

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, 2000

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resyn. ☐ Other \_\_\_\_\_

2. Name of Operator  
ConocoPhillips Company

3. Address  
5525 Highway 64 Farmington NM 87401

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

At Surface 2426 FNL & 1169 FWL SWNW SEC 22 T32N R8W

At top prod. interval reported below

At total depth

14. Date Spudded  
05/18/2005

15. Date T.D. Reached  
06/02/2005

16. Date Completed  
06/19/2005

18. Total Depth: MD 3803  
TVD 3803

19. Plug Back T.D.: MD 3801  
TVD 3801

20. Depth Bridge Plug Set: MD  
TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)  
MUD LOGS

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	32.3	0	235		150		0	9 BBL
8.75	7.0	20.0	0	3379		545		0	37 BBL
6.25	5.5 Liner	15.5	3338	3801		0			

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	3769							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BASIN FRUITLAND	3392	3722	3392-3722	.75	316	OPEN
B) COAL						
C)						
D)						

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

Depth Interval	Amount and Type of Material
	Underreamed 6.25" hole to 9.5" from 3378' to 3803'.

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
06/19/05	06/18/05	1	→	0	2305	0			Gas Pumping Unit
Choice Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
2" Pitot	SI n/a	55	→						

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)

ACCEPTED FOR RECORD

6115 01 2005

FARMINGTON FIELD OFFICE

NMOCD

## 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.)

SOLD

## 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	973
				OJO ALAMO	2603
				KIRTLAND	3123
				BASE MAIN COAL	3540
				BASE LOWEST COAL	3722
				TOP PCCF MD	3734

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

This well is a single well producing from the Basin Fruitland Coal. Attached is the Wellbore Schematic and the Daily Summaries.

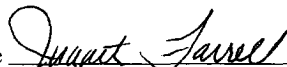
## 33. Circle enclosed attachments:

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) Juanita FarrellTitle Regulatory Analyst

Signature

Date 07/15/2005

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.

# Regulatory Summary

## SAN JUAN 32 8 UNIT #213A

Initial Completion, 5/28/2005 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
300453289900	San Juan	New Mexico	NMPM-32N-08W-22-E	2,426.00	N	1,169.00	W
Ground Elevation (ft)	Latitude (DMS)	Longitude (DMS)	Spud Date	Rig Release Date			
6,820.00	36° 58' 12" N	107° 40' 2" E	5/18/2005	5/22/2005			

5/28/2005 07:00 - 5/28/2005 19:00

Last 24hr Summary

PRE JOB SAFETY MEETING. LOAD EQUIPMENT FOR RIG MOVE. MOVE RIG & EQUIPMENT TO NEW LOCATION. SPOT IN RIG & EQUIPMENT ON NEW LOCATION. RIG UP RIG, START RIGGING UP EQUIPMENT.

5/29/2005 07:00 - 5/29/2005 19:00

Last 24hr Summary

PRE JOB SAFETY MEETING. RIG UP ALL EQUIPMENT, NIPPLE UP BOPS, RIG UP BLOOIE LINES.

5/30/2005 07:00 - 5/30/2005 17:00

Last 24hr Summary

PRE JOB SAFETY MEETING. PRESSURE TEST CASING, 250 PSI FOR 10/MIN & 1800 PSI FOR 30/MIN, HELD PRESSURE TEST ALL RAMS & VALVES AS PER COPC REQUIREMENTS. TALLY DP & DCS, MAKE UP 6-1/4" BIT ON COLLAR, PICK UP & RUN IN HOLE WITH BIT, 15 3-1/2" COLLARS & 91 JTS DP. RIG UP POWER SWIVEL. UNLOAD HOLE WITH AIR, SHUT IN SECURE WELL FOR NIGHT.

5/31/2005 07:00 - 6/1/2005 06:00

Last 24hr Summary

ING

6/1/2005 06:00 - 6/2/2005 06:00

Last 24hr Summary

CHANGING OVER TO RUN UNDER REAMER. PRE JOB SAFTY MEETING, CREW CHANGE, RIG SERVICE. MAKE UP UNDER REAMER, GO IN HOLE TO 3378'. RIG UP SWIVEL, OPEN UNDER REAMER AT 3383', CIRCULATE HOLE WITH 1800 CFM AIR/MIST, 10 BBLS WATER PER HR WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, UNDER REAM OPEN HOLE FROM 3383' TO 3803'. CIRCULATE HOLE CLEAN ON BOTTOM. PULL REAMER INTO 7", RIG DOWN SWIVEL, POOH LAY DOWN UNDER REAMER. MAKE UP BIT GO IN HOLE, CHECK FOR FILL, TAG FILL AT3726', RIG UP SWIVEL, START CLEANING OUT FILL WITH 1800 CFM AIR/MIST

6/2/2005 06:00 - 6/3/2005 06:00

Last 24hr Summary

CLEANING OUT AT 3726' PRE JOB SAFTY MEETING, CREW CHANGE, RIG SERVICE CLEAN OUT FILL FROM 3726' TO 3803' WITH 1800 CFM AIR/MIST, 10 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, WELL MAKING 3 BKTS DOWN TO 1-1/2 BKTS, RETURNS 90% COAL 10% SHALE FINE GRANULAR WITH SOME 1/8" CHIPS. CUT OFF WATER, DRY UP HOLE, PULL BIT INTO 7" FOR FLOW & BUILD UP TEST. FLOW TEST WELL, 15/MIN-16 PSI-4 PETO=1236 MCF. 30/MIN-16 PSI-4 PETO=1236 MCF. 45/MIN-16 PSI-4 PETO=1236 MCF. 60/MIN-16 PSI-4 PETO=1236 MCF. SHUT IN FOR PRESSURE BUILD UP, ISIP=35 PSI, 15/MIN=205 PSI, 30/MIN=400 PSI, 45/MIN=530 PSI, 60/MIN=620 PSI, BLEAD OFF PRESSURE TO 500 PSI, OPEN UP BLOOIE LINES. SURGE OFF PRESSURE. TIH FROM SHOE, CHECK FOR FILL, NO FILL, PULL BACK UP INTO SHOE. CONDUCT 3 PAD SURGES, RETURNS LITE COAL FINES.

6/3/2005 06:00 - 6/4/2005 06:00

Last 24hr Summary

TIH FROM SHOE, TAG FILL AT 3388'. SAFETY MEETING, CREW CHANGE, RIG SERVICE. CLEAN OUT FROM 3388' TO 3536', CLEAN OUT WITH 1800 CFM AIR/MIST, 10 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/8" CHIPS 90 COAL 10% SHALE, MAKING 6 BKTS PER HR. CREW CHANGE, SAFETY MEETING. CLEAN OUT AT 3536', CLEAN OUT WITH 1800 CFM AIR/MIST, 10 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/8" CHIPS 90 COAL 10% SHALE, MAKING 6 BKTS DOWN TO 3 BKTS PER HR, LOST ONE COMP. PULL BIT INTO 7", SWAP OUT COMPRESSOR TIH TAG FILL AT 3525', CLEAN OUT AT 3525', CLEAN OUT WITH 1800 CFM AIR/MIST, 10 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/8" CHIPS 90 COAL 10% SHALE, MAKING 3 BKTS PER HR.

6/4/2005 06:00 - 6/5/2005 06:00

Last 24hr Summary

CLEANING OUT AT 3525', CLEAN OUT WITH 1800 CFM AIR/MIST, 10 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/8" CHIPS 90 COAL 10% SHALE, MAKING 3 BKTS PER HR. CREW CHANGE, SAFTY MEETING, RIG SERVICE.. CLEAN OUT FROM 3525' TO 3725', CLEAN OUT WITH 1800 CFM AIR/MIST, 10 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/8" CHIPS 90 COAL 10% SHALE, MAKING 3 BKTS DOWN TO 1-1/2 BKTS PER HR. PULL BIT INTO 7", CONDUCT THREE PAD SURGES, USING 10 BBL WATER PADS. START IN HOLE TO CHECK FOR FILL, COULD NOT GO DOWN, COULD NOT ROTATE, WAS ABLE TO CIRCULATE, LAY DOWN 3 MORE JTS, STILL COULD NOT GO BACK DOWN OR ROTATE, INCREASED FOAMER TO 2 GAL PER 10 BBLS & INCREASED WATER TO 12 BPH, WORKED PIPE FREE, WELL UNLOADED HEAVY FINES, CIRCULATE HOLE CLEAN. TIH, TAG AT SHOE, CLEAN OUT AT SHOE WITH 1800 CFM AIR/MIST, 12 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/4" CHIPS 90 COAL 10% SHALE, MAKING 5 BKTS PER HR.

6/5/2005 06:00 - 6/6/2005 06:00

Last 24hr Summary

CLEAN OUT AT SHOE WITH 1800 CFM AIR/MIST, 12 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/4" CHIPS 90 COAL 10% SHALE, MAKING 3 BKTS PER HR. CREW CHANGE, SAFTY MEETING, RIG SERVICE. CLEAN OUTFROM 3378' TO 3520' WITH 1800 CFM AIR/MIST, 12 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/4" CHIPS 90 COAL 10% SHALE, MAKING 3 BKTS PER HR. CLEANING OUT AT3520' WITH 1800 CFM AIR/MIST, 12 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS FINE, GRANULAR WITH 1/4" CHIPS 90 COAL 10% SHALE, MAKING 4 BKTS PER HR.

# Regulatory Summary

ConocoPhillips

SAN JUAN 32 8 UNIT #213A

6/6/2005 06:00 - 6/7/2005 06:00

## Last 24hr Summary

CLEANING OUT AT 3520' WITH 1800 CFM AIR/MIST, 10 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, MAKING 3 BKTS PER HR. CREW CHANGE, SAFTY MEETING, RIG SERVICE. MAKE CONECTION CLEAN OUT FROM 3520' TO 3568', WITH 1800 CFM AIR/MIST, 10 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, RETURNS INCREASED UP TO 4 BKTS PER HR.

6/7/2005 06:00 - 6/8/2005 06:00

## Last 24hr Summary

CLEANING OUT 3568', WITH 1800 CFM AIR/MIST, 10 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, RETURNS 4 BKTS PER HR. CREW CHANGE, SAFTY MEETING, RIG SERVICE. CLEANING OUT 3568', WITH 1800 CFM AIR/MIST, 10 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, RETURNS 4 BKTS DOWN TO 2 BKTS PER HR. R & R CLEAN OUT FROM 3568' TO 3722', WITH 1800 CFM AIR/MIST, 10 BPH WATER, 2 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, RETURNS 3 BKTS PER HR.

6/8/2005 06:00 - 6/9/2005 06:00

## Last 24hr Summary

R & R CLEAN OUT FROM 3568' TO 3733', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, RETURNS 2 BKTS PER HR. CREW CHANGE, SAFTY MEETING, RIG SERVICE. R & R CLEAN OUT FROM 3568' TO 3733', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, RETURNS 1 BKTS PER HR, CUT OFF WATER, DRY UP HOLE. PULL BIT INTO 7" FOR FLOW TEST. FLOW TEST, 15/MIN-26 PSI-6.5 PETO=1584 MCF, 30/MIN-26 PSI-6.5 PETO=1584 MCF, 45/MIN-26 PSI-6.5 PETO=1584 MCF, 60/MIN-26 PSI-6.5 PETO=1584 MCF, SHUT IN FOR BUILD UP, ISIP=46 PSI, 15/MIN=180 PSI, 30/MIN=320 PSI, 45/MIN=400 PSI, 60/MIN=480 PSI, RELEASE PRESSURE AS NATURAL SURGE. CONDUCT THREE PAD SURGES, USING 5 BBL WATER PADS. TIH FROM 7", TAG FILL AT 3525', PULL BACK INTO SHOE. CONDUCT THREE MORE PAD SURGES, USING 5 BBL WATER PADS. TIH FROM 7", TAG FILL AT 3515', PULL BACK INTO SHOE. CONDUCT THREE MORE PAD SURGES, USING 5 BBL WATER PADS. TIH FROM SHOE, TAG FILL AT 3515', CIRCULATE HOLE WITH 1800 CFM AIR/MIST

6/9/2005 06:00 - 6/10/2005 06:00

## Last 24hr Summary

PULL BACK UP INTO 7" TO DO MORE SURGES. CREW CHANGE, SAFTY MEETING, RIG SERVICE. CONDUCT SURGE NUMBER 16, 10 BBL PAD SURGE, RELEASE SURGE, BRIDG OFF IN CASING, BROKE BRIDG LOOSE, CIRCULATE CLEAN, TIH CHECK FOR FILL, TAG FILL AT 3515', PULL BACK INTO 7" CONDUCT SURGE 17, 18, 19, WITH 10 BBL PADS, HEAVY COAL RETURNS AFTER EACH SURGE TIH FROM 7", TAG FILL AT 3485'. R & R CLEAN OUT FROM 3485' TO 3536', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 BKTS PER HR FINE, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE,

6/10/2005 06:00 - 6/11/2005 06:00

## Last 24hr Summary

R & R CLEAN OUT AT 3536', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 BKTS PER HR FINE, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, R & R CLEAN OUT AT 3536', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 BKTS PER HR FINE, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE, R & R CLEAN OUT AT 3536', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 BKTS PER HR FINE, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE,

6/11/2005 06:00 - 6/12/2005 06:00

## Last 24hr Summary

R & R CLEAN OUT AT 3536', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 3 BKTS PER HR FINE, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE R & R CLEAN OUT AT 3536', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 3 BKTS DOWN TO 2 BKTS PER HR FINE, GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, MAKE CONECTION, R & R CLEAN OUT FROM 3536' TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS INCREASED UP TO 4 BKTS PER HR, HOLE GITTING STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE,

6/12/2005 06:00 - 6/13/2005 06:00

## Last 24hr Summary

, R & R CLEANING OUT FROM 3536' TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE, R & R CLEANING OUT FROM 3536' TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, LOST CIRCULATION, HOLE PRESSURED UP, COULD NOT MOVE PIPE, GOT ROTATION, WORKED PIPE UP HOLE, PIPE COME FREE, CIRCULATION RETURNED, WELL UNLOADED HEAVY COAL, FOR 30-MIN, RETURNED TO, CLEANING OUT FROM 3540' TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 BKTS PER HR, HOLE STILL STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE,

# Regulatory Summary

ConocoPhillips

SAN JUAN 32 8 UNIT #213A

6/13/2005 06:00 - 6/14/2005 06:00

## Last 24hr Summary

CLEANING OUT FROM 3540', TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 TO 5 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE CLEANING OUT FROM 3540', TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 4 TO 5 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, DP PRESSURE INCREASED UP TO 800 PSI, PIPE WAS STARTING TO GET STUCK, WORK PIPE UP HOLE, FREED UP, RETURNS INCREASED UP TO 6 BKTS PER HR, RETURNED TO CLEANING OUT FROM 3540', TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS INCREASED TO 6 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE,

6/14/2005 06:00 - 6/15/2005 06:00

## Last 24hr Summary

R & R, CLEANING OUT FROM 3540', TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 6 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE R & R, CLEANING OUT FROM 3540', TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 5 TO 6 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE,

6/15/2005 06:00 - 6/16/2005 06:00

## Last 24hr Summary

R & R, CLEANING OUT FROM 3540', TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 5 TO 6 BKTS PER HR, HOLE STICKEY AT 3540', RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE R & R, CLEANING OUT FROM 3540', TO 3568' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 5 BKTS DOWN TO 3 BKTS PER HR, HOLE RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, MAKE CONECTION, CLEAN OUT FROM 3568' TO 3600', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 3 TO 4 BKTS PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE,

6/16/2005 06:00 - 6/17/2005 06:00

## Last 24hr Summary

R & R CLEANING OUT AT 3600', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 3 TO 4 BKTS PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE R & R CLEANING OUT AT 3600', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 3 BKTS PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, MAKE CONECTION R & R CLEANING OUT FROM 3600' TO 3710', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS INCREASED FROM 3 BKTS TO 4 BKTS PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, R & R CLEANING OUT FROM 3600' TO 3710', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 3 BKTS PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, MAKE CONECTIONS, CLEAN OUT TO 3803', WELL STILL MAKING 3 BKTS PER HR.

6/17/2005 06:00 - 6/18/2005 06:00

## Last 24hr Summary

R & R CLEANING OUT AT 3710', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 2 BKTS PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE, CREW CHANGR, SAFTY MEETING, RIG SERVICE R & R CLEANING OUT AT 3710', WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 2 BKTS DOWN TO 1 BKT PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE. PULL BIT INTO CASING, WAIT 1 HR, TIH, TAG AT 3540', R & R CLEANING OUT FROM 3540' TO 3803' WITH 1800 CFM AIR/MIST, 8 BPH WATER, 1 GAL FOAMER & 1/4 GAL INHIBITOR PER 10 BBLS, RETURNS 3 BKTS DOWN TO 1 BKT PER HR, RETURNS, FINE GRANULAR UP TO 1/4" CHIPS 90% COAL 10% SHALE. PULL BIT INTO CASING, WAIT 1 HR, TIH, TAG AT 3540', WORK THROUGH TIGHT SPOT, TIH TO BOTTOM, CIRCULATE HOLE, MAKING LITE RETURNS. HANG BACK SWIVEL, POOH DP & DCS, CHANGE OVER TO RUN LINERHANG BACK SWIVEL, POOH DP & DCS, CHANGE OVER TO RUN LINERHANG BACK SWIVEL, POOH DP & DCS, CHANGE OVER TO RUN LINERHANG BACK SWIVEL, POOH DP & DCS, CHANGE OVER TO RUN LINER

6/18/2005 06:00 - 6/19/2005 06:00

## Last 24hr Summary

RIGGING UP TO RUN LINER CREW CHANGR, SAFTY MEETING, RIG SERVICE MAKE UP HANGER ON JT OF DP, LAY IN V-DOOR, PICK UP JT OF 5-1/2" CASING, MAKE UP BIT ON BOTTOM OF JT, PRESSURE TEST TOP PIPE RAMS AS PER COPC REQUIREMENTS, RUN IN HOLE TOTAL OF 11 JTS OF 5-1/2" 15.50, LT&C CASING. PICK UP & MAKE UP HANGER ON CASING, CHANGE OVER TO DP, RUN IN HOLE. TAG AT 3540', RIG UP SWIVEL, ROTATE & WORK LINER TO BOTTOM, JAY OFF LINER. POOH LAYING DOWN DP RIG UP BLUE JET, RUN GAMMA RAY LOG, & PERFERATE, RIG UP BLUE JET, RUN GAMMA RAY LOG, & PERFERATE, INTERVALS AS FOLLOWS. 3720'-3722', 3700'-3709', 3670'-3674', 3641'-3643', 3604'-3606', 3559'-3561', 3528'-3538', 3516'-3524', 3460'-3462', 3434'-3440', 3414'-3418', 3392'-3406', FOUR SHOTS PER FT, TOTAL 316 SHOTS. RIG DOWN BLUE JET. BLOW WELL DOWN FOR FLOW TEST. FLOW TEST, 15/MIN 52 PSI-13 PETO=2237 MCF, 30/MIN 52 PSI-13 PETO=2237 MCF, 45/MIN-55 PSI-13.75 PETO=2305 MCF, 60/MIN-55 PSI-13.75 PETO=2305 MCF, BLOW WELL DOWN, TIH WITH DRILL COLLARS, POOH LAY DOWN COLLARS, SHUT IN SECURE WELL FOR NIGHT.

6/19/2005 07:00 - 6/20/2005 19:00

## Last 24hr Summary

SAFTY MEETING, CHECK WELL PRESSURE, 800 PSI ON CASING, OPEN UP ON 2" BLEAD OFF WELL PRESSURE. PICK UP & RUN IN HOLE WITH BHA, 2-1/16 NOTCH COLLAR, 2-1/16 SEETING NIPPLE, 2-1/16 X 2-3/8 CHANGE OVER, 2-3/8" MUD ANCHOR WITH HOLES DRILLED BELOW UPSET AT TOP OF JT, 2-3/8" X 1.78 F-NIPPLE & 118 JTS 2-3/8" TBG. LAND TBG WITH F-NIPPLE AT 3733', EOT AT 3769', NIPPLE DOWN BOPS, NIPPLE UP WELL HEAD. RIG UP B & R, PULL PLUG IN F-NIPPLE, RIG DOWN B & R. PICK UP & TEST INSERT PUMP, RUN IN HOLE WITH INSERT PUMP, 3 SINKER BARS, 146 2/4" X 25' RODS, 8' X 3/4", 6' X 3/4", TWO 4' X 3/4", 2' X 3/4" & 1-1/4" X 22' POLISH ROD, SPACE OUT PUMP. LOAD HOLE, PRESSURE TEST TO 500 PSI, HELD, BLEAD OFF PRESS, STROKE PUMP WITH RIG, PUMP UP TO 500 PSI, HELD, RELEASE PRESSURE, SHUT IN SECURE WELL FOR NIGHT.

6/20/2005 07:00 - 6/20/2005 19:00

Last 24hr Summary

PRE JOB SAFTY MEETING, RIG DOWN EQUIPMENT, RIG DOWN RIG, PREPAIR FOR RIG MOVE.

Well Name: San Juan 32-8 #213A

API #: 30-045-32899

Location: 2426' FNL &amp; 1169' FWL

Sec. 22 - T32N - R8W

San Juan County, NM

Elevation: 6820' GL (above MSL)

Drl Rig RKB: 13' above Ground Level

Datum: Drl Rig RKB = 13' above GL

Patterson Rig: #747

Spud: 18-May-05

Spud Time: 21:00

Release Drl Rig: 22-May-05

Time Release Rig: 6:00

Move In Cav Rig: 28-May-05

Release Cav Rig: 19-Jun-05

Note - this well is equipped with rods &amp; pump

7-<sup>1</sup>/<sub>16</sub>" 3M x 2-<sup>3</sup>/<sub>8</sub>" 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: 19-May-05

Size 9 5/8 in

Set at 235 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 235 ft

TD of 12-1/4" hole 245 ft

Notified BLM @ 7:30 hrs on 17-May-05

Notified NMOCD @ 7:30 hrs on 17-May-05

**Intermediate Casing**

Date set: 21-May-05

Size 7 in 79 jts

Set at 3379 ft 0 pups

Wt. 20 ppf Grade J-55

Hole Size 8 3/4 in Conn STC

Excess Cmt 160 % Top of Float Collar 3333 ft

T.O.C. SURFACE Bottom of Casing Shoe 3379 ft

Pup @ 0 ft TD of 8-3/4" Hole 3382 ft

Pup @ 0 ft

Notified BLM @ 16:00 hrs on 20-May-05

Notified NMOCD @ 16:00 hrs on 20-May-05

**Production Liner**

Date set: 18-Jun-05

Size 5 1/2 in

Nominal Wt. 15.5 ppf

Grade J-55

# Jnts: 11

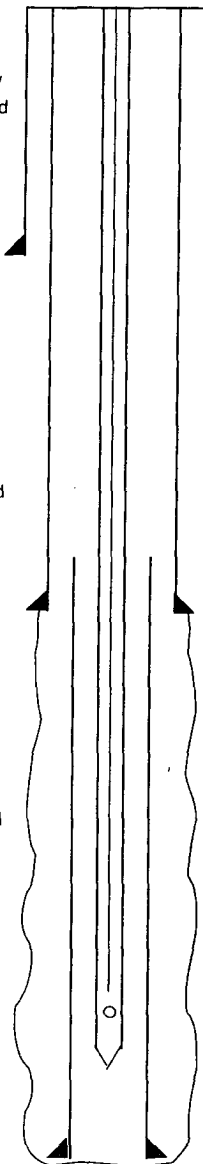
Hole Size 6.25 / 9.5 inches

Underreamed 6-1/4" hole to 9.5" from 3378' to 3803'

Top of Liner 3338 ft

PBDT 3801 ft

Bottom of Liner 3801 ft set in 4 ft of fill on bottom

☒ New  
☐ Used☒ New  
☐ Used☒ New  
☐ Used

TD 3,803 ft

**Surface Cement**

Date cmt'd: 19-May-05

Lead: 150 sx Class G Cement

+ 2% BWOC S001 Calcium Chloride

+ 0.25 lb/sx D029 Cellophane Flakes

1.16 cuft/sx, 174.0 cuft slurry at 15.8 ppg

Displacement: 15.0 bbls fresh wtr

Bumped Plug at: 5:30 hrs w/ 520 psi

Final Circ Press: 70 psi @ 0.5 bpm

Returns during job: YES

CMT Returns to surface: 9

Floats Held: No floats used

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

W.O.C. for 10.50 hrs (plug bump to test csg)

**Intermediate Cement**

Date cmt'd: 21-May-05

Lead: 445 sx Class G Cement

+ 3% D079 Extender

+ 0.25 lb/sx D029 Cellophane Flakes

+ 0.2% D046 Antifoam

0

2.61 cuft/sx, 1161.45 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 Gilsonite

+ 0.25 lb/sx D029 Cellophane Flakes

+ 0.1% D046 Antifoam

1.27 cuft/sx, 127 cuft slurry at 13.5 ppg

Displacement: 135

Bumped Plug at: 20:30 hrs w/ 1490 psi

Final Circ Press: 780 psi at 2 bpm

Returns during job: YES

CMT Returns to surface: 37

Floats Held: ☒ Yes ☐ No**UNCEMENTED LINER**

Schematic prepared by:  
Michael P. Neuschafer, Drilling Engineer  
29-June-2005

**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 @ 191'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 224', 147', 103' & 60'. Total: 4
7" Intermediate	DISPLACED W/ 135.0 BBLS. 8.4 PPG SLIGHTLY POLYMERIZED DRILL WATER CENTRALIZERS @ 3369', 3290', 3208', 3117', 3032', 2947', 2603', 207', 79' & 36'. TURBOLIZERS @ 2861', 2818', 2775', 2732', 2689' & 2646'. Total: 10 Total: 6
5.5" Liner	Ran 6 1/4" bit and bit sub on bottom of liner. Ran and set the 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: 3392'-3406', 3414'-3418', 3434'-3440', 3460'-3462', 3516'-3524', 3528'-3538', 3559'-3561', 3604'-3606', 3641'-3643', 3670'-3674', 3700'-3709', 3720'-3722'. Total 316 holes
Tubing	2-3/8" Mud Anchor 30.3' long with eight each 0.25" x 8" slots just below the upset, 2-1/16" x 2-3/8" EUE 8rd XO collar, 2-3/8" OD (1.78" ID) F-Nipple, and 118 jts 2-3/8" 4.7# J-55 EUE 8rd tubing. Bottom of Mud Anchor at 3769'. Top of F-Nipple at 3733' MD RKB.
Pump & Rods	12" long strainer attached below 2" x 1-1/2" x 12' RWAC-Z insert pump, 1 ea 4' x 3/4" pony rod on top of pump, 146 each 3/4" rods, spaced out with 1 ea 8', 6', 4', & 2' x 3/4" OD pony rods & 1 ea 1-1/4" OD x 22' polished rod Set pump in F-Nipple at 3733' MD RKB