

District NORTH	Field Name MV/DK COM	API / UWI 3004535069	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 4/4/2011	Surface Legal Location 018-030N-009W-F	East/West Distance (ft) 995 00	East/West Reference FWL	North/South Distance (ft) 2,285 00
				North/South Reference FNL

Well Config: VERTICAL - Original Hole, 7/19/2011 3:05:56 PM

fKB (MD)	Schematic - Actual	Frm Final
0		
15		
16		
18		
18		
41		
55		
202		
204		
235		
236		
241		
1,693		
1,790		
2,605		
2,967		
3,124		
3,142		
3,143		
3,182		
3,184		
3,200		
3,674		
3,686		
3,697		
3,828		
3,856		
4,470		
4,494		
4,502		
4,600		
4,808		
4,813		
4,824		
5,190		
5,210		
5,224		
5,417		
5,568		
6,486		
7,138		
7,148		
7,225		
7,280		
7,323		
7,324		
7,378		
7,381		
7,412		
7,413		
7,414		
7,419		
7,463		
7,476		
7,537		
7,537		
7,537		
7,559		
7,560		
7,574		
	Surface Casing Cement, 15-236, 4/4/2011, PUMP 15 BBLs PRE-FLUSH & CIRC 20 BBLs FRESH WATER SPACER, DUMP 76 SXS (21 8 BBL SLURRY) TYPE I-II CEMENT WITH 20% FLYASH @ 14 5 PPG INTO CSG, DROP PLUG AND DISP W/ 14 7 BBL H2O, CIRC 5 BBLs GOOD CMT TO SURFACE Surface, 9 5/8in, 9 001in, 15 fKB, RIG UP AND RUN 7 JTS 9 5/8" H-40, 32 3#, ST&C CASING SET @ 235 68' (KB) TORQUE TO 2,400 FT/LBS FLOAT COLLAR @ 202 53' (KB), 236 fKB Intermediate Casing Cement, 15-3,184, 4/19/2011, PJSM - R/U CMT EQUIP - TEST LINES 3500 PSI - CMT = 10BBL FW, 10 BBL GEL MUD, 10 BBL FW - MIX & PMP 10 BBL OF 11 PPG SCVNGR CMT, 127 BBL OF 12 1 PPG LEAD CMT & 19' BBL OF 14 6 PPG CMT - DRP PLG & DISP W/ 127-2 BBLs FW, 990 FCP, BUMP PLG W/ 1575 PSI, HOLD PSI F/10 MIN, CHK FLOATS, OK, 1 BBL BLEED BACK, - PLUG DOWN @ 03 15 HRS 4/19/11 - 40 BBLs CMT RTRNS TO SURFACE Intermediate 1, 7in, 6 456in, 15 fKB, PJSM - RUN 74 JTS OF 7", 20#, J-55, ST&C CSG TO 3184' (WASH LAST 3 JTS DWN) - TAG BTM @ 3200' - CIRC ON BTM F/2 HRS L/D TAG JNT - M/U & LAND 7" MANDREL ASSY - PMP THRU CMT VALVES - TEST MANDREL SEALS TO 1800 PSI, OK - CSG = FLT SHOE (BTM @ 3184'), 1 JT CSG, FLT CLR (TOP @ 3142'), 73 JTS CSG, 2' PUP JNT & 7" MANDREL (TOP @ 15') PU WT= 86K, SO WT= 40K, NEU WT= 50K, 3,184 fKB OJO ALAMO, 1,693 KIRTLAND, 1,790 FRUITLAND, 2,605 PICTURED CLIFFS, 2,967 LEWIS, 3,124 Hyd Frac-Foam N2 6/3/2011 LEWIS/ STIMULATION (3 856-4,470) 25 TOTAL PERF HOLES START ON 75% VISC ELASTIC PAD @ 2 260 PSI @ 32 BPM, FRAC WITH 31 200 GALS 75% VISC ELASTIC N2 @ 31 BPM WITH 76 907 LBS OF 20/40 ARIZONA SAND FAW-4 @ 10 GALS/1000, PUMPED 57 BBLs FOAM FLUSH MIN RATE 30 BPM MAX RATE 33 BPM AVG RATE 31 BPM MIN PSI 1822 PSI MAX PSI 2245 PSI AVG PSI 1917 PSI MAX SAND CONC 4 20 PSA ISIP 1346 PSI FRAC FLUID TO RECOVER (BREAKDOWN, AND FRAC 745 CLEAN BBLs) 824 SLURRY BBLs, TOTAL N2 174,000 SCF Hyd Frac-Foam N2 6/3/2011 CLIFF HOUSE/ STIMULATION (4,502-4,808) 20 TOTAL PERF HOLES START ON 15% HCL ACID @ 5 0 BPM @ 340 PSI BROKE @ 4785 START 70% SLICK FOAM PAD @ 3821 PSI @ 72 BPM, FRAC W/ 30 660 GALS 70 % N2 SLICK/FOAM @ 72 BPM WITH 80 424 LBS OF 20/40 ARIZONA SAND FRW-20 @ 10 GALS/1000 GALS FAW-4 @ 3 0 GALS/1000, INFLOW 250W @ 1 0 GALS/1000 GWS-5 @ 50 LBS/1000, PUMPED 70 BBLs FLUID FLUSH SPOT 10 BBLs OF ACID ON LW MIN RATE 70 BPM MAX RATE 74 BPM AVG RATE 72 BPM MIN PSI 3542 PSI MAX PSI 3821 PSI AVG 3723 PSI - PSI MAX SAND CONC 5 00 PSA ISIP 1447 PSI FRAC FLUID TO RECOVER (BREAKDOWN, AND FRAC 730 CLEAN BBLs) 829 SLURRY BBLs, TOTAL N2 978,000 SCF Hyd Frac-Foam N2 6/2/2011 MENELEE/ STIMULATION (4,824-5 190) 16 TOTAL PERF HOLES START ON 15% HCL ACID @ 5 0 BPM @ 30 PSI BROKE @ 5 164 START 70% SLICK FOAM PAD @ 5310 PSI @ 74 BPM FRAC W/ 27 090 GALS 70 % N2 SLICK/FOAM @ 75 BPM WITH 66,664 LBS OF 20/40 ARIZONA SAND FRW-20 @ 1 0 GALS/1000 GALS FAW-4 @ 3 0 GALS/1000, INFLOW 250W @ 1 0 GALS/1000 GWS-5 @ 50 LBS/1000, PUMPED 74 BBLs FLUID FLUSH MIN RATE 73 BPM MAX RATE 76 BPM AVG RATE 74 BPM MIN PSI 4381 PSI MAX PSI 5310 PSI AVG PSI 4879 PSI MAX SAND CONC 5 00 PSA ISIP 281 PSI FRAC FLUID TO RECOVER (BREAKDOWN, AND FRAC 645 CLEAN BBLs) 719 SLURRY BBLs, TOTAL N2 874,000 SCF Hyd Frac-Foam N2 6/2/2011 POINT LOOKOUT/ LMF STIMULATION (5 210-5 417) 18 TOTAL PERF HOLES START LOAD & BREAKDOWN ON 2% KCL @ 5 0 BPM BROKE @ 3880 PSI START 15% HCL ACID @ 5 0 BPM @ 51 PSI TOTAL 10 BBLs START SLICK 70% FOAM PAD @ 3886 PSI @ 70 BPM FRAC THE ZONE WITH 28 936 GALS 70% N2 SLICK @ 74 BPM WITH 77,422 LBS OF 20/40 ARIZONA SAND FRW-20 @ 1 0 GALS/1000 GALS INFLO 250W @ 1 0 GALS/1000 FAW-4 @ 3 0 GALS/1000, GWS-5 @ 50 LBS/1000, PUMPED 81 BBLs FLUID FLUSH MIN RATE 70 BPM MAX RATE 75 BPM AVG RATE 74 BPM MIN PSI 3886 PSI MAX PSI 4212 PSI AVG PSI 4171 PSI MAX SAND CONC 5 00 PSA ISIP 1511 PSI FRAC FLUID TO RECOVER (BREAKDOWN, AND FRAC 654 CLEAN BBLs) 799 SLURRY BBLs, TOTAL N2 1,022,000 SCF PERF - LEWIS, 3,856-4,470, 6/3/2011 UPPER CLIFF HOUSE, 4,494 MASSIVE CLIFF HOUSE, 4,600 PERF - CLIFF HOUSE MASSIVE, 4,502-4,808, 6/2/2011 MENELEE, 4,813 PERF - MENELEE, 4,824-5,190, 6/2/2011 PERF - POINT LOOKOUT, 5,210-5,417, 6/2/2011 PERF - DAKOTA, 7,324-7,476, 6/1/2011 Production Casing Cement, 1,772-7,560, 4/28/2011, PJSM - R/U CEMENTERS - TEST LINES TO 3500 PSI, OK - PMP 146 BBLs N2 MUD, 10 BBL FW W/ N2, 10 BBL GEL W/ N2, 10 BBL FW, 10 BBLs CHEM WASH, 2' BBL FW - CMT W/ 5 BBLs 11 PPG SCV CMT @ 11 PPG, 108 BBLs OF 12 5 PPG TAIL CMT SHUT DOWN, FLUSH PUMP & LINES W/ 15 BBLs FW, DRP PLG, DISP W/ 117 BBLs FW (FIRST 10 BBLs SUGAR WATER), FCP 1591 PSI BUMP PLUG W/ 2174 PSI (HOLD PSI F/10 MIN, OK) CHK FLTS, OK (1/2 BBL BLEED BACK TO TRUCK), PLUG DOWN @ 08 54 HRS ON 4/28/2011 POINT LOOKOUT, 5,224 MANCOS, 5,568 UPPER GALLUP, 6,486 Production 1, 4 1/2in, 4 000in, 15 fKB, PJSM - RUN A TOTAL OF 176 JTS 4 1/2" 11 6# L-80 LT&C PROD CSG TO 7560' - TAG BTM @ 7574', CIRC ON BTM 2 HRS, L/D TAG JNT - CSG = FLT SHOE (TP @ 7559 2'), FLT CLR (TP @ 7536 9'), 9 JTS OF CSG, 10' MARKER JT @ 7138', 81 JTS OF CSG, 12' MARKER JT (TP @ 3673 9') 85 JTS OF CSG, 1 - 15' PUP JT, 1 JT CSG (TOP OF CSG WILL BE @ 15' AFTER SET SLIPS & CUT OFF.), 7,560 fKB GREENHORN, 7,225 GRANEROS, 7,280 TWO WELLS, 7,323 Production Casing Cement, 7,560-7,574, 4/28/2011, PJSM - R/U CEMENTERS - TEST LINES TO 3500 PSI, OK - PMP 146 BBLs N2 MUD, 10 BBL FW W/ N2, 10 BBL GEL W/ N2, 10 BBL FW, 10 BBLs CHEM WASH, 2 BBL FW - CMT W/ 5 BBLs 11 PPG SCV CMT @ 11 PPG, 108 BBLs OF 12 5 PPG TAIL CMT SHUT DOWN, FLUSH PUMP & LINES W/ 15 BBLs FW, DRP PLG, DISP W/ 117 BBLs FW (FIRST 10 BBLs SUGAR WATER), FCP 1591 PSI BUMP PLUG W/ 2174 PSI (HOLD PSI F/10 MIN, OK) CHK FLTS, OK (1/2 BBL BLEED BACK TO TRUCK), PLUG DOWN @ 08 54 HRS ON 4/28/2011 PAGUATE, 7,419 LOWER CUBERO, 7,463 1 78" FN, 2 3/8in, 4 70lbpsi, J-55, 7,412 fKB, 7,413 fKB 1 1/2 MS X CHECK, 2 3/8in, 4 70lbpsi, J-55, 7,413 fKB, 7,414 fKB PERF, 7,537 TO 7,574, 4/28/2011	