

## Daily Summary

API/UWI	County	State/Province	Surface Legal Location	N/S Dist. (ft)	N/S Ref.	E/W Dist. (ft)	E/W Ref.
300392691300	RIO ARriba	NEW MEXICO	NMPM-26N-4W-24-J	1980.0	S	1975.0	E
Ground Elevation (ft)	Spud Date	Rig Release Date	Latitude (DMS)	Longitude (DMS)			
7242.00	5/24/2002	6/6/2002	36° 28' 12.63" N	107° 12' 2.3004" W			

Start Date	Ops This Rpt
6/9/2002 00:00	HELD SAFETY MEETING. MIRU COIL TBG.
6/10/2002 00:00	HELD SAFETY MEETING. OPENED UP WELL. CSG PRESSURE 0 #. RIH W/ 3 7/8" MILL & BAKER MOTOR ON 1 3/4" COIL TBG. TAGGED DV TOOL @ 3732'. DRILLED OUT DV TOOL FROM 3732' TO 3734'. RIH & TAGGED DV TOOL @ 6945'. DRILLED OUT DV TOOL FROM 6945 TO 6947. TAGGED FC @ 8292'. DRILLED OUT FC @ 8292 DOWN TO 8376'. CIRCULATED HOLE CLEAN W/ 2% KCL WATER. TESTED CSG TO 4300 #. HELD OK. POOH W/ COIL TBG. SWION
6/12/2002 00:00	HELD SAFETY MEETING. RU SCHLUMBERGER. PRESSURED UP CSG TO 3000 #. RAN CBL LOG FROM 8365' TO 3080'. TOP OF CEMENT @ 3280'. RAN TDT LOG FROM 8365' TO 3000'. RAN GR/CCL LOG FROM 8365' TO SURFACE. PRESSURED TESTED 4 1/2" CSG TO 4800 #. HELD OK. RD SCHLUMBERGER.
6/16/2002 00:00	HELD SAFETY MEETING. RIGGED UP FLOWBACK EQUIPMENT.
6/17/2002 00:00	HELD SAFETY MEETING. RU BLUE JET. PERFORATED THE LOWER DAKOTA. RIH W/ 3 1/8" 90 DEGREE PP SELECT FIRE PERFORATING GUN. PERFORATED FROM 8224' - 8240' W/ 1 SPF, 8262' - 8282 W/ 1 SPF. A TOTAL OF 38 HOLES. RU B J SERVICES. FRAC'D THE LOWER DAKOTA. TESTED LINES TO 6000 #. SET POP OFF @ 4460 #. BROKE DOWN FORMATION @ 5 BPM @ 2940 #. DROPPED 22 BALL SEALERS IN 1000 GALS OF 15% HCL ACID @ 1 BALL PER BBL AND 2 BALLS PER BBL FOR THE REMAINING 24 BALL SEALERS @ 20 BPM @ 2127 #. A TOTAL OF 46 BALL SEALERS. GOOD BALL ACTION. BALLED OFF @ 4450 #. RU BLUE JET. RIH W/ JUNK BASKET. RETRIEVED 46 BALL SEALERS. PUMPED PRE PAD @ 35 BPM @ 2690 #. STEPPED DOWN RATE TO 28 BPM @ 2435 #. STEPPED DOWN RATE TO 16 BPM @ 2070 #. STEPPED DOWN RATE TO 8 BPM @ 1820 #. ISIP 1685 #. 5 MIN 1604 #. 10 MIN 1482 #. 15 MIN 1388 #. 20 MIN 1334 #. 25 MIN 1270 #. FRAC'D THE LOWER DAKOTA W/ 65 Q 3000 SPECTRA FRAC G, 50,000 # 20/40 SANTROL SUPER LC SAND. 817,000 SCF N2 & 904 BBL FLUID. AVG RATE 28 BPM. AVG PRESSURE 3963 #. MAX PRESSURE 4300 #. MAX SAND CONS 2 # PER GAL. ISIP 2460 #. FRAC GRADIENT .64. RU BLUE JET. RIH W/ 4 1/2" FRAC PLUG. SET PLUG @ 8150'. TESTED PLUG TO 4800 #. HELD OK. SWION.
6/18/2002 00:00	HELD SAFETY MEETING. RU BLUE JET. PERFORATED THE UPPER DAKOTA. RIH W/ 3 1/8" 90 DEGREE PP SELECT FIRE PERFORATING GUN. PERFORATED FROM 8105' - 8130' W/ 4 SPF. A TOTAL OF 100 HOLES. RU B J SERVICES. FRAC'D THE UPPER DAKOTA. TESTED LINES TO 5990 #. SET POP OFF @ 4480 #. BROKE DOWN FORMATION @ 8 BPM @ 2320 #. BULLHEAD 1000 GALS OF 15% HCL ACID @ 25 BPM @ 3160 #. FRAC'D THE UPPER DAKOTA W/ 65 Q 3000 SPECTRA FRAC G, 50,000 # 20/40 SANTROL SUPER LC SAND. 810,000 SCF N2 & 522 BBL FLUID. AVG RATE 28 BPM. AVG PRESSURE 3902 #. MAX PRESSURE 4344 #. MAX SAND CONS 2 # PER GAL. ISIP 2260 #. FRAC GRADIENT .63. RU BLUE JET. RIH W/ 4 1/2" FRAC PLUG. SET PLUG @ 7130'. TESTED PLUG TO 4800 #. HELD OK. PERFORATED THE POINT LOOK OUT W/ 3 1/8" 90 DEGREE SELECT FIRE PERFORATING GUN. PERFORATED FROM 6030' - 6042' W/ 1/2 SPF, 6060' - 6086' W/ 1/2 SPF, 6092' - 6104' W/ 1/2 SPF, 6150' - 6166' W/ 1/2 SPF. A TOTAL OF 37 HOLES. RU B J SERVICES. FRAC'D THE POINT LOOKOUT. TESTED LINES TO 5900 #. SET POP-OFF @ 4450 #. BROKE DOWN WELL FORMATION @ 14 BPM @ 1148 #. DROPPED 22 BIO BALL SEALERS @ 1 BALL PER BBL & 2 BALLS PER BBL FOR REMAINING 22 BALL SEALERS @ 19 BPM @ 506 #. A TOTAL OF 44 BIO BALL SEALERS. GOOD BALL ACTION. BALLED OFF @ 2800 #. SHUT DOWN FOR 1 HR. EST RATE. FRAC'D THE POINT LOOKOUT W/ 65 Q 25 # LINEAR FOAM, 100,000 # 20/40 BRADY SAND, 1,073,000 SCF N2, & 857 BBL FLUID. AVG RATE 40 BPM. AVG PSI 1933 #. MAX PSI 2164 #. MAX SAND CONS 2 # PER GAL. ISIP 840 #. FRAC GRADIENT .45. SWI. RD BJ SERVICES. STARTED FLOWBACK ON WELL.
6/19/2002 00:00	24 hour Flow Back Test
6/20/2002 00:00	24 Hour Flow Back Test
6/21/2002 00:00	24 Hour Flow Back Test
6/24/2002 00:00	HELD SAFETY MEETING. RIH W/ SLICK LINE. TAGGED SAND @ 7015'. 115' SAND ON TOP OF FRAC PLUG. RD SLICK LINE.
6/26/2002 00:00	Read rig to location. Spot equipment. Rig up. Check well pressure. Csg - 1200 psi. Rig up 2" flowline. Blow well down thru 1/2" choke. Killed well. RD Frac Valve. NUBOP. SHUT DOWN
6/27/2002 00:00	Held safety meeting, check well - 1000 psi. Blow well down, rig up wood group, test BOP'S - OK, Rig down wood group, Talked to Steve Hayden @ NMOCD about squeeze job. Notified Pat Hester @ Albq BLM about cement squeeze they would like a cement top @ 1500'. Rig up wireline and set composite plug at 3500'. Load hole with 2% Kcl water and test to 2000 lbs - OK, Shoot squeeze holes (4) at 3180', 2 runs, rig down wireline, pump into well 65 bbls at 1 bpm at 1500lbs, close in well and shut down for night.
6/28/2002 00:00	Held safety meeting, check well - small vaccum. pick up cmt retainer, go in hole picking up tubing off float, total of 97 joints, set cmt ret at 3082', spot in Bj equipment, rig up, held safety meeting, squeeze well with 500 sks premium lite HS FM & add., mix at 12.5#, put 500psi on backside, injection at 1730psi & 2 bpm, pump 15 bbl dye ahead, pump 500 sks (184 bbls) at 2 bpm 1830psi, displace with 11.5 bbl, sting out - reverse tubing clean, pull out of hole with tbg & stinger, lay down tools, close in well & shut down for night.

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7/1/2002 00:00	Held safety meeting, rig up wireline and run a CBL to find top of cmt, found top at 2935', also some type of bridge at 2775' & 2650', called BLM-albuq., talked to pat hester and brian davis, said to shoot above bridges at 2630' and try to squeeze again, also talked to steve hayden/ NMOCD, he agreed to go along with BLM. shot 4 squeeze holes at 2630', wait on Halliburton, rig up Halliburton, Held safety meeting, started job and pumped some trash down into stinger but was able to reverse out, restarted job, pumped into squeeze perfs at 3 bpm - 1850 psi, slight blow once in while on the bradenhead, pumped 15 bbls dye water and 140bbls 12.4# halliburton standard (65/35 std poz) light cement, 6% gel, 3# gilsonite, 2% c.c. brought out 500 sks - used 375 sks, psi went slowly up to 3500psi, rate down to 1.5bpm, shut off cmt and went to displacement. stung out /reversed clean, shut down for night
7/2/2002 00:00	Held safety meeting, wait on cement until 1pm, rig up wireline, run CBL from 2575' to new cmt top, found TOC @ 2430', only raised cmt top 200'. Called Lucas Bazan who in turn talked to BLM's Brian Davis & Pat Hester about covering the Nacimiento formation, was agreed upon to shoot below the formation and try to lift cmt across the zone, Held safety meeting, shot 3 holes at 1720', pumped down casing with 40 bbls 2% KCl water (took 2400psi to break circulation), was getting blow up bradenhead, could not get cmt to location for job today, will squeeze in the morning with Halliburton. Shut in well and shut down.
7/3/2002 00:00	Held safety meeting, pick up and make up packer, run to 1275' and set - pulling 20k tension, spot in & rig up halliburton, (talked to steve hayden NMOCD - said to call him after job to let him know how it went - did same, left message) held safety meeting, test lines to 4000psi, put 500 psi on casing, pump 75 bbls fresh water ahead of cmt at 3.5 - 4.0 BPM / 2100psi - 1500psi, (getting good blow up bradenhead), mix and pump 100 sks 65/35 std poz with 6% gel, 3# gilsonite, and 2% c.c., mixed at 12.3#, 4 BPM at 1350psi, last 5+ bbl cmt mixed at 13.5#, displace 10.5 bbl ( 5.6 bbl past end of pkr ), shut down and shut in well with 1200psi on tubing, held post job safety meeting, rig down halliburton, shutdown, will drill out cmt and log on monday to see if nacimiento formation(1550' -1700') is covered
7/8/2002 00:00	Check well. Open tubing. Small vacuum. Release packer. POOH with 2 3/8" tubing with Hallib Packer. RIH with rock bit with 2 3/8" tubing. Tagged cement @ 1522'. Rigged up power swivel and drilled cement to 1732'. Circulated well clean and tested squeeze to 500 psi. - OK. Layed down power swivel and POOH with 2 3/8" tubing with rock bit. Rigged up Blue Jet. Ran CBL log from 2020' to 400'. TOC @ 1538'. Talked to Pat Hester @ Albq BLM and recieved approval to proceed with completion procedure 7/8/02 @ 3:00 PM. Rigged down Blue Jet. SHUT DOWN
7/9/2002 00:00	RIH with 2 3/8" tubing with rock bit. Tagged cement retainer @ 2551'. Rigged up power swivel. Drilled up cement retainer and 90' of cement. Circulated well clean. Tested casing and squeeze hole to 500 psi. - OK. Rigged down power swivel. SHUT DOWN
7/10/2002 00:00	Continue to RIH with 2 3/8" tubing with rock bit. Tagged cement retainer @ 3060'. Rigged up power swivel. Drilled up cement retainer and 50' of cement. Circulated well clean. Shut down due to lighting. SHUT DOWN
7/11/2002 00:00	Continue to drill up cement. Drilled up 70' of cement. Circulated well clean. Tested casing and squeeze to 500 psi. - OK. Lay down power swivel and POOH with 2 3/8" tubing with rock bit. RIH with 2 3/8" tubing with Metal Muncher Mill. Rigged up air unit and blow lines to lay down tank. Unload well @ approx 3400'. SHUT DOWN
7/12/2002 00:00	Continue to RIH. Tagged Hallib Fas Drill Plug @ 3500'. Started air unit and drilled up plug @ 3500'. Rigged down power sub. Continue to RIH with 2 3/8" tubing with mill. Tagged sand fill @ 7005'. Pulled back up 5965'. Unload well. Flowed well to lay down tank to clean up. SHUT DOWN
7/15/2002 00:00	Check well pressures. Tbg - 500 psi. Csg - 900 psi. Blow well down. Rig up 2" line and flow well up the tubing thru 1/2" Choke Nipple. With 2 3/8" tubing @ 5965' tubing pressure @ 200 psi. and Casing pressure @ 450 psi. MCFPD = 1320. Oil - 1 BBL. Water - 12 BBLS. This is a test for the Mesa Verde zone only. Blow well down. RIH and tagged sand fill @ 6975' with 220 jts. Rigged up power swivel and start air unit. Cleaned sand fill to 7040'. Well making heavy sand. Clean on well. Rigged down power swivel. Pull tubing up to 5995'. SHUT DOWN
7/16/2002 00:00	Check well pressures. Csg - 630 psi. Tbg - 1000 psi. Blow well down. Kill tubing. RIH with 32 jts of 2 3/8" tubing. Tagged sand fill. Rigged up power swivel and started up air unit. Cleaned sand fill to plug @ 7120'. Drilled up frac plug. Well started making heavy fluid and sand. Circulated well to allow well to clean up. Lay down power swivel. Pulled 2 3/8" tubing up to 6023'. SHUT DOWN
7/17/2002 00:00	Check well pressures. Csg - 730 psi. Tbg - 1100 psi. Blow well down. Kill tubing. RIH and tagged sand fill @ 7125'. Rig up power swivel and start air unit. Clean sand fill to frac plug @ 7140'. Drill up Frac Plug @ 7140'. Continue to clean to PBTD @ 8312'. Set on bottom and continue to clean well. Circulated and flowed approx 350 BBLS of water today. Rig down power swivel and pull up to 5070'. SHUT DOWN

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7/18/2002 00:00	Check well pressures. Tbg - 1200 psi. Csg - 800 psi. Blow well down. Kill tubing. POOH with 2 3/8" tubing with Metal Muncher Mill. RIH with Mule Shoe Collar, SN and 2 3/8" tubing. Ran 262 jts and tagged sand fill @ 8290'. for 22' of sand fill. Started air units and cleaned sand fill to PBTD. Circulated well with air to allow well to clean up. Circulated and flowed approx 220 bbls of fluid in 10 hrs today. Pulled up to 7922'. SHUT DOWN
7/19/2002 00:00	Check well pressures. Tbg - 1200 psi. Csg - 800 psi. Blow well down. Kill tubing. RIH with 2 3/8" tubing. Tagged sand fill @ 8300'. for 12' of fill. Start up air units and clean sand fill to PBTD. Circulate well. Pull up to 8112'. Flow well up the tubing. Flowed approx 150 bbls of water today. Have flowed approx 80 BBLS of oil total. SHUT DOWN
7/22/2002 00:00	Check well pressures. Tbg - 1400 psi. Csg - 1100 psi. Blow well down. Install 1/2" choke nipple and test Dakota. With 2 3/8" tubing @ 8050' flowed well thru 1/2" choke nipple. Tbg - 260 psi. Csg - 780 psi. MCFPD = 1716. This is the combined test for MV/DK. Deducting the previous MV Test the Dakota making 396 MCFPD with 100 BBLS Water and 15 BBLS Oil. 2 3/8" tubing @ 8050'. Test witnessed by Victor Barrios with Key Energy. RIH and tagged sand fill @ 8306'. Started air unit and cleaned sand to PBTD @ 8312'. Pumped soap sweep. Pulled 2 3/8" tubing up to 8218'. Landed 2 3/8" tubing @ 8218' with KB. added in. Total tubing 259 jts. Mule Shoe Collar and SN on the bottom. NDBOP & NUWH. Unload well. Rig down lines to Blow Tank and all equipment. Clean location. Rig down. FINAL REPORT