submitted in lieu of Form 3160-5

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



· AUG 28 2000

Adhere to previously issued stipulations.

	Sundry Notices and Reports on Wells	Bureau	Bureau of Land Management		
		5.	nington E Numbere		
			NM-012735		
١.	Type of Well	6.	If Indian, All. or		
	GAS		Tribe Name		
		7.	Unit Agreement Name		
2.	Name of Operator		San Juan 31-6 Unit		
	CONOCOPHILLIPS COMPANY				
	4.1 0. DI N	<b>—</b> 8.	Well Name & Number		
3.	Address & Phone No. of Operator		San Juan 31-6 Unit 301 SV		
	PO Box 4289, Farmington, NM 87499 (505) 326-9700	9.	API Well No.		
4.	Location of Well, Footage, Sec., T, R, M		30-039-24549		
٠.	or viving a compey cool, at any are	10.	Field and Pool		
	Surf: Unit B (NWNE), 980' FNL & 2175' FEL, Section 6, T30N, R6W, NMPM		N/A		
		11.	County and State		
			Rio Arriba Co., NM		
Ca	Describe Proposed or Completed Operations  Il to Charlie Perrin (OCD) 8/25/09 to discuss the 1700# on csg, informed him COP would ha 8/09. Called Wayne Townsend (BLM) to inform what was going on with the SWD csg.	ve proce	edures to him to fix issue by Fri		
	nocoPhillips wishes lower tubing per attached procedures. Current schematic attached.		RCVD SEP 3 '09		
-0	notes mings mones to not seeing per attached procedures. Current schematic attached.				
1.4	Thereby and Su that the Same of the Same o		GIL CONS. DIV.		
14.	I hereby certify that the foregoing is true and correct.				
Sig	ned Monda Rogers Title Staff Reg	ulatory	Technician IS Toate 8/28/09		
	nis space for Federal or State Office use)		Du alalana		
AP CO	PROVED BY Troy L Salvess  Title Petroleum Engineer  NDITION OF APPROVAL, if any:  18 U S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of nited States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		Date 9/3/2009		
AP CO Title the U	18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of inted States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		Date 41314004		
AP CO Fit le the U	18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of nited States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.  1071FY NMOCD AZTEC Z4 Hoves PRIOR TO BEGINNING		NS OF APPROVAL		

NMOCD

### ConocoPhillips SAN JUAN 31-6 UNIT 301 SWD (DK) **Tubing repair**

Lat 36° 50' 45.996" N

Long 107° 30' 7.848" W

Prepared by:

Douglas Montoya

Date:

08/27/09

Production Engineering Peer Review/approved by:

Date:

Scope of Work:

Pull tubing, remove tubing hanger, add 4.5' joint to the string, set tubing hanger back, re-set pipe and

perform MIT.

Est. Rig Days:

Area:

6

Route: 606

Est. Uplift:

Formation:

0 MCFD

DK

**WELL DATA** 

Spud Date: 9/15/1989

LOCATION:

3003924549

980 FNL & 2175 FEL, Spot B, Section 06 -T 030N - R 006W

API:

**Total Depth:** 9039'

TBG Depth:

7851'

KB:

12'

PBTD: **BTM Perf:**  9020' 8986'

**EOT to PBTD:** 1169'

BTM Perf to PBTD:

34'

Perforations:

8056'- 8318', 8461'- 8608', 8768'- 8986'

Tubular	OD	Weight	Grade	Connection	ID	Drift ID	Depth
Casing	20"	133	K-55	STC	18.73	18.542	496'
Casing	13 3/8"	68	K-55	LTC	12.415	12.259	3600'
Casing	9 5/8"	40	N-80	LTC	8.835	8.679	6093'
Casing	7"	23	N-80	LTC	5.92	5.795	9039
Tubing	4 1/2"	10.5	J-55	LTC	4.052	3.927	9039
Packer FA-1	7" x 4 1/2"				4.00		8016'
F_Nipple	4 1/2"				3.81		7798'
R_Nipple	4 1/2"				3.75		7851'
1							

#### Well History/Justification

San Juan 31-6 SWD 301 communicates through seal bore during injection causing casing pressure to drop to zero or near zero and to pressure up casing due to thermal heating and expansion during shut down or non injection cycles. Fluid is recharged to the annulus when seals in seal assembly are pulled out of seal bore by cooling during injection. During shut down non injection cycle the seals grow back into the seal bore packer due to thermal warming and the trapped fluid in the annulus pressures up due to thermal warming and expansion. Casing pressure after injection cycle reaches ~1700 psi. Pressure test performed on 7" casing and 4 ½" tubing showed that in static conditions both are holding pressure, which indicates that the seals are good.

#### Recommendation

Pull tubing, remove tubing hanger, add 4.5' joint to the string, set tubing hanger back, re-set pipe and perform MIT. The well is capable of injecting 1600 Bls/d of water.

#### Bradenhead Failure/History

B2 Adapters are required on all wells other than pumping wells.

# ConocoPhillips SAN JUAN 31-6 UNIT 301 SWD Tubing repair

Lat 36° 50' 45.996" N

Long 107° 30' 7.848" W

#### **PROCEDURE**

Prio to Rig move. RU WL and RIH memory gauges for 3 days in order to get downhole temperature and pressure.

- 1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.
- 2. MIRU work over rig. Check casing, tubing, and bradenhead pressures and record them in Wellview.
- 3. RU Wire Line set plug in R nipple @ 7851'. Test with injection pump at 1500 psi for 15 min.
- 4. RU blow lines from casing valves and begin blowing down casing and tubing pressure.
- 5. Nipple down Wellhead and NU BOP.
- 6. Spear 4 1/2" tubing and unseat hanger (pull and check Latch), set 4 1/2" tubing in slips. Pull aprox. 90.000 pounds.
- 7. MU 46,5" pup joint of 4 1/2" tubing plastic coated tubing on top.
- 8. MU tubing hanger on top of tubing and land (Record string weight).
- 9. Set locking lucs and check.
- 10. Perform and MIT please conatct OCD. Pressure test tubing.
- 11. RD MO rig.
- 12. RU WL pull plug from 3.75" R nippple.

#### **Current Schematic - Revised** ConocoPhillips :-Well Name: SAN JUAN 31-6 UNIT #301 SWD Surface Legal Location Field Name: SUFF ENTRA ield Name State/Province NEW MEXICO Vertical Ground Elevation (ft) | Original KB/RT; Elevation (ft) | KB-Ground Distance (ft) | 6,322.00 | 12.00 | KB Casing Flange Distance (ff) KB:Tubing Hanger Distance (ft) Well Config: Vertical: Main Hole (0 - 2755.4); 8/27/2009:8:12:39 AM (ND) (TVD): Schematics Activity 12 LASurface Casima Oement 42 4954 ALA ALA 9/15/1989, Cemented with 666 sxs Class 241 'B' Cement (786 cuft), circulated 30 bbls to 493 surface. 496 Surface Casing, 20in, 18 730in, 12 ftKB, 500 Adjusted K B. from 11 6' to 12' to match 2,265 OJO ALAMO, 2,265 K.B. of Production Casing, 496 ftKB 2,393 KIRTLAND, 2,393 2,478 - FRITITI AND 2912-PICTURED CLIFFS, 2,912 3.144 Hyflo Hanger Packer @ 3,144 3,440 Intermediate Casing Cement, 12-3,600, 3440.221 9/29/1989, Cemented with 2535 sxs 65/35 3,454 Class 'B' Poz (4766 cuft), followed by 200 3.516 sxs Class 'B' (236 cuft) Circulated 319 3,518 bbls to surface. 3,597 Intermediate1, 13 3/8in, 12.415in, 12 ftKB, 3,600 3,600 fKB 3,600 Tubing, 4 1/2in, 10.50lbs/ft 4,233 J-55, 12 ftkB, 7,797 ftkB MENEFEE, 4,233 MESA VEBRE 4 973. 4,873 5,228 Intermediate2 Cement, 3,440 6,093, 5 22A MANCOS, 5,804 10/4/1989, Cemented with 922 sxs 50/50. 5,804 F-Nipple, 4 1/2in, 10 50lbs/ft Class 'B' Poz (1189 cuft), followed by 100 6,069 J-55, 7,797 ftkB, 7,798 ftkB sxs Class 'B' Cement (118 cuft). Reversed 6,070 Tubing, 4 1/2in, 10.50lbs/ft, 30 bbls to surface. 6,091 J-55, 7,798 ftKB, 7,840 ftKB Intermediate2, 9 5/8in, 8.835in, 3,440 ftKB, 6,093 FA-1 Packer, 6in, 10 50lbs/ft, 6.093 ftKB 6,300 J-55, 7,840 fKB, 7,843 fKB GALLUP, 6,300 7,529 Guide For Mill Out Extension, 4 GREENHORN, 7,529 1/2in, 10 50lbs/ft, J-55, 7,843 7.580 GRANEROS, 7,580 fKB, 7,843 fKB 7 697 DAKOTA, 7,697 Mill Out Extension, 4 1/2in, 7,797 10 50lbs/ft, J-55, 7,843 ftKB, 7,799 7,849 ftKB 7,840 Cross Over, 4 1/2in, 10 50lbs/ft, 7,843 J-55, 7,849 fKB, 7,849 fKB 7 844 R-Nipple, 3 3/4in, 10 50lbs/ft, 7,849 J-55, 7,849 ftKB, 7,851 ftKB 例釋 7,849 Linear Gel-Frac, 11/2/1989, O. 7,851 Frac'd Morrison with 79,506 7,945 gals 30#X-Link Borate and MORRISON, 7,945 134,500 lbs 20/40 Sand. 8,056 Morrison, 8,056-8,318, 10/28/1989 Linear Gel-Frac, 11/2/1989, 8,318 Originally frac'd Bluff with 8,453 BLUFF, 8,453 -70,000 gals 40# Linear Gel and 8,461 75,000 lbs 20/40 Sand 8,488 Re-frac'd Bluff with 110,500 gals Bluff, 8,461-8,608, 10/25/1989 8.608 30#X-Link Gel and 126,300 lbs 8,701 TODILTO, 8,701 20/40 Sand. 8,754 Entrada, 8,768-8,986, 10/23/1989 ENTRADA, 8,754 Linear Gel-Frac, 11/2/1989, Fill, 9,008-9,020, Ruptured inflatable bridge 8.768 Frac'd Entrada with 95,004 gals plug chased down to 9008' 8,986 30# X-Link Borate Gel and Production Casing Cement, 5,895-9,039 -176,451 lbs 20/40 Sand-8,987 CHINLE, 8,987 -10/20/1989, Cemented with 810 sxs 50/50 9.008 Class 'G' Poz (1417 cuft), followed by 200 9,020 PBTD, 9,020 sxs Class 'G' (295 cuft). TOC @ 5895' CBL 9,021 - 10/23/89. 9,023 Plugback, 9,020-9,039, 10/21/1989

Production, 7in, 6 366in, 12 ftKB, 9,039

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9,036

9,039

TD, 9,039, 10/20/1989