Current Schematic

ConocoPhillips

Well Name: SAN JUAN 27-5 UNIT #165N

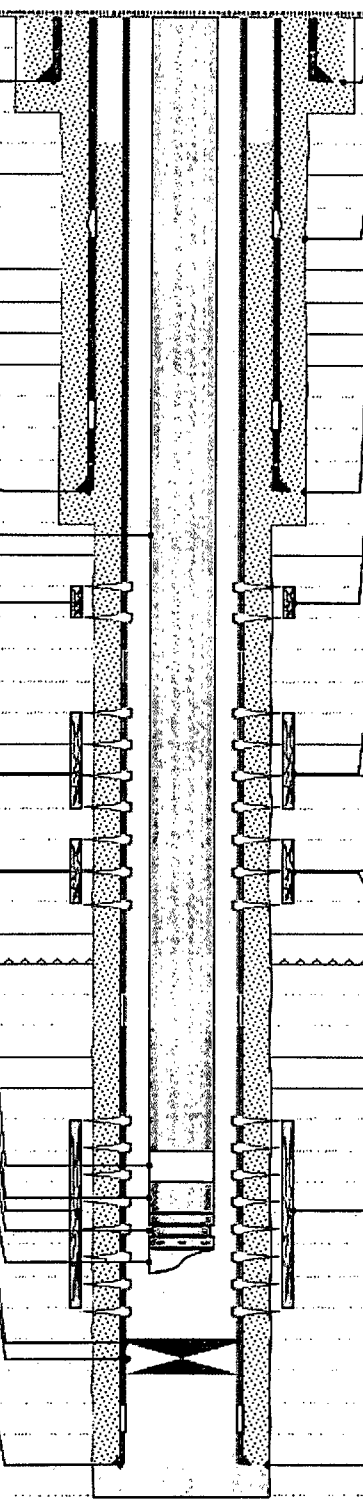
API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3003927637	029-027N-005W-H	BASIN DAKOTA (PRORATED GAS)		NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,526.00	6,541.00	15.00	6,541.00	6,541.00

Original Hole, 2/19/2014 9:49:42 AM

Formation Tops	MD (ftKB)
	15.1
	136.8
	137.8
	141.1
	2,819.9
OJO ALA...	2,853.1
	2,770.0
	2,773.0
KIRTLAND	2,820.9
FRUITLA...	3,107.0
PICTUR...	3,250.8
MESAVE...	3,455.1
	3,484.8
	3,485.7
	3,539.0
	3,540.0
	3,549.9
CHACRA	4,226.1
	4,226.0
	4,721.1
	4,735.9
	4,740.8
	4,788.1
CLIFF H...	4,795.9
MENEFEE	5,012.1
	5,210.0
	5,250.0
POINT L...	5,425.9
	5,631.9
MANCOS	5,905.1
GALLUP	6,577.1
	7,155.5
	7,205.7
GREENH...	7,253.0
DAKOTA	7,412.1
	7,453.9
	7,532.5
	7,534.4
	7,555.6
	7,555.8
	7,557.3
	7,662.1
	7,674.9
	7,675.9
	7,679.8
	7,680.8
	7,681.4
	7,793.0

Vertical schematic (actual)



1; Surface; 9 5/8 in; 9.001 in; 15.0 ftKB; INSTALLED 3 CENTALIZERS, PINNED 12' ON FIRST JT, BETWEEN JTS 2 & 3, BETWEEN JTS 3 & 4. DFW String Key = R5YKU; 137.8 ftKB

OIL CONS. DIV DIST. 3

MAY 14 2014

2; Intermediate1; 7 in; 6.456 in; 15.0 ftKB; 3,540.1 ftKB

Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 15.0 ftKB; 7,532.4 ftKB

PERF - LEWIS; 4,226.0-4,721.0; 6/18/2004

PERF - CLIFF HOUSE / MENEFEE UPPER; 4,788.0-5,210.0; 6/17/2004

PERF - POINT LOOKOUT / MENEFEE LOWER; 5,250.0-5,632.0; 6/17/2004

Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 7,532.4 ftKB; 7,534.4 ftKB

Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,534.4 ftKB; 7,565.6 ftKB

PERF - DAKOTA; 7,464.0-7,662.0; 6/16/2004

Seating Nipple; 2 3/8 in; 4.70 lb/ft; J-55; 7,565.6 ftKB; 7,566.4 ftKB

Expendable Check; 2 3/8 in; 4.70 lb/ft; J-55; 7,566.4 ftKB; 7,567.1 ftKB

PBTD; 7,675.0

CIBP; 7,675.0-7,676.0

3; Production1; 4 1/2 in; 4.052 in; 15.0 ftKB; RAN 178 JTS 4 1/2"" - 10.5# - J55 - 8RD ST&C CSG W/ A FLOAT SHOE & FLOAT COLLAR W/ 3/4 INSERT ON BOTTOM, CSG LENGTH = 7666.55', TAG BOTTOM @ 7683', MARKER JTS @ 7196.63' - 7206.54' & 4736.02' - 4740.77', P/U MANDREL, & LAND CSG , FLOAT SHOE @ 7681.55, TOP OF FLOAT COLLAR @ 7679.85'. RAN CENTRALIZERS AS PER PROG. DFW String Key = 7Z0JG; 7,681.5 ftKB

Surface Casing Cement; 15.0-137.8; 5/20/2004; Cemented with 50 sacks Type I-II Portland cement; circulated 2 bbls of cement to surface.

Intermediate Casing Cement; 15.0-2,773.1; 5/30/2004; Cemented with 309 sacks of Premium Lite FM Class C cement; circulated 12 bbls of cement to surface.

Intermediate Casing Cement; 2,773.1-3,540.1; 5/30/2004; Cemented with 55 sacks Premium Lite FM Class C, followed by 90 sacks Type III Class C tail cement; circulated 23 bbls of cement to surface.

Hyd Frac-Foam N2; 6/18/2004; Frac'd with 611 bbls of 20# Linear gel, 1,419,900 scf N2, and 200,000# 20/40 Arizona sand.
Net penetration: INCREASE; Net stim: 495;
Pumped down: CASING; Remarks: SPEARHEAD 630 GALS 15% HCL, B/D WITH FOAM, PUMPED 10000 GAL 75 QUALITY 20# LINEAR GEL/N2 FOAM PAD @ 50 BPM @ 2750 PSI PUMPED APPROX. 200,000# 20/40 SAND @ 1-3 PPG SAND CONC. @ 52-56 BPM @ 2850 PSI, @75 QUALITY N2/ FOAM.
DISPLACED WITH 16 FLUID BBLS & 26900 SCF N2

Hyd Frac-Foam N2; 6/17/2004; Frac'd with 1110 bbls Slickwater Foam, 1,270,900 scf N2, and 100,000# 20/40 Arizona sand.
Net penetration: DECREASE; Net stim: 422;
Pumped down: CASING; Remarks: SPEARHEAD 420 GALS 15% HCL, B/D WITH 2% KCL PUMPED 10000 GAL 60 QUALITY SLICKWATER/N2 FOAM PAD @ 50 BPM @ 3100 PSI
PUMPED APPROX. 100,000# 20/40 SAND @ .5-1.5 PPG SAND CONC. @ 51-54 BPM @ 2700 PSI, SLICKWATER/N2 FOAM.
DISPLACED WITH 72 FLUID BBLS
JOB PUMPED AS PER DESIGN

Hyd Frac-Slickwater; 6/17/2004; Frac'd with 10,000 gal 60Q Foam pad, 1,279,220 scf N2, and 100,000# 20/40 Arizona sand.
Net penetration: DECREASE; Net stim: 382;
Pumped down: CASING; Remarks: SPEARHEAD 420 GALS 15% HCL, B/D WITH 2% KCL PUMPED 10000 GAL 60 QUALITY SLICKWATER/N2 FOAM PAD @35- BPM @ 3900 -3650 PSI
PUMPED APPROX. 100,000# 20/40 SAND @ .5-1.5 PPG SAND CONC. @ 40-54 BPM @ 3450 PSI, SLICKWATER/N2 FOAM.
DISPLACED WITH 83 FLUID BBLS
JOB PUMPED AS PER DESIGN

Hyd Frac-Slickwater; 6/16/2004; Frac'd with 2478 bbls of Slickwater and 40,000# 20/40 TLC sand.
Net penetration: INCREASE; Net stim: 198;
Pumped down: CASING; Remarks: B/D WITH 2% KCL, SPEARHEAD 630 GALS 15% HCL PUMPED 30,000 GAL SLICKWATER PAD @ 30-57 BPM @ 3760-3310 PSI
PUMPED APPROX. 40,000# 20/40 TLC SAND @ 55 BPM @ 3400 PSI
SAND @ .25-1.5 PPG SAND CONC.
DISPLACE WITH 116 BBLS 2% KCL
JOB PUMPED AS PER DESIGN

Production Casing Cement; 2,320.0-7,681.5; 6/2/2004; Cemented with 280 sacks of Premium Lite HS FM Class B cement; TOC at 2320' per CBL 6-7-2004.

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