

30-039-24507

CONOCOPHILLIPS CO

Operations Summary Report

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Legal Well Name: SAN JUAN 29-6 UNIT 022M
 Common Well Name: SAN JUAN 29-6 UNIT 022M
 Event Name: COMPLETION
 Contractor Name: KEY FOUR CORNERS
 Rig Name: KEY ENERGY

Spud Date: 11/17/2003
 Start: 11/28/2003 End: 1/15/2004
 Rig Release: 1/15/2004 Group:
 Rig Number: 34

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
11/29/2003	07:00 - 07:30	0.50	CM	c	80CMPL	Held safety meeting.
	07:30 - 09:00	1.50	CM	e	80CMPL	Installed csg valves and frac valve.
	09:00 - 16:00	7.00	CM	r	80CMPL	RU Schlumberger. Pressured up on 4 1/2" csg to 1500 #. Ran CBL log from 8012' to 1900'. Top of cement @ 2170'. Tested 4 1/2" csg to 4800 # for 30 min. Held ok. Ran TDT log from 8012' to 2000'. Ran GR/CCL log from 8012' to surface. SWI. RD Schlumberger.
12/17/2003	11:00 - 11:30	0.50	CM	c	80CMPL	Held safety meeting.
	11:30 - 16:00	4.50	CM	q	80CMPL	RU Blue Jet. Perforated the Dakota. RIH w/ 3 1/8" 120 degree select fire perforating gun. Perforated from 7878' - 7890' w/ 2 spf, 7922' - 7928' w/ 2 spf, 7954' - 7966' w/ 1 spf, 7972' - 7980' w/ 1 spf. A total of 58 holes w/ 0.34 dia.
12/18/2003	07:00 - 07:30	0.50	CM	c	80CMPL	Held safety meeting
	07:30 - 16:00	8.50	CM	s	80CMPL	RU Schlumberger. Frac'd the Dakota. Tested lines to 5051 #. Set pop off @ 4335 #. Broke down formation @ 4 BPM @ 2859 #. Dropped 24 ball sealers in 1000 gals of 15% HCL acid @ 1 ball per bbl and 2 balls per bbl for the remaining 22 balls @ 15 BPM @ 2462 #. A total of 46 balls. Good ball action. Balled off @ 2780 #. RIH w/ junk basket retrieved 46 balls. Pumped pre pad @ 40 BPM @ 3214 #. SDRT 30 BPM @ 2729 #. SDRT 20 BPM @ 2414 #. SDRT 10 BPM @ 2086 #. ISIP 1850 #. 5 min 1531 #. 10 min 1366 #. 15 min 1239 #. 20 min 1136 #. 25 min 1050 #. 30 min 969 #. Frac'd the Dakota w/ Slickwater @ 1.25 g/mg FR. Screened out on .70 # sand. Pumped 50 % of total proppant. 25,000 # of 20/40 Supper LC sand in formation and 1884 bbls fluid. Avg rate 55 BPM. Avg psi 3994. Max psi 4335. Max sand cons .70 # per gal. ISIP 4250 #. Frac gradient .67. SWI.
12/19/2003	07:00 - 07:30	0.50	CM	c	80CMPL	Held safety meeting.
	07:30 - 09:30	2.00	CM	q	80CMPL	RU BLUE JET. RIH w/ 4 1/2" frac plug. Set plug @ 5900'. tested plug to 4800 #. Held ok. Perforated the Mesaverde. RIH w/ 3 1/8" 120 degree select fire perforating gun. Perforated from 5396' - 5406' w/ 1/2 spf, 5720' - 5732' w/ 1/2 spf, 5766' - 5776' w/ 1/2 spf, 5790' - 5800' w/ 1/2 spf, 5814' - 5820' w/ 1/2 spf. A total of 29 holes w/ 0.34 dia.
	09:30 - 16:00	6.50	CM	s	80CMPL	Frac the Mesaverde. Tested lines to 5096 #. Set pop off @ 4350 #. Brok down formation @ 4 BPM @ 1786 #. Dropped 24 ball sealers in 1000 gals of 15 % HCL acid @ 1 ball per bbl @ 15 BPM @ 580 #. Good ball action. balled off @ 4127 #. RIH w/ junk basket retrived 24 balls. RD Blue Jet. Pumped pre pad @ 35 BPM @ 0 #. ISIP 0 #. Frac THE MV w/ 65 Q Slick Foam w/ 1.0 g/mg FR. 100,000 # of 20/40 Brady sand. Treated the last 15% of total proppant volume with propret for proppant flowback control. 2326 bbls fluid. 2,750,700 SCF N2. Avg rate 55 BPM. Avg psi 2570. Max psi 2610. Max sand cons 1.5 # per gal. ISIP 1470 #. Frac gradient .44. Frac was designed for 170,000 # 20/40 brady sand, only pumped 100,000 # due to densiometer or software problems. Tried to extend sand until we ran out of N2. Total sand pumped was 100,000 #. Densiometer showed 210,000 # of sand was pumped, off by 51%. SWI. RD Schlumberger.
1/8/2004	07:30 - 08:00	0.50	MV	c	90WOVR	JSA, START RIG,
	08:00 - 08:30	0.50	MV	t	90WOVR	ROAD RIG TO NEXT LOCATION.
	08:30 - 12:20	3.83	MV	1	90WOVR	JSA, SICP 460#, 0 LEL, SPOT IN RIG AN EQUIPMENT.SWAP OUT BOP,
	12:20 - 13:00	0.67	MV	6	90WOVR	RU RIG AN EQUIPMENT, MECHICS OUT TO CHANGE OUT RASING RAM ON RIG.
	13:00 - 14:00	1.00	MV	6	90WOVR	RU FLOWLINES TO PIT, TEST LINES 1000#, NO LEAKS, RU AIR UNIT, START FLOW BACK TO PIT , START UN 1/2" CHOKES,

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Contractor Name: KEY FOUR CORNERS

Rig Name: KEY ENERGY

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Start: 11/28/2003

End: 1/15/2004

Rig Release: 1/15/2004

Group:

Rig Number: 34

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
1/8/2004	14:00 - 17:30	3.50	WS	g	90WOVR	WELL FLOWING TO PIT ON 1/2" CHOKE ON TWO LINES, 360#, STABLE, PULL OUT CHOKES , FULL TWO INCH, AT END OF DAY STILL HAD 160#. SHUT IN WELL , SECURE SDFN
1/9/2004	07:00 - 13:00	6.00	CM	g	90WOVR	SAFETY MEETING PRIOR TO STARTING OPERATIONS- SICP 460 PSIG-BLEED WELL DOWN TO PIT ON 1/2" TO 2- FULLY OPEN 2" LINES- FCP @ 80 PSIG = 2.8MMSCFD WET- PERFORM RIG MAINTANENCE WHILE FLOWING WELL DOWN. SHUT WELL IN PERIODICALLY DUE TO THE RELATION OF THE ACCESS ROAD AND BLOW PIT W/ HANGING GAS. WELL STARTING MAKING NATURAL GAS @ 09:30. PERFORM RIG INSPECTION W/ COPC REPRESENTATIVE.
	13:00 - 13:30	0.50	CM	z	90WOVR	MAKE UP 2-3/8" X 1.81" BAKER "F" NIPPLE W/ PUMP THRU BOTTOM BLANKING PLUG- PT BP IN F NIPPLE T/ 1800 PSIG (OK).
	13:30 - 15:45	2.25	WC	e	90WOVR	ND TOP 7-1/16" X 5M GATE VALVE- NU 7-1/16" B-1 ADAPTER- PT WOOD GROUP LUBRICATOR T/ 390 PSIG (OK)- LUBRICATE IN & LOCK DOWN IN TBG HEAD 2-3/8" X 7-1/16" TBG HGR W/ 2-WAY BPV- ND BOTTOM 7-1/16" X 5M GATE VALVE & NU BOPE.
	15:45 - 16:45	1.00	WC	8	90WOVR	PT BLIND RAMS T/ 300 PSIG-3MIN & 3000 PSIG-10 MIN (OK)- STAB 2-3/8" JOINT OF TBG IN TBG HGR W/ TIW VALVE- PT 2-3/8" PIPE RAMS T/ 300 PSIG-3MIN & 1500 PSIG-10 MIN (OK)- REPLACE CRACKED HAMMER UNION AND STOCK ON AIR LINE- PT AIR LINES IN STAGES F/ 400-700-1000-1400 PSIG (OK).
	16:45 - 17:30	0.75	CM	6	90WOVR	RU RIG FLOOR AUXILARY EQUIPMENT- BLOW DOWN WATER LINES W/ AIR.
1/12/2004	17:30 - 18:00	0.50	CM	z	90WOVR	SDON.
	07:30 - 08:00	0.50	WS	c	90WOVR	JSA, SICP 460#, START RIG,
	08:00 - 09:30	1.50	WS		90WOVR	BLOW DOWN WELL, KILL WELL WITH 30 BBLS OF 2% KCL,
	09:30 - 12:00	2.50	WS	4	90WOVR	RIH WITH MULE SHOE, F- NIPPLE, (F-PLUG IN NIPPLE) AN TBG , TAG FILL AT 5836', PU TBG , LAY DOWN 8 JOINTS. END OF TBG AT 5625' (KB)
	12:00 - 13:30	1.50	WS	6	90WOVR	RU WIRELINE, RIH WITH RETRIEVING TOOL, TAG UP PLUG, LATCH ON POOH WITH PLUG. RD WIRELINE.
	13:30 - 14:00	0.50	WS	6	90WOVR	RU FLOW LINE ON 1/2" CHOKE TO PIT, START FLOW TEST.
	14:00 - 16:00	2.00	WS	g	90WOVR	TBG PRESS AT 290#, CSG PRESS AT 390# AT 3:00 PM, TBG PRESS AT 230# , CSG PRESS AT 390# AT 6:00 PM., TURN OVER TO DRY WATCH, FLOWED WELL TILL 12:00 NOON 1-10-2004. WELL STABILIZED FRON 10:00 PM AT 250# ON TBG AN 370# ON CSG, . TEST FOR MV IS; EOT AT 5625' , TEST ON 1/2" CHOKE, 0 BBLS. OIL, 0 BBLS. WATER, FLOW RATE AT 1556 MCF. FLOWING TBG. PRESS 250# , FLOWING CSG. PRESS. 370# DATE OF TEST 1-10-2004, WITNESS BY J. VALDEZ, COPC, GILBERT BENNETT , KEY ENERGY. SHUT WELL IN.
1/13/2004	07:30 - 08:00	0.50	WS	c	90WOVR	JSA, SICP 460#, STRAT RIG.
	08:00 - 09:00	1.00	WS	g	90WOVR	SITP 460# SICP 460#, BLOW WELL DOWN WAIT ON WIRELINE.
	09:00 - 10:00	1.00	WS	6	90WOVR	RU WIRELINE, RIH WITH F-PLUG, SET PLUG, IN F-NIPPLE AT 5625', POOH WITH SETTING TOOL, RD WIRELINE, BLOW DOWN TBG
	10:00 - 11:40	1.67	WS	4	90WOVR	POOH WITH 179 JOINTS OF TBG WITH F-NIPPLE AN PLUG.
	11:40 - 13:15	1.58	WS	4	90WOVR	RIH WITH MILL FOR 4.5" TBG, BIT SUB AN TBG , TAG FILL AT 5820'.

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1/13/2004	11:40 - 13:15	1.58	WS	4	90WOVR	
	13:15 - 13:30	0.25	WS	6	90WOVR	RU POWER SWIVEL / RU AIR.
	13:30 - 14:00	0.50	WS	5	90WOVR	EST RATE , AT 750#
	14:00 - 16:30	2.50	WS	d	90WOVR	C/O TO 5900' TAG PLUG.
	16:30 - 16:45	0.25	WS	h	90WOVR	MILL OUT COMPOSITE PLUG AT 5900'
	16:45 - 18:00	1.25	WS	g	90WOVR	NO PRESS BELOW PLUG, UNLOAD WELL, BRING BACK LOTS OF WATER, SECURE WELL DRAIN UP, SDFN
1/14/2004	07:30 - 08:00	0.50	WS	c	90WOVR	JSA, SICP 460#, START RIG, START UP AIR.
	08:00 - 08:10	0.17	WS	g	90WOVR	BLOW DOWN WELL, RIH WITH TBG TAG FILL AT 5942' 192 JOINTS, RU POWER SWIVEL.
	08:10 - 08:50	0.67	WS	z	90WOVR	WAIT ON AIR, MIST PUMP FROZEN, UN THAW START UP, WARM UP.
	08:50 - 11:11	2.35	WS	h	90WOVR	RU AIR , EST RATE , C/O TO 6081', (C/O 196' OF SAND,) FELL THUR, RETURNS SHOW FRAC SAND. SHUT DOWN AIR,
	11:11 - 12:10	0.98	WS	4	90WOVR	WELL STARTED MAKING GAS, RD POWER SWIVEL, RIH WITH TBG TAG UP ON 255 JOINTS IN AT 7900', WELL MAKING FRAC FLUIDS WITH SOME SAND.
	12:10 - 13:40	1.50	WS	d	90WOVR	RU CHICHSEN , RU AIR C/O TO PBTD AT 8052', WELL MAKING FLUIDS WITH SOME SAND.
	13:40 - 14:40	1.00	WS	g	90WOVR	CUT OFF FOAM, USING AIR TO HELP WELL FLOW, SEE IF WE CAN DRY UP FLUIDS.
	14:40 - 15:00	0.33	WS	z	90WOVR	SHUT DOWN AIR, WELL FLOWING GOOD GAS , WITH SOME FLUIDS AN SAND.
	15:00 - 17:30	2.50	WS	g	90WOVR	FLOWED WELL , GOOD GAS , MAKING SOME FLUIDS AN SOME SAND, WILL DRY WATCH TO NIGHT .
	07:30 - 08:00	0.50	WS	c	90WOVR	JSA, FLOW BACK WELL ALL PM,
1/15/2004	08:00 - 08:20	0.33	WS	4	90WOVR	RIH WITH FIVE JOINTS OF TBG , TAG UP AT PBTD, 8052', NO NEW FILL.
	08:20 - 10:30	2.17	WS	4	90WOVR	POOH AN LAY DOWN FIVE JOINTS OF TBG, POOH AN STAND BACK 127 STANDS OF TBG , LAY DOWN MILL.
	10:30 - 12:00	1.50	WS	4	90WOVR	RIH WITH PACKER WITH VALVE, AN 250 JOINTS OF TBG., SET PACKER AT 7783'.
	12:00 - 12:45	0.75	WS	6	90WOVR	RU FLOW BACK LINE TO PIT ON 1/2" CHOKE, OPEN UP VALVE ON PACKER , START VFLOWING WELL, 15 MIN, SI, PRESS WAS 650#
	12:45 - 13:45	1.00	WS	z	90WOVR	STRAT FLOW TEST DK, TBG PRESS AT 100#, SI CSG PRESS 350#
	13:45 - 17:30	3.75	WS	z	90WOVR	FLOW TEST WELL, CHANGE OUT 1/2" CHOKE NIPPLE WITH ANOTHER ONE, TBG PRESS AT 150# FLOW RATE AT 934 MCF, SI CP 460# WILL FLOW TEST PM .
1/16/2004	07:30 - 08:00	0.50	WS	c	90WOVR	JSA, FLOW TEST DK FOR 18 HOURS (FROM 2:00 PM -8:00AM), RESULTS OF TEST AS FOLLOWED; SICP 460#, FLOWING TUBING PRESS. 130#, 0 BBLS WATER, 0 BBLS OIL, FLOW RATE 809 MCF., TESTED THUR 1/2" CHOKE NIPPLE, (4 HOURS STABLE TEST) PACKER SET AT 7783'. WITNESS BY J. VALDEZ, COPC, G. BENNETT , KEY ENERGY
	08:00 - 08:44	0.73	WS	g	90WOVR	BLOW WELL DOWN
	08:44 - 09:10	0.43	WS	2	90WOVR	RELEASE PACKER, SHUT VALVE IN PACKER, BLOW DOWN TBG.
	09:10 - 10:50	1.67	WS	4	90WOVR	POOH WITH 125 STANDS OF TBG, AN PACKER, PUMP 20 BBLS OF KCL BEFORE P/O PACKER. LAY DOWN.
	10:50 - 12:25	1.58	WS	4	90WOVR	RIH WITH MULE SHOE, F-NIPPLE(1.81") (F-PLUG IN NIPPLE) AN 254 JOINTS OF 2 3/8 " TBG, DRIFT IN.
	12:25 - 13:00	0.58	WS	e	90WOVR	KILL WELL 20 BBLS OF KCL, PU AN RIH WITH TBG HANGER, LAND WELL, SCREW IN LOCK DOWNS, E.O.T. AT 7902'.

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Contractor Name: KEY FOUR CORNERS

Rig Name: KEY ENERGY

Start: 11/28/2003

Rig Release: 1/15/2004

Rig Number: 34

Spud Date: 11/17/2003

End: 1/15/2004

Group:

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1/16/2004	13:00 - 13:30	0.50	WS	6	90WOVR	RD FLOOR, RDBOP, RUWH, RU FLOW BACK LINE
	13:30 - 14:45	1.25	WS	9	90WOVR	RU AIR, TEST TBG AN WH TO 1000# HELD OKAY, RU WIRELINE, RIH WITH 1.9" GAUGE RING, TO 7902', TAG F-NIPPLE. POOH, RIH WITH PIERCING SPEAR, TAG PLUG 7902', PIERCE DISC. IN PLUG, EQUILIZE WELL. POOH, RIH WITH OVERSHOT TAG AN LATCH PLUG AT 7902', POOH, RD WIRELINE, RELEASE. RU TBG TO FLOW BACK LINE, OPEN TO PIT. WELL FLOWING UP TBG, SI CSG.
	14:45 - 17:00	2.25	MV	6	90WOVR	RIG DOWN EQUIPMENT AN RIG, SHUT IN WELL, READY TO MOVE.