

Well Name: SAN JUAN 29-6 # 106MAPI #: 30-039-27542Spud: 17-Mar-2004Release: 25-Mar-2004RKB TO GROUND LEVEL: 13 FT

ALL DEPTHS ARE FROM RKB

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

Surface Casing Date set: 18-Mar-04

Size 9 5/8 in
Set at 238 ft # Jnts: 5
Wt. 32.3 ppf Grade H-40
Hole Size 12 1/4 in Conn STC
Wash Out 150 % Csg Shoe 238 ft
Est. T.O.C. 0 ft TD of surface 239 ft

☒ New
☐ Used

Notified BLM @ _____ hrs on _____
Notified NMOCD @ _____ hrs on _____

Intermediate Casing Date set: 22-Mar-04

Size 7 in
Set at 3917 ft # Jnts: 90
Wt. 20 ppf Grade J-55
Hole Size 8 3/4 in Conn STC
Wash Out 150 % Csg Shoe 3917 ft
Est. T.O.C. SURFACE TD of intermediate 3917 ft

☒ New
☐ Used

Notified BLM @ _____ hrs on _____
Notified NMOCD @ _____ hrs on _____

Production Casing Date set: 25-Mar-04

Size 4 1/2 in
Wt. 11.6 ppf Grade: N-80 from 13 to 8135 ft
Hole Size 6 1/4 in Conn LTC
Wash Out: 50 % # Jnts: 189
Est. T.O.C. _____

☒ New
☐ Used

Marker Jt: 5192' - 5202'
Marker Jt: 7781' - 7790'
Marker Jt: _____

Top of Float Collar 8133 ft
Csg Shoe 8135 ft

TD 8,135 ft**Surface Cmt** Date cmt'd: 18-Mar-04

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: 15.0 bbls Fresh Wtr
Bump Plug: 07:00 hrs w/ 150 psi
Final Circ Pressure: 69 psi @ 2 bpm
Returns during job: Yes
CMT Returns to surface: 15 bbls
Floats Held: No floats run
W.O.C. for 9.75 hrs (plug bump to test casing)

Int. Cement Date cmt'd: 22-Mar-04

Lead: 400 sx Standard Cement
+ 3% Econolite + 10 lb/sx PhenoSeal
2.88 cuft/sx, 1152 cuft slurry at 11.5 ppg
Tail: 230 sx 50/50 POZ: Standard Cement
+ 2% Bentonite
+ 6 lb/sx PhenoSeal
1.33 cuft/sx, 306.0 cuft slurry at 13.5 ppg
Displacement: 156 bbls Fresh Wtr
Bumped Plug at: 20:00 hrs w/ 2150 psi
Final Circ Pressure: 1470 psi @ 2 bpm
Returns during job: Yes
CMT Returns to surface: 90 bbls
Floats Held: X Yes ___ No
W.O.C. for 9 hrs (plug bump to test casing)

Prod. Cmt Date cmt'd: 25-Mar-04

470 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, 681 cuft slurry at 13.1 ppg
Displacement: 126 bbls 2% KCL water
Bumped Plug at: 05:30 hrs w/ 2150 psi
Final Circ Pressure: 1390 psi @ 2 bpm
Returns during job: No (None Planned)
CMT Returns to surface: _____
Floats Held: Yes
Mud Wt. @ TD AIR ppg

COMMENTS:Surface: No float equipment run. Ran guide shoe and aluminum baffle plate 1 jt above guide shoe.

Intermediate: _____

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: Centralizers @ 217', 193', 149', & 106'Total: 4Intermediate: Centralizers @ 3896', 3872', 3785', 3698', 3611', 3524', and 212'Total: 7Turbolizers @ 2928', 2885', 2842', 2799' & 2755'Total: 5Production: No centralizers run on production casingTotal: none

30-039-27542

CONOCOPHILLIPS CO

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Operations Summary Report

Legal Well Name: SAN JUAN 29-6 UNIT 106M
 Common Well Name: SAN JUAN 29-6 UNIT 106M
 Event Name: COMPLETION
 Contractor Name: KEY FOUR CORNERS
 Rig Name: KEY ENERGY

Start: 1/27/2004 End: 5/3/2004
 Rig Release: 3/25/2004 Group:
 Rig Number: 47

Spud Date: 3/17/2004

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
3/27/2004	-					HELD SAFETY MEETING. Installed csg valves and frac valve. RU Schlumberger. Pressured up on 4 1/2" csg to 2000 #. Ran CBL log from 8076' to 2650'. Top of cement @ 2890'. Ran TDT log from 8076' to 2000'. Ran GR/CCL log from 8076' to surface. SWI. RD Schlumberger.
3/31/2004	09:00 - 09:30	0.50	EVALWB	SFTY	COMPZN	Held safety meeting
	09:30 - 12:00	2.50	EVALWB	PRTS	COMPZN	RU ISOLATION TOOL. PRESSURE TESTED 4 1/2" CSG TO 6700 # FOR 30 MIN. HELD OK.
4/15/2004	13:00 - 13:30	0.50	PERF	SFTY	COMPZN	Held safety meeting.
	13:30 - 16:00	2.50	PERF	PERF	COMPZN	RU Blue Jet. Perforated the Dakota. RIH w/ 3 1/8" 120 degree select fire perforating gun. Perforated from 7890' - 7920' w/ 2 spf, 8000' - 8008' w/ 2 spf. A total of 76 holes w/ 0.34 dia.
4/16/2004	09:00 - 09:30	0.50	STIM	SFTY	COMPZN	Held safety meeting
	09:30 - 14:00	4.50	STIM	STIM	COMPZN	RU Isolation tool. RU Schlumberger. Frac'd the Dakota. Tested lines to 7010 #. Set pop off @ 6020 #. Broke down formation @ 3 BPM @ 1581 #. Pumped pre pad @ 41 BPM @ 2638 #. SDRT 30 BPM @ 2179 #. SDRT 20 BPM @ 1804 #. SDRT 11 BPM @ 1549#. ISIP 1500 #. 5 min 1078 #. 10 min 947 #. 15 min 840 #. 20 min 751 #. 25 min 682 #. Frac'd the Dakota w/ Slickwater @ 1.25 g/mg FR. 40,000 # of 20/40 Supper LC and 4238 bbls fluid. Avg rate 58 BPM. Avg psi 3527. Max psi 3613. Max sand cons .40 # per gal. ISIP 1809 #. Frac gradient .63.
	14:00 - 17:00	3.00	PERF	PERF	COMPZN	RU Blue Jet wireline. RIH w/ 4 1/2" composite plug. Set plug @ 5700'. Tested plug to 4800 #. Held ok. Perforated the Mesaverde. RIH w/ 3 1/8" 120 degree select fire perforating gun. Perforated from 5380' - 5384' w/ 1/2 spf, 5402' - 5418' w/ 1/2 spf, 5440' - 5450' w/ 1/2 spf, 5470' - 5480' w/ 1/2 spf, 5793' - 5797' w/ 1/2 spf, 5810' - 5814' w/ 1/2 spf, 5822' - 5836' w/ 1/2 spf. A total of 38 holes w/ 0.34 dia. RD Blue Jet.
4/17/2004	08:00 - 08:30	0.50	STIM	SFTY	COMPZN	Held safety meeting.
	08:30 - 13:00	4.50	STIM	STIM	COMPZN	Frac the Mesaverde. Tested lines to 5420 #. Set pop off @ 4360 #. Brok down formation @ 4 BPM @ 2376 #. Pumped 1000 gals of 15 % HCL acid @ 5 BPM @ 1678 #. Pumped pre pad @ 35 BPM @ 1083 #. SDRT 30 BPM @ 459 #. SDRT 25 BPM @ 0 #. ISIP 0 #. Frac THE MV w/ 65 Q Slick Foam w/ 1.0 g/mg FR. 175,000 # of 20/40 Brady sand. Treated the last 15% of total proppant volume with proppnet for proppant flowback control. 1785 bbls fluid. 2,366,200 SCF N2. Avg rate 50 BPM. Avg psi 2878. Max psi 3079. Max sand cons 1.5 # per gal. ISIP 1701 #. Frac gradient .44. SWI. RD Schlumberger.
4/26/2004	09:00 - 09:30	0.50	WELLPR	SFTY	COMPZN	PJSM W/ CREW. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT. SICP=600# CHECK LOCATION FOR HAZZARDS. CHECK FOR LELS.
	09:30 - 10:30	1.00	WELLPR	RURD	COMPZN	RIG INSPECTION, SPOT UNIT AND EQUIPMENT.
	10:30 - 12:00	1.50	RPEQPT	RURD	COMPZN	RU UNIT AND EQUIPMENT.
	12:00 - 14:00	2.00	RPEQPT	PRTS	COMPZN	KILL WELL W/ 20 BBL KCL. INSTALL HANGER W/ 2 WAY CHECK. RD FRAC VALVE, NU BOPE. RU WOOD GROUP AND TEST BLIND AND PIPE RAMS, 250# LOW FOR 5 MIN EA, AND 3000# HIGH FOR 15 MIN EA. TEST WAS GOOD AND CHARTED. WITNESSED BY W. SHENEFIELD W/ MSCI. RD WOOD GROUP.
	14:00 - 15:30	1.50	RPEQPT	NUND	COMPZN	RU BLOOIE LINES. PLACE CONCRETE BLOCKS ON PUMP, AIR AND FLOW LINES. BACK DRAG RUTS ON LOCATION.
	15:30 - 18:00	2.50	RPCOMP	TRIP	COMPZN	KILL WELL W/ 20 BBL KCL. REMOVE HANGER. MU AND TIH TALLYING AND PICKING UP FROM FLOAT W/ 3 7/8" 3 BLADED MILL, BITSUB, STRING FLOAT AND 87 JTS 2 3/8" TBG. TO 2750'.
	18:00 - 18:15	0.25	RPCOMP	OTHR	COMPZN	SECURE WELL SDFN.

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Operations Summary Report

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Event Name: COMPLETION
Contractor Name: KEY FOUR CORNERS
Rig Name: KEY ENERGY

Spud Date: 3/17/2004
Start: 1/27/2004 End: 5/3/2004
Rig Release: 3/25/2004 Group:
Rig Number: 47

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/27/2004	07:00 - 07:45	0.75	RPCOMPS	SFTY	COMPZN	PJSM W/ CREW. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT. SICP=520# BWD
	07:45 - 08:45	1.00	RPCOMPC	CIRC	COMPZN	UNLOAD WELL @ 2750'.
	08:45 - 09:45	1.00	RPCOMPT	TRIP	COMPZN	CONTINUE TO TIH W/ 2 3/8" TBG. AND TAG FILL @ 5708'. (128' PERFS COVERED)
	09:45 - 14:00	4.25	RPCOMPF	FCO	COMPZN	BREAK CIRCULATION W/ AIR. UNLOAD HOLE AND C/O FILL FROM 5708' TO 5936'. CIRCULATE TILL MINIMAL SAND PRODUCTION AND LIGHT MIST REALIZED.
	14:00 - 14:15 14:15 - 16:30	0.25 2.25	RPCOMPT	TRIP FLOWT	COMPZN COMPZN	PUH TO 5290'. OPEN WELL UP FLOWING UP CSG ON 1/2" CHOKE. FLOW TEST MV FOR 4 HRS AS FOLLOWS: MV PERFS- 5380' - 5836' 2 3/8" TBG SET @ 5290' W/ STING FLOAT. (UNABLE TO FLOW UP TBG.) TESTED ON 1/2" CHOKE FLOWING UP CSG. SITP- N/A FCP= 300# MV PROD= 1980 MCFPD 10 BWPD 1/2 BOPD. NO SAND. TEST WITNESSED BY HUMBERTO FRIAS W/ KEY ENERGY SERVICES.
4/28/2004	16:30 - 16:45	0.25	RPEQPT	OTHR	COMPZN	SECURE WELL SDFN.
	06:00 - 09:00	3.00	WELLPR	SFTY	COMPZN	CONTRACTOR BREAKFAST SAFETY MTG.
	09:00 - 10:30	1.50	MOVE	MOB	COMPZN	ROAD CREW TO LOC.
	10:30 - 11:00	0.50	RPCOMPS	SFTY	COMPZN	PJSM W/ CREW AND AIR HAND. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT.
	11:00 - 11:45	0.75	RPCOMPT	TRIP	COMPZN	SICP=520#. BWD, TIH W/ 10 JTS TBG. AND TAG NO FILL. RU SWIVEL.
4/29/2004	11:45 - 14:00	2.25	RPCOMPC	CIRC	COMPZN	BREAK CIRCULATION W/ AIR. UNLOAD HOLE. DRILL TOP OFF OF CBP @ 5950'. PUH AND LET PRESSURE EQUALIZE. (CIRC. PSI FROM 700# TO 1600#).
	14:00 - 15:00	1.00	RPCOMPT	TRIP	COMPZN	RD SWIVEL. TIH W/ 65 JTS 2 3/8" TBG. TAG FILL @ 7999'.
	15:00 - 17:30	2.50	RPCOMPC	CIRC	COMPZN	RU SWIVEL. BREAK CIRCULATION W/ AIR AND UNLOAD HOLE. C/O FILL FROM 7999' TO 8052'. CIRCULATE CLEAN.
	17:30 - 18:00	0.50	RPCOMPT	TRIP	COMPZN	SD AIR. POOH W/ 10 JTS 2 3/8" TBG. SECURE WELL SDFN.
	07:00 - 07:30	0.50	WELLPR	SFTY	COMPZN	PJSM. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT.
4/30/2004	07:30 - 08:30	1.00	RPCOMPT	TRIP	COMPZN	SICP=850#. BWD, TIH W/ 10 JTS 2 3/8" TBG. RU SWIVEL.
	08:30 - 15:00	6.50	RPCOMPC	CIRC	COMPZN	BREAK CIRCULATION W/ AIR MIST. UNLOAD HOLE. C/O FILL FROM 8052' TO PBTD OF 8132'. CIRCULATE CLEAN REMAINDER OF DAY.
	15:00 - 16:30	1.50	RPCOMPT	TRIP	COMPZN	POOH STANDING BACK W/ 200 JTS 2 3/8" TBG.
	16:30 - 17:00	0.50	RPEQPT	OTHR	COMPZN	SECURE WELL SDFN.
	07:00 - 07:30	0.50	RPCOMPS	SFTY	COMPZN	PJSM W/ CREW. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT. SICP=780#.
	07:30 - 09:00	1.50	RPCOMPT	TRIP	COMPZN	BWD, TOOH W/ 56 JTS. KILLING WELL W/ 40 BBL KCL WHEN 30 JTS LEFT.
	09:00 - 10:30	1.50	RPCOMPT	TRIP	COMPZN	MU AND TIH W/ SCHLUMBERGER 4.5" HD PKR , TBG. VALVE AND 246 JTS 2 3/8" TBG.
	10:30 - 11:30	1.00	RPCOMPC	CIRC	COMPZN	BREAK CIRCULATION W/ AIR UNLOAD HOLE. SET PKR @ 7769'. OPEN TBG. VALVE.
	11:30 - 15:30	4.00	FLOWT		COMPZN	FLOW TEST DK FORMATION FOR 4 HRS AS FOLLOWS: DK PERFS-7890'-8008' 2 3/8" TBG W/PKR SET @ 7769'.

Operations Summary Report

Legal Well Name: SAN JUAN 29-6 UNIT 106M

Common Well Name: SAN JUAN 29-6 UNIT 106M

Event Name: COMPLETION

Contractor Name: KEY FOUR CORNERS

Rig Name: KEY ENERGY

Start: 1/27/2004

Rig Release: 3/25/2004

Rig Number: 47

Spud Date: 3/17/2004

End: 5/3/2004

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/30/2004	11:30 - 15:30	4.00	FLOWT		COMPZN	FLOW TESTED UP TBG ON 1/2" CHOKE. SICP= 600# FTP= 330# DK PRODUCTION= 2178 MCFPD 5 BWPD 1/2 BOPD NO SAND. TEST WITNESSED BY KEVIN GRIFFIN W/ SCHLUMBERGER TOOL SERVICE.
	15:30 - 16:00	0.50	RPCOMPPACK		COMPZN	RELEASE PKR.
	16:00 - 17:30	1.50	RPCOMPTRIP		COMPZN	POOH W/ 246 JTS 2 3/8" TBG. LD PKR AND VALVE.
	17:30 - 18:30	1.00	RPCOMPTRIP		COMPZN	MU AND TIH W/ EXP. CK, 1.81" FN AND 60 JTS 2 3/8" TBG. DRIFTING AS GOING IN HOLE. TBG. IS NOT DRIFTING. CONTACTED ENGINEERING. WILL LD 248 JTS. AND HAVE INSPECTED. WILL RUN YELLOW BAND TBG. FOR PRODUCTION STRING.
5/1/2004	18:30 - 18:45	0.25	RPCOMPTOHR		COMPZN	SECURE WELL SDFN.
	07:00 - 07:30	0.50	WELLPR SFTY		COMPZN	PJSM. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT. SICP= 800#.
	07:30 - 09:15	1.75	RPCOMPTRIP		COMPZN	BWD. TIH W/ 188 JTS 2 3/8" TBG.
	09:15 - 12:00	2.75	RPCOMPPULD		COMPZN	POOH DRIFTING. TBG. WILL NOT DRIFT @ PIN WHEN MADE UP. LD TBG. ON FLOAT. (CHECKED TORQUE W/ LINE PULL TORQUE GUAGE W/ MARTIN DECKER.(1000#) RIG HYDROLIC PRESSURE @ 900# , COMPUTES TO 1200# TONG TORQUE. TORQUE SPECS FOR 2 3/8" TBG. IS 900# TO 1200#) COULD SET HYDROLIC PRESSURE @ 700# AND TBG WILL DRIFT.
5/3/2004	12:00 - 12:45	0.75	RPEQPT RURD		COMPZN	MOVE FLOAT AND SWAP OUT W/ LOAD OF B CONDITION TBG. SECURE WELL SDFWE.
	07:00 - 07:30	0.50	WELLPR SFTY		COMPZN	PJSM W/ CREWS DISCUSSED DAYS EVENTS. AND WAYS TO PREVENT INCIDENT.
	07:30 - 08:00	0.50	RPCOMPTOHR		COMPZN	SICP=850#. BWD. KILL CSG W/ 30 BBL 2% KCL.
	08:00 - 13:00	5.00	RPCOMPPULD		COMPZN	MU AND TIH PICKING UP AND DRIFTING W/ APPROVED DRIFT W/ 2 3/8" MS EXP. CK, 1.81" FN AND 262 JTS 2 3/8" TBG. (DRIFTED EVERY JT PICKING UP FROM FLOAT. USING SAME 900# HYDROLIC PRESSURE FOR TONG TORQUE.) TAGGED FILL @ 8113'. (20' FILL)
	13:00 - 14:30	1.50	RPCOMPPCO		COMPZN	BREAK CIRCULATION W/ AIR MIST. UNLOAD WELL, CLEAN OUT FILL FROM 8113' TO PBTD OF 8132'. CIRCULATE CLEAN. CUT MIST AND DRY UP W/ AIR.
	14:30 - 15:45	1.25	RPEQPT NUND		COMPZN	POOH AND LD 8 JTS. PUMP 5 BBL KCL. DROP BALL. NU HANGER. LAND TBG W/ 254 JTS. EOT @ 7891' KB. TOP OF FN @ 7889.35' KB. ND BOPE, NU MASTER VALVE.
	15:45 - 17:00	1.25	RPCOMPPRTS		COMPZN	PRESSURE UP W/ AIR TO 1000#. HELD FOR 10 MIN. TEST WAS GOOD. PRESSURE UP TO 1550# AND PUMP OUT CHECK. LET WELL FLOW UP TBG. AND CSG TO ENSURE CK GONE AND TO PURGE AIR FROM SYSTEM.
	17:00 - 18:00	1.00	RPEQPT		COMPZN	RD EQUIPMENT AND UNIT. PREP TO MOVE OFF LOC. TURN OVER TO OPERATOR AND WILLIAMS FOR PRODUCTION. (
						FACILITIES NEED TO BE COMPLETED.) FINAL REPORT.