

## Daily Summary

API/UWI 300392168100	County RIO ARRIBA	State/Province NEW MEXICO	Surface Legal Location NMPM-27N-7W-7	N/S Dist. (ft) 790.0	N/S Ref. N	E/W Dist. (ft) 970.0	E/W Ref. E
Ground Elevation (ft) 6822.00	Spud Date 1/13/1979	Rig Release Date	Latitude (DMS)	Longitude (DMS)			

Start Date	Ops This Rat
10/7/2004 00:00	PJSM W/ CREWS. ROAD UNIT TO SJ 28-7 # 253. LO/TO LOC AND BLOW DOWN EQUIPMENT. CHECK LOC. FOR LEL'S DIG PIT, BACK DRAG LOCATION. WAIT FOR EQUIPMENT. EQUIPMENT ON LOC @ 14:00. PJSM W/ CREWS. SPOT EQUIPMENT AND UNIT. RU UNIT AND EQUIPMENT. SICP=170#, SITP=170#. BWD AND KILL TBG W/ 20 BBL 2% KCL. NDWH. SET 2 WAY CK IN HANGER. NU BOPE. PRESSURE TEST BOPE TO 200# LOW FOR 5 MIN AND 2000# HIGH FOR 10 MIN TEST WAS GOOD. WITNESSED BY JOSE ORTEGA W/ KEY ENERGY SERVICES. SECURE WELL SDFN.
10/8/2004 00:00	PJSM. SICP=240#, SITP=240#. BWD. KILL WELL W/ 20 BBL. UNSEAT HANGER. POOH LAYING DOWN W/ 240 JTS 2 3/8" TBG, SN, AND 1/2 MS. PJSM W/ BLUE JET WIRELINE. TEST WH FOR VOLTAGE. RU WIRELINE. MU AND RIH W/ 4.5" HALLIBURTON CBP AND SET @ 6500'. POOH W/ WL. LOAD CSG FROM SURFACE W/ 103 BBL 2% KCL. MU AND RIH W/ CBL/GR/CCL TOOLS. PRESSURE UP CSG TO 500#. PULL LOG FROM 6500' TO 3300'. TOC @ 3400'. CONTINUE GR/CCL TO SURFACE. POOH W/ TOOLS. RELEASE WIRELINE. PJSM W/ STINGER. RU 4.5" ISOLATION TOOL TO PT CSG. START TO PRESSURE UP W/ RIGS HP PUMP. HAD PROBLEMS W/ PUMP. WILL NEED A TEST UNIT IN THE AM. SECURE WELL SDFN.
10/9/2004 00:00	PJSM. SICP=0#. RU WOOD GROUP HP TEST UNIT. PRESSURE TEST 4.5" CSG TO 4300#. HELD PRESSURE FOR 20 MIN. CHARTED TEST. BLEED OFF PRESSURE. RD WOOD GROUP. RD STINGER ISOLATION TOOL. ND BOP. NU FRAC VALVE. RD EQUIPMENT AND UNIT. PREP FOR RIG MOVE. SECURE WELL SDFN.
10/12/2004 00:00	PJSM. SICP= 0#. CHECK AREA FOR VOLTAGE. RU WIRELINE MAST TRUCK AND WL UNIT. MU AND RIH W/ 3 1/8" SF GUNS W/ 12g 306T, 90° PP CHARGES AND PERFORATE MV W/ 28, .34" HOLES AS FOLLOWS. 5420'- 5426', 5525'-5533', 5552'-5562', 5582'-5590', 5633'-5639', 5657'-5663'. POOH W/ GUNS. RD WIRELINE. SECURE WELL. WAIT FOR SCHLUMBERGER. FRAC EQUIP. ON LOCATION @ 12:30. NOT ENOUGH TIME TO RU, FRAC, RD AND OPEN WELL TO FB BEFORE DARK. DECIDED TO RU EQUIPMENT AND FRAC IN THE AM. SDFN.
10/13/2004 00:00	PJSM. FINISH RU SCHLUMBERGER. PRESSURE TEST LINES TO 5300#, SET POP-OFF @ 3850#. OPEN WH, FORMATION B/D @ 2220 #, START 100 GAL 15% AND 23 7/8" 1.3 SG BALL SEALERS. FLUSH W/ 97 BBL. SHOWED SOME BALL ACTION BUT NO BALL OFF. PULL ISOLATION TOOL. RU BLUE JET WIRELINE. RIH W/ JUNK BASKET AND RETRIVE 20 BALLS. RU STINGER ISOLATION TOOL. START STEP TEST @ 30 BPM & 1244#, STEP TO 21 BPM @ 341#. FRAC MESA VERDE W/ 71,694 GAL 65q SLICK FOAM W/140,000# 16/30 BRADY SAND. PUMPED 185# PROPNET IN FINAL 1.5# SAND STAGE FOR PROPPANT CONTROL. AV RATE= 50 BPM, AV PSI= 2464#. MAX RATE= 51 BPM, MAX PSI= 3900#. TOT N2= 1,723,500 SCF, FLUID TO RECOVER = 1707 BBL. WELL SCREENED OUT IN FINAL SAND STAGE. UNABLE TO FLUSH WELL. RD SCHLUMBERGER. RU WSI FLOW BACK EQUIPMENT. OPEN WELL ON 16/64" CHOKE @ 2500#, WELL BLEW DOWN TO 600# IN 1 HR. WELL MADE 45 BBL WATER FIRST HOUR. 20:00 450# ON 18/64" CHOKE MADE 30 BBL WATER LAST HR.

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10/22/2004 07:30	<p>SICP- 650 Psi</p> <p>Crew held PJSA meeting. (Talked about safe operations for the day. Safety topics included first aid, fall protection, pinch points, tag lines, using tools correctly, tripping hazards, and other safety topics. Also outlined planned operations.)</p> <p>Blowdown well into flowback tank. Tripped into well to PBTD. Tagged fill at 7,758' K.B. Start air unit to clean out fill. Unable to get below 7,760' K.B. Rig up power swivel to mill out to PBTD. Start air unit to mill out at 1,200 CFM with 10 BPH foam/mist. Clean out to 7,789' K.B. Continued with air until returns were clean. Returns had some oil.</p> <p>Rig down power swivel assembly. Trip 2 3/8" tubing out of the well. Came out of the well with 246 joints of tubing and bit sub, mill.</p> <p>Closed blind rams, casing valves. Secured lease.</p> <p>Shutdown operations for the weekend.</p>
10/25/2004 07:30	<p>SICP- 620 Psi</p> <p>Hold PJSA (Talked about safe operations for the day. Safety topics included first aid, fall protection, pinch points, tripping hazards, using tools correctly, dressing warmly for weather, and other safety points. Also talked about planned operations.)</p> <p>Blowdown well into flowback tank. Kill well with 25 bbls of 2% kcl fluid. Install stripping rubber assembly. Start into well with 1-.98' x 2 3/8" Mule Shoe with expendable check, 1- .87' x 1.78" I.D. x 2 3/8" F-Nipple, 238- joints (7,537.61') of 2 3/8" tubing, drifted per COPC policy. Install tubing hanger. Kill casing with 25 bbls of 2% kcl fluid. Land hanger into wellhead. Secure lockdown pins. Tubing landed at 7,552.46' K.B. Top of F-Nipple at 7,550.61' K.B. Nipple down BOP assemblies. Install upper wellhead.</p> <p>Rig up air to pump out check. Start with 2 bbls of 2% kcl fluid, follow with 5 bbls of 2% kcl fluid. Start air at 1,200 CFM with 3 BPH foam/mist. Tested tubing to 1,000 Psi. Pumped out check at 1,300 Psi surface. Continue with air until fluid returns dried up. Shutdown air unit and let well flow up tubing.</p> <p>Start rigging down completion unit and all equipment. Close in well. Clean and secure lease. Will move off wellsite on 10-26-04.</p>
10/26/2004 07:30	<p>FINAL REPORT</p> <p>Hold PJSA meeting with crew. Talked about safely moving rig off location. Watching out for production equipment, driving safety and other safety topics.</p> <p>Move rig off location. Cleaned and secured lease. Removed lock out locks off of production equipment. Notify operator (Ivan Brown) of completion of project.</p>

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10/18/2004 10:30	<p>SICP- 1,100 Psi</p> <p>Hold PJSA meeting. Talked about moving in equipment safely. Topics included backing with ground guides, watching for production equipment, using tag lines, first aid, pinch points, using tools correctly, lifting safely, and other safety topics. Also outlined planned job operations.</p> <p>Move in rig and all associated equipment. Blowdown well pressure into flowback tank. Kill well with 40 bbls of 2% Kcl fluid. Install tubing hanger with plug installed. Secure lockdown pins. Nipple down frac valve. Nipple up BOP assembly. Pressure test BOP blind and pipe rams with a low (250 Psi) and a high (2,500 Psi) test. Tested successfully.</p> <p>Remove tubing hanger. Close in blind rams and casing valves. Secured lease.</p> <p>Shut down operations for the day.</p>
10/19/2004 07:30	<p>SICP- 1,100 Psi</p> <p>Hold PJSA meeting with crew. (Talked about safe operations for the day. Safety topics included first aid, fall protection, pinch points, tag lines, using tools correctly, tripping hazards, and other safety topics. Also outlined planned operations.)</p> <p>Blowdown well pressure into flowback tank thru 1/2" choke. Rigged up second flowback line. Kill well with 40 bbls of 2% kcl fluid. Start into well with 1- 3.875" x 2.50' x 3.1/8" 3- Blade mill, 1- 1.80' x 3 1/8" x 2 3/8" Bit sub, 1- 2 3/8" x 31.7" joint of tubing, 1-.73' x 2 3/8" string float, 194- joints of 2 3/8" tubing. Tagged fill at 6,182' K.B.(519' below bottom perf).</p> <p>Rigged up air unit to tubing. Tested lines to 1,250 Psi. Start air at 900 CFM with 8 BPH foam/mist. Unloaded well fluid. Recovered 110 bbls of fluid returns. Well was making about 3 cups of sand per minute. Did not clean out any deeper than 6,182' K.B. Shutdown air unit. Killed tubing pressure with 10 bbls of 2% kcl fluid.</p> <p>Tripped 12 stands of 2 3/8" tubing to above Mesa Verde perfs (5,420'). Installed TIW valve, closed pipe rams, casing valves. Secured lease.</p> <p>Shut down operations for the day.</p>
10/20/2004 07:30	<p>SICP- 1,100 Psi SITP- 1,100 Psi</p> <p>Hold PJSA meeting with crew. Talked about conducting safe operations. Outlined planned job operations.</p> <p>Blowdown well into flowback tank. Trip into well with 2 3/8" tubing to tag fill. Tagged fill at 6,180' K.B. Well made 2' of fill overnight. Start air unit at 1,200 CFM with 10 BPH foam/mist. Clean out with air unit until sand returns cleaned up. Light oil in returns.</p> <p>Pulled tubing to 5,648' K.B. Flow test Mesa Verde perfs (5,420' - 5,663') up tubing/casing annulus, (string float in tubing) to atmosphere thru new 1/2" choke at surface (Choke coefficient: 6.6). SITP- N/A. FCP- 220 Psi.</p> <p>Mesa Verde tested at 1,452 MCFPD with 1- BOPD, 4- BOPD with no sands returns. Test was witnessed by Sergio Serna (Rig Operator).</p> <p>Tripped 2 3/8" tubing to 6,182'. No fill was encountered. Start air unit at 1,200 CFM with 10 BPH foam/mist. Clean out to 6,277' K.B. Continue with air until returns cleaned up.</p> <p>Shutdown air unit. Tripped tubing above Mesa Verde perfs. Installed TIW valve, closed pipe rams, casing valves. Secured lease.</p> <p>Shutdown operations for the day.</p>
10/21/2004 07:30	<p>SICP- 850 Psi SITP- 850 Psi</p> <p>Hold PJSA meeting with crew. (Talked about safe operations for the day. Safety topics included first aid, fall protection, pinch points, tag lines, using tools correctly, tripping hazards, and other safety topics. Also outlined planned operations.)</p> <p>Blowdown well into flowback tank. Trip in with 2 3/8" tubing. Tag fill at 6,277'. Start air unit at 1,200 CFM with 10 BPH foam/mist. Clean out sand to 6,500'. Rig up power swivel to drill out plug. Drilled out bridge plug with air at 1,200 CFM with 10 BPH foam/mist. Clean out to 6533'. Continue with air until returns cleaned up.</p> <p>Shutdown air, rig down power swivel. Trip out 2 3/8" tubing to 5,400' (just above MV perfs). Installed TIW valve, close pipe rams, casing valves. Secured lease.</p> <p>Shutdown operations for the day.</p>