

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 20005. Lease Serial No.  
NMSF 0805381a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other  
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.

Other

2. Name of Operator

CONOCOPHILLIPS CO.

3. Address

P.O. BOX 2197 WL3 4061 HOUSTON TX 77252

3.a Phone No. (Include area code)

(832)486-2326

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At Surface SWSE 337 FSL &amp; 2602 FEL

At top prod. interval reported below

At total depth

14. Date Spudded

06/07/2003

15. Date T.D. Reached

06/17/2003

16. Date Completed

☐ D & A ☒ Ready to Prod

08/06/2003

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

8. Lease Name and Well No.

SAN JUAN 30-5 UNIT 29B

9. API Well No.

30-039-26776

10. Field and Pool, or Exploratory

BASIN DAKOTA

11. Sec., T., R., M., on Block and

Survey or Area O 14 30N 5W

12. County or Parish

RIO ARriba

13. State

NEW MEXICO

17. Elevations (DF, RKB, RT, GL)\*

6693 GL

18. Total Depth: MD 8168  
TVD19. Plug Back T.D.: MD 8164  
TVD20. Depth Bridge Plug Set: MD  
TVD21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)  
CBL, TDT, GR/CCL22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625 H40	32.3	0	250		150		0	
8.75	7 J55	20	0	3836		600		0	
6.25	4.5 I80	11.6	0	8166		515		2590	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7997							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BASIN DAKOTA	8010	8106	8010 - 8106	.75	42	open
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8010 - 8106	frac w/ 130 XL 65Q N2, 100,000# 20/40 sand & 1511 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/07/03	08/01/03	24	→	0	1370	0			flowing
Choice Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/2	SI 220	860	→					producing	

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

NMOCD

ACCEPTED FOR RECORD

SEP 12 2003

FARMINGTON FIELD OFFICE

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				NACIAMENTO	1644
				OJO ALAMO	2833
				KIRTLAND	2997
				FRUITLAND	3208
				PICTURED CLIFFS	3453
				HUERFANITO	4469
				LEWIS	4472
				CLIFFHOUSE	5401
				POINT LOOKOUT	5838
				GALLUP	7155
				L. CUBERO	8041

## 32. Additional remarks (include plugging procedure):

This well is a downhole commingled well producing from the Blanco Mesaverde and Basin Dakota. Attached are the daily summaries and a current wellbore schematic.

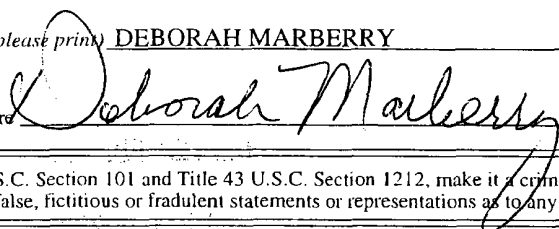
## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geological Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7. Other

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) DEBORAH MARBERRYTitle REGULATORY ANALYST

Signature


Date 08/28/2003

Title 18 U.S.C. Section 101 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Operations Summary Report

Legal Well Name: SAN JUAN 30-5 DAKOTA UNIT 000029B  
 Common Well Name: SAN JUAN 30-5 DAKOTA # 29B UNIT Spud Date: 06/07/2003  
 Event Name: Original Completion Start: 06/05/2003 End: 08/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 06/18/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 47

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/25/2003	07:00 - 07:30	0.50	LG	c	80CMPL	Held safety meeting.
	07:30 - 14:00	6.50	LG	z	80CMPL	RU Schlumberger. Pressured up on 4 1/2" csg to 1000 #. Ran CBL log from 8147' to 2390'. Top of cement @ 2590'. Ran TDT log from 8147' to 2500'. Ran GR/ CCL log from 8147' to surface. rd schlumberger. RU Wood Group. Tested 4 1/2" csg to 4800 #. Held ok. swi.
06/28/2003	06:00 - 06:30	0.50	CM	c	80CMPL	Held safet meeting.
	06:30 - 08:30	2.00	CM	q	80CMPL	RU Blue Jet. Perforated the Dakota. RIH w/ 3 1/8" 120 degree select fire perforating gun. perforated from: 8010' - 8040' w/ 1/2 spf, 8056' - 8065' w/ 1 spf, 8076' - 8106' w/ 1/2 spf. A total of 42 holes.
	08:30 - 12:30	4.00			80CMPL	RU Schlumberger. tested lines to 5425 #. Set pop off @ 4450 #. Brof down formation @ 5 BPM @ 1229 #. Dropped 34 ball sealers in 1500 gals of 15% HCL acid @ 1 ball per bbl @ 15 BPM @ 1745. Good ball action. Balled off @ 4000 #. RIH w/ junk basket retrieved 33 balls. Pumped pre pad @ 37 BPM @ 2743 #. SDRT 30 BPM @ 2200 #. SDRT 20 BPM @ 1725 #. SDRT 15 BPM @ 1509 #. ISIP 1120 #. 5 min 0 #. Frac the Dakota w/ YF:130 XL 65Q N2. 100,000 # of 20/40 Supper LC sand and 1511 bbls fluid @ 1807.5 Mscf N2. Avg rate 35 BPM. Avg psi 4150. Max psi 4292. Max sand cons 1.5 # per gal. ISIP 3032 #. Frac gradient .58.
	12:30 - 15:00	2.50	CM	q	80CMPL	RU BLUE JET. RIH w/ 4 1/2" frac plug. Set plug @ 6000'. tested plug to 4800 #. Held ok. Perforated the Cliffhouse, Menefee and Point Lookout. RNH w/ 3 1/8" 120 degree select fire perforating gun. Perforated from 5588' - 5596' w/ 1/2 spf, 5650' - 5660' w/ 1/2 spf, 5678' - 5688' w/ 1/2 spf, 5798' - 5806' w/ 1/2 spf, 5826' - 5832' w/ 1/2 spf, 5862' - 5874' w/ 1/2 spf, 5892' - 5896' w/ 1/2 spf. A total of 36 holes.
	15:00 - 19:00	4.00	CM	s	80CMPL	Frac the Cliffhouse, Menefee and Point Lookout. Tested lines to 5420 #. Set pop off @ 4450 #. Brok down formation @ 5 BPM @ 3450 #. Pumped pre pad @ 35 BPM @ 4091 #. SDRT 25 BPM @ 2807 #. SDRT 20 BPM @ 2083 #. SDRT 10 BPM @ 1148 #. ISIP 1099 #. Frac THE MV w/ 65' Q Slick Foam w/ 0.5 g/mg FR. 190,000 # of 20/40 Brady sand. Treated the last 15% of total proppant volume with propnet for proppant flowback control. 2169 bbls fluid. 2651.2 Mscf N2. Avg rate 65 BPM. Avg psi 3487. Max psi 3887. Max sand cons 1.5 # per gal. ISIP 2467 #. Frac gradient .57. swi RD Schlumberger.
07/21/2003	07:00 - 07:30	0.50	WS	c	90WOVR	JSA, START RIG , READY TO MOVE.
	07:30 - 09:30	2.00	MV	6	90WOVR	JSA WITH DAWN TRUCKING, LOAD UP EQUIPMENT,
	09:30 - 10:30	1.00	MV	t	90WOVR	ROAD RIG TO NEXT LOCATION, ABOUT 16 MILE MOVE.
	10:30 - 12:30	2.00	MV	6	90WOVR	BEFORE MOVING ONTO LOCATION, JSA, TEST FOR GAS, FOUND LEAK BETWEEN FRAC VALVE AND MASTER VALVE. FIX LEAK. SPOT IN RIG CSG PRESS. 1325#
	12:30 - 13:30	1.00	MV	6	90WOVR	RIG UP PULLING UNIT, SPOT IN EQUIPMENT , SPOT IN TRAILER OF TBG,
	13:30 - 19:30	6.00	RM	z	90WOVR	LEVEL III OIL CHANGE, ALL HYDRALIC FLUIDS CHANGE, MECHANIC INSPECT RIG FOR FUTURE REPAIRS. SDFN
07/22/2003	07:00 - 07:30	0.50	WS	c	80CMPL	JSA, SICP 1325#, STRAT RIG.
	07:30 - 08:00	0.50	WS	6	80CMPL	RU FLOW LINE TO PIT, TEST TO 1000#, OKAY , RU 1/2" CHOKE AN MUFFLER
	08:00 - 09:00	1.00	WS	g	80CMPL	WELL FLOWING TO PIT ON 1/2" CHOKE, PRESS. AT 1300#, N2 WITH HEAVY FLUIDS.
	09:00 - 11:00	2.00	WS	g	80CMPL	FLOWING WELL TO PIT, N2, HEAVY FLUIDS, NO SAND, PRESS. DOWN TO 1000#.
	11:00 - 16:00	5.00	WS	g	80CMPL	FLOWING WELL TO PIT, N2, MED FLUIDS, NO SAND. PRESS. DOWN TO 700#.

## Operations Summary Report

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 Common Well Name: SAN JUAN 30-5 DAKOTA # 29B UNIT  
 Event Name: Original Completion Start: 06/05/2003 End: 08/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 06/18/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 47

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/22/2003	16:00 - 19:30	3.50	WS	g	80CMPL	WELL FLOWING TO PIT, SOME N2, NO SAND, LITE FLUIDS, PRESS AT 690#
	19:30 - 23:59	4.48	WS	g	80CMPL	FLOW BACK HAND OUT AT 0700 PM, PRESS AT 0700 WAS 690#, PRESS AT 2400 WAS AT 600# AN WAS ALL GAS, WELL NOT MAKING ANY SAND WITH LITE MIST FLUIDS.
07/23/2003	07:30 - 08:00	0.50	WS	c	80CMPL	JSA, FLOWED WELL OVER NIGHT, WELL HAD 560# ON CSG, THUR 1/2" CHOKE TO PIT. NO SAND AN LITE MIST
	08:00 - 08:30	0.50	WS	g	80CMPL	REMOVE 1/2" CHOKE, OPEN WELL TO PIT ON 2" LINE. PRESS DOWN TO 250#
	08:30 - 08:45	0.25	WS	v	80CMPL	RU RIG PUMP, KILL WELL WITH 40 BBLS OF 2% KCL, RD PUMP.
	08:45 - 09:00	0.25	WS	e	80CMPL	RI WITH TBG HANGER AN BPV, SET AN LOCK DOWN, RD FRAC VALVE, RU BOP, RU FLOOR.
	09:00 - 10:00	1.00	WS	8	80CMPL	RU HIGH PRESS. PUMP, TEST BOP, 300#, 3000# ON BOTH BLINDS AN RAMS. OKAY, RD PUMP, WELL CAME IN. KILL WELL 20 MORE BBLS OF 2% KCL. POOH WITH HANGER AN BPV.
	10:00 - 13:00	3.00	WS	4	80CMPL	PU AN RIH WITH, EX. CHECK, F-NIPPLE, 1.78", AN TBG PU AN TALLY IN. 100 JOINTS.
	13:00 - 14:00	1.00	WS	c	80CMPL	SHUT DOWN, KEY ENERGY, MONTHLY RIG INSPECTION.
	14:00 - 16:30	2.50	WS	4	80CMPL	RESUME OPERATION, CONT. RIH WITH TBG. TAG UP PLUG AT 6004', NO FILL, PU TBG TO 5814'.
	16:30 - 17:45	1.25	WS	5	80CMPL	RU AIR, EST RATE, PUMP 5 BBLS OF FLUIDS, DROP BALL, PUMP OUT PLUG, 750#. CIR CLEAN, SHUT DOWN AIR.
	17:45 - 18:00	0.25	WS	g	80CMPL	RU FLOW BACK ON 1/2" CHOKE, WELL FLOWING AT 460# ON TBG AN 750# ON CSG, WELL FLOWING UP TBG.
07/24/2003	18:00 - 23:59	5.98	FT	i	80CMPL	DRY WATCH OUT, WELL STABLELIZED, TBG. PRESS. 370 #, CSG. PRESS 700#, NO SAND AN LITE MIST.
	07:00 - 07:30	0.50	WS	c	80CMPL	JSA, FLOWING STABLE TBG PRESS. 370#, CSG 700#, RATE AT 2366MCF, NO FLUIDS. END OF TBG WAS 5814'. FLOWING THUR 1/2" CHOKE.
	07:30 - 09:00	1.50	WS	u	80CMPL	RU WIRELINE, RIH WITH GAUGE RING, POOH WITH GAUGE RING, RIH WITH PLUG, SET IN F-NIPPLE AT 5814'. POOH WITH SETTING TOOL. RD WIRELINE.
	09:00 - 09:15	0.25	WS	v	80CMPL	KILL WELL WITH 30 BBLS OF 2 % KCL.
	09:15 - 11:00	1.75	WS	4	80CMPL	POOH WITH 92 STANDS AN A SINGLE, F-NIPPLE.
	11:00 - 13:20	2.33	WS	4	80CMPL	PU AN RIH WITH 4.5" MILL, X/O WITH DART, AN TBG, TAG PLUG AT 6004'.
	13:20 - 13:45	0.42	WS	6	80CMPL	RD TONGS, RU POWER SWIVEL
	13:45 - 14:00	0.25	WS	5	80CMPL	RU AIR UNIT, EST RATE CIR. CLEAN. 680# CIR PRESS.
	14:00 - 14:45	0.75	WS	h	80CMPL	D/O PLUG, CIR CLEAN, PRESS UP TO 700#, 15 BBLS OF FOAM PER HOUR FROM AIR UNIT.
	14:45 - 18:30	3.75	WS	6	80CMPL	SHUT DOWN AIR, RD POWER SWIVEL, RIH WITH TBG, TAG UP AT 8010' (TOP PERF) WORK MILL, TO 8030'. ??? POSSIBLE PLUG, RIH WITH TBG TAG UP AT 8080', RU POWER SWIVEL, RU AIR, EST RATE, MILL OUT TO 8082', RETURNS SHOW METAL. ( POSSIBLE BAD CSG.) CIR CLEAN
07/25/2003	18:30 - 19:00	0.50	WS	6	80CMPL	SHUT DOWN AIR, PU AN LAY DOWN FOUR JOINTS. SECURE WELL SDFN
	07:00 - 07:30	0.50	WS	c	80CMPL	JSA, SICP 950#, START RIG
	07:30 - 08:00	0.50	WS	g	80CMPL	BLOW WELL DOWN.
	08:00 - 09:00	1.00	WS	4	80CMPL	RIH WITH TBG, TAG UP, RU AIR UNIT, EST RATE
	09:00 - 11:30	2.50	WS	h	80CMPL	MILL ON CSG. NO GAIN.
	11:30 - 12:15	0.75	WS	5	80CMPL	PU TBG. CIR CLEAN.
	12:15 - 12:30	0.25	WS	6	80CMPL	SHUT DOWN AIR, RD POWER SWIVEL.

## Operations Summary Report

Legal Well Name: SAN JUAN 30-5 DAKOTA UNIT 000029B  
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 Event Name: Original Completion Start: 06/05/2003 End: 08/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 06/18/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 47

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/25/2003	12:30 - 15:00	2.50	WS	4	80CMPL	POOH WITH TBG. TBG WAS TWISTED OFF, MISSING ONE JOINT, X/O AN MILL.
07/26/2003	15:00 - 16:00	1.00	WS	z	80CMPL	SECURE WELL SDFN
	07:00 - 07:30	0.50	FI	c	80CMPL	JSA, SICP 1080#, START RIG.
	07:30 - 08:30	1.00	FI	z	80CMPL	WAIT ON TRUCKING CO., ROAD MUDDY, TO DELIVER DRILL COLLARS.
	08:30 - 10:00	1.50	WS	g	80CMPL	BLOW WELL DOWN, PICK UP TOOLS, SHORT SKIRT, OVERSHOT, STRING FLOAT, 1 DRILL COLLAR. RU RIG PUMP, PUMP 50 BBLs OF 2% KCL, KILL WELL.
	10:00 - 12:15	2.25	FI	2	80CMPL	PU AN RIH WITH 3 MORE DRILL COLLARS AN 126 STANDS OF TBG. TAG UP ON FISH. TRY TO LATCH ONTO FISH.
	12:15 - 13:00	0.75	FI	6	80CMPL	RU POWER SWIVEL.
	13:00 - 13:30	0.50	FI	6	80CMPL	RU AIR UNIT, EST RATE, MILL OVER FISH, TRY TO LATCH, CHASE DOWN 6 MORE FEET. POSSIBLE LATCH, AIR PRESS 1100#, PU TBG CIR. CLEAN.
	13:30 - 14:00	0.50	FI	6	80CMPL	RIG DOWN POWER SWIVEL
	14:00 - 15:30	1.50	FI	2	80CMPL	POOH WITH TBG., 100 STANDS.
	15:30 - 16:00	0.50	WO	w	80CMPL	SHUT DOWN OPS. DUE TO RAIN STORM WITH LIGHTING.
07/27/2003	16:00 - 17:00	1.00	FI	4	80CMPL	KILL WELL WITH 50 BBLs OF 2 % KCL, FINISH POOH WITH TBG, DC, AN OVERSHOT. MARKS ON OVERSHOT SHOWS TBG, FLARED TO ONE SIDE.
	17:00 - 18:30	1.50	FI	4	80CMPL	KILL WELL 30 BBLs OF 2 % KCL, RIH WITH MILL, STRING FLOAT, ONE DRILL COLLAR, STABILIZER, THREE DRILL COLLARS, AN 87 STANDS OF TBG. @ 5500'. SECURE WELL SDFN
	07:30 - 08:00	0.50	WS	c	80CMPL	JSA, SICP 980#, START RIG.
	08:00 - 08:15	0.25	FI	g	80CMPL	OPEN WELL TO PIT, BLOW WELL DOWN.
	08:15 - 08:40	0.42	FI	4	80CMPL	RIH WITH 41 STANDS,
	08:40 - 09:00	0.33	FI	6	80CMPL	RU POWER SWIVEL, TAG UP 8082'
	09:00 - 09:30	0.50	FI	5	80CMPL	RU AIR UNIT, TRY TO EST. RATE, PRESS UP TO 1950#, TBG PLUGGED.
	09:30 - 09:45	0.25	FI	5	80CMPL	BLOW TBG DOWN.
	09:45 - 10:00	0.25	FI	4	80CMPL	RD POWER SWIVEL
	10:00 - 11:00	1.00	FI	4	80CMPL	POOH WITH 46 STANDS OF TBG.
07/31/2003	11:00 - 14:30	3.50	FI	7	80CMPL	SHUT DOWN, LOSS AIR COMPREEOR ON RIG, NO AIR PRESS. FOR RIG. CALL OUT MECHANIC, REPLACE COMPRESSOR AN FAN BELTS.
	14:30 - 16:00	1.50	FI	4	80CMPL	BLOW WELL DOWN. POOH WITH 100 STANDS OF TBGAN BHA.
	16:00 - 17:00	1.00	FI	4	80CMPL	TOOK BHA APART, FOUND ONE DRILL COLLAR PLUG WITH RUST. UNPLUGGED,
	17:00 - 17:15	0.25	FI	5	80CMPL	KILL WELL WITH 40 BBLs OF KCL.,
	17:15 - 19:00	1.75	FI	4	80CMPL	RIH WITH MILL, STRING FLOAT, ONE DRILL COLLAR, STABILIZER, 3- DRILL COLLARS, AN 75 STANDS OF TBG, RU AIR UNIT, CIR TBG., CLEAN
	19:00 - 19:30	0.50	FI	5	80CMPL	UNLOAD WELL, CIR CLEAN, SHUT DOWN AIR, SDFN
	06:30 - 09:30	3.00	WS	c	80CMPL	ATTENDED CO. MONTHLY SAFETY MEETING.
	09:30 - 10:00	0.50	FI	c	80CMPL	JSA, SICP 1085#, OPEN WELL TO PIT BLOW DOWN,
	10:00 - 11:30	1.50	FI	4	80CMPL	RIH WITH 41 STANDS, RU POWER SWIVEL,
	11:30 - 12:15	0.75	FI	5	80CMPL	RU AIR UNIT EST RATE AT 1000#, UNLOAD WELL.
07/31/2003	12:15 - 13:00	0.75	FI	h	80CMPL	RIH WITH TBG TAG UP, 8095'. START MILLING ON FISH.
	13:00 - 16:30	3.50	FI	h	80CMPL	MILL ON FISH 3.5 HOURS, MADE ABOUT THREE FEET OF HOLE, GOOD RETURNS, SHOWS METAL SHAVINGS, SOME SAND, MILL OUT TO 8098'. MILL STOP WORKING, POSSIBLE FISH TURNING OR MILL WORE OUT.

## Operations Summary Report

Legal Well Name: SAN JUAN 30-5 DAKOTA UNIT 000029B  
 Common Well Name: SAN JUAN 30-5 DAKOTA # 29B UNIT  
 Event Name: Original Completion Start: 06/05/2003 End: 08/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 06/18/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 47

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/31/2003	16:30 - 17:00	0.50	FI	5	80CMPL	PU MILL, CIR CLEAN., SHUT DOWN AIR, BLOW DOWN TBG, RD POWER SWIVEL.
	17:00 - 19:00	2.00	FI	4	80CMPL	POOH WITH 126 STANDS OF TBG, KILL WELL WITH 40 BBLs OF KCL, POOH WITH FISHING ASSEMBLY. FOUND MILL TO BE WORE OUT.
	19:00 - 20:00	1.00	FI	4	80CMPL	CHANGE OUT MILL, RIH WITH MILL, BASKET, JARS, ONE DRILL COLLAR, STABILIZER, THREE DRILL COLLARS, AN 28 STANDS OF TBG, SECURE WELL SDFN.
08/01/2003	07:30 - 08:00	0.50	WS	c	80CMPL	JSA, SICP 1000#,
	08:00 - 09:00	1.00	WS	g	80CMPL	BLOW WELL DOWN, START RIG
	09:00 - 10:30	1.50	FI	4	80CMPL	RIH WITH 98 STANDS OF TBG.
	10:30 - 11:00	0.50	FI	6	80CMPL	PU AN RU POWER SWIVEL, RU AIR UNIT, EST RTAE AT 1150#
	11:00 - 13:30	2.50	FI	h	80CMPL	MILL FROM 8098' TO 8099.5', MADE ALL 1.5' IN THE FIRST 30 MINS OF MILL, DIDNOT MAKE HOLE LAST TWO HOURS. PU TBG, CIR CLEAN. tools dragging last 10" of hole.
	13:30 - 14:00	0.50	FI	6	80CMPL	SHUT DOWN AIR UNIT, BLOW DOWN TBG, RD POWER SWIVEL
	14:00 - 15:30	1.50	FI	4	80CMPL	POOH WITH 100 STANDS OF TBG.
	15:30 - 15:45	0.25	WC	1	80CMPL	RU RIG PUMP, PUMP 40 BBLs OF KCL, KILL WELL
	15:45 - 16:30	0.75	FI	2	80CMPL	POOH WITH 28 STANDS OF TBG., LAY DOWN, 2- 3 1/8" DRILL COLLARS, JARS, 1- 3 1/16" DRILL COLLAR, 1-3 11/16" STABILIZER, 1-3 1/16" DRILL COLLAR, BIT SUB, BOOT BASKET, 3 7/8" JUNK MILL, MILL WORE ACROSS.
	16:30 - 17:30	1.00	WO	u	80CMPL	WAIT ON PACKER.
08/04/2003	17:30 - 18:45	1.25	FT	4	80CMPL	RIH WITH BAKER PACKER AN ON /OFF VALVE, AN 127 STANDS OF TBG
	18:45 - 20:00	1.25	FT	1	80CMPL	SET PACKER, @7942', OPEN VALVE, EST FLOW UP TBG, RU FLOW LINE ON 1/2" CHOKE, SHUT IN CSG. START FLOW TEST, WILL DRY WATCH PM/AM
	07:30 - 08:00	0.50	WS	c	80CMPL	JSA, OBTAIN GAS SAMPLE FROM DK. FLOW TEST DK. FOR 12 HOURS, STABLE RATE AT 1370 MCF, FLOWING TBG PRESS, THUR 1/2" CHOKE NIPPLE, 220#. SHUT IN CSG PRESS, BEHIND PACKER 860#, 0 BBLs. WATER, 0BBLs OIL. PACKER SET AT 7942'. DATE OF TEST 8-1-2003. WITNESS BY GILBERT BENNETT, KEY ENERGY, J. VALDEZ, COPC.
	08:00 - 09:00	1.00	WS	2	80CMPL	SHUT IN TBG, REMOVE CHOKE NIPPLE FROM FLOW LINE, LET WELL EQUILIZE, RELEASE PACKER, SHUT TBG, VALVE. BLOW DOWN TBG.
	09:00 - 12:30	3.50	WS	4	80CMPL	POOH WITH 127 STANDS OF TBG AN PACKER., HAD TO KILL WELL THREE TIMES, WELL KEEP ON SETTING PACKER.
	12:30 - 14:00	1.50	WS	4	80CMPL	RIH WITH G-PLUG AN SETTING TOOL, AN 95 STANDS OF TBG, SET PLUG AT 5930', PU END OF TBG TO 5800'.
	14:00 - 14:30	0.50	WS	6	80CMPL	RU FLOW BACK LINE, USE 1/2" CHOKE, SHUT IN CSG, OPEN TBG, START FLOW TEST, WELL FLOWING, 350# ON TBG, 650# ON CSG. WELL UNLOADING KILL FLUIDS.
	14:30 - 18:00	3.50	FT	i	80CMPL	WELL FLOWING ON 1/2" CHOKE, 350# TBG, 700# CSG, WELL UNLOADING KILL FLUIDS, WILL DRY WATCH WELL FOR 12 HOURS. TO OBTAIN STABLE TEST.
	07:30 - 08:00	0.50	WS	c	80CMPL	JSA, SICP AN TBG PRESS. 800#. OBTAIN GAS SAMPLE. FLOWED WELL FOR 12 HOURS BEFORE SHUT IN, STABLE RATE OF 1619 MCF, FLOWING TBG PRESS. 260#, CSG PRESS AT 600#, 0 WATER, 0 OIL. FLOW TESTED ON 1/2" CHOKE, END OF TBG AT 5800'. WITNESS BY, GILBERT BENNETT, KEY ENERGY, J. VALDEZ, COPC. DATE OF TEST 8-2-2003. TEST IS FOR THE MESA VERDE.

## Operations Summary Report

Legal Well Name: SAN JUAN 30-5 DAKOTA UNIT 000029B  
 Common Well Name: SAN JUAN 30-5 DAKOTA # 29B UNIT  
 Event Name: Original Completion Start: 06/05/2003 End: 08/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 06/18/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 47

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/05/2003	08:00 - 08:40	0.67	WS	g	80CMPL	REMOVE CHOKE NIPPLE, OPEN WELL TO PIT, BLOW WELL DOWN, KILL WELL WITH 60 BBLs OF 2% KCL,
	08:40 - 09:00	0.33	WS	4	80CMPL	RIH WITH TWO STANDS OF TBG TAG G-PLUG, LATCH AN RELEASE. WELL UNLOAD KILL FLUIDS, PLUG RELEASED. KILL TBG 20 BBLs.
	09:00 - 10:30	1.50	WS	4	80CMPL	POOH WITH 127 STANDS OF TBG. , RETRIEVING HEAD AN G-PLUG.
	10:30 - 10:45	0.25	WS	2	80CMPL	REMOVE AN LAY DOWN G-PLUG AN RETRIEVING HEAD.
	10:45 - 13:00	2.25	WS	4	80CMPL	PU AN RIH WITH EXPENDABLE CHECK, 4' SUB (2 3/8"), F-NIPPLE ( 1.81"), AN 50 STANDS OF TBG, DRIFT IN.
	13:00 - 14:10	1.17	WS	5	80CMPL	RU RIG PUMP , PUMP 3 BBLs OF KCL, RU AIR UNIT, TRY TO EST RATE., COULD NOT, CHECK PLUG. RD AIR. BLOW DOWN, POOH WIOTH 50 STANDS AN CHECK. FOUND RUST IN CHECK. C/O
	14:10 - 15:30	1.33	WS	4	80CMPL	RIH WITH EXPENABLE CHECK, 4' SUB. F-NIPPLE, AN 70 STANDS OF TBG. RU RIG PUMP, PUMP 3 BBLs. RU AIR , EST RATE, CIR CLEAN , 700# . RD AIR. BLOW DOWN.
	15:30 - 16:20	0.83	WS	4	80CMPL	RIH WITH 58 STANDS OF TBG, PU TBG HANGER LAND WELL. 256 JOINTS OF TBG., F-NIPPLE @ 7997', EXPENDABLE CHECK @8001'.
	16:20 - 17:00	0.67	WS	6	80CMPL	RD FLOOR, RD BOP, RU WELL HEAD, RU AIR UNIT,
	17:00 - 20:00	3.00	WS	5	80CMPL	EST RATE WITH AIR , CIRCALATE CLEAN, SHUT DOWN AIR , PUMP 3 BBLs OF KCL, DROP BALL, START UP AIR, PUMP OUT CHECK @800# , UNLOAD WELL. SHUT DOWN AIR , SHUT IN CSG. OPEN TBG TO PIT, CSG PRESS, 720#, WELL FLOWING TO PIT, FLOWED FOR ONE HOUR. SHUT WELL IN. SDFN.
08/06/2003	10:30 - 13:30	3.00	WS	c	70DMOB	ATTENDED KEY MONTHLY SAFETY MEETING, AND TRAINING AM. TRAVEL TO LOCATION, JSA, SICP 1000# , SITP 1000#. RIG DOWN RIG AND EQUIPMENT. MOVE OFF. LAST REPORT, TURN WELL BACK TO PIPELINE, STILL HAVE TO WELD UP PIPING ON WELLHEAD. WHEN MOVE ON WELL HAD TIGHT CSG BETWEEN 8010' > 8040', MILL THUR, STILL FELL DRAG , CSG OKAY FROM 8040' TO 8082'. WE STUCK MILL AND CHANGE OVER AT 8082', TWIST OFF 2' OF TBG ABOVE CHANGE OVER. TRY TO FISH COULD NOT, MILL OUT CHANGE OVER AND MILL, MILL OUT TO 8100'. CSG POSSIBLE SPLIT, TOOLS DRAGGING BOTTOM 10 '. 8090'>8100' , MILL SHOWED TO BE MILL IN CENTER OF MILL. ????. RETURNS SHOW METAL.

Well Name: SAN JUAN 30-5 # 29B  
API #: 30-039-26776

Spud Date: 7-Jun-03  
Spud Time: 22:00 hrs

TD Date: 17-Jun-03  
Rig Release Date: 18-Jun-03

RKB TO GROUND LEVEL: 12 FT  
ALL DEPTHS ARE FROM RKB

7 1/16" 5M x 2 1/16" Tree Adapter/Cap  
11" 3M x 7 1/16" 5M Tubing Head  
11" 3M x 11" 3M Casing Spool  
9-5/8" 8 RD x 11" 3M Casing Head

**Surface Casing** Date set: 8-Jun-03  
Size 9 5/8 in  
Set at 250 ft # Jnts: 8  
Wt. 32.3 ppf Grade H-40  
Hole Size 12 1/4 in  
Wash Out 150 %  
Est. T.O.C. 0 ft Csg Shoe 250 ft  
TD of surface 250 ft

Notified BLM @ \_\_\_\_\_ hrs on \_\_\_\_\_  
Notified NMOCD @ \_\_\_\_\_ hrs on \_\_\_\_\_

**Intermediate Casing** Date set: 13-Jun-03  
Size 7 in  
Set at 3836 ft # Jnts: 93  
Wt. 20 ppf Grade J-55  
Hole Size 8 3/4 in  
Wash Out 150 %  
Est. T.O.C. SURFACE Csg Shoe 3836 ft  
TD of intermediate 3840 ft

Notified BLM @ \_\_\_\_\_ hrs on \_\_\_\_\_  
Notified NMOCD @ \_\_\_\_\_ hrs on \_\_\_\_\_

**Production Casing** Date set: 17-Jun-03  
Size 4 1/2 in  
Wt. 11.6 ppf Grade: I-80 from 0 to 8166 ft  
Hole Size 6 1/4 in # Jnts: 194  
Wash Out 60 %  
Est. T.O.C. 3200 ft  
Marker Jt: Yes ft Length of Marker Jt: 20 ft  
Top of Marker Jt 7932 ft  
Bottom of Marker Jt: 7952 ft

Notified BLM @ \_\_\_\_\_ hrs  
on \_\_\_\_\_ Top of Float Collar 8164 ft  
Notified NMOCD @ \_\_\_\_\_ hrs Csg Shoe 8166 ft

TD 8,168 ft

**Surface Cmt** Date cmt'd: 8-Jun-03  
Lead : 150 sx 50/50 POZ:Standard  
+ 2% Bentonite + 3% CaCl2  
+ 5 lb/sx Gilsonite + 0.25 lb/sx Cello-Flake  
+ 0.2 CFR-3, Yield = 1.34 cuft/sx  
201 cuft slurry mixed at 13.5 ppg  
Displacement: 17.5 bbls Fresh Wtr  
Pumping Done at: 05:00 hrs  
Final Circ Pressure : 90 psi  
Returns during job: Yes  
CMT Returns to surface: 8 bbls  
Floats Held: No floats run  
W.O.C. for 13.25 hrs (plug bump to drlg cmt)

**Int. Cement** Date cmt'd: 13-Jun-03  
Lead : 500 sx Standard Cement  
+ 3% Econolite + 10 lb/sx PhenoSeal  
2.88 cuft/sx, 1440 cuft slurry at 11.5 ppg  
Tail: 100 sx 50/50 POZ:Standard Cement  
+ 2% Bentonite + 6 lb/sx PhenoSeal  
1.33 cuft/sx, 133 cuft slurry at 13.5 ppg  
Displacement: 153 bbls Fresh Wtr  
Bumped Plug at: 17:54 hrs  
Final Circ Pressure: 840 psi  
Returns during job: SEE COMMENTS  
CMT Returns to surface: 40 bbls  
Floats Held: X Yes \_\_\_ No  
W.O.C. for 20 hrs (plug bump to drlg cmt)

**Prod. Cmt** Date cmt'd: 17-Jun-03  
515 sx 50/50 POZ:Standard Cement  
+ 3% Bentonite + 0.2 % CFR-3  
+ 0.1% HR-5 + 0.8% Halad-9  
+ 5 lb/sx PhenoSeal  
1.45 cuft/ sx, 747 cuft slurry at 13.1 ppg  
Displacement: 126 bbls 2% claytreat  
Bumped Plug at: 16:25 hrs  
Final Circ Pressure: 1200 psi  
Returns during job: SEE COMMENTS  
CMT Returns to surface: none  
Floats Held: X Yes \_\_\_ No  
Mud Wt. @ TD AIR ppg

COMMENTS:

Surface: No float equipment run. Ran guide shoe and aluminum baffle plate 1 jt above guide shoe.  
Displaced cement with a top plug and held shut in pressure on casing head while WOC to set before backing out landing jt.  
Intermediate: Had no returns after running casing. Pumped 300 bbls mud with no returns. Commenced cement job with no returns.  
Regained returns after pumping approximately 200 bbls cement (approximately 50 bbls after cement reached shoe).  
Had good returns for the remainder of the job and circulated 40 bbls cement to surface.

Production: The 6-1/4" hole was air drilled and was filled with air when the prod csg was cmt'd. Therefore there were no returns during cmtng.

CENTRALIZERS:

Surface: ONE 10' ABOVE SHOE ON 1ST JT. ONE OVER CASING COLLAR AT TOP OF 2nd, 3rd, & 4th JTS. Total: 4  
Intermediate: Centralizers @ 3825', 3792', 3710', 3627', 3544', 3462', and 247'. Total: 7  
Turbolizers @ 2967', 2926', and 2855' Total: 3  
Production: No centralizers run on production casing Total: none