Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMSF078284

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.
NMNM78416B 78416A

2. Name of Operator
ConocoPhillips Co.

8. Lease Name and Well No.
San Juan 29-6 Unit 79M

3. Address
P.O. Box 2197, WL3-6081 Houston Tx 77252

3.a Phone No. *(Include area code)*
(832)486-2463

9. API Well No.
30-039-27573

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At Surface Sec 24 T29N R6W SENW 2300FNL 2400FWL
At top prod. interval reported below
At total depth

10. Field and Pool, or Exploratory
Blanco Mesaverde

11. Sec., T., R., M., on Block and Survey or Area Sec 24 T29N R6W

12. County or Parish Rio Arriba

13. State NM

14. Date Spudded 12/28/2004

15. Date T.D. Reached 01/04/2005

16. Date Completed ☐ D & A ☒ Ready to Prod. 04/05/2005

17. Elevations (DF, RKB, RT, GL)* 6772 GL

18. Total Depth: MD 8195 TVD

19. Plug Back T.D.: MD 8176 TVD

20. Depth Bridge Plug Set: MD TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)
CBL; TDT; GR/CCL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625 H40	32.3	0	223		150		0	
8.75	7 J-55	20	0	3971		660		0	
6.25	4.5 N-80	11.6	0	8194		465		2910	

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	7922							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Blanco Mesaverde	5496	5957	5496' - 5957'	.34	46	Open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5496' - 5957'	Frac'd w/65 Q Slickfoam w/1 G/MG FR, 200,000# 20/40 Brady Sand; 3,669,650 SCF N2 & 2475 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
4/05/05	3/29/05	24	→	0	1584	5			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	SI 160	240	→					GSI

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

NMOCD

RECEIVED
APR 19 AM 9
070 FARMINGTON NM

ACCEPTED FOR RECORD
APR 20 2005
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 porsity and contents thereof: Cored intervals and all drill-stem tests, inlcuding 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	1521
				Kirtland	3046
				TJG Fruitland	3378
				Pictured Cliff	3687
				Chacra/Otero	4680
				Cliffhouse	5494
				Menefee	5591
				Pt. Lookout	5900
				Gallup	7110
				Greenhorn	7837
				L. Cubero	8069

32. Additional remarks (include plugging procedure):

This is a downhole commingled well producing from the Blanco Mesaverde and Basin Dakota. Daily summary and wellbore schematic 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 Gustartis Title As Agent for ConocoPhillips Co

Signature Chris Gustartis Date 04/15/2005

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 fradulent statements or representations as to any matter within its jurisdiction.

APR 20 2005

SAN JUAN 29 6 UNIT #079M — Initial Completion

Daily Summary

API/UWI	County	State/Province	Surface Legal Location	N/S Dist. (ft)	N/S Ref.	E/W Dist. (ft)	E/W Ref.
300392757300	RIO ARRIBA	NEW MEXICO	NMPM-29N-06W-24-E	2300.0	N	2400.0	W

Ground Elevation (ft)	Spud Date	Rig Release Date	Latitude (DMS)	Longitude (DMS)
6772.00	12/28/2004	01/04/2005	36° 42' 43.524" N	107° 24' 52.416" W

Start Date	Ops This Rpt
01/15/2005 06:00	HELD PRE-JOB SAFETY MEETING. RU SCHLUMBERGER PRESSURED UP CSG TO 1500 #. RAN CBL LOG FROM 8174' TO 2630'. TOP OF CEMENT @ 2910'. RAN TDT LOG FROM 8174' TO 2400'. RAN GR/CCL LOG FROM 8174' TO SURFACE. RD SCHLUMBERGER.
01/15/2005 14:00	HELD PRE-JOB SAFETY MEETING. RU ISOLATION TOOL. TESTED 4 1/2" CSG TO 6700 # FOR 30 MIN. HELD OK. RD ISOLATION TOOL. SWI.
03/17/2005 13:00	HELD SAFETY MEETING. RU BLUE JET. PERFORATED THE DAKOTA. RIH W/ 3 1/8" 120 DEGREE PP SELECT FIRE PERFORATING GUN. PERFORATED FROM 8025' - 8046' W/ 2 SPF, 8072' - 8074' W/ 2 SPF, 8088' - 8098' W/ 2 SPF, 8106' - 8110' W/ 2 SPF. A TOTAL OF 74 HOLES @ 0.34 DIA. SWI. RD BLUE JET.
03/18/2005 08:00	HELD SAFETY MEETING. RU ISOLATION TOOL. RU HALLIBURTON. FRAC'D THE DAKOTA. TESTED LINES TO 7700 #. SET POP OFF @ 6000 #. BROKE DOWN FORMATION @ 5 BPM @ 977 #. PUMPED PRE PAD @ 40 BPM @ 2625 #. STEPPED DOWN RATE TO 30 BPM @ 2196 #. STEPPED DOWN RATE TO 25 BPM @ 2057 #. STEPPED DOWN RATE TO 20 BPM @ 1875 #. STEPPED DOWN RATE TO 10 BPM @ 1548 #. ISIP 1706 #. 5 MIN 946 #. 10 MIN 682 #. 15 MIN 468 #. 20 MIN 294 #. 25 MIN 156 #. 30 MIN 88 #. PUMPED 1000 GALS OF 15% HCL ACID @ 5 BPM @ 1136 #. FRAC'D THE DAKOTA W/ SLICKWATER @ 1.25 g/mg FR, 40,000 # 20/40 CARBOLITE SAND & 3997 BBLS FLUID. AVG RATE 50 BPM. AVG PRESSURE 3726 #. MAX PRESSURE 4510 #. MAX SAND CONS .40 # PER GAL. ISIP 2425 #. FRAC GRADIENT .65. RU BLUE JET. RIH W/ 4 1/2" COMPOSITE PLUG. SET PLUG @ 6057'. TESTED PLUG TO 4800 #. HELD OK. PERFORATED THE MESAVERDE W/3 1/8" 90 DEGREE SELECT FIRE PERFORATING GUN. PERFORATED FROM 5496' - 5500' W/ 1/2 SPF, 5542' - 5546' W/ 1/2 SPF, 5560' - 5576' W/ 1/2 SPF, 5603' - 5607' W/ 1/2 SPF, 5662' - 5666' W 1/2 SPF, 5806' - 5816 W/ 1/2 SPF, 5877' - 5881' W/ 1/2 SPF, 5902' - 5908' W/ 1/2 SPF, 5928' - 5934' W/ 1/2 SPF, 5940' - 5946' W/ 1/2 SPF, 5951' - 5957' W/ 1/2 SPF. A TOTAL OF 46 HOLES W/ 0.34 DIA. SWI. RD BLUE JET.
03/19/2005 09:00	HELD SAFETY MEETING. RU ISOLATION TOOL. RU HALLIBURTON. FRAC'D THE MESAVERDE. TESTED LINES TO 7650 #. SET POP-OFF @ 5974 #. BROKE DOWN FORMATION @ 5 BPM @ 2018 #. PUMPED PRE PAD @ 30 BPM @ 825 #. STEPPED DOWN RATE TO 25 BPM @ 616 #. STEPPED DOWN RATE TO 20 BPM @ 427 #. STEPPED DOWN RATE TO 15 BPM @ 138 #. STEPPED DOWN RATE TO 10 BPM @ 0 #. ISIP 0 #. PUMPED 1000 GALS OF 15% HCL ACID @ 5 BPM @ 0 #. FRAC'D THE MESAVERDE W/ 65 Q SLICK FOAM W/ 1 G/MG FR, 200,000 # 20/40 BRADY SAND, TREATED THE LAST 25% OF PROPPANT VOLUME WITH SANDWEDGE FOR PROPPANT FLOWBACK CONTROL. 3,669,650 SCF N2 & 2475 BBLS FLUID. AVG RATE 63 BPM. AVG PRESSURE 3447 #. MAX PRESSURE 3665 #. MAX SAND CONS 1.50 # PER GAL. ISIP 1641 #. FRAC GRADIENT .44. SWI. RD HALLIBURTON & ISOLATION TOOL. START FLOWBACK.
03/23/2005 13:00	PJSM W/ CREWS, LOAD EQUIPMENT ON SJ 29-6# 58C. ROAD UNIT AND EQUIPMENT TO SJ 29-6# 79M. SPOT UNIT AND EQUIPMENT. RU UNIT. RU PUMP AND LINES. RU 2" BD LINE. SICP= 550#. BWD. KILL W/ 20 BBL 2% KCL. SET HANGER. ND FRAC VALVE AND SPOOL. NU BOPE. RU AIR MANIFOLD AND LINES. TEST BOPE TO 200# LOW AND 3000# HIGH. (BLIND AND PIPE RAMS.) TEST WAS GOOD. WITNESSED BY G. MAEZ W/ KEY ENERGY SERVICES. SECURE WELL SDFN.
03/24/2005 00:00	SICP= 530#. PJSM W/ CREWS. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT. WAIT ON ROUSTABOUT CREW. TALLY FIRST ROW OF TBG. RU BLOOIE LINE. PUT UP FENCE AROUND PIT. MU AND TIH PICKING UP W/ MS COLLAR, 1.81" FN AND 171 JTS 2 3/8" TBG. SECURE WELL SDFN.
03/28/2005 00:00	SICP= 530#. PJSM W/ CREWS. BWD TIH W/ 11 JTS AND TAG FILL @ 5905'. BREAK CIRCULATION W/ AIR MIST. UNLOAD HOLE AND C/O FILL TO CBP @ 6057'. CIRCULATE CLEAN. POOH W/ 21 JTS. SECURE WELL SDFN.
03/29/2005 07:00	SICP- 530 Psi Crew held PJSA on location. Outlined planned operations for the day. Outlined safety topics for planned operations. Blowdown well into flowback pit. Tripped 2 3/8" tubing into well to tag fill. No fill made overnight. Rig up air unit to tubing to unload well. Start air unit at 1,100 CFM with 3 BPH foam/mist. Well unloaded light fluid and light sand. Shutdown air unit, rig down off tubing. Trip 2 3/8" tubing to 5,377' to test Mesa Verde zone. Kill tubing with 3 bbls of 2% kcl water. Remove string float, install TIW valve and swabbing tee. Rig up flowback line off of tubing with a new 1/2" choke installed. Flow well up tubing until ProTechnics, slickline unit were rigged up and ready to start test. Ran slickline end of tubing tools to bridge plug. Tagged at 6,050'. End of tubing at 5,378'. Installed ProTechnics spinner survey logging tools onto slickline. Tested the Mesa Verde perfs (5,496'- 5,957') thru the spinner survey tools up the tubing to atmosphere thru a 1/2" choke at surface (Choke coefficient: 6.6). SICP Avg.- 500 Psi. FTP Avg.- 160 Psi. Mesa Verde spinner survey results will be verified by production engineer (Lucas Bazan). Testing completed, check tools to verify data was recorded. Data recorded, set Baker plug in F-Nipple. Rig down and released ProTechnics, slickline unit. Trip in well with tubing to 5,730' to flow test Mesa Verde. Rig up flowback line. Installed new 1/2" choke into flowback line. Flow tested Mesa Verde zone (5,496'- 5,957') up tubing/casing annulus to atmosphere thru 1/2" choke. FCP Avg.- 240 Psi. (Choke coefficient: 6.6). Flow testing indicated Mesa Verde production at 1,584 MCFPD with 5- Bbls water per day, 0- Bbl of Oil per day, with no sand returns. Test was witnessed by Genaro Maez (Rig Operator). Testing completed, trip tubing above Mesa Verde perfs to 5,370'. Install TIW, close pipe rams. Secured lease. Shutdown operations for the day.

Daily Summary

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6772.00	12/28/2004	01/04/2005	36° 42' 43.524" N	107° 24' 52.416" W

Start Date	Ops This Rpt
03/30/2005 07:00	SICP- 530 Psi Crew held PJSA on location. Outlined planned operations for the day. Outlined safety topics for planned operations. Blowdown well into flowback pit. Trip 2 3/8" tubing out of the well. Kill well with 10 bbls of 2% kcl water to pull last 10 stands of tubing. Out of well with tubing. Nipple down BHA. Nipple up milling assembly. High winds in the area made tripping 2 3/8" tubing, milling assembly potentially hazardous. Decision was made to shutdown operations for the day. Closed in blind rams. Secured well. Shutdown operations for the day.
03/31/2005 07:00	SICP- 550 Psi Hold PJSA meeting on location. Talked about planned operations and hazards of planned operations. Blowdown well into flowback tank. Nipple up milling tools. Kill casing with 20 bbls of 2% kcl water. Install new stripping rubber assembly. Trip into well with milling assembly, 2 3/8" tubing from derrick. Tagged fill at 6,005'. Rig up power swivel assembly. Start air unit at 1,000 CFM with 5 BPH foam/mist. Cleaned out to the top of the bridge plug at 6,057'. Well making fluid and light sand. Drilled thru the top 6" of bridge plug. Pulled up 30' to let pressures equalize. No noticeable increase in blooie line returns. Well returns quit. No increase in torque was noted at power swivel. Able to move tubing up and down. Air unit at 1,000 CFM with 10 BPH foam/mist. Wait for returns. No returns. Pull out of well with tubing. Tubing started dragging. Tubing stuck. Start working tubing to try and free. Tubing pressured up, shutdown air unit. Pump 10 bbls of 2% kcl water down annulus, tubing came free. Start tripping tubing out of well, tubing started hanging up again. Work tubing to try and free. Pump 10 bbls of 2% kcl water down annulus. Tubing not coming free. Start air unit at 1,000 CFM with no mist. Work tubing. Not able to work free, no returns seen at blooie line. Continue with air, continue to work tubing. Tubing came free. Shutdown air. Pull 10 stands of tubing to 5,396'. Rig up air unit, start air at 1,000 CFM with no mist. Well started to circulate at blooie line. Made heavy fluid, sand returns. Continue with air until returns were reduced. Shutdown air unit. Trip into well with 10 stands of tubing to 6,030'. Start air at 1,000 CFM with 4 BPH foam/mist. Unload well. Made heavy fluid, sand returns. Shutdown air unit. Pull tubing above Mesa Verde perfs to 5,396'. Install TIW valve, close pipe rams. Secured lease. Shutdown operations for the day.
04/01/2005 07:00	SICP- 550 Psi Crew held PJSA meeting on location. Talked about planned operations and hazards of planned operations. Outlined general safety topics. Blowdown well into flowback pit. Trip 2 3/8" tubing, milling assembly into well. Went to 6,017' with tubing. Rig up air unit to tubing to unload well. Start air at 1,000 CFM with 10 BPH foam/mist. Well unloaded fluid and light Dakota sand. Shutdown air unit, rig up power swivel assembly. Went to top of plug at 6,057'. Start air unit at 1,000 CFM with 14 BPH foam/mist. Drilled thru bridge plug. Slight increase in blooie line returns was seen. Well made medium fluid with Dakota frac sand, bridge plug parts. Continued with air/mist until returns were clean. Shutdown air unit, rig down off tubing. Trip and tally 2 3/8" tubing into well. Tagged fill at 8,082' (88' of fill on PBTD). Rig up air, power swivel assembly to tubing. Start air unit at 1,000 CFM with 10 BPH foam/mist. Encountered a tight spot at 8,092'. Increased foam/mist to 14 BPH, milled thru tight spot. Cleaned out to 8,176'. Well made medium fluid and Dakota frac sand returns. Continued with air/mist until returns were reduced. Shutdown air unit, rig down power swivel assembly. Trip 2 3/8" tubing, milling assembly above Mesa Verde perfs to 5,450'. Installed TIW valve, closed and locked pipe rams. Drained all lines. Secured lease. Shutdown operations for the day.
04/04/2005 07:00	SICP= 600#. PJSM W/ CREWS. DISCUSSED DAYS EVENTS AND WAYS TO PREVENT INCIDENT.BWD. TOOH W/ 162 JTS 2 3/8" TBG. LD MILL. MU AND TIH DRIFTING W/ 2 3/8" 1/2 MS EXP. CK, 1.81" ID FN AND 260 JTS 2 3/8" TBG. TAG FILL @ 8138'. UNLOAD HOLE AND C/O FILL TO PBTD OF 8176' W/ AIR MIST. CIRCULATE CLEAN. POOH W/ 8 JTS TO 7922'.PUMP OUT EXP CK @ 1100#. CIRCULATE FLUID OOH. RU TBG FLOW LINE. PREP FOR DK PROD. LOG. SECURE WELL SDFN.
04/05/2005 18:30	PJSM W/ CREWS. SITP= 670#, SICP= 550#. BWD TIH W/ 8 JTS TAG FILL @ 8174'. POOH W/ 8 JTS. (2 3/8" TBG. SET @ 7922' EOT.) RU H& H SLICK LINE UNIT. RIH W/ EOT LOCATOR FIND EOT @ 7923' SLM, CONTIUE IN HOLE AND TAG FILL @ 8173' SLM. POOH. RU PROTECHNICS COMPLETION PROFILE LOGGING TOOL. RIH TO 7995'. GET STATIC BH PSI. RIH BELOW PERFS. OPEN WELL FLOWING UP TBG. TO ATMOSPHERE W/ 1/2" CHOKE @ SURFACE. PRESSURES STABILIZED, FTP= 90#, SICP= 575#. LOG DK INTERVAL.POOH, LD TOOLS, RETRIEVE DATA. 2 3/8" TBG SET @ 7922' DK PERFS- 8025'- 8110' DK PRODUCTION- 572 MCFPD 3.6 BWPD 0 BOPD AS PER DK PRODUCTION LOG DATED 4/5/2005 BLEED CSG DOWN. TIH W/ 8 JTS TAG FILL @ 8173'. C/O FILL TO PBTD W/ AIR-MIST. CIRCULATE CLEAN. POOH W/ 5 JTS. PU 10' 2 3/8" TBG. SUB AND HANGER. LAND WELL W/ 255 JTS & 10' 2 3/8" SUB (BHA= 1/2 MS EXP CK & 1.81" FN) W/ EOT @ 8035' KB, TOP OF FN @ 8033'. ND BOPE, NU WH. LET WELL FLOW UP TBG TO PURGE AIR. RD EQUIPMENT. RD UNIT. TURN WELL OVER TO CONSTRUCTION GROUP TO BUILD FACILITY. (((((FINAL REPORT)))))

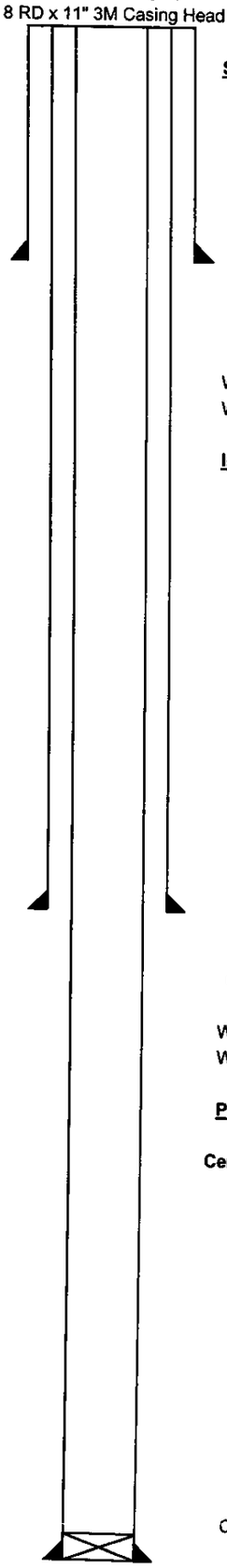
ConocoPhillips

END OF WELL SCHEMATIC

Well Name: San Juan 29-6 #79M
API #: 30-039-27573
Location: 2300' FNL & 2400' FWL
Sec. 24 - T29N - R6W
Rio Arriba County, NM
Elevation: 6772' GL (above MSL)
Drl Rig RKB: 13' above Ground Level
Datum: Drl Rig RKB = 13' above GL

Spud: 28-Dec-04
Spud Time: 20:00
Date TD Reached: 4-Jan-05
Release Drl Rig: 6-Jan-05
Release Time: 0:00

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



Surface Casing

Date set: 29-Dec-04 — [X] New [ ] Used

Size 9 5/8 in
Set at 223 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 223 ft
TD of 12-1/4" hole 235 ft

Notified BLM @ 09:30 hrs on 27-Dec-04
Notified NMOCD @ 09:35 hrs on 27-Dec-04

SurfaceCement

Date cmt'd: 29-Dec-04
Lead : 150 sx Class G Cement
+ 3% S001 Calcium Chloride
+ 0.25 lb/sx D029 Cellophane Flakes
1.16 cuft/sx, 174.0 cuft slurry at 15.8 ppg
Displacement: 14.2 bbls fresh wtr
Bumped Plug at: 02:30 hrs w/ 279 psi
Final Circ Press: 73 psi @ 0.5 bpm
Returns during job: YES
CMT Returns to surface: 10 bbls
Floats Held: No floats used
W.O.C. for 6.00 hrs (plug bump to start NU BOP)
W.O.C. for 10.00 hrs (plug bump to test csg)

Intermediate Casing

Date set: 1-Jan-05 — [X] New [ ] Used

Size 7 in 93 jts
Set at 3971 ft 0 pups
Wt. 20 ppf Grade J-55
Hole Size 8 3/4 in Conn STC
Excess Cmt 150 % Top of Float Collar 3925 ft
T.O.C. SURFACE Bottom of Casing Shoe 3971 ft
Pup @ ft TD of 8-3/4" Hole 3971 ft
Pup @ ft

Notified BLM @ 09:05 hrs on 31-Dec-04
Notified NMOCD @ 09:12 hrs on 31-Dec-04

Intermediate Cement

Date cmt'd: 1-Jan-05
Lead : 425 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, 1156.0 cuft slurry at 11.7 ppg
Tail : 235 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, 307.85 cuft slurry at 13.5 ppg
Displacement: 158 bbls
Bumped Plug at: 23:42 hrs w/ 1501 psi
Final Circ Press: 980 psi @ 2 bpm
Returns during job: YES
CMT Returns to surface: 50 bbls
Floats Held: X Yes __ No
W.O.C. for 6.00 hrs (plug bump to start NU BOP)
W.O.C. for 13.00 hrs (plug bump to test csg)

Production Casing:

Date set: 5-Jan-05 — [X] New [ ] Used

Size 4 1/2 in 191 jts
Set at 8194 ft 1 pups
Wt. 11.6 ppf Grade N-80
Hole Size 6 1/4 in Conn LTC
Excess Cmt 50 % Top of Float Collar 8193 ft
T.O.C. (est) 3771 Bottom of Casing Shoe 8194 ft
Marker Jt @ 5303 ft TD of 8-3/4" Hole 8195 ft
Marker Jt @ 7837 ft
Marker Jt @ ft

Notified BLM @ 11:50 hrs on 04-Jan-05
Notified NMOCD @ 11:50 hrs on 04-Jan-05

Top of Float Collar 8193 ft
Bottom of Casing Shoe 8194 ft

TD of 8-3/4" Hole: 8195 ft

Production Cement

Date cmt'd: 5-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: 127 bbls
Bumped Plug: 19:05 hrs w/ 1850 psi
Final Circ Press: 1200 psi @ 2.5 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
7-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 @ 180'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 213', 141', 101', 59'.	Total: 4
7" Intermediate	DISPLACED W/ 158.0 BBLS. DRILL WATER. CENTRALIZERS @ 3961', 3887', 3800', 3719', 3633', 3553', 215', 128', 42'.	Total: 9
	TURBOLIZERS @ 3092', 2997', 2953', 2910', 2869'.	Total: 5
4-1/2" Prod.	NONE.	