

## Daily Summary

API/WI 300450770000	County SAN JUAN	State/Province NEW MEXICO	Surface Legal Location NMMP-29N-10W-36-F	N/S Dist. (ft) 1650.0	N/S Ref. N	E/W Dist. (ft) 1650.0	E/W Ref. W
Ground Elevation (ft) 5611.00	Spud Date 09/11/1955	Rig Release Date	Latitude (DMS) 36° 41' 7.08" N	Longitude (DMS) 107° 50' 21.84" W			

Start Date	Ops This Rig
01/19/2005 12:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Spotting equipment; simultaneous ops). Move in & Spot rig & all equipment. Pull 30-day service on rig. SIFN.
01/20/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Spotting equipment; simultaneous ops; rig up; NU/ND; trip pipe). Blow down well: 120 psi both sides. Raise Derrick, complete rig up. ND Well head; NU BOP's; Pull hanger. Pull tubing - coming out galled threads, replace bad joints & collars. TIH w/bit & scraper. TOH. LD Scraper. Clean up location. Drain up. Secure well & SIFN.
01/21/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Rigging up W/L; simultaneous ops; trip pipe; NU new well head). Blow down casing: 20 psi. RU Blue Jet. RIH w/ CCL & Gauge. Casing Shoe @ 1916'. RIH w/CIBP, set @ 1912'. TIH w/ tubing; Roll hole w/ 2% KCL; Test plug to 500 psi; TOH. RU Blue Jet RIH w/ CCL, GR, CBL. Pull CBL from 1912' (PBSD) to Surface. TOC @ 890'. RD Blue Jet. ND BOP's; Remove old Wellhead & Install new. NU BOP's & test blinds to 2000 psi. PU Tension packer, RIH one joint, Test Casing to 2000 psi. Test pump on rig failed - both Stinger & Wood Group have cancelled. Pull packer & set up for Testing on Monday. Remove Test pump from Rig & send to town for repair. Secure well; Drain up; SIFN.
01/24/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Test Casing; Trip pipe; Lay down tubing; Rig Down). Run R-4 tension packer in to 30'; Rig up Wood Group test unit. Test Casing to 3900 psi for 15 minutes: Good. Release packer, lay down tools; Rig down Wood Group. TIH w/ 2 3/8 tubing & come out laying down. Rig Down. Move off.
01/27/2005 12:30	HELD SAFETY MEETING. RU BLUE JET. PERFORATED THE FRUITLAND COAL W/3 1/8" 90 DEGREE SELECT FIRE PERFORATING GUN. PERFORATED FROM 1771 - 1778' W/ 2 SPF, 1806' - 1809' W/ 2 SPF, 1826' - 1829' W/ 2 SPF, 1888' - 1896' W/ 2 SPF. A TOTAL OF 42 HOLES W/ 0.34 DIA. SWI. RD BLUE JET.
01/28/2005 07:00	HELD SAFETY MEETING. RU HALLIBURTON. FRAC'D THE FRUITLAND COAL. TESTED LINES TO 4800 #. SET POP OFF @ 3400 #. BROKE DOWN FORMATION @ 6 BPM @ 764 #. PUMPED 1000 GALS OF 10% FORMIC ACID @ 5 BPM @ 566 #. PUMPED 25 # DELTA FRAC 140 IN PAD W/ 3500 # OF 40 / 70 ARIZONA SAND @ .25 # SAND PER GAL. FRAC'D THE FRUITLAND COAL W/ 20 # DELTA FRAC 140 W/ WC SW. PUMPED 56% OF 178,500 # SAND. PUMPED 100,000 # 16/30 BRADY SAND IN FORMATION & 2738 BBLs FLUID. AVG RATE 52 BPM. AVG PRESSURE 1833 #. MAX PRESSURE 2072 #. MAX SAND CONS 2 # PER GAL. ISIP 926 #. FRAC GRAIDENT .94. HAD TO SHUT DOWN DUE TO FLUID COMING UP AROUND CSG WHICH APPEARED TO BE SURFACE CSG LEAK. SWI. RD HALLIBURTON.
02/01/2005 07:00	Move in Rig up Service Unit; Lock out/Tag out location; Wait on Trucks to move equipment; Dig out cellar to below Bradenhead. No visible or audible leaks. Casing: 195 psi Bradenhead: 50 psi SIFN.
02/02/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Rigging up; Tripping pipe; Pick up tubing; Run Tools; Pressure testing). Move in rig up all equipment. Call OCD, discuss procedure. Bradenhead test: 90 psi, open to pit blew down to 0 psi in 1 minute. Started flowing two-finger stream of water after 15 minutes. Shut in after 30 minutes - built back up to 25 psi in 5 minutes & 30 psi in 10 minutes. Call OCD. Continue to rig up. Blow down casing: 230 psi. Kill w/ 30 bbl. ND Frac stac; NU BOP's. Test BOP's - 200 psi low, 2000 psi high, Pipes & Blinds - All Good. Spot trailer; Strap & Tally 2 3/8" tubing. PU & MU 5 1/2" Halliburton BV RBP. TIH to 1714' & set BV RBP. Roll hole w/ KCL. Test casing 1200 psi, 5 minutes - Good. Call OCD. Dump 2 SX Sand & TOH. Call for Noise Log in a.m. & SIFN.
02/03/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Normal ops; Logging). Load Casing; Start flowing back Bradenhead - 60 psi. TIH w/ Noise Log tools. Pull from 1700' to SFC. Take Noise Log to NM OCD. Discuss w/ State & call engineering. Decide to pull a second CBL to confirm top of Kirtland still covered. Pull second CBL: from 1100' to 600'. Rig down W/L Unit. Secure well; Drain up; SIFN.
02/04/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Normal ops; Cleaning Out; Pull RBP). Wait on Orders: State OCD gives approval to not squeeze Ojo Alamo, rather to monitor 4 consecutive Bradenhead tests @ 90 day intervals (1 year). PU RBP Overshot & TIH. Unload Hole; Clean Sand off RBP; Latch up RBP & unload Fruitland. Release & Retrieve RBP; TOH. Lay Down Tools; MU Mule Shoe Collar; TIH. Clean out to CIBP @ PBSD. Also Repair Bradenhead 2" plumbing (tighten & dope all connections; install gauge nipple). Pump sweep; dry up hole; Pull up above perms. Secure well; drain up; SIFN. Discover new leak around 9 5/8" Bradenhead threads. 40 psi. Route flow to flowback tank and open Bradenhead valve. Release Rig Crew & call WSI for night watch. Notify Engineering & Operations. Put WSI on dry watch for the rest of the weekend. Will formulate plan on Monday...
02/05/2005 00:00	Dry watch Midnight to 0700. Relieve WSI. Made 50 bbl (3.3 bbl/hr).
02/06/2005 00:00	Continue to monitor Flow back. Hauled off two loads water. Average <3bbl/hr.
02/07/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Normal ops; Cleaning Out; Run RBP; Perforate; Packer). Unload w/ Air & begin drying up Fruitland. Still cleaning out; Rig up Riley to clean out pit. (O2=21.0; H2S=0; LEL=1). Run in to town; make plans; Run over to OCD; get verbal approval; Return to location. Blow hole dry; Call for Tools & Perforators. PU BV RBP & RIH. Set @ 1096'. Dump 2 sx sand; Roll Hole; Test plug to 500 psi - Good. RU W/L; RIH w/ Uzzi Gun: 36 shot, 10 degree phasing, 1.79" hole, w/15" penetration. Shoot 36 holes @ 938'. Pressure up to 2400 psi (pump stalls), bleeds off to 1600 psi in 1 minute. Repeat several times: bleed off, but no break. Call for 35 sx cement in a.m. & Pump truck to get better break. Secure well, Drain up, SIFN.

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Ground Elevation (ft) 5611.00	Spud Date 09/11/1955	Rig Release Date	Latitude (DMS) 36° 41' 7.08" N	Longitude (DMS) 107° 50' 21.84" W			

Start Date	Ops This Rot
02/08/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Run packer; Squeeze cement). TIH w/ R-4 packer & set @ 654'. Rig up Cement crew. Test pumps & lines to 5000 psi. Held safety meeting w/ crew, water hauler, toolman, cement crew. Discuss possible hazards & how to avoid them (Squeeze cement). Got break @ 3200 psi; injected 60 bbl - 4 bpm @ 2700 psi - no circulation to surface. Mix & pump 35 sx (8bbl) cement @ 15.6 #/gal; displace 3.5 bbl good slurry behind casing and got walking squeeze to 3000 psi. Estimate TOC @ 895'. Trap 3000 psi on squeeze; Rack up Halliburton; Haul water off; Secure well; Drain up; SIFN.
02/09/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Pull packer; Drill out Squeeze cement; Log & perf). Tubing ice blocked - thaw out. Release packer & TOH. Tag TOC @ 765'. LD 8 jts & PU Swivel. Drill ahead. Rig pump broke nipple - repair & test. Drill out. Test Squeeze to 500 psi & TOH w/bit & collars. Tong dies lost cotter pin. SD & repair. Continue out. Secure well; drain up; SIFN.
02/10/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Normal ops; Cleaning Out; Run RBP; Perforate; Packer; Cement job). Rig up Blue Jet; Pull CBL from 1100' to 500'. Call in & discuss results w/ State OCD. Read & discuss log w/ Blue Jet & State OCD. Shoot 3 @ 875'. Inject 3/4 bpm @ 1100 psi - lost returns @ Bradenhead. Call for cement & water. Hook rig pump up to casing & Bradenhead, try 15-20 times to rock it loose at bridge: BH=200 psi, Csg=1200 psi. No good. Still no returns. DS on loc. Rig up cement crew. Held safety meeting w/ crew, water hauler, toolman, cement crew. Discuss possible hazards & how to avoid them (Squeeze cement). Pump 5 bbl fresh ahead; mix & pump 50 sacks class 'G' w/2% CaCl2; Start @ 1bpm @ 1000 psi. Start Displacement @ 1/4 bpm @ 1200 psi; SD after several small breaks but mostly steady climb to 2750; Wait 10 minutes and walk up from 550 psi to 2500 psi; caught break at 2500 & SD; wait 5 minutes & stage up from 2250 psi to 2750 psi in five 100 psi increments. Squeezed off @ 2750 psi. w/ 6.3 bbl cmt behind casing. SIFN. WOC. Rack up DS. No BH Communication still, so estimate TOC @ 794' (existing bridge). Secure well; drain up; SIFN.
02/11/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Pull packer; Drill out Squeeze cement). Release Packer & TOH. LD packer & PU Bit. TIH w/ bit & collars. Tag TOC @ 725'. PU Swivel. Drill Out squeeze cement. Secure well; drain up; Shut In For Weekend.
02/14/2005 07:30	Project Leader attending Behavior Based Safety Observation class; Rig crew held JSA to discuss service work on rig (normal ops) & replacing winch line. R & R Winch line & other service work on rig #30. BH still flowing, but at reduced rate of 40 bbl/day. Log CBL - Note good cement across Ojo Alamo. Shoot 3 Sqz. Perfs @ 785' (top Ojo Alamo @ 790'). Attempt to break down & circulate to surface. No Good. Tried surging, tried rocking between BH & Casing. 80 bbl away - Still no good. PU & RIH w/ R-4 packer to 470'. Secure well; Drain up; SIFN.
02/15/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Squeeze cement). DS on location. Rig up cement equipment. Held safety meeting w/ crew, water hauler, toolman, cement crew. Discuss possible hazards & how to avoid them (Squeeze cement). Pressure test casing, pumps & lines. Rams leaking - fix - retest - Good. Start cement job w/ 5 bbl fresh H2O ahead, then 10 bbl Cement (mixed anywhere from 16.2#/gal to 14.6#/gal.) w/2% CaCl2 BWOC, mixed in mixing water. Got short squeeze to 3000 psi w/4.2 bbl behind pipe. Estimate TOC @ 750'. Leave 2870 psi on sqz. & SIFN. WOC. Rack up cement crew, secure well, SIFN.
02/16/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Pull packer; Drill out Squeeze cement; possible log & perforate). Hook lines up; bleed off tubing. Release packer; TOH. TIH w/ bit & collars - tag @ 560'. Lay down singles; PU Swivel; Drill ahead. Broke through @ 790'; Circulate clean; Test casing to 800 psi - Good. Secure well; drain up; SIFN.
02/17/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (CBL; Perforate; Squeeze cement). Rig up W/L unit; Log CBL across top of Ojo Alamo; Shot 3 perfs @ 250'. Circulating freely to surface; RD W/L unit; RU Cement unit; Run packer in 1 joint. Start job w/ 20 bbl KCL water ahead w/ "cem-net" LCM material - plugged up pump suction - dug it out; 5 bbl fresh water spacer w/dye; 34 bbl cement, thus: 50/50 Poz mixed @ 13.5 #/gal w/ the following additives: 1/4#/sk D-29 (celloflakes) 2% D-20 (gel) 2% S-1 (CaCl2) .15% D-65 (dispersent) .1% D-46 (de-foamer) Yield 1.26 CF/sk 5.67 gal/sk mixing water  Got good returns @ 25 bbl cmt pumped; displaced 3 bbl (shut in Bradenhead on last 1/2 bbl) and shut in w/ 80 psi (15 psi above differential SIP). Circulated 12 bbl good slurry to pit. SIFN & WOC. Rack up Schlumberger; Drain pumps & secure well site.
02/18/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Pull packer; Drill out Squeeze cement). TOH w/ packer. TIH w/ bit & collars; Tag @ 153'; PU swivel. Drill out cement from squeeze - fairly soft, drilling ahead quickly. Secure drilling ops w/ 35' left to go - continue to WOC; Secure well, drain up, SIFN.

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02/21/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Drill out Squeeze cement; Pull RBP; Clean Out & Dry up w/ air). Finish drilling out; test casing to 550 psi; Clean Out to RBP; TOH w/ bit & collars. TIH w/ overshot. RU to Air; Unload hole; Latch up & Release RBP; Let FC blow down. Kill w/ 20 bbl & TOH; LD RBP; TIH w/ mule shoe. MU to Air; Unload hole; Keep blowing to dry up FC. Secure air; Pull 3 joints; Secure well; Drain up; SIFN.
02/22/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Normal ops; Clean Out & Dry up w/ air). Clean out & Dry up well w/ air.  Flow test well on 1/2" choke, up casing, check in tubing. 12:00 40psi 12:30 35psi 13:00 22psi 13:30 15psi 14:00 14psi 14:30 12psi 15:00 12psi 15:30 12psi 16:00 12psi (4 hour stable flow rate) = 169 MCFD. Oil = 0; H2O = 0.  Unload w/air; Pull 3 joints. Secure well; Drain up; SIFN.
02/23/2005 07:00	Held safety meeting w/ crew. Discuss possible hazards & how to avoid them (Normal ops; Clean Out & Dry up w/ air; Land tubing; Rig down). Unload hole w/ air. Tag no new sand. TOH w/tubing. TIH w/mule shoe & 1.78" F nipple. Drift all tubing to 1.901".  Land tubing, 60 joints 2 3/8" eue (1871.39') , w/1.78 'F' profile nipple & mule shoe: End of tubing - 1881.4' Top of 1.78 'F' profile nipple - 1871.6'  Unload hole w/air. Pick up & secure all equipment. Rig down.