: \$1,100.00. Cum. est. cost: \$69,061.00.

7/1/84 32 Bbls overnight. 500 PSI on casing. Tubing gassing. Made 1 run and well started flowing. Well would flow one to two hours making 15 Bbls/hour. 75% oil, 25% water. Swabbed and flowed 77 Bbls total today. Left well flowing to frac tanks overnight. 400 PSI casing. Shut down overnight.

Daily est. cost: \$900.00. Cum. est. cost: 69,961.00.

7/2/84 Well made 5 Bbls overnight. 600 PSI casing. Tubing gassing slightly. (CCM)

7/3/84 Well dead. No production since Sunday. Casing pressure 650 PSI, tubing 0 PSI. Bled off pressure. Made 67 Bbls oil to tank. Trip out with 2-3/8" tubing. Rig up Pengo Wireline. Set bridge plug @ 6310' KB. Load hole with lease oil and pressure test plug to 4000 PSI for 10 minutes. Perforated Gallup Formation with 3-1/8" select fire 0.34" holes as follows:

5921, 5933, 5971, 5975, 5985, 5987, 5989, 5993, 5995, 6021, 6023, 6026, 6095, 6118, 6169, 6173, 6177, 6179, 6259, 6267, total of 20 holes per Density Log. Rig down perforators. Dump 5 gal. frac sand in well. Shut down overnight.