

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Otherb. 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, WL3-6085 Houston Tx 77252

3.a Phone No. (Include area code)

(832)486-2463

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

At Surface Sec 33 T29N R6W SENW 1740FNL 2630FWL

At top prod. interval reported below

At total depth

14. Date Spudded

01/20/2006

15. Date T.D. Reached

02/05/2006

16. Date Completed

☐ D & A ☒ Ready to Prod.

03/23/2006

5. Lease Serial No.

NMNM03471A

6. If Indian, Allottee or Tribe Name

DE PA # NMNM 78416B

Unit or CA Agreement Name and no.

8. Lease Name and Well No.

San Juan 29-6 Unit 88M

9. API Well No.

30-039-27554C-1

10. Field and Pool, or Exploratory

Blanco Mesaverde/Basin Dakota

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

Survey or Area Sec 33 T29N R6W

12. County or Parish

Rio Arriba

13. State

NM

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

6499' GL

18. Total Depth: MD 7886

TVD

19. Plug Back T.D.: MD 7855

TVD

20. Depth Bridge Plug Set: MD

TVD

21. Type of Electric &amp; Other Mechanical Logs Run (Submit copy of each)

CBL; TDT; GR/CCL

22. 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	232		150		0	
8.75	7 J-55	20	0	3686		322+600sqz		0	
6.25	4.5 N-80	11.6	0	7881		360		4360	

## 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	7659.40							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Basin Dakota	7655'	7797'	7655' - 7797'	.34	59	Open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7655' - 7797'	Frac'd w/2950 bbls Slickwater; 35,020# 20/40 EconoProp Sand

## 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
3/23/06	3/22/06	24	→	0	1045	1.6			Flows from Well
Choice Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/2	290	600	→					GSI	

## 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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

APR 11 2006

FARMINGTON FIELD OFFICE

BY

NMOC

## 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.)

Vented

## 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
				Nacimiento	1442.6
				Ojo Alamo	2544.9
				Kirtland	2718.1
				TJG Fruitland	3097.5
				Pictured Cliff	3391.2
				Otero Chacra	4366.5
				Cliffhouse 1	5142.7
				Pt. Lookout	5570.5
				Gallup	6807.0
				Greenhorn	7538.9
				Lower Cubero	7774.1

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

New downhole commingled well producing from the Blanco Mesaverde and Basin Dakota. Daily summary report and Well Schematic is attached.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)    ☐ Geological Report    ☐ DST Report    ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification    ☐ Core Analysis    ☐ 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) Christina Gustartis Title Regulatory Specialist

Signature Chris Gustartis Date 03/31/2006

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.

**INITIAL COMPLETION, 2/13/2006 00:00**

API/Bottom UWI	County	State/Province	Surface Legal Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
300392755400	RIO ARRIBA	NEW MEXICO	NMPM-29N-06W-33-F	1,740.00	N	2,630.00	W
Ground Elevation (ft)	Latitude (DMS)	Longitude (DMS)	Spud Date	Rig Release Date			
6,499.00	36° 41' 4.812" N	107° 28' 4.044" W	1/19/2006	2/9/2006			

**2/13/2006 10:00 - 2/13/2006 12:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. RIH w/ E line tagged @ 7836'. PBTD @ 7855'. Pulled GR log strip from 7836' to 6800'. SWI RD schlumberger.

**2/17/2006 07:00 - 2/17/2006 15:00**

**Last 24hr Summary**

Held safety meeting. RU Slumberger. Pressured up on 4 1/2" CSG to 1500 #. Ran CBL log from 7836' to 4000'. Top of cement @ 4360'. Ran TDT log from 7836' to 2350'. Ran GR/ccl log from 7836' TO surface. RD Schlumberger.

**2/18/2006 08:00 - 2/18/2006 12:00**

**Last 24hr Summary**

Held safety meeting. RU Isolation tool. pressure tested 4 1/2" csg to 6500 # for 30 min. Held ok. SWI. RD Isolation tool.

**3/3/2006 13:00 - 3/3/2006 17:00**

**Last 24hr Summary**

PJSA meeting on location.

Held PJSA with crew on location. Talked about conducting safe wireline operations.

Rig up Computalog unit and perforating tools with pressure lubricator. Rig up and run in the well with 3 1/8" HSC PP 120 Degree phase with 12 g 306 Owen charges .34" diameter guns. Correlated off of TDT/GR/CCL log dated 2-16-06.

Perforated from 7,655' to 7,661' with 1 SPF, 7,671' to 7,684' with 1 SPF, 7,692' to 7,696' with 1 SPF, 7,740' to 7,759' with 1 SPF and 7,785' to 7,797' with 1 SPF for a total of 59 holes. Made a total of 3 gun runs. Verified all perforations were shot.

Rig down perf guns and tools from wellhead. Shut in and secured well.

Will leave wireline unit and tools on location for Dakota and 2-stage Mesa Verde Frac job.

Secured lease. Shutdown operations for the day.

**3/4/2006 05:30 - 3/4/2006 20:00**

**Last 24hr Summary**

PJSA meeting.

Rig up Halliburton to frac Dakota zone.

Test fluid lines to 7600 Psi. Set pop off at 6240 Psi. Broke down the zone at 5 bpm at 4,246 Psi. Pumped step rate: 36 bpm @ 3,200 Psi. Step down to 22 bpm @ 3,050 Psi. Step down to 16 bpm @ 2,440 Psi. Step down to 11 bpm & 2,000 Psi. Shutdown pumping. ISIP 1,546 Psi. 5 min= 1,180 Psi, 10 min= 1,008 Psi, 15 min= 836 Psi, 30 min= 486 Psi. Pumped 180 Bbls.

Pump 1000 gals of 15% HCL acid @ 5.4 bpm @ 1,700 Psi. Frac the Dakota with 2,950 Bbls of Slickwater fluid with 35,020 Lbs. of 20/40 Econoprop sand. Ran friction reducer at .5 gal to 1.00 gal/ 1000 gallons. Surfactant at 1 gal/ 1000 gallons. Avg rate 50.2 Bpm. Avg pressure 3,595 Psi. Max pressure 4,025 Psi.

Max sand concentration: .4 PSA. ISIP 1,900 Psi. 5 min.: 1,679 Psi. Frac gradient .64. Fluid to recover: 3,153 Bbls.

Rig up Computalog. Set 4 1/2" composite bridge plug at 5,813'. Perforate the Point Lookout: 5,574' to 5,713'. Total of 75 - .34" diameter holes. (3 gun runs)

Rig up Halliburton to frac Pt. Lookout zone.

Test lines to 6,200 Psi. Set pop off at 4,900 Psi. Broke down the zone at 10 bpm at 1,210 Psi. Pumped step rate: 40 bpm @ 1,000 Psi. Step down to 30 bpm @ 110 Psi. Step down to 20 bpm @ 60 Psi. Shutdown pumping. ISIP= 0 Psi. Well on vacuum. Pumped 161 Bbls.

Pump 1000 gals of 15% HCL acid @ 5.0 bpm @ 0 Psi. Frac the Pt. Lookout with 60 Q Slickfoam at 60 BPM with 151,257 Lbs. of 20/40 Brady sand. Ran friction reducer at 1.00 gal/ 1000 gallons. Surfactant at 1 gal/ 1000 gallons. Foamer at 4.0 gal/ 1000 gallons. Sandwedge NT with last 1.5 PSA sand stage. Total N2 for job: 2,509,516 Scf. Cool down: 180,000 Scf. Total N2: 2,689,516 Scf. Ran 82 Bbl fluid flush.

Avg rate 60.2 Bpm. Avg pressure 2,950 Psi. Max pressure 3,175 Psi. Max sand concentration: 1.5 PSA. ISIP 0 Psi. Frac gradient .45. Fluid to recover (breakdown, acid and frac: 1,945 Bbls).

Shut in well. Shutdown for the day.

**3/5/2006 07:00 - 3/5/2006 17:15**

**Last 24hr Summary**

PJSA meeting on location.

Rig up Computalog unit and tools. Set 4 1/2" retrievable bridge plug at 5,275'. Perforate the Cliffhouse zone: 5,082' to 5,248'. Total of 57 - .34" diameter holes. (3 gun runs)

Rig up Halliburton to frac the Cliffhouse zone.

Test lines to 5,200 Psi. Set pop off at 4,500 Psi. Broke down the zone at 15 Bpm at 2,290 Psi.

Pumped step rate: 40 bpm @ 1,100 Psi. Step down to 30 bpm @ 345 Psi. Step down to 20 bpm @ 35 Psi. Shutdown pumping. ISIP= 0 Psi. Well on vacuum. Pumped 155 Bbls.

Pump 1000 gals of 15% HCL acid @ 5.0 bpm @ 0 Psi. Frac the Cliffhouse zone with 60 Q Slickfoam at 55 BPM with 125,571 Lbs. of 20/40 Brady sand. Ran Friction reducer at .5 to 1.0 gal/1000 gallons, Surfactant at 1 gal/ 1000 gallons. Foamer at 5.0 gal/ 1000 gallons. Sandwedge NT with last 1.5 PSA sand stage. Total N2 for job: 1,648,341 Scf. Cool down: 180,000 Scf. Total N2: 1,828,341Scf.

Avg rate 56.5 Bpm. Avg pressure 2,750 Psi. Max pressure 3,475 Psi. Max sand concentration: 1.6 PSA.

ISIP- 1,260 Psi. 5- minute- 895 Psi. Frac gradient .60 Psi/ft.

Fluid to recover (breakdown, acid and frac: 1,545 Bbls).

Sting out of well with Stinger tool. Shut in well. Rig down all equipment.

Move in flowback crew. Start well flowback.

**3/9/2006 07:00 - 3/9/2006 18:00**

**Last 24hr Summary**

MOBILIZING RIG- PRE-SPOT SAFETY MEETING WITH RIG CREW AND TRUCKING PERSONNEL. SPOT RIG AND EQUIPMENT. RU RIG AND EQUIPMENT. RU 3" FLOW LINES TO FLOWBACK TANK. CHECK PRESSURES- SICP 580 PSIG, BRADENHEAD 0 PSIG. BLED DOWN CASING SLOWLY, TO 300#. KILL WELL WITH 40 BBLs OF 2% KCL, INSTALL TBG HANGER W/ 2 WAY CHECK BPV, LOCK DOWN PINS, REMOVE FRAC VALVE, NU BOP, RU RIG FLOOR. PRESSURE TEST BOPE BLIND RAMS T/250 PSIG & 2500 PSIG -15 MIN HELD GOOD (NO LEAKS). MU 2-3/8" PUP JOINT IN TBG HANGER PRESSURE TEST 2-3/8" PIPE RAMS TO 250 PSIG & 2500 PSIG, HELD GOOD (NO LEAKS). SECURE WELL. DRAIN UP. SDON

**3/10/2006 07:00 - 3/8/2006 12:00**

**Last 24hr Summary**

SAFETY MEETING-SICP 680 PSIG, BLEED WELL DOWN TO FLOW BACK TANK. BLED DOWN PRESSURE TO 450 PSIG. KILL WELL WITH 40 BBLs OF 2% KCL. PULL HANGER. MU RBP RETRIEVING HEAD, TIH TALLYING AND PICKING UP 96 JTS OF 2-3/8 TUBING. SHUT DOWN OPERATIONS, UNABLE TO CONTINUE PICKING UP TUBING DUE TO HIGH WINDS, BLOCKS SWINGING INTO DERRIK. SECURE WELL DRAIN UP. SDFW.

**3/13/2006 07:00 - 3/13/2006 18:00**

**Last 24hr Summary**

SAFETY MEETING-SICP 580 PSIG, BLEED WELL DOWN TO FLOW BACK TANK. AIR LINES ON RIG FROZE. THAW OUT AIR LINES. CONTINUE PICKING UP 2-3/8 TUBING, PU 73 JTS TAG FILL @ 5250' PRESURE TEST AIR LINES, BREAK CIRCULATION W/ AIR MIST, CLEAN OUT TO TOP OF RFP. RELEASED RFP, START TRIPPING OUT OF HOLE, RFP HANGING UP ON CASING COLLARS POSSIBLE JUNK BETWEEN CASING AND PLUG. WHILE PULLING TUBING AND PLUG, THE PLUG GOT CAUGHT IN A CASING COLLAR CAUSING THE DERRICK TO SHAKE, CAUSING 6 STANDS OF TUBING IN THE TUBING BOARD TO FALL TO THE DERRICK. STOPPED OPERATIONS HELD A SAFETY MEETING, DISCUSSED CORRECTIVE ACTIONS. FINISHED TRIPPING OUT OF THE HOLE WITH 2-3/8 TUBING AND RFP. SECURE WELL, DRAIN UP SDON.

**3/14/2006 07:00 - 3/14/2006 18:00**

**Last 24hr Summary**

SAFETY MEETING-SICP 580 PSIG, BLEED WELL DOWN TO FLOW BACK TANK. MU MULE SHOE, 1.81 F NIPPLE W/ SLICK LINE PLUG SET IN NIPPLE. KILL WELL WITH 25 BBLs OF 2% KCL, TIH W/ BHA AND 83 STDS, PU 13 JTS. TAG FILL @ 5670' KB. PRESSURE TEST AIR LINES, BREAK CIRCULATION WITH AIR MIST CLEAN OUT FILL TO TOP OF CBP @ 5805' KB (135' OF FILL) BLOW WELL AROUND RUNNING SWEEPS. SHUT DOWN AIR, PUH WITH 12 STDS TO TOP OF MV PERFS. LET WELL FLOW FOR 1 HR. RIH WIT TUBING TAG FILL @ 5796' (9' OF FILL) CLEAN OUT FILL TO TOP OF CBP. SHUT DOWN AIR PUH WITH 12 STDS SET EOT ABOVE ALL PERFORATIONS. SECURE WELL, DRAIN UP SDFN.

**3/15/2006 07:00 - 3/15/2006 18:00**

**Last 24hr Summary**

SAFETY MEETING-SICP 580 PSIG, BLEED WELL DOWN TO FLOW BACK TANK. RIH WITH TUBING 12 STDS TAG FILL @ 5800 (5' OF FILL), BREAK CIRCULATION WITH AIR CLEAN OUT FILL TO TOP OF CBP @ 5805'. PUH TO TO 5576', RU B&R SLICK LINE RETRIEVED PLUG FROM SN, RD B&R, RU FLOW LINE FROM TBG TO FLOWBACK TANK WITH A 1/2" CHOKE. FLOW TEST MV FORMATION UP THE TBG FOR 4 HRS TO FLOWBACK TANK ON 1/2" CHOKE AT SURFACE.

(FLOW TEST IS FOR ALLOCATION)

MESA VERDE FLOW TEST IS AS FOLLOWS:

MV PERFS- 5082"- 5700'

2 3/8" TBG W/ EOT @ 5576' KB

CHOKE COEFFICIENT OF 6.6

SICP= 530#

FTP= 300#

MV PRODUCTION = 1980 MCFPD

5 BWPD ESTIMATED.

0 BOPD

NO SAND

TEST WITNESSED BY ANDREW CHAVEZ W/ BASIC ENERGY .

RU B&R SLICK LINE, RIH AND SET PLUG IN F-NIPPLE. RD B&R. SECURE WELL. SDFN

**3/16/2006 07:00 - 3/16/2006 18:00**

**Last 24hr Summary**

SAFETY MEETING-SICP 580 PSIG, BLEED WELL DOWN TO FLOW BACK TANK. TOH W/ 89 STDS OF 2-3/8 TBG. MU 3-7/8 CONE BIT, 2-3/8 8RD X 2-3/8 REG BITSUB, AND STRING FLOAT, KILL WELL WITH 25 BBLS OF KCL, TIH WITH BHA AND 93 STDS TAG FILL @ 5670' KB (15' OF FILL). RU 2.5 POWER SWIVEL, BREAK CIRCULATION WITH AIR MIST. CLEAN OUT FILL TO TOP OF CBP @ 5805' DILLED OUT CBP. HANG SWIVEL BACK. RIH TALLING AND PICKING UP 62 JTS TAG FILL @ 7784' KB (57' OF FILL) RU POWER SWIVEL, BREAK CIRCULATION WITH AIR MIST. CLEAN OUT FILL TO PBTD @ 7841' KB. RD POWER SWIVEL PUH TO TOP OF MV PERFS. SECURE WELL, DRAIN UP SDFN.

**3/17/2006 07:00 - 3/17/2006 18:00**

**Last 24hr Summary**

SAFETY MEETING-SICP 580 PSIG, BLEED WELL DOWN TO FLOW BACK TANK. TOH W/ 88 STANDS, BIT SUB AND BIT. TIH W/ MULE SHOE COLLAR, 1.81 F NIPPLE AND 124 STANDS. (DRIFTING TUBING GOING IN THE HOLE.

TAG FILL @ 7820' KB (21' OF FILL). BREAK CIRCULATION WITH AIR MIST. CLEAN OUT FILL TO PBTD @ 7841' KB.

BLOW WELL @ PBTD. (CLEAN RETURNS) SHUT DOWN AIR, PUH TO 5576' KB. PREPARED TO RUN PROFILER LOG. SECURE WELL, DRAIN UP SDFWND.

**3/20/2006 07:00 - 3/20/2006 18:00**

**Last 24hr Summary**

SAFETY MEETING-SICP 600 PSIG, BLEED WELL DOWN TO FLOW BACK TANK. RU H&H SL UNIT. MU AND RIH W/ EOT LOCATOR. FIND EOT. TBG SET @ 4960'. POOH RU PROTECHNICS LOGGING TOOLS AND RIH TO 5763', GET STATIC TEMPERATURE AND PRESSURE. OPEN WELL FLOWING UP TBG. W/ 1/2" CHOKE @ SURFACE. PSI STABILIZED @ FTP= 310#, SICP= 600#. LOG ACROSS MV FORMATION F/5763' -5032. POOH W/ TOOLS. FAILED TO RETRIEVE GOOD DATA. RIH W/ NEW SPINNER TOOL TO 5763', GET STATIC TEMPERATURE AND PRESSURE. OPEN WELL FLOWING UP TBG. W/ 1/2" CHOKE @ SURFACE. PSI STABILIZED @ FTP= 310#, SICP= 600#. LOG ACROSS MV FORMATION F/5763' -5032. POOH W/ TOOLS. RETRIEVE DATA. GOOD DATA. STATIC PRESSURE= 720# TEMPERATURE= 175 F. RD H&H SL. SDFN.

**3/21/2006 07:00 - 3/21/2006 17:00**

**Last 24hr Summary**

SAFETY MEETING- SITP 620# SICP 620#, BLEED WELL DOWN TO FLOW BACK TANK. KILL TUBING W/ 6 BBLS OF 2% KCL, RIH W/ 46 STDS FROM 4960' TAG FILL @ 7835 (6' OF FILL) BREAK CIRCULATION WITH AIR MIST. CLEAN OUT FILL TO PBTD @ 7841' RUNNING SWEEPS EVERY 2 HRS. KILL AIR, PUH TO 7530' PREPARE TO RUN PRODUCTION LOG. SECURE WELL DRAIN UP, SDON.

**3/22/2006 08:30 - 3/22/2006 04:30**

**Last 24hr Summary**

CREW ARRIVED ON LOCATION @ 8:30 AM DUE TO SNOW PACKED ROADS. SAFETY MEETING- SITP 750# SICP 600#. WARM UP EQUIPMENT RU H&H SL UNIT. MU AND RIH W/ EOT LOCATOR. FIND EOT. TBG SET @ 7527' KB' CONTINUE RUNNING IN THE HOLE TAG PBTD @ 7841' (NO FILL). POOH RU PROTECHNICS LOGGING TOOLS AND RIH TO 7605', GET STATIC TEMPERATURE AND PRESSURE. LOWER LOGGING TOOLS TO 7817' OPEN WELL FLOWING UP TBG. W/ 1/2" CHOKE @ SURFACE. PSI STABILIZED @ FTP= 290#, SICP= 600#. LOG ACROSS DK FORMATION F/ 7817-7605'. POOH W/ TOOLS. RETRIEVE DATA. DATA WAS GOOD.

DK PRODUCTION LOG TEST DATA: STATIC TEMP= 214 F PRESSURE = 800#

DK GAS= 1,914 MCF/D

OIL= 0 BPD

WATER= 42 BPD

RU H&H SL, RIH WITH PLUG SET TBG PLUG IN F-NIPPLE, RD H&H. PUH TO 4960' KB. RU H&H SL PULLED PLUG. PREPARED TO LOG MV FORMATION.

RD H&H SL. SECURE WELL SDON.

**3/23/2006 07:00 - 3/23/2006 18:00**

**Last 24hr Summary**

SAFETY MEETING- SITP 750# SICP 600# WARM UP EQUIPMENT. RU H&H SL UNIT. MU AND RIH W/ EOT LOCATOR. FIND EOT. TBG SET @ 4960'. POOH RU PROTECHNICS LOGGING TOOLS AND RIH TO 5763', OPEN WELL FLOWING UP TBG. W/ 1/2" CHOKE @ SURFACE. PSI STABILIZED @ FTP= 340#, SICP= 600#. LOG ACROSS MV FORMATION F/5763' -5032. POOH W/ TOOLS. UNABLE TO RETRIEVE GOOD DATA. MU NEW SPINNER RIH TO 5763', OPEN WELL FLOWING UP TBG. W/ 1/2" CHOKE @ SURFACE. PSI STABILIZED @ FTP= 340#, SICP= 600#. CLEAN RETURNS. LOG ACROSS MV FORMATION F/5763' -5032. POOH W/ TOOLS. UNABLE TO GET GOOD DATA. RIH WITH PLUG SET PLUU IN F NIPPLE. POH RD H&H SL. RIH DRIFTING 46 STDS TAG PBTD @ 7841' (NO FILL) LAY DOWN 6 JTS LANDED WELL W/ 244 JTS OF 2-3/8 TBG, EOT @ 7659.40 1.81 F NIPPLE @ 7658.40 RD RIG FLOOR, ND BOP, NU MASTER VALVE. RU H&H PULLED PLUG, RD RIG AND EQUIPMENT. FLOW TBG AND CASING WHILE RIGGING DOWN.  
JOB COMPLETE

Well Name: San Juan 29-6 #88M  
API #: 30-039-27554  
Location: 1740' FNL & 2630' FWL  
Sec. 33 - T29N - R6W  
Rio Arriba County, NM  
Elevation: 6499' GL (above MSL)  
Drl Rig RKB: 13' above Ground Level  
Datum: Drl Rig RKB = 13' above GL

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

Patterson Rig: #747  
Spud: 19-Jan-06  
Spud Time: 19:30  
Date TD Reached: 5-Feb-06  
Release Drl Rig: 9-Feb-06  
Release Time: 16:00

**Surface Casing** Date set: 20-Jan-06

Size 9 5/8 in  
Set at 232 ft # Jnts: 5  
Wt. 32.3 ppf Grade H-40  
Hole Size 12 1/4 in Conn STC  
Excess Cmt 125 %  
T.O.C. SURFACE

Csg Shoe 232 ft  
TD of 12-1/4" hole 245 ft

Notified BLM @ 10:30 hrs on 17-Jan-06  
Notified NMOCD @ 10:30 hrs on 17-Jan-06  
30 min Casing Test at 1000 psi on 20-Jan-06

**Intermediate Casing** Date set: 24-Jan-06

Size 7 in 89 jts  
Set at 3686 ft 0 pups  
Wt. 20 ppf Grade J-55  
Hole Size 8 3/4 in Conn STC  
Excess Cmt 150 % Top of Float Collar 3641 ft  
T.O.C. SURFACE Bottom of Casing Shoe 3686 ft  
Pup @        ft TD of 8-3/4" Hole 3686 ft  
Pup @        ft

Notified BLM @        hrs on         
Notified NMOCD @        hrs on         
30 min Casing Test at 1800 psi on 24-Jan-06  
30 min Casing Test at 1200 psi on 26-Jan-06

4 Perforations @ 3580' →

Intermediate TOC @ 3640' →

**Production Casing:** Date set: 9-Feb-06

Size 4 1/2 in 179 jts  
Set at 7881 ft 3 pups  
Wt. 11.6 ppf Grade N-80  
Hole Size 6 1/4 in Conn LTC  
Excess Cmt 50 % Top of Float Collar 7855 ft  
T.O.C. (est) 3486 Bottom of Casing Shoe 7881 ft  
Marker Jt @ 7515 ft TD of 8-3/4" Hole 7886 ft  
Marker Jt @ 4973 ft  
Marker Jt @ 4953 ft  
Marker Jt @        ft

Notified BLM @        hrs on         
Notified NMOCD @        hrs on       

Top of Float Collar 7855 ft  
Bottom of Casing Shoe 7881 ft

TD of 8-3/4" Hole: 7886 ft

**Surface Cement**

Date cm't'd: 20-Jan-06

Lead : 150 sx Class G Cement  
+ 3% S001 Calcium Chloride  
+ 0.25 lb/sx D029 Cellophane Flakes  
1.16 cuft/sx, 174.0 cuft slurry at 15.8 ppg  
Displacement: 14.8 bbls fresh wtr  
Bumped Plug at: 8:30 hrs w/300 psi  
Final Circ Press:         
Returns during job: YES  
CMT Returns to surface: 15 bbls  
Floats Held: No floats used  
W.O.C. for 6.00 hrs (plug bump to start NU BOP)  
W.O.C. for 11.00 hrs (plug bump to test csg)

**Intermediate Cement**

Date cm't'd: 24-Jan-06

Lead : 322 sx Class G Cement  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 3% D079 Extender  
+ 0.20% D046 Antifoam  
2.72 cuft/sx, 920.8 cuft slurry at 11.7 ppg  
Tail : did not pump  
see comments below

**Squeeze Cement:**

Date cm't'd: 26-Jan-06

Lead : 500 sx Class G Cement  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 3% D079 Extender  
+ 0.20% D046 Antifoam  
+ 1 lb/bbl CemNet (first 30 bbls)  
2.61 cuft/sx, 1305.0 cuft slurry at 11.7 ppg  
Tail : 100 sx Class G Cement  
+ 0.15% D065 Dispersant  
+ 0.25% D167 Fluid Loss  
+ 0.10% D046 Antifoam  
1.17 cuft/sx, 117.0 cuft slurry at 15.8 ppg  
CMT Returns to surface: 120 bbls

**Production Cement**

Date cm't'd: 9-Feb-06

Lead : 160 sx LiteCRETE  
+ 0.50% D112 Fluid Loss  
+ 0.25% D065 Dispersant  
+ 0.15% D800 Retarder  
+ 0.03% D047 Antifoam  
+ 1 lb/bbl CemNet  
2.53 cuft/sx, 404.8 cuft slurry at 9.5 ppg  
Tail : 200 sx 50/50 POZ : Class G Cement  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 3% D020 Bentonite  
+ 1.00 lb/sx D024 Gilsomite Extender  
+ 0.25% D167 Fluid Loss  
+ 0.15% D065 Dispersant  
+ 0.10% D800 Retarder  
+ 0.10% D046 Antifoam  
+ 3.5 lb/sx Phenoseal  
1.45 cuft/sx, 290.0 cuft slurry at 13.0 ppg  
Displacement: 122 bbls  
Bumped Plug: 09:15 hrs w/ 1800 psi  
Final Circ Press: 760 psi @ 2.0 bpm  
Returns during job: None Planned  
CMT Returns to surface: None Planned  
Floats Held: X Yes    No

Schematic prepared by:  
Michael P. Neuschafer, Drilling Engineer  
10-February-2006

**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 @ 189'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt.	
	CENTRALIZERS	Total: 4
7" Intermediate	CENTRALIZERS @ 3676', 3600', 3517', 3435', 3353', 3269', 223', 182', 58'. TURBOLIZERS @ 2732', 2690', 2648', 2607', 2566', 2525'.	Total: 9
7" Intermediate	Pumped 322 sx of lead cement and pump pressure spiked. Shut down job with 12-14 bbls cement behind pipe. Drilled out cement and ran CBL. TOC @ 3640'. Shot perms @ 3580' per regulatory agencies. Set cement retainer @ 3511' and began circulating. Pumped 500 sx of lead cement & 100 sx of tail cement thru retainer. WOC for 24 hours before drill out retainer. 1200 bbls cement to surface. OK by regulatory agencies to continue drilling operations.	Total: 6
4-1/2" Prod.	Air drilled to TD of 7882', POOH and began to run 4 1/2" casing. While running casing tagged up and nearly stuck casing. POOH with casing and mudded hole up. Planned to drill to 7924' to keep from having to drill out float equipment. Drilled to new TD of 7886'. Had problems keeping hole filled and lots of tight hole and kept getting stuck. Ran 4 1/2" casing and cemented. Had good lift pressure through out cement job.	
	CENTRALIZERS @ 7767', 7633', 7535', 7402', 7268', 7137', 7004', 6870', 6739', 6610', 6431', 6257', 6081', 5903',	