

District NORTH	Field Name MV/DK.COM	API / UWI 3004534901	County SAN JUAN	State/Province NEW MEXICO	Edit
Original Spud Date 3/21/2009	Surface Legal Location 023-031N-011W-M	E/W Dist (ft) 850.00	E/W Ref FWL	N/S Dist (ft) 535.00	N/S Ref FSL

Well Config: DEVIATED - Original Hole, 5/19/2011 8:25:58 AM

ftKB (MD)	Frm Final	Schematic - Actual
16		Tubing, 2 3/8in, 4.70lbs/ft, L-80, 16 ftKB, 7,094 ftKB
16		Hyd Frac Foam N2, 10/5/2009, POINTLOOKOUT/LMF
17		STIMULATION: (4,600-5,214) START 10 BBLs 15% HCL
19		BREAKDOWN THE ZONE AT 2906 PSI @ 5 BPM.
24		FRAC.THE ZONE.WITH 115,080 GALS. 60Q N2
24		SLICK/FOAM AT 72.9 TO 76.9 BPM WITH 100,022 LBS. OF
27		20/40 ARIZONA SAND: RAN FRICTION REDUCER @ 1.
239		GAL/1000' GALS SURFACTANT @ 1.0 FOAMER @ 3 GL/1000.
240		PUMPED 30.8 BBL FLUID W/23,800 SCF N2 FLUSH.
250		MIN. RATE: 72.9 BPM. MAX. RATE: 76.9 BPM. AVG. RATE: 74.8 BPM.
3,250		MIN. PSI: 2116 PSI. MAX. PSI: 2906 PSI. AVG. PSI: 2354 PSI.
3,276		MAX. SAND CONC: 4.0 PSA. ISIP: 1884 PSI. FRAC
3,284		GRADIENT: .35 PSI/FT. (BASED OFF ISDP) FLUID TO RECOVER
4,514		BREAKDOWN, ACID AND FRAC: 1096.6 CLEAN BBLs. PUMPED 201.9 SLURRY BBLs. TOTAL
4,517		N2 979,900 SCF
4,560		Nipple 1.78, 2 3/8in, 4.70lbs/ft, L-80, 7,094 ftKB, 7,095 ftKB
4,561		Mule Shoe/Xcheck, 2 3/8in, 4.70lbs/ft, L-80, 7,095 ftKB, 7,096 ftKB
4,577		Hyd Frac Foam N2, 10/5/2009, DAKOTA STIMULATION (7,000-7,208)
4,600		BEGIN B/D @ 2096 @ 5 BPM, FOLLOWED W/ 10 BBLs 15% HCL @ 582 @ 4.0 BPM, FOLLOWED W/ 206,444 GL SLICKWATER, AND 25,388# 20/40 AZ. W/ FRICTION REDUCER @ 1.0 GL/1000, SURFACTANT @ 2.0 GL/1000, NON-EMULSIFIER @ 2.0 GL/1000, FOAMER @ 3.0 GL/1000. FLUSHED W/16.6 BBLs FLUID & 92,600 SCF N2
5,214		MIN PSI: 4177 MAX PSI: 4737 AVG. PSI: 4527
6,780		MIN BPM: 50.3 MAX BPM: 58.2 AVG BPM: 52.4 FG: .61
6,790		TOTAL CLEAN-BBLS (ACID; B/D; FRAC): 737.3 SLURRY BBLs: 803.9 BBLs
7,000		TOTAL N2 USED: 4,303,900 SCF
7,094		TD, 7,238, 4/1/2009
7,095		PERFORATED, 4,600-5,214, 10/5/2009
7,095		PERFORATED, 7,000-7,120, 10/5/2009
7,095		PERFORATED, 7,126-7,208, 10/5/2009
7,120		Production Casing Cement, 3,250-7,235, 4/1/2009, CEMENT 4-1/2" CASING. CMT. W/ 10 BBLs GEL WATER, 2 BBLs OF F.W., SCAVENGER: 15 SKS (5 BBLs) @ 12 PPG OF 50:50 POZMNG, 25 PPS CELLOFLAKE, 5 PPS GILSON, 2% BENTONITE, 2% CaCL, 15% FRIC RED, 1% D46.
7,126		TAIL: 260 SKS (66.7 BBLs) @ 13.0 PPG OF 50:50 POZMNG, 25 PPS CELLOFLAKE, 5 PPS GILSON, 2% BENTONITE, 2% CaCL, 15% FRIC RED, 1% D46.
7,208		WASHED PUMP & LINES. DISPLACED W/112.1 BBLs OF H2O (1st 10 BBLs W/ SUGAR) BUMPED OMEGA LATCH-IN PLUG @ 17:17. HELD AT 1538 PSI FOR 10 MIN. FLOATS HELD W/ 1 BBL FLOW BACK. TOC @ 3250'. PER. CBL 466.09
7,234		Cement Plug, 7,234-7,235, 4/1/2009
7,234		Production 1, 4-1/2in, 4.000in, 16 ftKB, PJSM, REVIEW RUNNING CASING. RUN 4-1/2" CASING, SET AT 7235'. FS @ 7234.6 AND FC @ 7433.6'. 11 JTS 4 1/2" 11.6# L-80 LT&C CSG, 1-10' MARKER JT @ 6779.8'. 86 JTS 4-1/2" 11.6# L-80 LT&C CSG, 1-10' MARKER JT @ 3275.6', 84 JTS 4-1/2" 11.6# L-80 LT&C CSG, 1-PUP JT, 1-MANDRELL. LANDED @ 16.00 HRS (PICK MANDRELL BACK-UP, WOC 4-HOURS; RE-LAND MANDRELL), 7,235 ftKB
7,235		Cement plug, 7,235-7,238, 4/1/2009

