

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 ☐ 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 24 T28N R7W NWSW 2370FSL 225FWL

At top prod. interval reported below

At total depth

14. Date Spudded

12/19/2005

15. Date T.D. Reached

12/28/2005

16. Date Completed

☐ D & A ☒ Ready to Prod.
02/14/200618. Total Depth: MD 7800
TVD19. Plug Back T.D.: MD 7795
TVD20. Depth Bridge Plug Set: MD
TVD21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)
CBL; TDT; GR/CCL22. 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	3704		625		0	
6.25	4.5 N-80	11.6	0	7797		455		2520	

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	7560							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Basin Dakota	7561	7733	7561' - 7733'	.34	78	Open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7561' - 7733'	Frac'd w/ Slickwater @ 1.25g/mg FR; 35,000# 20/40 Carbolite Sand & 3498 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
2/14/06	2/13/06	24	→	0	860	7.2			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	SI 360	620	→					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	
	SI		→						

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

5. Lease Serial No.
NMSF079290

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

NMM 78413R

8. Lease Name and Well No.

San Juan 28-7 Unit 259G

9. API Well No.

30-039-27290

10. Field and Pool, or Exploratory

Blanco Mesaverde/Basin Dakota

11. Sec., T., R., M., on Block and Survey or Area Sec 24 T28N R7W

12. County or Parish 13. State
Rio Arriba NM

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

6582 GL

ACCEPTED FOR RECORD

MAR 02 2006

FARMINGTON FIELD OFFICE
BY

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	1115.1
				Ojo Alamo	2330.4
				Kirtland	2510.9
				TJG Fruitland	2706.3
				Pictured Cliff	3289.4
				Cliffhouse	4946.0
				Pt. Lookout	5471.6
				Gallup	6754.4
				Greenhorn	7448.1
				PGTE	7643.5
				Lower Cubero	7706.4

32. Additional remarks (include plugging procedure):

New downhole commingled well producing from the Blanco Mesaverde and Basin Dakota. Daily summary report and Wellbore Schematic are attached. Surface casing tested on 12/19/05. Pressure held @ 1000psi for 30 minutes. Intermediate casing tested on 12/23/05. Pressure held @ 1800psi for 30 minutes.

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 GustartisTitle Regulatory Specialist

Signature

Chris GustartisDate 02/27/2006

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, 1/6/2006 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
300392729000	Rio Arriba	NEW MEXICO	NMPM-28N-07W-24-L	2,370.00	S	225.00	W
Ground Elevation (ft)	Latitude (DMS)	Longitude (DMS)	Spud Date	Rig Release Date			
6,582.00	36° 38' 45.78" N	107° 31' 57" W	12/19/2005	12/29/2005			

1/6/2006 07:00 - 1/6/2006 15:00

Last 24hr Summary

Held safety meeting. RU Schlumberger. Pressured up on 4 1/2" CSG to 1500 #. Ran CBL log from 7768' to 2090'. Top of cement @ 2520'. Ran TDT log from 7768' to 2250'. Ran GR/ccl log from 7768' TO surface. RD Schlumberger.

1/7/2006 08:00 - 1/7/2006 12:00

Last 24hr Summary

Held safety meeting. RU Wood group. Tested 4 1/2" csg to 4250 # for 30 min. Held ok. SWI. RD Wood Group.

1/22/2006 08:00 - 1/22/2006 12:00

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 7561' - 7569' W/ 2 SPF, 7579' - 7583' W/ 2 SPF, 7596' - 7604' w/ 2 spf, 7648' - 7653' w/ 2 spf, 7677' - 7687' w/ 2 spf, 7729' - 7733. A total of 78 holes @ 0.34 DIA. SWI. RD Computalog.

1/24/2006 07:00 - 1/24/2006 17:00

Last 24hr Summary

Held safety meeting. RU Schlumberger. Fac'd the Dakota. Tested lines to 5050 #. Set pop off @ 4050 #. Broke down formation @ 5 bpm @ 1580 #. Pump pre pad @ 40 bpm @ 3100 #. Stepped down rate to 30 bpm @ 2260 #. Stepped down rate to 20 bpm @ 1760 #. Stepped down rate to 15 bpm @ 1532 #. Stepped down rate to 10 bpm @ 1287 #. ISIP 1174 #. 5 min 961 #. 10 min 855 #. 15 min 766 #. 20 min 688 #. 25 min 619 #. 30 min 548 #. Pumped 1000 gals of 15% HCL acid @ 8 bpm @ 1259 #. Frac'd the Dakota w/slickwater @ 1.25 g/mg FR, 35,000 # 20/40 Carbolite sand & 3498 bbls fluid. Avg rate 55 bpm. Avg pressure 3228 #. Max pressure 3470 #. Max sand cons .40 # per gal. ISIP 1764 #. Frac gradient .60. RU Computalog. RIH w/ 4 1/2" composite plug. Set plug @ 5715'. Tested plug to 4000 #. Held ok. Perforated the PL w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 5483' - 5494' w/ 1 spf, 5517' - 5544' w/ 1 spf, 5552' - 5556' w/ 1 spf, 5575' - 5582' w/ 1 spf, 5606' - 5615' w/ 1 spf. A total of 63 holes w/ 0.34 dia. SWI. RD Computalog. Frac'd the Point Lookout. Tested lines to 5050 #. Set pop off @ 4050 #. Broke down formation @ 4 bpm @ 3100 #. Pumped pre pad @ 30 bpm @ 685 #. Stepped down rate to 25 bpm @ 281 #. Stepped down rate to 20 bpm @ 115 #. Stepped down rate to 15 bpm @ 0 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 10 bpm @ 0 #. Frac'd the Point Lookout w/ 60 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, 1,143,700 SCF N2 & 1298 bbls fluid. Avg rate 55 bpm. Avg pressure 1861 #. Max pressure 1979 #. Max sand cons 1.50 # per gal. ISIP 210 #. Frac gradient .44. SWI.

1/29/2006 08:00 - 1/25/2006 12:00

Last 24hr Summary

Held safety meeting. RU Computalog. RIH w/ 4 1/2" composite plug. Set plug @ 5320'. Tested plug to 4000 #. Held ok. Perforated the Menefee & Cliffhouse w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 4949' - 4971' w/ 1/2 spf, 5006' - 5022' w/ 1/2 spf, 5031' - 5035' w/ 1/2 spf, 5048' - 5052' w/ 1/2 spf, 5075' - 5083' w/ 1/2 spf, 5258' - 5270' w/ 1/2 spf. A total of 39 holes w/ 0.34 dia. SWI. RD Computalog.

1/31/2006 09:00 - 1/31/2006 17:00

Last 24hr Summary

Held safety meeting. RU Schlumberger. Frac'd the Cliffhouse & Menefee. Tested lines to 5050 #. Set pop off @ 4050 #. Broke down formation @ 5 bpm @ 2810 #. Pumped pre pad @ 30 bpm @ 1841 #. Stepped down rate to 25 bpm @ 1422 #. Stepped down rate to 20 bpm @ 1045 #. Stepped down rate to 15 bpm @ 730 #. Stepped down rate to 10 bpm @ 504 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 6 bpm @ 197 #. Frac'd the Cliffhouse & Menefee w/ 60 Q slick foam w/ 1 g/mg FR, 150,000 # 20/40 Brady sand, Treated the last 15% of proppant volume with propnet for proppant flowback control, 1,878,600 SCF N2 & 2046 bbls fluid. Avg rate 55 bpm. Avg pressure 2697 #. Max pressure 2846 #. Max sand cons 1.50 # per gal. ISIP 1822 #. Frac gradient .44. SWI. RD Schlumberger. Started flowback.

2/2/2006 05:30 - 2/2/2006 17:00

Last 24hr Summary

Road rig from S.J. 28-7 #250 to S.J. 28-7 #259G.
Spot unit to WH.
Spot equipment on location w/ RU trucks.
Ru unit, pump, circulating manifold, bleedoff line & 3" flow line.
Ru unit, pump, circulating manifold, bleedoff line & 3" flow line. Casing pressure @ 600psi. BDW.
Pump 20 bbls of 2% KCL water to kill well.
Install tubing hanger w/ bull plug in bottom of hanger. ND frac head. NUBOP.
RU 3" line, kill spool lines & BOP test line to BOP. Spot tubing trailer.
Drain pump & lines for cold weather. Secure well, rig & location. SDFN.

2/3/2006 05:30 - 2/3/2006 17:00

Last 24hr Summary

Test BOP as per COPC requirements. Strap tubing & remove protectors. Casing pressure @ 600 psi. BDW.
PU 3-7/8" mill, bitsub & string float. PU & RIH w/ tubing.
Tag fill @ 4810'. RU chickens & kelly hose.
PT air lines & manifold to 1700 psi. GOOD TEST. Release pressure.
Establish circulation. Pump 1800 scfm AIR & 7 BPH 2% KCL mist w/ 10 gallons inhibitor & 5 gallons foamer in first 10 bbls.
Circulation established. Pump as above. Cleanout from 4810' to 5117'. Cut inhibitor from 10 gallons per 10 bbls to 7 gallons & cut foamer from 5 gallons per 10 bbls to 3 gallons per 10 bbls.
SD mist pump. Blow tubing dry.
SD air pump. RD chickens & kelly hose. PUH to 4896'. Install TIW valve.
Secure well, rig & location. Drain up for cold weather. SDFWE.

2/6/2006 05:30 - 2/6/2006 17:00

Last 24hr Summary

Casing pressure @ 870 psi. BDW. RIH & tag fill. Tag fill @ 5265'. RU chickens & kelly hose. Establish circulation. Pump 1900 cfm AIR & 5 BPH 2% KCL mist w/ 7 gallons inhibitor & 2 gallons foamer per 10 bbls 2 % KCL water. Circulation established. Pump as above. Returns of 20 BPH fluid & light sand. Cleanout from 5265' to 5320'. Blow well clean. SD AIR & mist. PU & RU power swivel. Establish Circulation. Pump as above. Circulation established. Pump as above. Mill out CBP @ 5320'. Through CBP. PU 1 joint tubing. Blow debris out of hole @ 5369'. SD AIR & mist. Hang back swivel. RIH to 5640'. Tag fill. RU Power swivel. Establish circulation. Pump 1900 cfm AIR & 5 BPH 2% KCL mist w/ 7 gallons inhibitor & 2 gallons foamer per 10 bbls 2 % KCL water. Cleanout from 5640' to 5715' (CBP depth). Blow well clean. SD mist pump. Blow tubing dry. SD AIR pump. Hang back swivel. PUH to 4896'. Install TIW valve. Drain up pumps & lines for cold weather. Secure well, rig & location. SDFN.

2/7/2006 06:00 - 2/7/2006 17:00

Last 24hr Summary

Casing pressure @ 800 psi. Tubing pressure @ 0 psi. BDW. TOOH w/ mill. Pump 40 bbls to kill well. Finish TOOH. LD mill & sub. PU muleshoe expendable check (without check valve) & "F" nipple w/ SL pressure plug installed. RIH w/ mule shoe check valve & tubing. RU SL. Pull pressure plug. RD SL. RIH & tag fill @ 5695'. 20' of fill. Establish circulation. Pump 1900 cfm AIR & 5 BPH 2% KCL mist w/ 15 gallons inhibitor & 5 gallons foamer per 20 bbls. Circulation Established. Pump as above. Returns of 20 BPH water above mist rate. Cleanout from 5695' to 5715'. Blow well clean. SD mist pump. Blow tubing dry. PUH to 5527'. Install TIW valve. Drainup for cold weather. Secure well, rig & location. SDFN.

2/8/2006 08:30 - 2/8/2006 17:00

Last 24hr Summary

Casing pressure @ 800 psi. BDW. Kill tubing w/ 8 bbls of 2% KCL water. RIH & tag fill. (5' of fill). PUH to 5559'. RU flow Tee to flow test MV. Change 4" Tee's on flow back tank. Tee's washed out. RU 2" flow line w/ 1/2" positive check inline. Flow test well. Flow up tubing through 2" flow line w/ 1/2" positive check in flow line. Take pressure readings every 15 minutes. Casing pressure stabilized @ 620 psi. Tubing flowing pressure stabilized @ 360 psi. Calculated flow rate @ 360 psi X 6.6 co-efficient = 2.375 SCFD. SWI. RD flow line from floor & flow Tee. Drain pump & line for cold weather. Secure well, rig & location. SDFN.

2/9/2006 05:30 - 2/9/2006 17:00

Last 24hr Summary

Casing pressure @ 680 psi. Tubing pressure @ 520 psi. BDW. RU SL. RIH & set pressure plug in "F" nipple. POOH w/ SL. RD SL. BDT. Remove TIW valve. TOOH w/ tubing. Kill well w/ 35 bbls 2% KCL water w/ 20 stds in hole. Finish TOOH. OOH. LD F nipple & expendable check. PU mill & sub. PU PS. Tag fill @ 5704'. Establish circulation. Pump 1900 cfm AIR & 5 BPH 2% KCL mist w/ 15 gallons inhibitor & 10 gallons foamer per 20 bbls. Circulation established. Pump as above. Cleanout 15' of fill. Drill out CBP. Through CBP. Blow debris out of hole. Hang back P.S. PU tubing & RIH. Tag fill @ 7698'. Establish circulation. Pump 1900 cfm AIR & 5 BPH 2% KCL mist w/ 15 gallons inhibitor & 10 gallons foamer per 20 bbls. Circulation established. Pump as above. Cleanout from 7698' to 7715'. Blow well clean. SD mist pump. Blow tubing dry. Returns of 8 BPH water & light sand. SD AIR. RD power swivel. PUH to 7124'. Install TIW valve. Drain pump & lines for cold weather. Secure well, rig & location. SDFN.

2/10/2006 05:30 - 2/10/2006 17:00

Last 24hr Summary

Casing pressure @ 750 psi. Tubing pressure @ 0 psi. BDW. TOOH. 20 stds in hole. Kill well w/ 35 bbls 2% KCL water. Finish TOOH. OOH. LD mill & sub. PU expendable check valve & "F" nipple w/ 1.81 I.D. TIH w/ production tubing. Drift going in hole w/ 1.901 O.D. drift per COPC drifting procedure. Ran: 1 ea - 2-3/8" expendable check valve. 1 ea - 2-3/8" "F" nipple w/ 1.81 I.D. 239 joints - 2-3/8", J-55, 4.7#, EUE8rd, NEW tubing. Tag fill @ 7760' (8' fill). RU chickens & kelly hose. Establish circulation. Pump 1900 cfm AIR & 5 BPH 2% KCL mist w/ 15 gallons inhibitor & 10 gallons foamer per 20 bbls. Circulation established. Pump as above. Cleanout fill from 7760' to 7768'. Blow well clean. SD mist pump. Blow tubing dry. SD AIR pump. PUH to 7124'. Install TIW valve. Drain pumps & lines for cold weather. Secure well, rig & location. SDFWE.

2/13/2006 05:30 - 2/13/2006 17:00

Last 24hr Summary

Casing pressure @ 780 psi. BDW. Hook up rig pump & lines.

Pump 4 bbls of 2% KCL water to kill tubing. Remove string float. Drop ball for expendable check valve.

RIH. Tag fill. 2' of fill.

RU chickens & kelly hose. Pressure test tubing to 1000 psi w/ air. Hold pressure for 15 minutes. GOOD TEST. Pump ball through check valve @ 1200 psi.

Continue to pump for until pressure dropped to 700 psi. SD AIR pump.

PUH to 7453'. RU chickens & kelly hose. Kill tubing w/ 4 bls of 2% KCL water.

RU flow Tee for Production Profiler Log.

RU SL. Run EOT locator & gauge ring to tag PBTD. Tag PBTD w/ SL @ 7772'. EOT w/ SL @ 7460'. Run production profiler log. TFP - 360 PSI. CSIP - 620 PSI. SBHP - 1047 PSI. SBHP - 205 deg. FLUID LEVEL @ 7676'. RD SL.

Measured production across the SJ 28-7 259G Dakota formation at the time of logging: 860 Mscf/d gas; 0 bpd oil; 7.2 bpd water.

Drain pumps & lines for cold weather. Secure well, rig & location. SDFN.

2/14/2006 05:30 - 2/14/2006 17:00

Last 24hr Summary

Casing pressure @ 850 psi. Tubing pressure @ 920 psi. BDW.

Kill well w/ 5 bbls 2% KCL water. RIH to tag fill. Tag 2' of fill.

LD extra tubing used for cleanout.

Land EOT @ 7560'. Top SN @ 7558'.

Ran:

1 ea - 2-3/8" expendable check valve.

1 ea - 2-3/8" "F" nipple w/ 1.81 I.D.

239 joints - 2-3/8", J-55, 4.7#, EUE8rd, NEW tubing.

1 ea - tubing hanger.

Tighten down hanger lockdown pins.

Flow well up casing to remove air in well.

RD power tongs & rig floor. NDBOP. NUWH.

RU flow line to tubing head. Flow well up tubing. RD to MOL.

SWI. RD tubing flow line. Rig released @ 11:45 am on 2/14/2006. Well released to construction for facilities build. No further activity. FINAL REPORT.

Well Name: San Juan 28-7 #259G
 API #: 30-039-27290
 Location: 2370' FSL & 225' FWL
Sec. 24 - T28N - R7W
Rio Arriba County, NM
 Elevation: 6582' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Surface Casing Date set: 19-Dec-05
 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

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

Intermediate Casing Date set: 23-Dec-05
 Size 7 in 86 jts
 Set at 3704 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 150 % Top of Float Collar 3659 ft
 T.O.C. SURFACE Bottom of Casing Shoe 3704 ft
 Pup @ _____ ft TD of 8-3/4" Hole 3705 ft
 Pup @ _____ ft

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

Production Casing: Date set: 28-Dec-05
 Size 4 1/2 in 183 jts
 Set at 7797 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 7795 ft
 T.O.C. (est) 3250 Bottom of Casing Shoe 7797 ft
 Marker Jt @ 7475 ft TD of 8-3/4" Hole 7800 ft
 Marker Jt @ 4922 ft
 Marker Jt @ _____ ft
 Marker Jt @ _____ ft

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

Top of Float Collar 7795 ft
 Bottom of Casing Shoe 7797 ft

TD of 8-3/4" Hole: 7800 ft

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

☒ New
☐ Used

☒ New
☐ Used

Patterson Rig: #749
 Spud: 19-Dec-05
 Spud Time: 3:00
 Date TD Reached: 28-Dec-05
 Release Drl Rig: 29-Dec-05
 Release Time: 0:00

SurfaceCement

Date cmt'd: 19-Dec-05
 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: 15.0 bbls fresh wtr
 Bumped Plug at: 11:46 hrs w/ 557psi
 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 11.50 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 23-Dec-05
 Lead : 400 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, 1088.0 cuft slurry at 11.7 ppg
 Tail : 225 sx 50/50 POZ : Class G Cement
 + 0.25 lb/sx D130 Polyester 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, 294.75 cuft slurry at 13.5 ppg
 Displacement: 147.6 bbls
 Bumped Plug at: did not bump
 Final Circ Press: 815 psi @ 2.0 bpm
 Returns during job: YES
 CMT Returns to surface: 26 bbls
 Floats Held: ☒ Yes ☐ No
 W.O.C. for NA hrs (plug bump to start NU BOP)
 W.O.C. for 10.00 hrs (plug bump to test csg)

Production Cement

Date cmt'd: 28-Dec-05
 Cement : 455 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, 659.75 cuft slurry at 13.0 ppg
 Displacement: 121 bbls
 Bumped Plug: 18:30 w/ 1800 psi
 Final Circ Press: _____
 Returns during job: None Planned
 CMT Returns to surface: None Planned
 Floats Held: ☒ Yes ☐ No

Schematic prepared by:
 Michael P. Neuschafer, Drilling Engineer
 3-January-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 @ 190'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 222', 144', 101', 57'. Total: 4
7" Intermediate	DISPLACED W/ 147.6 BBLs. FRESH WATER. CENTRALIZERS @ 3680', 3601', 3515', 3428', 3342', 3256', 213', 170', 42'. TURBOLIZERS @ 2567', 2524', 2481', 2439'. Total: 9
4-1/2" Prod.	NONE. Total: 4