

District NORTH	Field Name FC/FS COM	API / UWI 3004535179	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 1/4/2011	Surface Legal Location 025-030N-010W-F	East/West Distance (ft) 1,719 00	East/West Reference FWL	North/South Distance (ft) 1,516 00
				North/South Reference FNL

Well Config: VERTICAL - Original Hole, 6/28/2011 7:27:13 AM

ftKB (MD)	Schematic - Actual	Frm Final
0	Tubing, 2 3/8in, 4 70lbs/ft, J-55, 15 ftKB, 2,563 ftKB	
15	Hyd Frac-Gelled N2, 4/20/2011, FRUITLAND SAND STIMULATION (2,410'-2,432') PUMPED AS FOLLOWS	
16	STARTED 12 BBLS 10% FORMIC ACID @ 5 BPM @ 877, B/D ZONE @ 2557 PSI W/ 33,919 GL 70Q 20#	
17	LINEAR GEL/FOAM PAD FOLLOWED W/ 70,847# 20/40 BROWN @ 10 TO 3 0# DH PPG, PUMPED 19 9 BBLS W/ 9,200 SCF N2 FOAMED FLUSH MIN	
18	RATE = 46 4 BPM, MAX = RATE = 51 2 BPM, AVG = 48 9 BPM, MIN PSI = 2047 PSI, MAX PSI = 2831, AVG PSI = 2588 PSI F G 1 2 TOTAL FLUID TO RECOVER (ACID, PAD, SAND) 201 9	
196	BBLS CLEAN, 289 6 TOTAL SLURRY ISIP = 1850, TOTAL N2 = 223,100 SCF	
197	Hyd Frac-Gelled N2, 4/19/2011, FRUITLAND COAL STIMULATION (3,446'-2,508') PUMPED AS FOLLOWS:	
223	STARTED 12 BBLS 10% FORMIC ACID @ 5 BPM @ 1065, B/D ZONE @ 2082 PSI - STARTED 2,348 GL	
224	25#X-LINK PRE-PAD, W/ 78,960 GL 75Q 25# LINEAR GEL/FOAM PAD	
229	FOLLOWED W/ 55,535# 20/40 BROWN @ 25 TO 2 5# DH PPG, PUMPED 38 9 FLUSH. MIN RATE = 48	
1,330	BPM, MAX = RATE = 54 5 BPM, AVG = 50 7 BPM, MIN PSI = 2101 PSI, MAX PSI = 2681, AVG PSI = 2368 PSI F G 1-0 TOTAL FLUID TO RECOVER (ACID, PAD, SAND) 470 BBLS CLEAN, 534 0 TOTAL SLURRY. ISIP = 1296,	
1,526	Pup Jt Marked 2,563 ftKB, 2,565 ftKB	
2,056	Hyd Frac-Gelled N2, 4/19/2011, LOWER FRUITLAND COAL STIMULATION (2532'-2610') PUMPED AS FOLLOWS	
2,066	STARTED 12 BBLS 10% FORMIC ACID @ 5 BPM @ 630 PSI, B/D ZONE @ 947 PSI STARTED 3,990 GL	
2,308	25#X-LINK PRE-PAD, W/ 155,0976 GL 75Q 25# LINEAR GEL/FOAM PAD. FOLLOWED W/ 112,697# 20/40	
2,410	BROWN @ 25 TO 2 5# DH PPG, PUMPED 40 0 FLUSH MIN RATE = 38 3 BPM, MAX = RATE = 44 3 BPM, AVG = 40 3 BPM, MIN PSI = 1699 PSI, MAX PSI = 2377, AVG PSI = 2026 PSI F G 80 TOTAL FLUID TO RECOVER (ACID, PAD, SAND) 923 2 BBLS	
2,432	CLEAN, 1035 3 TOTAL SLURRY ISIP = 1156 TOTAL N2 = 1,725,600 SCF N2	
2,446	Tubing, 2 3/8in, 4 70lbs/ft, J-55, 2,565 ftKB, 2,597 ftKB	
2,508	F Nipple, 2 3/8in, 4 70lbs/ft, J-55, 2,597 ftKB, 2,597 ftKB	
2,532	Expendable check, 2 3/8in, 4 70lbs/ft, J-55, 2,597 ftKB, 2,598 ftKB	
2,563	PBTD, 2,830	
2,565		
2,596		
2,597		
2,598		
2,610		
2,658		
2,830		
2,832		
2,832		
2,875		
2,875		
2,887	TD, 2,887, 2/6/2011	



SURFACE CSG CMT, 15-224, 1/4/2011, CIRC 6 BBLS OF GOOD CMT TO SURFACE

Surface, 7in, 6 456in, 15 ftKB, 224 ftKB

PERF - FRUITLAND SAND, 2,410-2,432, 4/19/2011

PERF - FRUITLAND COAL, 2,446-2,508, 4/19/2011

PERF - FRUITLAND COAL, 2,532-2,610, 4/19/2011

Production Casing Cement, 15-2,875, 2/7/2011, PJSM R/U CEMENT EQUIPMENT

OJO ALAMO, 1,330

PRESSURE TEST LINES TO 3500 PSI (OK)

CMT 4-1/2" PRODUCTION CASING 10 BBLS FRESH WATER + 10 BBLS GEL/WATER + 10 BBLS FRESH WATER

KIRTLAND, 1,526

PUMP 9 SKS (5 BBLS) OF SCAVENGER PREMIUM LITE FM W/ 3% CACL + 25 PPS CELLOFLAKE + 5 PPS LCM1 + 8% BENTONITE + 4% SMS + 4% FL52 @ 11 0 PPG, 3 02 CUFT/SK YIELD, 28 CUFT

FRUITLAND, 2,308

PUMP 220 SKS (83 BBLS) OF LEAD PREMIUM LITE FM W/ 3% CACL + 25 PPS CELLOFLAKE + 5 PPS LCM1 + 8% BENTONITE + 4% SMS + 4% FL52 @ 12 1 PPG, 2 13 CUFT/SK YIELD, 469 2 CUFT

PUMP 55 SKS (13 BBLS) OF TAIL TYPE III W/ 1% CACL + 25 PPS CELLOFLAKE + 2% FL52 @ 14 6 PPG, 1 38 CUFT/SK YIELD, 76 2 CUFT

SHUT DOWN, DROP PLUG, WASH PUMPS & LINES, DISPLACE W/ 10 BBLS SUGAR WATER + 35 BBLS OF WATER, FINAL @ 2 BPM = 910 PSI, BUMPED PLUG W/ 1950 PSI, PLUG DOWN @ 1530 HRS, HELD 1950 PSI FOR 10 MINS, FLOWED BACK 1/2 BBLS, CIRCULATED 35 BBLS OF CEMENT TO SURFACE CEMENT RAT & MOUSE HOLE W/ 35 SKS LEAD BLEND
Production 1, 4 1/2in, 4 052in, 15 ftKB, RUN 67 JTS OF 4-1/2" 10 5# STC J-55 PROD CSG SET @ 2875 4', F S @ 2874 6', F C @ 2831 7', MARKER JT @ 2056 4' CENT 10' ABOVE SHOE JT, THEN EVERY OTHER JT TO THE TOP OF FRUITLAND THEN EVERY 4TH JT TO TOP OF KIRTLAND SHALE, CENT EVERY JT THROUGH OJO FORMATION W/ TURBOLIZERS PLACED IN TRANSITION ZONE OF KIRTLAND & OJO FORMATION & ANOTHER TURBOLIZER TWO JTS UP, THEN EVERY 4TH JT INTO SURF SHOE, BREAK CIRC EVERY 25 JTS & AT-TOF OF COAL, WASH 15' OF FILL, P/U 40K, S/O - 30K, STRING WT - 35K, 2,875 ftKB
Production Casing Cement, 2,875-2,887, 2/7/2011, PJSM R/U CEMENT EQUIPMENT

PICTURED CLIFFS, 2,658

PRESSURE TEST LINES TO 3500 PSI (OK)

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