

ConocoPhillips

END OF WELL SCHEMATIC

Well Name: San Juan 31 Fed 3 # 1A

API #: 30-045-32419

Location: 660' FSL & 660' FEL

Sec. 3 - T31N - R9W

San Juan County, NM

Elevation: 6549 GL (above MSL)

Drl Rig RKB: 13' above Ground Level

Datum: Drl Rig RKB = 13' above GL

Spud: 27-Aug-04

Release Drl Rig: 1-Sep-04

Move In Cav Rig: 21-Sep-04

Release Cav Rig: 30-Sep-04

Note - this well is equipped with rods & pump

7-1/16" 3M x 2-3/8" EUE 8rd Bonnet

11" 3M x 7-1/16" 3M Tubing Head

9-5/8" 8 RD x 11" 3M Casing Head

Surface Casing

Date set: 27-Aug-04

Size 9 5/8 in
Set at 230 ft # Jnts: 5
Wt. 32.3 ppf Grade H-40
Hole Size 13 1/2 in Conn STC
Excess Cmt 125 %
T.O.C. SURFACE

Csg Shoe 230 ft

TD of 13-1/2" hole 240 ft

Notified BLM @ 19:00 hrs on 25-Aug-04

Notified NMOCD @ 19:03 hrs on 25-Aug-04

Intermediate Casing

Date set: 31-Aug-04

Size 7 in 73 jts
Set at 3118 ft 0 pups
Wt. 20 ppf Grade J-55
Hole Size 8 3/4 in Conn STC
Excess Cmt 160 % Top of Float Collar 3075 ft
T.O.C. SURFACE Bottom of Casing Shoe 3118 ft
Pup @ ft TD of 8-3/4" Hole 3125 ft
Pup @ ft

Notified BLM @ 05:50 hrs on 29-Aug-04

Notified NMOCD @ 05:52 hrs on 29-Aug-04

Production Liner

Date set: 29-Sep-04

Size 5 1/2 in
Nominal Wt. 15.5 ppf
Grade J-55 Connections: LTC
Jnts: 9
Hole Size 6.25 / 9.5 inches
Underreamed 6-1/4" hole to 9.5" from 3120' to 3490'
Top of Liner 3080 ft
PBSD 3488 ft
Bottom of Liner 3490 ft

☒ New
☐ Used

☒ New
☐ Used

☒ New
☐ Used

Surface Cement

Date cmt'd: 27-Aug-04

Lead: 250 sx Class G Cement

+ 2% BWOC S001 CaCl2

+ 0.25 lb/sx D130 Cellophane Flakes

1.16 cuft/sx, 290.0 cuft slurry at 15.8 ppg

Displacement: 15.1 bbls fresh wtr

Bumped Plug at: 15:12 hrs w/ 280 psi

Final Circ Press: 55 psi @ 0.6 bpm

Returns during job: YES

CMT Returns to surface: 22 bbls

Floats Held: No floats used

W.O.C. for 6.00 hrs (plug bump to start NU BOP)

W.O.C. for 11.75 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 31-Aug-04

Lead: 455 sx Class G Cement

+ 3% D079 Extender

+ 0.25 lb/sx D029 Cellophane Flakes

+ 0.2% D046 Antifoam

+ 0.05 gal/sx D047 Antifoam

2.61cuft/sx, 1187.6 cuft slurry at 11.7 ppg

Tail: 100 sx 50/50 POZ: Class G cement

+ 2% D020 Bentonite

+ 2% S001 Calcium Chloride

+ 5 lb/sx D024 Gilsomite

+ 0.25 lb/sx D029 Cellophane Flakes

+ 0.1% D046 Antifoam

1.27 cuft/sx, 127 cuft slurry at 13.5 ppg

Displacement: 124.5 bbls

Bumped Plug at: 22:37 hrs w/ 1520 psi

Final Circ Press: 620 psi @ 1.8 bpm

Returns during job: YES

CMT Returns to surface: 40 bbls

Floats Held: ☒ Yes ☐ No

UNCEMENTED LINER

TD 3,490 ft

Schematic prepared by:

Steven O. Moore, Drilling Engineer

6-Oct-2004

COMMENTS:

9-5/8" Surf:	No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe @ 187'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt.	
	CENTRALIZERS @ 220', 145', 101', 59'.	Total: 4
7" Intermediate	DISPLACED W/ 20 BBLs. FRESH WATER AND 104.5 BBLs 9.0 PPG DRILLING MUD.	
	CENTRALIZERS @ 3108', 3032', 2945', 2859', 2774', 2688', 211', 82', 39'.	Total: 9
	TURBOLIZERS @ 2089', 2046', 2003', 1960'.	Total: 4
5.5" Liner	Ran 6-1/4" bit & bit sub w/ float on btm of liner. Ran liner w/ TIW H-Latch Drop Off Tool (no liner hanger).	
Perforations	Perforated 5-1/2" liner with guns on E-line at 4 spf, 0.75" diameter, 120 degree phased holes Perf. Intervals: 3122'-3126', 3174'-3185', 3188'-3192', 3198'-3202', 3218'-3230', 3238'-3250', 3252'-3258', 3280'-3294', 3298'-3302', 3374'-3378', 3382'-3384', 3390'-3393', 3395'-3398'. TOTAL SHOTS = 332.	
Tubing	2-7/8" EUE 8rd box Orange Peeled Mud Anchor (approx 30' long) with eight each 0.25" x 8" slots just below the upset, 2-7/8" x 2-3/8" EUE 8rd crossover collar, 2-3/8" OD (1.78" ID) F-Nipple, 108 jts 2-3/8" 4.7# J-55 EUE 8rd tubing. Bottom of Mud Anchor at 3458'. F-Nipple at 3427' MD RKB.	
Pump & Rods	12" long strainer attached below insert pump with 3 ea 25' x 1.25" OD sinker bars on top of pump 133 ea 3/4" OD rods, spaced out with 8' - 6' - 2' x 3/4" OD pony rods & 1 ea 1-1/4" OD x 22' polished rod Set pump in F-Nipple at 3427' MD RKB	

This well was NOT cavitated.

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Operations Summary Report

Legal Well Name: SAN JUAN 31 FED 03 1A
 Common Well Name: SAN JUAN 31 FED 03 1A
 Event Name: COMPLETION
 Contractor Name: KEY ENERGY SVCS
 Rig Name: KEY

Start: 8/31/2004
 Rig Release: 8/31/2004
 Rig Number: 49

Spud Date: 8/27/2004
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/22/2004	07:00 - 07:30	0.50	MOVE	SFTY	DEMOB	CHECK OUT ROAD CONDITIONS.SAFETY MEETING.
	07:30 - 10:00	2.50	MOVE	MOB	DEMOB	WAIT ON TRUCKS, MOVE RIG .
	10:00 - 12:00	2.00	MOVE	MOB	DEMOB	LOAD UP EQUIPMENT. START MOVING
	12:00 - 13:00	1.00	MOVE	MOB	DEMOB	MOVING RIG, RIG BROKE DOWN.
	13:00 - 19:00	6.00	MOVE	MOB	DEMOB	MOVE EQUIPMENT TO NEW LOCATION.
9/23/2004	07:00 - 07:30	0.50	MOVE	SFTY	MIRU	SAFETY MEETING.
	07:30 - 10:00	2.50	MOVE	MOB	MIRU	RIG REPAIR.
	10:00 - 12:00	2.00	MOVE	MOB	MIRU	MOVE RIG TO LOCATION.
	12:00 - 13:00	1.00	MOVE	RURD	MIRU	SPOT RIG ON RAMP, RIG UP.
	13:00 - 19:00	6.00	MOVE	RURD	MIRU	RIG UP EQUIPMENT WHILE MECHANIC WORKED ON RIG .
9/24/2004	07:00 - 07:30	0.50	WELLPR	SFTY	COMPZN	SAFETY MEETING.
	07:30 - 15:00	7.50	WELLPR	RURD	COMPZN	FINISH RIGGING UP, PULL DCS & DP OUT OF BASKET, TALLY PIPE.
	15:00 - 16:00	1.00	WELLPR	PRTS	COMPZN	PRESSURE TEST CASING, 300 PSI FOR 10 MIN. & 1800 PSI FOR 30 MIN. HELD.
9/25/2004	16:00 - 17:00	1.00	RPEQPT	PULD	COMPZN	MAKE UP 6 1/4" BIT ON DC. START IN HOLE.
	17:00 - 19:00	2.00	RIGMNT	RGRP	COMPZN	RIG ENGINE BROKE DOWN, SHUT DOWN WAITING ON PARTS.
	07:00 - 07:30	0.50	RIGMNT	SFTY	COMPZN	SAFETY MEETING, WAIT ON MECH.
	07:30 - 09:00	1.50	RIGMNT	RGRP	COMPZN	WORK ON RIG ENGINE.
	09:00 - 13:00	4.00	RPEQPT	PULD	COMPZN	PICK UP & GO IN HOLE WITH DCS & DP TO 3000'.
	13:00 - 14:30	1.50	TREBOP	BOPE	COMPZN	TEST BOPS AS PER REQUIREMENTS, HELD.
	14:30 - 19:00	4.50	DRILL	DRLG	COMPZN	RIG UP SWIVEL, DRILL OUT CMT, FLOAT COLLAR & SHOE, DRILLING OUT OPEN HOLE.
	19:00 - 19:30	0.50	DRILL	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING.
	19:30 - 01:00	5.50	DRILL	DRLG	COMPZN	DRILL OUT OPEN HOLE WITH 1500 CFM AIR/MIST, 6 BPH WATER, 1 GAL FOAMER, 1/4 GAL INHIBITOR PER 10 BBLS, CIRCULATING PRESSURE 450 PSI.
	01:00 - 02:30	1.50	DRILL	CIRC	COMPZN	CIRCULATE HOLE CLEAN, CUT OFF WATER, DRY UP HOLE.
9/26/2004	02:30 - 03:00	0.50	RPEQPT	PULD	COMPZN	PULL BIT INTO 7" FOR FLOW TEST.
	03:00 - 04:00	1.00	FLOWT	PRDT	COMPZN	FLOW TEST, 15/MIN-56 PSI-14 PETO= 2326 MCF, 30/MIN-52 PSI-13 PETO=2237 MCF, 45/MIN-46 PSI-11.5 PETO=2085 MCF, 60/MIN-46 PSI-11.5 PETO=2085 MCF,
	04:00 - 05:30	1.50	EVALFM	SIPB	COMPZN	SI FOR BUILD UP. ISIP=70 PSI, 15/MIN=330 PSI, 30/MIN=500 PSI, 45/MIN=530 PSI, 60/MIN=530 PSI, BLEED OFF PRESSURE TO 500 PSI, OPEN HCRS, SURGE OFF PRESSURE.
	05:30 - 06:00	0.50	RPEQPT	PULD	COMPZN	RIG DOWN SWIVEL, START OUT OF HOLE.
	06:00 - 07:00	1.00	RPEQPT	TRIP	COMPZN	POOH .
	07:00 - 07:30	0.50	RPEQPT	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING.
	07:30 - 09:00	1.50	RPEQPT	TRIP	COMPZN	FINISH POOH, CHANGE OVER FOR UNDER REAMER.
	09:00 - 12:00	3.00	RPEQPT	TRIP	COMPZN	MAKE UP UNDER REAMER GO IN HOLE TO 7" SHOE, RIG UP SWIVEL.
	12:00 - 14:30	2.50	RIGMNT	RGRP	COMPZN	WORK ON RIG ENGINE.
	14:30 - 19:00	4.50	DRILL	DRLG	COMPZN	START UNDER REAMINGOPEN HOLE FROM 3120'
	19:00 - 19:30	0.50	DRILL	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING.
	19:30 - 00:00	4.50	DRILL	DRLG	COMPZN	UNDER REAM OPEN HOLE TO 3490' WITH 1500 CFM AIR/MIST, 6 TO 8 BPH WATER, 1 GAL FOAMER, 1/4 GAL INHIBITOR PER 10 BBLS, CIRCULATING PRESSURE 600 PSI.
	00:00 - 01:30	1.50	DRILL	CIRC	COMPZN	CIRCULATE HOLE CLEAN, DRY UP HOLE.
	01:30 - 02:00	0.50	RPEQPT	PULD	COMPZN	PULL INTO 7"
	02:00 - 03:00	1.00	FLOWT	PRDT	COMPZN	FLOW TEST, 15/MIN-44 PSI-11 PETO=2039 MCF, 30/MIN-44 PSI-11 PETO=2039 MCF, 45/MIN-44 PSI-11 PETO=2039 MCF, 60/MIN-44 PSI-11 PETO=2039 MCF,
	03:00 - 06:00	3.00	RPEQPT	TRIP	COMPZN	POOH , LAY DOWN UNDER REAMER.

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Operations Summary Report

Legal Well Name: SAN JUAN 31 FED 03 1A
 Common Well Name: SAN JUAN 31 FED 03 1A
 Event Name: COMPLETION
 Contractor Name: KEY ENERGY SVCS
 Rig Name: KEY

Start: 8/31/2004
 Rig Release: 8/31/2004
 Rig Number: 49

Spud Date: 8/27/2004
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/27/2004	06:00 - 07:00	1.00	RPEQPT	TRIP	COMPZN	TIH WITH BIT TO BOTTOM OF 7"
	07:00 - 08:30	1.50	RPEQPT	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING. SHUT IN FOR BUILD UP, ISIP=70 PSI, 15/MIN=210 PSI, 30/MIN=210 PSI, 45/MIN=220 PSI, 60/MIN=230 PSI, RELEASE PRESSURE SA NATURAL SURGE.
	08:30 - 09:00	0.50	RPEQPT	CIRC	COMPZN	TIH IN FROM SHOE, TAG BRIDG AT 3400' WORKED THROUGH BIIDG, TAG FILL AT 3470'
	09:00 - 10:30	1.50	RPEQPT	CIRC	COMPZN	CIRCULATE HOLE WITH AIR/MIST, UNLOAD APPROX. 20 BBLS WATER, DRY UP HOLE.
	10:30 - 13:00	2.50	RPEQPT	STIM	COMPZN	PULL BIT INTO 7", SHUT IN FOR BUILD UP, 15/MIN=185 PSI, 30/MIN=185 PSI, 45/MIN=185 PSI, 60/MIN=185 PSI, 75/MIN=185 PSI, 90/MIN=190 PSI, 105/MIN=200 PSI, 120/MIN=225 PSI. OPEN WELL, SURGE, RETURNS, UNLOADED APPROX 5 TO 6 BBLS WATER WITH COAL FINES.
	13:00 - 15:30	2.50	STIMOP	STIM	COMPZN	SHUT IN FOR BUILD UP, 15/MIN=280 PSI, 30/MIN=305 PSI, 45/MIN=315 PSI, 60/MIN=320 PSI, 75/MIN=330 PSI, 90/MIN=335 PSI, 105/MIN=340 PSI, 120/MIN=345 PSI, OPEN WELL, SURGE, UNLOADED APPROX. 6 BBLS WATER WITH COAL FINES.
	15:30 - 18:00	2.50	STIMOP	STIM	COMPZN	SHUT IN FOR BUILD UP, 15/MIN=250 PSI, 30/MIN=350 PSI, 45/MIN=355 PSI, 60/MIN=350 PSI, 75/MIN=355 PSI, 90/MIN=355 PSI, 105/MIN=360 PSI, 120/MIN=370 PSI, OPEN WELL, SURGE, UNLOADED APPROX. 6 BBLS WATER WITH COAL FINES.
	18:00 - 19:30	1.50	STIMOP	STIM	COMPZN	SHUT IN FOR BUILD UP, 15/MIN=215 PSI, 30/MIN=360 PSI, 45/MIN=360 PSI, 60/MIN=360, OPEN WELL, SURGE, UNLOADED APPROX. 6 BBLS WATER WITH COAL FINES.
	19:30 - 21:00	1.50	STIMOP	STIM	COMPZN	SHUT IN FOR BUILD UP, 15/MIN=240 PSI, 30/MIN=340 PSI, 45/MIN=340 PSI, 60/MIN=340, OPEN WELL, SURGE, UNLOADED APPROX. 6 BBLS WATER WITH COAL FINES.
	21:00 - 00:00	3.00	RPEQPT	PULD	COMPZN	TIH FROM SHOE, TAG FILL AT 3446', CIRCULATE, UNLOAD APPROX 10 BBLS WATER, WELL MAKING LIGHT COAL. DRY UP HOLE.
	00:00 - 00:30	0.50	RPEQPT	PULD	COMPZN	PULL INTO 7" FOR FLOW TEST.
	00:30 - 01:30	1.00	FLOWT	RURD	COMPZN	FLOW TEST, 15/MIN=36 PSI-9 PETO=1865 MCF, 30/MIN=36 PSI-9 PETO=1865 MCF, 45/MIN=36 PSI-9 PETO=1865 MCF, 60/MIN=36 PSI-9 PETO=1865 MCF
	01:30 - 03:00	1.50	EVALFM	SIPB	COMPZN	SHUT IN FOR PRESSURE BUILD UP, ISIP=50 PSI, 15/MIN=260 PSI, 30/MIN=310 PSI, 45/MIN=310 PSI, 60/MIN=310 PSI, RELEASE PRESSURE THROUGH NATURAL SURGE, WELL UNLOADED APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	03:00 - 04:30	1.50	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=260 PSI, 30/MIN=320 PSI, 45/MIN=320 PSI, 60/MIN=340 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	04:30 - 06:00	1.50	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=260 PSI, 30/MIN=320 PSI, 45/MIN=340 PSI, 60/MIN=360 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
9/28/2004	06:00 - 07:00	1.00	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=260 PSI, 30/MIN=320 PSI, 45/MIN=340 PSI, 60/MIN=360 PSI,
	07:00 - 07:30	0.50	STIMOP	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING. OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	07:30 - 09:00	1.50	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=260 PSI, 30/MIN=320 PSI, 45/MIN=340 PSI, 60/MIN=360 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	09:00 - 13:00	4.00	RPEQPT	PULD	COMPZN	TIH FROM 7", TAG FILL AT 3417'. BLOW WELL AROUND WITH 1500 CFM AIR/MIST, UNLOAD APPROX. 20 BBLS WATER WITH COAL

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Operations Summary Report

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Legal Well Name: SAN JUAN 31 FED 03 1A
 Common Well Name: SAN JUAN 31 FED 03 1A
 Event Name: COMPLETION
 Contractor Name: KEY ENERGY SVCS
 Rig Name: KEY

Start: 8/31/2004
 Rig Release: 8/31/2004
 Rig Number: 49

Spud Date: 8/27/2004
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/28/2004	09:00 - 13:00	4.00	RPEQPT	PULD	COMPZN	FINES FROM GRANULAR IN SIZE TO 1 1/4"CHIPS ,RETURNS MAKING 4 BKTS COAL FOR 20 MIN. SLOWED DOWN TO 1/2 BKT PER HR, 100% COAL.
	13:00 - 14:30	1.50	DRILL	CIRC	COMPZN	DRY UP HOLE, PULL INTO 7"
	14:30 - 16:00	1.50	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=200 PSI, 30/MIN=210 PSI, 45/MIN=210 PSI, 60/MIN=210 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	16:00 - 17:30	1.50	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=210 PSI, 30/MIN=270 PSI, 45/MIN=270 PSI, 60/MIN=270 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	17:30 - 19:00	1.50	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=200 PSI, 30/MIN=270 PSI, 45/MIN=300 PSI, 60/MIN=300 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	19:00 - 19:30	0.50	STIMOP	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING.
	19:30 - 20:30	1.00	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=240 PSI, 30/MIN=270 PSI, 45/MIN=290 PSI, 60/MIN=290 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	20:30 - 22:00	1.50	STIMOP	STIM	COMPZN	SHUT IN WELL FOR BUILD UP, 15/MIN=245 PSI, 30/MIN=280 PSI, 45/MIN=285 PSI, 60/MIN=290 PSI, OPEN UP WELL, SURGE, RETURNS APPROX. 5 BBLS WATER WITH LIGHT COAL FINES.
	22:00 - 22:30	0.50	RPEQPT	PULD	COMPZN	TIH TAG FILL AT 3400'.
	22:30 - 03:00	4.50	DRILL	CIRC	COMPZN	BLOW WELL AROUND WITH 1500 CFM AIR/MIST, UNLOAD APPROX 20 BBLS WATER, RETURNS 4 BKTS DOWN TO 1 BKT PER HR OF 100 % COAL GRANULAR TO 1 1/4"CHIPS.
	03:00 - 04:00	1.00	DRILL	CIRC	COMPZN	DRY UP HOLE.
	04:00 - 06:00	2.00	RPEQPT	PULD	COMPZN	PULL BIT INTO 7", LET WELL FLOW NATURAL, WELL STARTED FLOWING WATER OUT BLOOIE LINE, APPROX 2 BPH.
9/29/2004	06:00 - 07:00	1.00	EVALFM	OWFF	COMPZN	WELL FLOWING NATURAL, MAKING APPROX 2 BPH WATER WATER OUT BLOOIE LINE.
	07:00 - 08:00	1.00	EVALFM	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING. CONTINUE FLOWING WELL NATURAL.
	08:00 - 08:30	0.50	RPEQPT	PULD	COMPZN	TIH FROM SHOE, TAG FILL AT 3380'
	08:30 - 19:00	10.50	RPEQPT	CIRC	COMPZN	CLEAN OUT FROM 3380' TO 3490, WITH 1500 CFM AIR/MIST, 6 BPH WATER, 1 1/2 GAL FOAMER, 1/4 GAL INHIBITOR & 1 GAL POLYMER PER 10 BBLS, RETURNS 98% COAL 2% SHALE, GRANULAR TO 1 1/4" CHIPS, MAKING 4 BKTS DOWN TO 1 BKT PER HR.
	19:00 - 19:30	0.50	RPEQPT	CIRC	COMPZN	CREW CHANGE, SAFETY MEETING.
	19:30 - 21:00	1.50	RPEQPT	CIRC	COMPZN	CLEAN OUT AT 3490, WITH 1500 CFM AIR/MIST, 6 BPH WATER, 1 1/2 GAL FOAMER, 1/4 GAL INHIBITOR & 1 GAL POLYMER PER 10 BBLS, RETURNS 98% COAL 2% SHALE, GRANULAR TO 1 1/4" CHIPS, MAKING 1 BKT PER HR.
	21:00 - 05:00	8.00	RPEQPT	PULD	COMPZN	PULL BIT INTO 7", WAIT 1HR, TIH, NO FILL, CIRCULATE HOLE, MAKE SURE HOLE IS CLEAN, RIG DOWN SWIVEL, POOH.
9/30/2004	05:00 - 06:00	1.00	RPEQPT	PULD	COMPZN	CHANGE OVER TO RUN LINER MAKE UP LINER HANGER ON 1 ST JT OF DP, LAY ON CAT WALK
	06:00 - 07:00	1.00	RPEQPT	PULD	COMPZN	PICK UP 1 ST RT OF 5 1/2" CASING, MAKE UP DOUBLE BOX FLOAT COLLAR & 6 1/4"BIT ON BOTTOM OF JT.
	07:00 - 07:30	0.50	RPEQPT	SFTY	COMPZN	CREW CHANGE, SAFETY MEETING.
	07:30 - 09:00	1.50	RPEQPT	PULD	COMPZN	PICK UP & RUN IN HOLE TOTAL OF 7 JTS OF 5 1/2" 15.50 LT&C CASING & H-LATCH LINER HANGER.
	09:00 - 11:00	2.00	RPEQPT	PULD	COMPZN	CHANGE OVER TO DP, RUN IN HOLE TO 3118', RIG UP SWIVEL.
	11:00 - 12:00	1.00	RPEQPT	PULD	COMPZN	PICK UP DP WITH SWIVEL GO IN HOLE, TAG BOTTOM, SET LINER AT 3490', LINER TOP AT 3080' WITH 38' OVER LAP, RELEASE

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Operations Summary Report

Legal Well Name: SAN JUAN 31 FED 03 1A
 Common Well Name: SAN JUAN 31 FED 03 1A
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 Rig Name: KEY

Start: 8/31/2004
 Rig Release: 8/31/2004
 Rig Number: 49

Spud Date: 8/27/2004
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/30/2004	11:00 - 12:00	1.00	RPEQPT	PULD	COMPZN	H-LATCH HANGER.
	12:00 - 14:00	2.00	RPEQPT	PULD	COMPZN	POOH LAYING DOWN DP & DCS.
	14:00 - 15:00	1.00	PERFOP	PERF	COMPZN	RIG UP BLUE JET, CONDUCT SAFETY MEETING.
	15:00 - 18:00	3.00	PERFOP	PERF	COMPZN	PERFORATE WELL WITH A TOTAL OF 332 SHOTS AT 4 SHOTS PER FT. PERFS AS FOLLOWS, 3395'-3398', 3390'-3393', 3382'-3384', 3374'-3378', 3298'-3302', 3280'-3294', 3252'-3258', 3238'-3250', 3218'-3230', 3198'-3202', 3188'-3192', 3174'-3185', 3122'-3126'.
10/1/2004	18:00 - 19:00	1.00	PERFOP	PERF	COMPZN	RIG DOWN BLUE JET, SHUT IN SECURE WELL FOR NIGHT.
	07:00 - 07:30	0.50	RPCOMPS	SFTY	COMPZN	SAFETY MEETING, CHECK PRESSURE, 180 PSI, BLEED OFF.
	07:30 - 08:30	1.00	RPCOMPP	PULD	COMPZN	CHANGE OVER FOR 2 3/8" TBG, TEST PIPE RAMS AS PER REQUIREMENTS.
	08:30 - 11:30	3.00	RPCOMPP	PULD	COMPZN	PICK UP & RUN IN HOLE WITH 1 2 7/8" MUD ANCHOR, 2 3/8" X 1.78 F-NIPPLE & 108 JTS OF 2 3/8" EUE TBG.
	11:30 - 13:00	1.50	RPCOMPP	PULD	COMPZN	LAND TBG AT 3458', WITH F-NIPPLE AT 3427', NIPPLE DOWN BOPS, NIPPLE UP WELL HEAD.
	13:00 - 14:00	1.00	RPCOMPP	PULD	COMPZN	CHANGE OVER FOR RODS.
	14:00 - 17:00	3.00	RPCOMPP	PULD	COMPZN	TEST INSERT PUMP, RUN IN HOLE, RUN IN HOLE WITH 3 1-1/4" SINKER BARS, 133 3/4" X 25' RODS, 1 3/4" X 8', 1 3/4" X 6', 1 3/4" X 2' ROD SUBS & 1 1-1/4" X 22' POLISHED ROD.
10/2/2004	17:00 - 18:00	1.00	RPCOMPP	PULD	COMPZN	SPACE OUT PUMP, INSTALL POLISHED ROD & STUFFING BOX, LOAD HOLE PRESSURE TEST TO 500 PSI, HELD, BLEED OFF PRESSURE, STROKE PUMP WITH RIG, PUMPED UP TO 500 PSI, HELD.
	18:00 - 19:00	1.00	SURFEQ	NUND	COMPZN	START RIGGING DOWN EQUIPMENT.
	07:00 - 07:30	0.50	MOVE	SFTY	DEMOB	SAFETY MEETING.
	07:30 - 19:00	11.50	MOVE	RURD	DEMOB	RIG DOWN EQUIPMENT, RIG DOWN RIG, GET READY TO MOVE.