

Bois d' Arc Encino 15 # 1  
Mancos Completion Information

- 3/25/02 RU Schlumberger Perforators with Packoff. Mancos perms from 4030' to 4150'. 25 holes GIH w/ 3-1/8" HSC selectfire perforating gun to perforate Mancos interval as follow 0.34" holes. 4030', 4035', 4040', 4045', 4050', 4055', 4060', 4065', 4070', 4075', 4080', 4085', 4090', 4095', 4100', 4105', 4110', 4115', 4120', 4125', 4130', 4135', 4140', 4145', 4150'. POOH w/ gun. RD Schlumberger PU 5-1/2" retrievematic PKR, SN, & GIH on 2-7/8" tubing. Set PKR at 3763'. Secure location. Install TIW valve and pressure gauge.
- 3/26/02 BJ Services. PT lines to 4600 psi. Perform Acid Breakdown on Mancos perforations from 4030' to 4150'. BD perms on KCl water at 880 psi. Establish rate of 5.6 BPM at 950 psi. SD. ISIP 290 psi drop to vacuum in 1 minute. Pump 1000 gals (24 bbls) 10% Acetic Acid and 50 RCN 1.3 SG ball sealers. Good Ball Action. Ball off perforations several times to 3500 psi. Over displace acid into perforations. Total fluid pumped 68.5 bbls including acid. ISDP 250 Ave Rate of 4 BPM on acid job, down to 2 BPM. 500 psi held on annulus. ND BJ from tubing. Release PKR. GIH to 4180', knocking ball sealers past perforations. Pull Tubing up and reset PKR at 3763'. NU Immediate Flowback assembly and tie into flowback manifold. RU BJ Services N2 lines and fluid lines. Finish rolling 10 gal XLFC-1, 10 gal Flowback-20, & 55 gals FAW-4 into 300 bbls 4% KCl water in Frac Tank. Corresponds to 4# gelled water, used to enhance foam stability. Safety Meeting. Review Job. 16 people on location. Pressure test immediate flowback manifold & lines to 3000#. Repair leaks. Retest. Test BJ lines to 5000 psi. Start Stimulation Job. SD replace spark plug on N2 pump. Restart job. Pump Liquid at 4 BPM, N2 at 8500 SCFM at 115 deg F, equivalent to 14 BPM 71 Quality Nitrogen Foam Frac. No proppant utilized. ATP 2600, Total downhole of 513 MSCF N2 Total Foam Gallons of 44,940 gallons. Cut N2. Flush with 10 bbls 4% KCl water. 730 ISIP. Begin immediate flowback on 1/4" choke. RD BJ Services. Job start at 14:06 hrs SD at 15:18 hrs. 500 psi held on annulus. Flowback after frac to flowback tank.
- 3/27/02 Continue Flowback after Mancos Stimulations. Well logging off. Recover 11 bbls for the day. Total of 231 bbls load recovered of 293 bbls pumped. No oil is present. Gas will not burn at this time. SDFN.
- 3/28/02 SM. SICP=700. Blowdown. Release PKR. COOH with PKR & Tubing. GIH with final 2-7/8" production tubing assembly. Run and land 135 jts of 2-7/8" at 4398'. SN @ 4358'. Top perf 4030', Btm perf 4150'. Run rod pump, sinker bar, 112 -3/4" rods, 60 -3/4" guided rods, polish rod. Put arms on pump. NU head. Secure location until tomorrow.
- 3/29/02 SM. SITP=SICP= 0#. Set 500 gal Propane Tank. Finish tie in to wellhead. Test pump and tubing. Pump filled separator to dump level, and running to production tanks at 15:00 hrs on 3/29/02. Rig to be released Monday 4/1/02 witheverthing pumping well.
- 3/30/02 We turned the well purning to the production tanks from the Mancos perforations (4030' to 4150') at 15:00 hrs on 3/29/02. 231 bbls of load water recovered of 353 bbls total. Saturday 3-30-02 at 9:00 hrs Pump running 8 SPM. Recvoer 60 bbls Water, 0 bbls Oil = 291 bbls of 353 bbls of load. Casing pressure built to 480 psi. Blew casing down.
- 3/31/02 Recover 78 bbls Water, 0 bbls Oil = 369 bbls of 353 bbls load. Full load plus 16 bbls. Casing built to 500#. Bleed casing down to 100#. Gas still will not burn.
- 4/1/02 Recover 48 bbls water, 0 bbls Oil = 417 bbls of 353 bbls load. Full load plus 64 bbls. Casing built to 420#, Tubing has 10#, Gas coming through tubing. Shoot Fluid Level. Bad Reading, shows fluid level at 584' GL. Bad Reading.

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Shut-in pump jack well at 10:00 hrs. Assume well is pumping off.

4/2/02 Tuesday 4-2-2002 at 9:00 hrs

No Fluid produced. Shoot Fluid Level at 82 Jts = 2660'. 1370' of water above top perf.

Casing Open. Gas will burn. Turn well on pump again. Slow unit down to 5 SPM or 72 bbls per day equivalent.

Waiting to set gas meter run to accurate measure Gas.

4/3/02 42 bbls Water, 0 Oil, to Tanks.

4/4/02 53 bbls Water, 0 Oil, small gas, to tanks.

4/5/02 14 bbls Water, 0 Oil, Engine down.

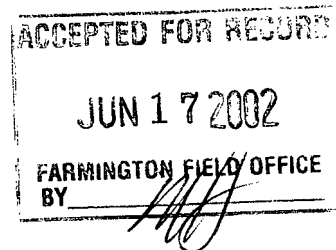
Setting Meter run, getting proper calibration for gas meter.

4/6/02 53 bbls Water, 0 Oil

4/7/02 20 bbls Water, Trace Oil, Engine down for repairs

4/8/02 No production unit down for repairs.

4/9/02 66 bbls total fluid, trace oil, gas rate 4 to 9 MCFD.



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