Current Schematic

ConocoPhillips

Well Name: SAN JUAN 30-5 UNIT #20M

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3003930599	008-030N-005W-G	MV/DK COM		NEW MEXICO	VERTICAL

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,347.00	6,363.00	16.00		

VERTICAL - Original Hole, 3/24/2014 1:10:43 PM

Vertical schematic (actual)

OIL CONS. DIV DIST. 3

MAY 14 2014

Formation Tops	MD (ftKB)
	15.1
	17.1
	19.4
	23.2
	43.6
	223.0
	229.0
	233.9
	299.9
	1,750.0
OJO ALA...	2,254.0
	2,425.8
	2,427.2
	2,429.8
KIRTLAND	2,529.9
FRUITLA...	2,992.1
PICTUR...	3,207.1
	3,437.2
	3,455.2
	3,530.2
	3,532.2
	3,545.9
	4,031.5
	4,041.7
MASSIV...	5,051.8
	5,053.1
MENEFEE	5,058.9
	5,341.9
	5,400.9
POINT L...	5,514.1
	5,930.1
MANCOS	5,933.0
UPPER...	6,653.0
	7,405.8
	7,417.0
GREENH...	7,555.1
DAKOTA	7,705.1
	7,706.0
	7,720.8
	7,723.1
	7,754.8
	7,754.9
	7,755.9
	7,825.1
	7,826.0
	7,863.8
	7,865.8
	7,864.2
	7,865.2
	7,870.1

1; Surface; 9 5/8 in; 9.001 in; 16.0 ftKB; 229.0 ftKB

2; Intermediate1; 7 in; 6.456 in; 16.0 ftKB; PJSM - RIH W/83 JTS OF 7", 22#, J-55, ST&C CSG (LOST CIRC @ 1945') - (REGAIN CIRC @ 3259') - TAG BTTM @ 3546' - WASH LAST 3 JTS TO BOTTOM - L/D TAG JT, M/U MANDREL ASSY & LAND, TEST MANDREL SEALS TO 1800 PSI - CSG = FLOAT SHOE (BTM @ 3532'), 1 JT CSG, FLT CLR (TOP @ 3487'), 25 JTS CSG, STAGE TOOL (TOP @ 2427'), 67 JTS CSG, 8' PUP JT & 7" CSG MANDREL (TOP @ 16' KB) - RN 24 CENTRALIZERS - LAND MANDREL & TEST SEALS TO 1800 PSI; 3,532.0 ftKB

Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 16.0 ftKB; 7,721.0 ftKB

PERF - CLIFF HOUSE / MENEFEE UPPER; 5,058.0-5,342.0; 3/26/2009

PERF - POINT LOOKOUT; 5,403.0-5,930.0; 3/26/2009

Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 7,721.0 ftKB; 7,723.1 ftKB

Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,723.0 ftKB; 7,754.2 ftKB

Profile Nipple; 2 3/8 in; 4.70 lb/ft; J-55; 7,754.2 ftKB; 7,755.0 ftKB

Mule Shoe; 2 3/8 in; 4.70 lb/ft; J-55; 7,755.0 ftKB; 7,756.0 ftKB

PERF - DAKOTA; 7,706.0-7,826.0; 3/26/2009

3; Production1; 4 1/2 in; 4.000 in; 16.1 ftKB; PJSM - RUN 192 JTS OF 4 1/2", 11.6 PPF, L-80, LT&C CSG = FLT SHOE (BTM @ 7865), FLT CLR (TP @ 7864'), 11 JTS CSG, 10' MARKER JT (7407' TO 7417'), 83 JTS CSG, 10' MARKER (4031' TO 4042'), 98 JTS CSG, 3 PUP JTS (12', 5' & 10') & 4 1/2" CSG MANDREL (TP @16') - RUN 5 BOW CENTRALIZERS (ONE ON EVERY 2ND JT F/BOTTOM) & 1 CENTRALIZER (INSIDE 7" SHOE @ 3501') - P/U TAG JTS & TAG BTTM (BLOW HOLE CLEAN) @ 8101' - L/D TAG JTS & M/U PUP JTS & MANDREL - LND MANDREL & P/U 1'; 7,865.0 ftKB

SURFACE CSG CMT; 16.0-229.0; 2/16/2009; CEMENTED W/ 76 SX CMT. CIRC 3 BBL'S CMT TO SURFACE

Intermediate Casing Cement; 300.0-2,427.0; 3/4/2009; PJSM - 2ND STG CMT = 10 BBL MD CLEAN, 10 BBL FW - MIX & PMP 10 BBL OF 11 PPG SCAVENGER CMT & 113 BBL OF 12.1 PPG PREMIUM LITE FM LEAD SLRRY. DRP PLUG & DISP W/98 BBL OF FW (LOST CIRC AFTER 60 BBL DISP), FCP 200 PSI, BUMP PLUG W/3000 PSI - CHK PLUG, OK .75 BBL BLEED BACK TO TRUCK - NO CMT RTRNS TO SURFACE NOTE - PLUG DOWN @ 04:30 HRS ON 3/5/2009

Intermediate Casing Cement; 2,427.0-3,532.0; 3/4/2009; PJSM & R/U CMNTRS - TEST LINES 3500 PSI - 1ST STAGE CMT = 10 BBL FW, 10 BBL MUD CLEAN, 10 BBL FW - MIX & PMP 10 BBL OF 11 PPG SCAVENGER CMT, 34 BBL OF 12.1 PPG PREMIUM LITE FM LEAD SLRRY & 25 BBL OF 14.6 PPG TYPE III TAIL SLRRY - DRP PLG & DISP W/60 BBL FW & 81 BBLS DRLG MUD, FCP 500, BUMP PLG W/3870 PSI, CHK FLOATS, OK - OPEN STAGE TOOL @ 2427' W/2065' PSI - CIRC FLUID OUT F/BEHIND CSG (NO CMT RTRNS) - CHANGE OVER TO RIG PUMP

Hydraulic Fracture; 3/26/2009; FRAC MENEFEE/CLIFFHOUSE FORMATION. BROKE DOWN 2987 @ 3 BPM. BULLHEAD 10 BBLS 15% HCL ACID IN FRONT OF FRAC. PUMPED 43,974 GAL 60% SLICKWATER N2 FOAM W/ 88,517# 20/40 ARIZONA SAND & 1,070,000 SCF N2. MAX PSI 2987, MIN PSI 2352, AVG PSI 2418, MAX RATE 54 BPM, MIN RATE 50 BPM, AVG RATE 52 BPM. ISIP 1511.

Hydraulic Fracture; 3/26/2009; FRAC PT LOOKOUT FORMATION. BROKE DOWN 1726 PSI @ 3 BPM. BULLHEAD 10 BBLS 15% HCL ACID IN FRONT OF FRAC. PUMPED 48,552 GAL 60% SLICKWATER N2 FOAM W/ 100,292# 20/40 ARIZONA SAND & 1,189,700 SCF N2. MAX PSI 4052, MIN PSI 2989, AVG PSI 3315, MAX RATE 65 BPM, MIN RATE 50 BPM, AVG RATE 65 BPM. ISIP VACUUM.

Hydraulic Fracture; 3/26/2009; FRAC DAKOTA FORMATION. BROKE DOWN 2412 PSI @ 3 BPM. BULLHEAD 10 BBLS 15% HCL ACID IN FRONT OF FRAC. PUMPED 107,058 GAL SLICKWATER W/ 42,532# 20/40 ARIZPONA SAND. MAX PSI 5690, MIN PSI 4097, AVG PSI 4115, MAX RATE 53 BPM, MIN RATE 35 BPM, AVG RAGE 53 BPM. ISIP 2802.

Cement Plug; 7,864.0-7,865.0; 3/3/2009

Production Casing Cement; 1,750.0-7,865.0; 3/3/2009; PJSM - R/U CEMENTERS -TEST LINES 3500 PSI F/5 MIN, OK - CMT 4 1/2" CSG - PUMP 10 BBLS CHEM WSH, 2 BBL FW - MIX & PUMP 5 BBLS 11 PPG SCVNGR CMT, MIX & PUMP 113 BBLS OF 12.5 PPG TAIL CMT.SHUT DOWN, FLUSH PUMP & LINES W/15 BBLS FW, DRP PLG, DISP W/122 BBLS FW (FIRST 10 BBLS SUGAR WATER), FCP 140 PSI, BUMP PLUG W/1030 PSI (HOLD PSI F/10 MIN, OK) CHECK FLOATS, OK (1 BBL BLEED BACK TO TRUCK), PLUG DOWN @ 03:36 HRS ON 3/3/2009 (DAYLIGHT SAVINGS TIME STARTED WHILE CEMENTING)

Cement; 7,865.0-7,870.0; 3/3/2009

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