

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, 20001a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____2. Name of Operator
ConocoPhillips Co.3. Address
P.O. Box 2197, WL3-6085 Houston Tx 772523.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 R5W NWSE 1525FSL 1825FEL

At top prod. interval reported below

At total depth

14. Date Spudded
01/19/200515. Date T.D. Reached
01/25/200516. Date Completed
☐ D & A ☒ Ready to Prod.
09/09/200518. Total Depth: MD 8032
TVD19. Plug Back T.D.: MD 7963
TVD20. Depth Bridge Plug Set: MD
TVD21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)
CBL; GR/CCL/VDL22. 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	229		150		0	
8.75	7	20	0	3853		640		0	
6.25	4.5	11.6	0	7964		465		5760	

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	7873.33							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Basin Dakota	7872	7909	7872' - 7909'	.34	78	Open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7872' - 7909'	Frac'd w/ Slickwater @ 1.25g/mg FR; 35,000# 20/40 Carbolite sand & 3541 bbls fluid

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
9/9/05	9/8/05	24	→	0	299	2			Flows from Well
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/2	30	500	→					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
			→						BY <u>JD</u>
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 reverse side)

5. Lease Serial No.
NMNM011350

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

NMNM 78415B

8. Lease Name and Well No.

San Juan 29-5 Unit 5M

9. API Well No.

30-039-27866

10. Field and Pool, or Exploratory

Blanco Mesaverde/Basin Dakota

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

Survey or Area Sec 33 T29N R5W

12. County or Parish

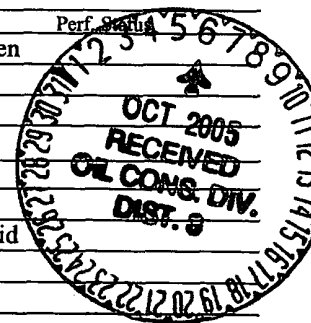
Rio Arriba

13. State

NM

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

6619' GL



ACCEPTED FOR RECORD

OCT 04 2005

FARMINGTON FIELD OFFICE

NMCD

NMCD

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	1411
				Kirtland	2790
				Fruitland	3302
				Pictured Cliff	3557
				Chacra Otero	4536
				Cliffhouse TS	5271
				Menefee	5436
				Pt. Lookout	5732
				Gallup	6996
				Greenhorn	7699
				Cubero	7884

32. Additional remarks (include plugging procedure):

New downhole commingled well producing from the Blanco Mesaverde and Basin Dakota. Wellbore schematic and Daily Summary report is attached.

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) Christina GustartisTitle Regulatory SpecialistSignature Chris GustartisDate 09/21/2005

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.

Initial Completion, 04/18/2005 07:00

API/Bottom UWI	County	State/Province	Surface Legal Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
300392786600	RIO ARRIBA	New Mexico	NMPM-29N-05W-33-J	1,525.00	S	1,825.00	E
Ground Elevation (ft)		Latitude (DMS)		Longitude (DMS)		Spud Date	
6,619.00		36° 40' 44.508" N		107° 21' 33.876" W		01/19/2005	
						Rig Release Date	
						01/25/2005	

04/18/2005 00:00 - 04/18/2005 00:00
Last 24hr Summary

Held safety meeting. RU Computalog. Perforated the Dakota. RIH W/ 3 1/8" 120 degree pp Select fire perforating gun. Perforated from 7872' - 7876' W/ 3 SPF, 7887' - 7909' W/ SPF. A total of 78 holes @ 0.34 DIA. RD Computalog. RU Schlumberger & Isolation tool. Fac'd the Dakota. Tested lines to 7700 #. Set pop off @ 6000 #. Broke down formation @ 5 bpm @ 1879 #. Pump pre pad @ 40 bpm @ 3015 #. Stepped down rate to 35 bpm @ 2632 #. Stepped down rate to 25 bpm @ 2223 #. Stepped down rate to 15 bpm @ 1883 #. Stepped down rate to 10 bpm @ 1772 #. ISIP 1567 #. 5 min 1122 #. 10 min 901 #. 15 min 703 #. 20 min 580 #. 25 min 457 #. 30 min 363 #. Pumped 1000 gals of 15% HCL acid @ 6 bpm @ 1493 #. Frac'd the Dakota w/slickwater @ 1.25 g/mg FR, 35,000 # 20/40 Carbolite sand & 3541 bbls fluid. Avg rate 53 bpm. Avg pressure 4090 #. Max pressure 4620 #. Max sand cons .40 # per gal. ISIP 2611 #. Frac gradient .66. SWI. RD Schlumberger & isolation tool.

04/28/2005 07:00 - 04/28/2005 17:00
Last 24hr Summary

SICP- 1800 Psi

Bradenhead- 30 Psi

Hold PJSA meeting with crew. Talked about conducting safe rig move, rig up operation. Talked about hazards of planned operations, and how to avoid those hazards. Talked about muddy road conditions. Outlined safety topics related to planned operations.

Warm up, chain up Key rig #11. Road rig off lease to main road. Remove tire chains.

Road rig to S.J. 29-5 #5M location. Spot rig on wellsite. Start rigging up unit and all equipment. Move air package equipment to secure location. Conduct rig inspection. Rig up floor assembly.

Secured lease. Shutdown operations for the day.

04/29/2005 07:00 - 04/29/2005 17:45
Last 24hr Summary

SICP- 1800 Psi

Crew held PJSA meeting on location. Talked about conducting safe job operations.

Rig up floor and flowback line. Rig up Computalog unit and tools.

Start into well with 4 1/2" composite bridge plug. Correlate with marker joints at 5,104' and 7,610'. Set plug at 7,280'. Plug set in well, bleed down well pressure.

Start loading up well with rig pump. Had to pump 70 bbls of 2% kcl water to load. Let entrapped air bleed from well. Tested casing to 3,000 Psi. Tested good.

Start into well with squeeze perforation gun. Correlated off marker joint at 5,104' and bridge plug. Shoot squeeze holes at 7,230'. Trip perforating gun out of the well.

Establish injection rate into perforations. Broke down perforations at 2,400 Psi, continued pumping into the well, 1/2 Bpm at 2,250 Psi was the rate established with the rig pump. No circulation or gas flow was seen from 7"- 4 1/2" annulus.

Rig down and release Computalog wireline unit. Bleed down well. Install tubing hanger with BPV. Install into wellhead, secured lockdown pins. Nipple down Frac valve and spool assembly. Nipple up BOP assembly. Pressure test BOP blind and pipe rams with a low (250 Psi- 10 min.) and a high (2,000 Psi- 30 min.) test. Tests were successful.

Rig up floor assembly. Secured well and lease. Shutdown operations for the day.

05/02/2005 07:00 - 05/02/2005 16:00

Last 24hr Summary

SICP- 0 Psi

Bradenhead- 0 Psi

Hold PJSA meeting with crews. Talked about conducting safe operations for the day. Outlined planned job operations, possible hazards, and how to avoid hazards associated with operations.

Open well to flowback line. Well dead, no pressure. Start into well with Baker squeeze packer. Trip in with 221 joints of 2 3/8" tubing. Set packer in casing at 6,950'.

Rig up Schlumberger cementing crew. Tested cement lines to 4,000 Psi. Tested good. Load casing/tubing annulus with 10 bbls of 2% kcl water. Put 500 Psi on casing/tubing annulus with rig pump.

Established injection rate down tubing with 20 bbls of 2% kcl water (2.5 Bpm at 2,650 Psi). Shutdown injection rate. Had a ISDP of 1,750 Psi. No gas or fluid flow was seen from 4 1/2" - 7" annulus. Repeated injection rate with the same results produced. Talked with production engineer (Lucas Bazan). Decision made to pump just the tail cement blend (50 sks Class "G" cement w/additives).

Start with 10 bbls of 2% kcl water, followed with 5 bbls of fresh water spacer. Cemented with 50 sacks (10 bbls) of Class "G" cement with additives at 15.8 ppg, 1.16 cu.ft yield. Average cementing rate was 2.3 Bpm at 2,650 Psi. Pumped 10 bbls of cement slurry. Shutdown, washed pumps and lines. Start displacement with

2% kcl water. Average displacement rate was 1.5 Bpm at 2,000 Psi. Pumped 30 bbls of displacement. Hesitated displacement on last 2 bbls. Shutdown and shut in well. Had 1970 Psi shut in on tubing. No gas or fluid flow was seen from 4 1/2" - 7" annulus during the job.

Rig down Schlumberger cementing crew and released.

Secured well and lease. Shutdown operations for the day.

05/03/2005 06:00 - 05/03/2005 17:30

Last 24hr Summary

SITP- 150 Psi

SICP- 300 Psi

Hold PJSA meeting with crew. Talked about conducting safe job operations. Outlined safety topics related to planned job operations. Bleed down tubing and casing pressures. Unset Baker packer. Trip 2 3/8" tubing out of the well. Out of well with packer, nipple down packer assembly. Nipple up BHA. Install new stripping rubber. Start into well with 1- 3.875" x .30' Mill tooth bit, 1- 1.81" x 2 3/8" bit sub, 2 3/8" tubing from derrick. Tag cement at 7,085'. Rig up power swivel assembly. Start reverse circulation with rig pump. Start drilling out cement. Drilled to 7,130'. Continued with circulation until returns were cleaned. Shutdown rig pump. Pull tubing to 7,090'. Installed TIW valve, closed pipe rams. Secured lease. Shutdown operations for the day.

05/04/2005 06:00 - 05/04/2005 17:30

Last 24hr Summary

SITP- 0 Psi

SICP- 0 Psi

Hold PJSA meeting with crew. Talked about conducting safe job operations. Outlined safety topics related to planned operations. Rig up power swivel to tubing. Establish circulation with rig pump, circulate down to 7,130'. Start drilling on cement. Went thru cement at 7,255'. Cleaned out to 7,280' (bridge plug). Circulated until returns were clean. Shutdown circulation, rig down power swivel assembly. Trip out of well with 2 3/8" tubing and bit assembly. Load well with 12 bbls of 2% kcl water. Pressure tested casing to 3,000 Psi. Tested good. Rig up Computalog unit and perforating tools. Start into well with perforating gun. Correlate off of marker joint at 5,104' and casing collars. Shot 3 - .38" diameter squeeze holes at 6,300'. Trip perforating gun out of the well.

Load well and establish injection rate into perforations. Broke down perforations at 2,250 Psi, continued pumping into the well, 3/4 Bpm at 1,800 Psi was the rate established with the rig pump. No circulation or gas flow was seen from 7"- 4 1/2" annulus. Shutdown injection rate. ISDP- 1,400 Psi, 5-Min. 500 Psi. 10- Min. 350 Psi. 15- Min. 100 Psi. Rig down and release Computalog wireline unit. Secured well, and lease. Shutdown operations for the day.

05/05/2005 07:00 - 05/05/2005 17:30

Last 24hr Summary

SITP- 0 Psi SICP- 0 Psi

Hold PJSA meeting with crew. Talked about conducting safe job operations. Outlined safety topics related to planned operations. Rig up Baker squeeze packer. Install new stripping rubber. Start into well with Baker squeeze packer and 2 3/8" tubing from derrick. Set packer in casing at 6,037'. Load casing/tubing annulus with 2 bbls of 2% kcl water. Put 500 Psi on casing/tubing annulus with rig pump. Rig up Schlumberger cementing crew. Tested cement lines to 4,000 Psi. Tested good.

Established injection rate down tubing with 20 bbls of 2% kcl water (3.7 Bpm at 2,490 Psi). Shutdown injection rate. Had a ISDP of 800 Psi. No gas or fluid flow was seen from 4 1/2" - 7" annulus. Repeated injection rate with the same results produced. Talked with production engineer (Lucas Bazan). Decision made to pump a lead blend of 180 sks of Lite Crete cement w/additives and a tail blend of 50 sks Class "G" cement w/additives. Start with 10 bbls of 2% kcl water, followed with 5 bbls of fresh water spacer. Cemented with 180 sks (81 bbls) of Lite Crete cement with additives at 9.5 ppg, 2.52 cu.ft yield. Followed with 50 sacks (10 bbls) of Class "G" cement with additives at 15.8 ppg, 1.16 cu.ft yield. Average cementing rate was 2.5 Bpm at 1,650 Psi. Added CemNET at 1#/bbl during last 50 bbls of cement slurry. Pumped 96 bbls of cement slurry.

Shutdown, washed pumps and lines. Start displacement with 2% kcl water. Average displacement rate was 2.25 Bpm at 1,200 Psi. Pumped 26.5 bbls of displacement. Hesitated displacement on last 2 bbls. Shutdown and shut in well. Had 500 Psi shut in on tubing. No gas or fluid flow was seen from 4 1/2" - 7" annulus during the job. Rig down Schlumberger cementing crew and released.

Secured well and lease. Shutdown operations for the day.

05/06/2005 07:00 - 05/06/2005 17:30

Last 24hr Summary

SITP- 10 Psi SICP- 350 Psi

Crew held PJSA meeting on location. Talked about conducting safe job operations. Talked about possible hazards and how to avoid those hazards. Outlined safety topics related to planned operations. Bleed down tubing/casing pressures. Unset Baker packer. Trip 2 3/8" tubing and packer out of the well. Out of well with packer, nipple down packer assembly. Nipple up BHA. Install new stripping rubber. Start into well with 1- 3.875" x .30' Mill tooth bit, 1- 1.81' x 2 3/8" bit sub, 2 3/8" tubing from derrick. Tag cement at 6,256'. Rig up power swivel assembly. Start reverse circulation with rig pump. Start drilling out cement. Went thru cement at 6,350'. Cleaned out to 7,280' (bridge plug). Circulated until returns were clean. Shutdown circulation, rig down power swivel assembly. Trip out of well with 2 3/8" tubing and bit assembly. Close blind rams. Load well with 12 bbls of 2% kcl water. Pressure tested casing to 3,000 Psi. Tested good. Secured well and lease. Shutdown operations for the weekend.

05/09/2005 07:00 - 05/09/2005 16:00

Last 24hr Summary

SICP- 0 Psi

Bradenhead- 0 Psi

Hold PJSA meeting with crews. Talked about conducting safe operations for the day. Outlined planned job operations, possible hazards, and how to avoid hazards associated with operations.

Rig up Blue Jet Wireline unit and tools to run Cement Bond Log. Start into well with CBL. Log well with 1,500 Psi. from 5,100' to 7,280'. Had bond from 5,950' to 6,320' (results from 2nd cement squeeze). Also had bond from 7,088' to 7,240' (results from 1st squeeze). Trip out of well with CBL tools. Evaluate bond log. Start into well with perforating gun. Correlate off of marker joint at 5,104' and casing collars at 5,802', 5,846' and 5,888'. Shot 3 - .38" diameter squeeze holes at 5,840'. Trip perforating gun out of the well. Load well and establish injection rate into perforations. Broke down perforations at 2,050 Psi, continued pumping into the well, 2.0 Bpm at 1,200 Psi was the rate established with the rig pump. No fluid circulation was seen from 7" - 4 1/2" annulus, however there was a gas flow noted. Shutdown injection rate. Well bled down to 0 Psi in under 2 minutes. There was a vacuum noted from the 7" - 4 1/2" annulus. Rig down and release Blue Jet wireline unit. Secured well, and lease. Shutdown operations for the day.

05/10/2005 07:00 - 05/10/2005 15:00

Last 24hr Summary

SICP- 0 Psi

Bradenhead- 0 Psi

Hold PJSA meeting with crews. Talked about conducting safe operations for the day. Outlined planned job operations, possible hazards, and how to avoid hazards associated with operations.

Open well to flowback line. Well dead, no pressure. Rig up Baker squeeze packer. Install new stripping rubber. Start into well with Baker squeeze packer and 2 3/8" tubing from derrick. Set packer in casing at 5,565'.

Load casing/tubing annulus with 16 bbls of 2% kcl water. Put 500 Psi on casing/tubing annulus with rig pump.

Rig up Schlumberger cementing crew. Tested cement lines to 4,000 Psi. Tested good. Established injection rate down tubing with 15 bbls of 2% kcl water (2.0 Bpm at 1,400 Psi). Shutdown injection rate. Pressure went to 0 Psi. in 2 minutes. Gas flow was seen from 4 1/2" - 7" annulus.

Start with 20 bbls of gel spacer with 2#/bbl CemNET, follow with 5 bbls of fresh water spacer. Cemented with 180 sks (81 bbls) of Lite Crete cement with additives at 9.5 ppg, 2.52 cu.ft yield. Followed with 50 sacks (10 bbls) of Class "G" cement with additives at 15.8 ppg, 1.16 cu.ft yield. Average cementing rate was 2.0 Bpm at 1,200 Psi. Added CemNET at 1#/bbl with lead cement slurry. Pumped 94 bbls of cement slurry. Shutdown, washed pumps and lines. Start displacement with 2% kcl water. Average displacement rate was 2.0 Bpm at 500 Psi. Pumped 24 bbls of displacement. Hesitated displacement on last 1.5 bbls. Shutdown and shut in well.

Had 0 Psi shut in on tubing. Had gas flow from 4 1/2" - 7" annulus during the job, however no fluid was seen. Rig down Schlumberger cementing crew and released.

Secured well and lease. Shutdown operations for the day.

05/11/2005 07:00 - 05/11/2005 17:30

Last 24hr Summary

SITP- 0 Psi SICP- 450 Psi

Crew held PJSA meeting on location. Talked about conducting safe job operations. Talked about possible hazards and how to avoid those hazards.

Outlined safety topics related to planned operations. Bleed down casing pressure. Unset Baker packer. Trip 2 3/8" tubing and packer out of the well. Out of well with packer, nipple down packer assembly. Nipple up BHA. Install new stripping rubber. Start into well with 1- 3.875" x .30' Mill tooth bit, 1- 1.81' x 2 3/8" bit sub, 2 3/8" tubing from derrick. Tag cement at 5,750'. Rig up power swivel assembly. Start reverse circulation with rig pump. Start drilling out cement. Went thru cement at 5,850'. Cleaned out to 7,280' (bridge plug). Circulated until returns were clean. Shutdown circulation, rig down power swivel assembly.

Trip out of well with 2 3/8" tubing and bit assembly. Close blind rams. Load well with 12 bbls of 2% kcl water. Pressure tested casing to 3,000 Psi. Tested good. Secured well and lease. Shutdown operations for the day.

05/12/2005 07:00 - 05/12/2005 11:00

Last 24hr Summary

SICP- 0 Psi

Bradenhead- 0 Psi

Hold PJSA meeting with crews. Talked about conducting safe operations for the day. Outlined planned job operations, possible hazards, and how to avoid hazards associated with operations. Rig up Blue Jet Wireline unit and tools to run Cement Bond Log. Start into well with CBL. Log well with 1,500 Psi. from 5,075' to 6,450'. Estimated the top of cement at 5,760'. Trip out of well with CBL tools. Evaluate bond log. Will send bond log to engineer (Lucas Bazan) for further evaluation.

Rig down and released Blue Jet Wireline unit and tools. Secured well and lease. Shutdown operations for the day.

05/13/2005 07:00 - 05/13/2005 15:00

Last 24hr Summary

SICP- 0 Psi

Bradenhead- 0 Psi

Hold PJSA meeting with crews. Talked about conducting safe operations for the day. Outlined planned job operations, possible hazards, and how to avoid hazards associated with operations.

Rig up Blue Jet Wireline to perforate squeeze holes. Start into well with perforating gun. Correlate off of marker joint at 5,104' and casing collars. Shot 3 - .38" diameter squeeze holes at 5,694'. Trip perforating gun out of the well. Load well, establish injection rate with rig pump. Broke down perforations at 1,350 Psi, continued pumping into the well, 2.0 Bpm at 1,275 Psi was the rate established. No fluid circulation was seen from 7"- 4 1/2" annulus, however there was a slight gas flow. Shutdown injection rate. Well bled down to 0 Psi in 10 minutes. Rig down, release Blue Jet wireline. Rig up Baker packer. Start into well with squeeze packer and 2 3/8" tubing from derrick. Set packer in casing at 5,376'. Load casing/tubing annulus with 3 bbls of 2% kcl water. Put 500 Psi on annulus with rig pump. Rig up Schlumberger cement crew. Test lines to 4,000 Psi. Tested good. Established injection rate down tubing with 20 bbls of 2% kcl water (2.0 Bpm at 1,400 Psi). Shutdown injection rate. Had a ISDP of 700 Psi. Start with 5 bbls of 2% kcl water, followed with 5 bbls of fresh water spacer. Cemented with 100 sacks (25 bbls) of 50/50/3% Gel cement with additives at 13.0 ppg, 1.45 cu.ft yield. Added 1#/bbl CemNET with slurry. Average cementing rate was 1.5 Bpm at 1,350 Psi. Pumped 23 bbls of cement slurry. Shutdown, washed pumps and lines. Start displacement with 2% kcl water. Average displacement rate was 1.5 Bpm at 1,500 Psi. Pumped 24 bbls of displacement. Hesitated displacement on last 2 bbls. Shutdown, shut in well. Had 1,575 Psi shut in on tubing. Rig down Schlumberger cementing crew and released. Secured well and lease. Shutdown operations for the day.

05/16/2005 07:00 - 05/16/2005 18:00

Last 24hr Summary

SITP- 0 Psi SICP- 650 Psi

Crew held PJSA meeting on location. Talked about conducting safe job operations. Talked about possible hazards and how to avoid those hazards. Outlined safety topics related to planned operations. Bleed down casing pressure. Unset Baker packer. Trip 2 3/8" tubing and packer out of the well. Out of well with packer, nipple down packer assembly. Nipple up BHA. Install new stripping rubber. Start into well with 1- 3.875" x .30' Mill tooth bit, 1- 1.81' x 2 3/8" bit sub, 2 3/8" tubing from derrick. Tag cement at 5,515'. Rig up power swivel assembly. Start reverse circulation with rig pump. Start drilling out cement. Went thru cement at 5,705'. Cleaned out to 6,150'. Circulated until returns were clean. Shutdown circulation, rig down power swivel assembly. Trip out of well with 2 3/8" tubing and bit assembly. Close blind rams. Load well with 10 bbls of 2% kcl water. Pressure tested casing to 3,000 Psi. Tested good. Secured well and lease. Shutdown operations for the day.

05/17/2005 07:15 - 05/17/2005 18:15

Last 24hr Summary

SICP- 0 Psi

Bradenhead- 0 Psi

Hold PJSA meeting with crews. Talked about conducting safe operations for the day. Outlined planned job operations, possible hazards, and how to avoid hazards associated with operations.

Rig up Blue Jet Wireline unit and tools to run Cement Bond Log. Start into well with CBL. Log well with 1,500 Psi. from 5,090' to 5,790'. Estimated the top of cement at 5,630'. Trip out of well with CBL tools. Will send bond log to engineer (Lucas Bazan) for further evaluation. Rig down and released Blue Jet Wireline unit and tools. Trip 7,220' of 2 3/8" tubing from derrick into well to start laying down. Trip 7,220 of 2 3/8" tubing out of well, laying down on tubing trailer. Install bull-plugged tubing hanger into wellhead. Secured lockdown pins. Nipple down BOP assembly. Nipple up Frac valve and spool assembly. Removed bull-plugged tubing hanger assembly. Close in all valves on wellhead. Well secured. Start rigging down unit. Location secured. Will move unit off location on 5-18-05. Shutdown operations for the day.

05/23/2005 14:00 - 05/23/2005 18:00

Last 24hr Summary

RU Computalog. RIH w/ 4 1/2" composite plug. Set plug @ 5912'. Tested plug to 4800 #. Held ok. Perforated the Mesaverde w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 5736' - 5745' w/ 2 spf, 5760' - 5769' w/ 2 spf, 5780' - 5783' w/ 2 spf, 5796' - 5804' w/ 2 spf, 5810' - 5812' w 2 spf. A total of 62 holes w/ 0.34 dia. RD Computalog

05/24/2005 06:00 - 05/24/2005 13:00

Last 24hr Summary

Held safety meeting. RU Schlumberger. Frac'd the Point Lookout. Tested lines to 5800 #. Set pop off @ 4300 #. Broke down formation @ 5 bpm @ 2647 #. Pumped pre pad @ 31 bpm @ 0 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 5 bpm @ 0 #. Frac'd the Point Lookout w/ 65 Q slick foam w/ 1 g/mg FR, 125,000 # 20/40 Brady sand, Treated the last 15% of proppant volume with propnet for proppant flowback control, 1,519,300 SCF N2 & 1535 bbls fluid. Avg rate 50 bpm. Avg pressure 2387 #. Max pressure 2549 #. Max sand cons 1.50 # per gal. ISIP 1650 #. Frac gradient .44. Tagged well w/ 3 isotope. tagged pad w/ Scandium. Tagged the 0.5# & 1.50 # sand w/ Iridium. Tagged the 1.50 # PN w/ Antimony. SWI. RD Schlumberger.

06/13/2005 07:00 - 06/13/2005 17:00

Last 24hr Summary

SICP= 580#.

PJSM w/ crews, Discussed days events and ways to prevent incident. Filled out and reviewed JSA. RU rig equipment. BWD to 200#. Kill csg w/ 20 bbl 2% KCL. Set hanger. ND frac stack, NU BOPE. RU blooie line and 2" flow line. RU air unit and manifold. Place all concrete blocks. Load BOP w/ water. Test blind rams to 250# and will not hold. Open doors and remove ram blocks. Replace blind ram rubbers. Re-test blind rams @ 250# low and 3000# high. Repeat test for pipe rams. Test was good. RU floor and tbgs. tools. BWD, kill csg w/ 10 bbl kcl. Attempt to Pooh w/ hager. Rubber rolled on hanger and stuck hanger in bop. Work hanger free. Pooh w/ hanger. MU and Tih w/ 1/2 MS collar, 1.81" FN and 100 jts 2 3/8" tbgs. Secure well SDFN.

06/14/2005 07:00 - 06/14/2005 18:30

Last 24hr Summary

SICP= 300#

PJSM w/ crews, Discussed days events and ways to prevent incident. Filled out and reviewed JSA. BWD, Continue to RIH and tag fill @ 7707' on jt # 182. Break circulation w/ air. Unload hole. C/O fill from 7707' to CBP @ 5909'. Circulate clean. Pooh w/ 29 jts to 5023'. PJSM w/ logging crews. RU H&H wireline. MU and Rih w/ Protechnics Spectra Scan tools. Pull tracer log thru PLO. Pooh. RD service companys. BWD, Pooh w/ 100 jts 2 3/8" tbgs. Secure well SDFN.

06/15/2005 07:00 - 06/15/2005 20:00

Last 24hr Summary

SICP 530#.

PJSM w/ crews, Discussed days events and ways to prevent incident. Filled out and reviewed JSA. BWD, Continue to Tooh w/ 60 Jts. 2 3/8" tbgs and stand back. Wait for Computalog perforating unit. PJSM w/ Computalog, and rig crew. RU Wireline unit. MU and Rih w/ 4" halliburton CBP. Correlate w/ Bluejet CBL/GR/CCL log & marker jt @ 5104' to get on depth. Set CBP @ 5700'. Pooh w/ setting tool. Load hole w/ 80 bbl 2% kcl. Pressure test CBP to 2000#. BWD, MU and Rih w/ 3 1/8" SF squeeze gun w/ 12g 306T charges and shoot 4 squeeze holes @ 5350'. Pooh w/ wireline. Load csg w/ 10 bbl 2% kcl. Start injection rate @ 3.5 bpm and 0#. 40 BBL pumped caught pressure @ 500#. Pumped a total of 140 bbl @ 3.5 bpm and pressure down to 220#. Did not see returns to surface but did get slight blow on intermediate csg. Contacted Engineering and decided to pump 50/50 cmt slurry and try to bring cmt into 7" overlap. RD service companys. Secure well SDFN.

06/16/2005 07:00 - 06/16/2005 18:00

Last 24hr Summary

SICP= 0#.

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. MU and Rih w/ Baker 4" retainer on 2 3/8" tbgs and set @ 5279'. Load tbgs and test to 2000#. Bwd, Load 4.5"x 2 3/8" annulus. Pressure up to 500#. Left Message w/ C.perrin w/ NMOCD @ 9:40 am & J.Lovato w/ BLM @ 9:50 am to notify for sqz job. Wait for SLB cement crew. PJSM w/ SLB, Dawn, Baker and rig crew. RU cmt equipment. Pressure test lines to 3000#. Pump 100 bbl 2% kcl w/ dye to try and circulate @ 2.5 BPM and 860#. No circulation. Contacted Engineering and decided to continue w/ designed job. Pumped 10 bbl Gel spacer, 10 bbl kcl spacer, 10 bbl gel spacer w/ cemnet, 5 bbl fresh H2O spacer. Pumped 44.9 bbl Litecrete lead w/ cemnet and additives @ 9.5 ppg 2.5 bpm & 890#, SLB had trouble w/ pump and SD for 5 min. Pumped 31.7 bbl 50/50 pos tail w/ additives @ 13.5 ppg @ 2.5 bpm & 100#. SD washed pump and lines. Displaced w/ 19.8 bbl @ 2.0 bpm and pressure climbed to 1000# @ end of displacement. ISDP= 690#. 5 min = 540#. Stung out of retainer. Leaving 1/2 bbl cmt on retainer. RD SLB. Tooh w/ 168 jts 2 3/8" tbgs. Secure well SDFN.

06/17/2005 07:00 - 06/18/2005 18:00

Last 24hr Summary

SICP= 0#

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. Tih w/ 3 7/8" roller cone bit, bit sub and 2 3/8" tbgs. Slip grip elevators broke. Wait for new ones to be delivered. Continue to tih and tag cmt @ 5247'. Ru power swivel. Drill out cmt and retainer w/ air mist to CBP @ 5700'. Circulate debris clean. Ran sweep to clean hole. Pooh w/ 10 jts. Secure well and SDFN.

06/20/2005 07:00 - 06/21/2005 18:00

Last 24hr Summary

SICP=0#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. Tooh standing back w/ 180 jts 2 3/8" tbgs. Load csg w/ 10 bbl 2% kcl. Wait for Computalog wireline unit. PJSM w/ wireline. RU Computalog. MU and RIH w/ VDL/GR/CCL logging tools. Correlate w/ Blue jet CBL date 5/17/05 and marker jt @ 5104'. Log from 5700' to surface w/ 1000# on 4.5" csg. TOC @ 700'. POOH w/ tools. TIH w/ 90 jts 2 3/8" tbgs. Prep to Pooh and LD tbgs. Secure well SDFN.

06/21/2005 07:00 - 06/22/2005 12:15

Last 24hr Summary

SICP= 0#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. TIH w/ 96 jts 2 3/8" tbgs. Pooh and LD 186 jts on float. RD Blooie line. ND BOPE, NU Tbg. Master valve. RD equipment and unit. Load out equipment. MO LOC to allow for rigless frac for MEN/CH formations. .

07/03/2005 08:00 - 07/03/2005 12:00

Last 24hr Summary

Held safety meeting. RU Computalog. Perforated the Chliffhouse w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 5418' - 5424' w/ 4 spf. A total of 24 holes w/ 0.34 dia. SWI. RD Computalog

07/05/2005 07:00 - 07/05/2005 15:00

Last 24hr Summary

Held safety meeting. RU Schlumberger. Frac'd the Cliffhouse. Tested lines to 5800 #. Set pop off @ 4300 #. Broke down formation @ 4 bpm @ 1450 #. Pumped pre pad @ 30 bpm @ 1104 #. Stepped down rate to 25 bpm @ 633 #. Stepped down rate to 20 bpm @ 543 #. Stepped down rate to 15 bpm @ 302 #. Stepped down rate to 10 bpm @ 0 #. ISIP 0 #. Pumped 3000 gals of 15% HCL acid @ 10 bpm @ 70 #. Frac'd the Cliffhouse w/ 60 Q slick foam w/ 1 g/mg FR, 100,000 # 20/40 Brady sand, Treated the last 15% of proppant volume with propnet for proppant flowback control, 1,409,100 SCF N2 & 1456 bbls fluid. Avg rate 55 bpm. Avg pressure 3158 #. Max pressure 3437 #. Max sand cons 1.50 # per gal. ISIP 2155 #. Frac gradient .44. Tagged well w/ 3 isotope. tagged pad w/ Scandium. Tagged the 0.5# & 1.50 # sand w/ Iridium. Tagged the 1.50 # PN w/ Antimony. SWI. RD Schlumberger. Started flowback.

08/25/2005 07:15 - 08/25/2005 17:45

Last 24hr Summary

SICP- 750 Psi
Bradenhead Psi- 0 Psi

Hold PJSA meeting with crews. Talked about conducting safe rig move, rig up operations. Talked about testing BOP, and other operations. Outlined safety topics related to planned operations.

Move on location with completion unit and all associated equipment. Spot and rig up unit, and all equipment. Spot tubing trailer onto location. Start rigging up equipment.

Kill casing with 30 bbls of 2% kcl water. Installed test hanger assembly. Nipple down Frac valve, spool assembly. Nipple up BOP assembly.

Pressure test BOP blind and pipe rams with a low (250 Psi- 10 min.) and a high (2,500 Psi- 30 min.) test. Tests were successful.

Secured well and lease. Shutdown operations for the day.

08/26/2005 07:15 - 08/26/2005 17:45

Last 24hr Summary

SICP- 750 Psi
Bradenhead- 0 Psi

Crew held PJSA meeting on location. Talked about conducting safe job operations. Talked about hazards of planned operations, and how to avoid those hazards. Outlined safety topics related to planned operations. Rig up line to casing valve on well. Open well and let well bleed down thru 1/2" choke assembly. Rig up floor assembly. Rig up blooie line tee onto BOP assembly. Rig up Blooie line assembly and set concrete anchors with L & R crew. Had to rework dirt in burn pit area so returns will not drain onto location. Well flowing back kill water thru flowback line. Kill well with 30 bbls of 2% kcl water. Remove testing hanger assembly. Nipple up milling assembly. Install new stripping rubber. Start into well with 1- 3.875" O.D. x 2.68' Three Bladed Mill, 1- 2 3/8" x 1.81' Bit sub, 1- 2 3/8" x 1.80' string float, 2 3/8" tubing tallied and picked up from tubing trailer. Tagged fill or bridge at 5,460'. Rig up air unit to tubing. Pressure test air lines to 1,400 Psi. Tested good. Start air unit at 1,200 CFM with 5 BPH foam/mist. Well unloaded about 20 bbls of foam and fluid, then made mist and light sand returns. Cleaned out to bridge plug at 5,700'. Continued with air/mist until returns were clean. Shutdown air unit, rig down off tubing. Tripped tubing above Mesa Verde perms to 5,400'. Installed TIW valve, closed and locked pipe rams. Secured lease. Shutdown operations for the weekend.

08/29/2005 07:15 - 08/29/2005 17:30

Last 24hr Summary

SICP- 700 Psi

Bradenhead Psi- 0 Psi

Hold PJSA meeting on location. Talked about conducting safe job operations. Talked about upcoming drilling, cleanout operations. Outlined safety topics related to planned operations.

Blowdown well into flowback pit. Trip into well with tubing, mill assembly. Tagged fill at 5,698' (2' of fill on 1st bridge plug).

Rig up air unit, power swivel assembly. Start air at 1,200 CFM with 5 BPH foam/mist. Cleaned out to the plug at 5,700'. Well, blooie line returns were good. Well made light fluid, light sand. Increased mist to 8 BPH to mill thru plug. Noticed no increase in blooie line returns when plug was drilled.

Continued with air/mist until returns were clean. Cleaned out to 5,720'.

Shutdown air unit, rig down power swivel assembly. Trip into well to tag fill. Tagged fill or bridge at 5,880' (32' on 2nd bridge plug at 5,912').

Rig up air unit, power swivel assembly to tubing. Start air unit at 1,200 CFM with 5 BPH foam/mist. Cleaned out to 5,910'. Well made light frac sand, fluid returns. Continued to circulate with air/mist at 5,910' until returns were clean.

Shutdown air unit. Rig down power swivel assembly. Start tripping 2 3/8" tubing, mill assembly out of the well. Kill well with 30 bbls of 2% kcl water to trip out last 10 stands. Out of well with tubing, nipple down milling assembly. Nipple up BHA. Install stripping rubber.

Start into well with 1- .92' x 2 3/8" Mule shoe, 1- .85' x 1.81" I.D. x 2 3/8" F-Nipple with Baker plug, tubing from derrick. Tripped tubing to 5,304'. Installed TIW valve onto tubing.

Rig up H & H Slickline unit. Pump 4 bbls of 2% kcl water down tubing. Run in with slickline to pull Baker plug from F-Nipple. Made a total of 2 runs. 1- with pressure disc puncturing tool, 1- with plug pulling tool. Rig down and released slickline unit.

Secured well and lease. Shutdown operations for the day.

08/30/2005 07:15 - 08/30/2005 17:15

Last 24hr Summary

SICP- 520 Psi

Bradenhead- 0 Psi

Hold PJSA meeting on location. Talked about conducting safe job operations. Talked about upcoming cleanout, testing operations. Talked about hazards of planned operations, and how to avoid those hazards. Outlined safety topics related to planned operations. Blowdown well into flowback pit. Kill tubing with 4 bbls 2% kcl water. Removed TIW valve. Will install string float at 5,740'. Trip into well with tubing and tagged fill 5,908' (2' of fill). Rig up air unit to tubing. Start air unit at 1,200 CFM with 3 BPH foam/mist. Cleaned out to 5,910'. Well made light sand and light fluid returns. Continued with air/mist until returns were clean and reduced. Shutdown air unit, trip 2 3/8" tubing to 5,740' to test Mesa Verde zone. Kill tubing with 4 bbls of 2% kcl water. Removed string float, install TIW valve. Rig up air unit to tubing to unload kill fluid. Start air unit at 1,200 CFM with no foam/mist. Well unloaded kill fluid and light mist returns. Continued with air until returns were reduced. Shutdown air unit, rig down off tubing. Rig up flowback line assembly. Installed new 1/2" choke into flowback line. Flow tested Overall Mesa Verde zone (5,418'- 5,812') up tubing to atmosphere thru choke. (Choke coefficient: 6.6) FTP Avg.- 260 Psi. SICP - 450 Psi. Well started making light mist 30 minutes into test period. Testing indicated Mesa Verde production at 1,716 MCFPD with 3.0- Bbls water per day, 0- Bbls of Oil per day, with no sand returns. Test was witnessed by Sergio Serna (Rig Operator). Test complete, kill tubing with 4 bbls of 2% kcl water. Remove TIW valve, will install string float at 5,304'. Trip 2 3/8" tubing above Mesa Verde perfs to 5,304'. Install string float, TIW valve, close and lock pipe rams. Secured lease. Shutdown operations for the day.

08/31/2005 06:00 - 08/31/2005 18:15

Last 24hr Summary

SICP- 580 Psi

Bradenhead- 0 Psi

Hold PJSA meeting with crew. Talked about conducting safe job operations. Talked about hazards of planned operations, and how to avoid those hazards. Outlined safety topics related to planned operations. Blowdown well into flowback tank. Trip in with tubing to tag fill. Tagged fill at 5,908' (2' on 5,910'). Rig up air unit to tubing. Start air at 1,200 CFM with 3 BPH foam/mist to unload well. Well made light fluid, light frac sand. Cleaned out to 5,910'. Blooie line returns were good. Continued with air/mist until returns were clean. Shutdown air unit. Trip 2 3/8" tubing to 5,303.72'. Kill tubing with 4 bbls of 2% kcl water, remove string float. Install TIW valve. Rig up air to tubing to unload kill fluid. Start air unit at 1,200 CFM with no mist. Well unloaded kill fluid, light mist. Shutdown air unit, rig down off tubing. Install flow testing assembly onto tubing with a new 1/2" choke installed. Rig up slickline unit and tools. Ran in with end of tubing tools. Tagged plug at 5,912', end of tubing at 5,304'. Installed ProTechnics Spectra scan, spinner logging tools onto slickline. Conduct production flow test on the Mesa Verde perfs (5,418'- 5,812') thru the spinner tools up the tubing to atmosphere thru a 1/2" choke at surface (Choke coefficient: 6.6). FTP Avg.- 290 Psi. SICP Avg.- 490 Psi. Also ran a Spectra Scan log over the Upper Mesa Verde (Cliffhouse zone only @ 5,418'- 5,424'). Well testing results will be verified by production engineer (J. Pusch). Finished testing, check tools to verify data was recorded. Trip in with slickline and set Baker plug in F-Nipple at 5,302.80'. Bleed down tubing pressure. Rig down, release slickline unit and tools. Rig down flowback assembly. Close TIW valve, pipe rams. Secured lease. Shutdown operations for the day.

09/01/2005 07:15 - 09/01/2005 18:15

Last 24hr Summary

SICP- 580 Psi

Bradenhead- 0 Psi

Held PJSA meeting with crew. Talked about conducting safe job operations. Talked about hazards of planned operations, and how to avoid those hazards. Outlined safety topics related to planned operations. Blowdown well. Trip 2 3/8" tubing, BHA out of the well. Kill casing with 30 bbls of 2% kcl water to trip out last 10 stands. Nipple down BHA. Nipple up milling assembly. Install new stripping rubber. Start into well with 1- 3.875" O.D. x 2.68' Three Bladed Mill, 1- 2 3/8" x 1.81' Bit sub, 1- 2 3/8" x 1.80' string float, 2 3/8" tubing from the derrick. Tripped tubing to 5,910'. Rig up air, power swivel assembly. Start air at 1,200 CFM with 3 BPH foam/mist. Clean out to the plug at 5,912'. Well, blooie line returns were good. Well made light fluid, light sand. Increase mist to 8 BPH to mill plug. Continue air/mist until returns were clean. Cleaned to 5,935'. Shutdown air unit, rig down power swivel assembly. Trip into well to drill last plug at 7,280'. Tubing at 6,400', rig up air to tubing to unload fluid. Start air unit at 1,200 CFM with 3 BPH foam/mist. Unloaded fluid from well. Shutdown air unit, continue into well to 6,870', rig up air to tubing to unload fluid. Start air unit at 1,200 CFM with 3 BPH foam/mist. Unloaded fluid from well. Shutdown air unit, continue into well with tubing, mill. Tagged fill at 7,190'. Rig up air, power swivel assembly. Start air at 1,200 CFM with 3 BPH foam/mist. Cleaned out to bridge plug at 7,280'. Increased mist to 8 BPH to drill plug. Noticed a good increase in blooie line returns when plug was drilled, well also made light Dakota frac sand, and fluid. Continued with air/mist until returns were reduced. Cleaned out to 7,290'. Shutdown air unit. Pull tubing to 7,260'. Installed TIW valve onto tubing, close and lock pipe rams. Secured lease. Shutdown operations for the day.

09/02/2005 07:15 - 09/02/2005 16:30

Last 24hr Summary

SICP- 600 Psi

Bradenhead Psi- 0 Psi

Crew held PJSA meeting on location. Talked about conducting safe job operations. Talked about upcoming cleanout, tripping operations. Outlined safety topics related to planned operations.

Blowdown well. Rig up air unit, power swivel assembly. Trip in with 1 joint of tubing to 7,290'. Start air at 1,200 CFM with 5 BPH foam/mist. Cleaned out to 7,325'. Well, blooie line returns were good. Well made light fluid, light sand. Continued with air/mist until returns were clean.

Shutdown air unit, rig down power swivel assembly. Trip into well to tag fill. Tagged fill or bridge at 7,890' (63' on PBTD at 7,953').

Rig up air unit, power swivel assembly to tubing. Start air unit at 1,200 CFM with 5 BPH foam/mist. Cleaned and drilled out fill to 7,953'. Well made light frac sand, fluid returns and pieces of the bridge plugs. Continued to circulate with air/mist at 7,950' until returns were clean.

Shutdown air unit. Rig down power swivel assembly. Start tripping 2 3/8" tubing, mill assembly out of the well. Kill well with 30 bbls of 2% kcl water to trip out last 10 stands. Out of well with tubing, nipple down milling assembly.

Close and locked blind rams, casing valves. Secured lease.

Shutdown operations for the holiday weekend.

09/06/2005 06:00 - 09/06/2005 17:30

Last 24hr Summary

SICP- 620 Psi

Bradenhead Psi- 0Psi

Held PJSA meeting with crew. Talked about conducting safe job operations. Outlined safety topics related to planned operations. Blowdown well into flowback pit. Kill well with 30 bbls of 2% kcl water. Nipple up BHA. Install new stripping rubber. Start into well with 1- .92' x 2 3/8" Mule shoe with expendable check, 1- .85' x 1.81" I.D. x 2 3/8" F-Nipple, 2 3/8" tubing from derrick, drifting per COPC policy. Well started unloading kill fluid while tripping in. Tripped tubing to 7,880'. Rig up air unit to tubing to unload fluid from well. Start air at 1,200 CFM with 3 BPH foam/mist. Well unloaded about 5 bbls of foam, fluid. Continued with air/mist until fluid returns were reduced. Shutdown air unit. Rig down air unit, continue into well with tubing. Tagged fill or bridge at 7,935' (18' on 7,953'). Rig up air unit to tubing. Start air at 1,200 CFM with 3 BPH foam/mist. Well unloaded fluid, then made light fluid, mist and light Dakota frac sand. Cleaned out to 7,953'. Blooie line returns were good. Continued with air/mist until returns were clean. Shutdown air unit. Trip 2 3/8" tubing to 7,750.35'. Kill tubing with 4 bbls of 2% kcl water, remove string float. Dropped ball to pump out check assembly. Install TIW valve. Rig up air unit to tubing. Pump off check with 6 bbls of 2% kcl behind ball, follow with air at 1,200 CFM with 3 BPH foam/mist. At 1,000 Psi, shutdown air unit. Test tubing for 15 minutes. Tested good. Resumed air/mist and pumped off check at 1,250 Psi surface. Continued with air/mist to clean up returns. Shutdown air unit, rig down off tubing. Rig up flowback assembly with a 1/2" choke. Flow well up tubing to atmosphere thru choke assembly. Well started making heavy mist 15 minutes into flowing period, no sand was seen. Close TIW valve, pipe rams. Secured lease. Shutdown operations for the day.

09/07/2005 07:15 - 09/07/2005 17:15

Last 24hr Summary

SICP- 580 Psi

Bradenhead Psi- 0Psi

Held PJSA meeting with crew. Talked about conducting safe job operations. Outlined safety topics related to planned operations. Blowdown well into flowback pit. Trip into well with tubing. Tagged fill or bridge at 7,943' (10' on 7,953'). Rig up air unit to tubing. Start air at 1,200 CFM with 3 BPH foam/mist. Well made fluid, mist and light Dakota frac sand. Cleaned out to 7,953'. Blooie line returns were good. Continued with air/mist until returns were clean. Shutdown air unit. Trip 2 3/8" tubing to 7,750.35'. Kill tubing with 4 bbls of 2% kcl water, remove string float, install TIW valve and flowback assembly. Rig up air unit to tubing to unload kill fluid. Start air at 1,200 CFM with no mist. Well unloaded kill fluid. Continued with air to try and dry up fluid returns. Shutdown air unit, rig down off tubing. Rig up flowback assembly with a 1/2" choke. Flow well up tubing to atmosphere thru choke assembly. Well started making heavy mist, fluid 15 minutes into flowing period, no sand was noted. Close TIW valve, pipe rams. Secured lease. Shutdown operations for the day.

09/07/2005 17:15 - 09/08/2005 17:15

Last 24hr Summary

09/08/2005 07:15 - 09/08/2005 16:30

Last 24hr Summary

SICP- 560 Psi SITP- 790 Psi

Bradenhead- 0 Psi

Held PJSA meeting on location. Talked about conducting safe job operations. Talked about upcoming cleanout, testing operations. Talked about hazards of planned operations, and how to avoid those hazards. Outlined safety topics related to planned operations.

Blowdown well. Kill tubing with 5 bbls of 2% kcl water. Removed TIW valve, installed string float. Trip into well to tag fill. Tagged no fill at 7,953'. Rig up air unit to tubing to unload fluid from well.

Start air at 1,200 CFM with 3 BPH foam/mist to unload well. Well unloaded kill fluid. Well then made fluid, mist and light Dakota frac sand. Cut mist and continued with air to try and dry up returns. Well continued to make fluid. Shutdown air unit.

Trip 2 3/8" tubing to 7,750' to test Dakota. Kill tubing with 5 bbls of 2% kcl water, remove string float. Install TIW valve.

Rig up air to tubing to unload kill fluid. Start air at 1,200 CFM with no mist to unload well. Well unloaded kill fluid. Well then made fluid mist. Continued with air to try and dry up returns. Well continued to make fluid. Shutdown air unit.

Rig up flowback line onto tubing with a 1/2" choke. Rig up slickline unit, tools. Ran slickline end of tubing tool to PBTD @ 7,953', end of tubing was at 7,750'. Installed ProTechnics spinner log tool onto slickline.

Flow tested the Dakota perfs (7,872'- 7,909') thru the spinner tools up the tubing to atmosphere thru a 1/2" choke at surface (Choke coefficient: 6.6). SICP Avg.- 500 Psi. FTP Avg.- 30 Psi.

Dakota spinner results will be verified by engineer (J. Pusch). Well was making about +/- 25 gals. fluid per hour during the spinner test.

Finished test, check tools to verify data was recorded. Rig down slickline unit, tools.

Close TIW valve, pipe rams. Secured lease.

Shutdown operations for the day due to lightning strikes and heavy rains in the area.

09/09/2005 06:30 - 09/09/2005 18:30

Last 24hr Summary

FINAL REPORT

SICP- 530 Psi SITP- 780 Psi

Bradenhead- 0 Psi

Held PJSA meeting on location. Talked about conducting safe job operations. Talked about hazards of planned operations, and how to avoid those hazards. Outlined safety topics related to planned operations.

Blowdown well. Kill tubing with 5 bbls of 2% kcl water. Removed TIW valve, installed string float at 7,873'. Trip into well to tag fill. Tagged no fill at 7,953'. Rig up air unit to tubing to unload fluid from well.

Start air at 1,200 CFM with 3 BPH foam/mist to unload well. Well unloaded kill fluid. Well then made fluid, mist and light Dakota frac sand. Continue with air/mist until returns were clean. Well continued to make fluid. Shutdown and rig down air unit.

Laydown 4 joints of tubing to land tubing at 7,873.33' K.B. Kill tubing with 5 bbls of 2% kcl water. Remove string float, install tubing hanger with BPV. Kill casing with 15 bbls of 2% kcl water. Land tubing hanger into wellhead, secured lockdown pins. Tubing landed at 7,873.33' K.B. Top of 1.81" I.D. F-Nipple at 7,871.56' K.B.

Nipple down BOP assembly. Nipple up wellhead assembly. Wood Group tested wellhead seals to 3,000 Psi, removed BPV from hanger.

Rig up air unit to tubing side of wellhead to unload kill fluid from well. Start air at 1,200 CFM with 3 BPH foam/mist. Well unloaded kill fluid. Shutdown air unit, rig down off tubing.

Start rigging down unit and all equipment. Let well flow up casing and then tubing until oxygen content was less than 1%.

Shut well in. Location cleaned and secured. Operations completed.

Dakota spinner log results have been verified by the production engineering group. Dakota production results are as follows: 299- MCFPD, 2.0- Bbls water per day, 0- Bbls oil per day.

Will move rig and associated equipment off location on 9-12-05. Will notify facilities supervisor of completion of services on 9-12-05.

Well Name: San Juan 29-5 #5M
 API #: 30-039-27866
 Location: 1525' FSL & 1825' FEL
Sec. 33 - T29N - R5W
Rio Arriba County, NM
 Elevation: 6619' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Spud: 19-Jan-05
 Spud Time: 3:30
 Date TD Reached: 25-Jan-05
 Release Drl Rig: 27-Jan-05
 Release Time: 3:00

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

☒ New
☐ Used

Surface Casing Date set: 19-Jan-05
 Size 9 5/8 in
 Set at 229 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 229 ft
 TD of 12-1/4" hole 239 ft

Notified BLM @ 16:55 hrs on 17-Jan-05
 Notified NMOCD @ 16:55 hrs on 17-Jan-05

Intermediate Casing Date set: 23-Jan-05
 Size 7 in 90 jts
 Set at 3853 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 150 % Top of Float Collar 3808 ft
 T.O.C. SURFACE Bottom of Casing Shoe 3853 ft
 Pup @ ft TD of 8-3/4" Hole 3857 ft
 Pup @ ft

Notified BLM @ 16:00 hrs on 21-Jan-05
 Notified NMOCD @ 16:00 hrs on 21-Jan-05

Production Casing: Date set: 26-Jan-05
 Size 4 1/2 in 185 jts
 Set at 7964 ft 2 pups
 Wt. 11.6 ppf Grade N-80
 Hole Size 6 1/4 in Conn LTC
 Excess Cmt 50 % Top of Float Collar 7963 ft
 T.O.C. (est) Bottom of Casing Shoe 7964 ft
 Marker Jt @ 5102 ft TD of 6-1/4" Hole 8032 ft
 Marker Jt @ 7607 ft
 Marker Jt @ ft

Notified BLM @ 23:00 hrs on 25-Jan-05
 Notified NMOCD @ 23:00 hrs on 25-Jan-05

Top of Float Collar 7963 ft
 Bottom of Casing Shoe 7964 ft

TD of 6-1/4" Hole: 8032 ft

Surface Cement

Date cmt'd: 19-Jan-05
 Lead : 150 sx Class G Cement
 + 2% 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: 12:30 hrs w/ 330 psi
 Final Circ Press: 90 psi @ 0.5 bpm
 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 9.50 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 23-Jan-05
 Lead : 410 sx Class G Cement
 + 0.25 lb/sx D029 Cellophane Flakes
 + 3% D079 Extender
 + 0.20% D046 Antifoam
 + 10.00 lb/sx Phenoseal
2.72 cuft/sx, 1115.2 cuft slurry at 11.7 ppg
 Tail : 230 sx 50/50 POZ : Class G Cement
 + 0.25 lb/sx D029 Cellophane Flakes
 + 2% D020 Bentonite
 + 1.50 lb/sx D024 Gilsonite Extender
 + 2% S001 Calcium Chloride
 + 0.10% D046 Antifoam
 + 6 lb/sx Phenoseal
1.31 cuft/sx, 301.3 cuft slurry at 13.5 ppg
 Displacement: 154 bbls
 Bumped Plug at: 05:48 hrs w/ 1620 psi
 Final Circ Press: 1111 psi @ 1.7 bpm
 Returns during job: YES
 CMT Returns to surface: 70 bbls
 Floats Held: X Yes No
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)
 W.O.C. for 12.00 hrs (plug bump to test csg)

Production Cement

Date cmt'd: 26-Jan-05
 Cement : 465 sx 50/50 POZ : Class G Cement
 + 0.25 lb/sx D029 Cellophane Flakes
 + 3% D020 Bentonite
 + 1.00 lb/sx D024 Gilsonite 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, 674.3 cuft slurry at 13.0 ppg
 Displacement: 123 bbls
 Bumped Plug: 15:00 hrs w/ 1899 psi
 Final Circ Press: 1450 psi @ 3.4 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
 27-January-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 @ 186'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 219', 144', 102', 59'. Total: 4
7" Intermediate	DISPLACED W/ 154.0 BBLs. DRILL WATER. CENTRALIZERS @ 3843', 3764', 3677', 3591', 3506', 3420', 211', 82', 39'. TURBOLIZERS @ 2777', 2734', 2691'. Total: 9 Total: 3
4-1/2" Prod.	Dusted to TD. POOH with wet DP & DC. RIH w/ casing and casing tagged up at 7995'. Set 4 1/2" @ 7964. Pumped cement and began displacement when pressure shot up, reduced pump rate and continued pumping. Pumped all of displacement, but flare never died down. Probably did not get cement across gaseous zones.