

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO.

3a. Address
1050 17TH STREET, SUITE 500 DENVER, CO 80265

3b. Phone No. (include area code)
303-672-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1418 FSL & 1267 FEL 7-31N-11W, NMPM

5. Lease Serial No.
NMSF-078095 A

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
HORTON 1 D

9. API Well No.
30-045-33065

10. Field and Pool, or Exploratory Area
Blanco Mesa V., Basin Dakota

11. County or Parish, State
SAN JUAN, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CASING & CEMENTING INFO:

09/07/05
12.250", 9-5/8" 36#, SURFACE-219'
12SSX 50/50 POZ, 28.2 BBL SLURRY VOL.
9/11/05
8.750", 7" 26#, SURFACE-3450'
360SX "G", 167.0 BBL SLURRY VOL.
09/15/05
6.250", 4-1/2", 13.5#, 3071'-7397'
230SX TXI L.T. WT.,
85.4 BBL SLURRY VOL.
100SX 50/50 POZ, 22.2 BBL SLURRY VOL.

CS7. Press. 235 psi



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

SCOTT A. GOODWIN, JR.

Title **SR. PETROLEUM ENGINEER**

Signature

Date

11/09/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE ACCEPTED FOR RECORD

Approved by

Title

Date **NOV 15 2005**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

FARMINGTON FIELD OFFICE

Title 18 U.S.C. Section 1001 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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOC

Questar E & P
Cementing Report

Page 1 of 2

Legal Well Name: HORTON 1D
Common Well Name: HORTON 1D
Event Name: DRILLING

Report #: 1
Start: 9/5/2005

Spud Date: 9/5/2005
Report Date: 9/11/2005
End: 9/16/2005

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 8.750 (in)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 3,450.00 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 9/11/2005	SQ Date:	Date Set:	BTM set: (ft)
Csg Type: INTERMEDIATE CASI	SQ Type:	Csg Type:	Plug Date:
Csg Size: 7.000 (in)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmt. Csg: OPEN HOLE	Cmt. Csg:	Cmt. Csg:	Cmt. Csg:

Cement Co: DOWELL SCHLUMBERGER

Cementer: SHAWN

Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: :	Time End: :	RPM:	Init Torque: (ft-lbf)	Avg Torque: (ft-lbf)	Max Torque: (ft-lbf)
Rec Time Start: :	Time End: :	SPM:	Stroke Length: (ft)	Drag Up: (lb)	Drag Down: (lb)

Stage No: 1 of 1

Type: STAGE 1	Start Mix Cmt: :	Disp Avg Rate: 5.00 (bbl/min)	Returns: 100
Volume Excess %: 50.00	Start Slurry Displ: :	Disp Max Rate: 5.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: 09:30	Press Prior: 782 (psi)	
To Cementing: 1.00	End Pump Date: 9/6/2005	Press Bumped: 1,332 (psi)	Ann Flow After: N
Mud Circ Rate: 210 (gpm)	Top Plug: Y	Press Held: (min)	Mixing Method:
Mud Circ Press: 500 (psi)	Bottom Plug: Y	Float Held: Y	Density Meas By:

Mud Data

Type: FRESH WATER Density: (ppg) Visc: 41 (s/qt) PV/YP: 16 (cp)/14 (lb/100ft²) Gels 10 sec: 2 (lb/100ft²) Gels 10 min: 8 (lb/100ft²)
Bottom Hole Circulating Temperature: (°F) Bottom Hole Static Temperature: (°F)
Displacement Fluid Type: Density: (ppg) Volume: (bbl)

Stage No: 1 Slurry No: 1 of 2

Slurry Data

Fluid Type: LEAD	Description: NEAT	Class: CLASS G	Purpose: CEMENT INT
Slurry Interval: 800.00 (ft) To: 3,450.00 (ft)	Cmt Vol: 360 (sk)	Density: 11.7 (ppg)	Yield: 2.61 (ft ³ /sk)
Water Source: RIG WATER	Slurry Vol: 167.0 (bbl)	Water Vol: 135.4 (bbl)	Other Vol: 15.0 (bbl)
			Mix Water: 15.80 (gal/sk)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (psi)			

Questar E & P
Cementing Report

Page 2 of 2

Legal Well Name: HORTON 1D	Report #: 1	Spud Date: 9/5/2005
Common Well Name: HORTON 1D	Start: 9/5/2005	Report Date: 9/11/2005
Event Name: DRILLING		End: 9/16/2005

Stage No: 1 Slurry No: 2 of 2

Slurry Data

Fluid Type: TAIL	Description: 50/50 POZ	Class: CLASS G	Purpose: CEMENT INT
Slurry Interval: 18.00 (ft) To: 800.00 (ft)	Cmt Vol: 125 (sk)	Density: 13.5 (ppg)	Yield: 1.27 (ft³/sk)
Water Source: RIG WATER	Slurry Vol: 28.2 (bbl)	Water Vol: 15.4 (bbl)	Other Vol: (bbl)
			Mix Water: 5.20 (gal/sk)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (psi)			

Casing Test

Shoe Test

Liner Top Test

Test Press: (psi)	Pressure: (ppge)	Liner Lap:
For: (min)	Tool:	Pos Test: (ppge) Tool:
Cement Found between	Open Hole: (ft)	Neg Test: (ppge) Tool:
Shoe and Collar:	Hrs Before Test:	Hrs Before Test:
		Cement Found on Tool:

Log/Survey Evaluation

Interpretation Summary

CBL Run:	Cement Top: (ft)
Under Pressure: (psi)	How Determined:
Bond Quality:	TOC Sufficient:
Cet Run:	Job Rating:
Bond Quality:	If Unsuccessful Detection Indicator:
Temp Survey:	Remedial Cementing Required:
Hrs Prior to Log:	Number of Remedial Squeezes:

Remarks

30 bbls cement to surface

Questar E & P

Cementing Report

Page 1 of 2

Legal Well Name: HORTON 1D	Report #: 2	Spud Date: 9/5/2005
Common Well Name: HORTON 1D	Start: 9/5/2005	Report Date: 9/15/2005
Event Name: DRILLING		End: 9/16/2005

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 6.125 (in)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 4,326.42 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 9/15/2005	SQ Date:	Date Set:	BTM set: (ft)
Csg Type: PRODUCTION CASIN	SQ Type:	Csg Type:	Plug Date:
Csg Size: 4.500 (in)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmt. Csg: PRODUCTION CASIN	Cmt. Csg:	Cmt. Csg:	Cmt. Csg:

Cement Co: DOWELL SCHLUMBERGER	Cementer: MARK STEWART	Pipe Movement: RECIPROCATING
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Pipe Movement

Rot Time Start: :	Time End: :	RPM:	Init Torque: (ft-lbf)	Avg Torque: (ft-lbf)	Max Torque: (ft-lbf)
Rec Time Start: 19:00	Time End: 21:00	SPM:	Stroke Length: 10.0 (ft)	Drag Up: 10,000 (lb)	Drag Down: 10,000 (lb)

Stage No: 1 of 1

Type: STAGE 1	Start Mix Cmt: :	Disp Avg Rate: (bbl/min)	Returns: 100
Volume Excess %: 35.00	Start Slurry Displ: :	Disp Max Rate: (bbl/min)	Total Mud Lost: (bbl)
Meas. From: CALIPER LOG	Start Displ: :	Bump Plug: N	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: 21:00	Press Prior: (psi)	
To Cementing: 2.00	End Pump Date: 9/15/2005	Press Bumped: (psi)	Ann Flow After: N
Mud Circ Rate: 1,800 (gpm)	Top Plug: N	Press Held: (min)	Mixing Method:
Mud Circ Press: 400 (psi)	Bottom Plug: N	Float Held: N	Density Meas By:

Mud Data

Type: FRESH WATER	Density: 8.3 (ppg)	Visc: 41 (s/qt)	PV/YP: 16 (cp)/14 (lb/100ft ²)	Gels 10 sec: 2 (lb/100ft ²)	Gels 10 min: 8 (lb/100ft ²)
Bottom Hole Circulating Temperature: (°F)			Bottom Hole Static Temperature: (°F)		
Displacement Fluid Type:		Density: (ppg)	Volume: (bbl)		

Stage No: 1 Slurry No: 1 of 2

Slurry Data

Fluid Type: LEAD	Description: TXI LIGHT WEIGHT	Class: CLASS G	Purpose: CEMENT PR
Slurry Interval: 2,995.00 (ft) To: 6,536.00 (ft)	Cmt Vol: 230 (sk)	Density: 11.4 (ppg)	Yield: 2.28 (ft ³ /sk)
Water Source: WATER HAULED IN	Slurry Vol: 85.4 (bbl)	Water Vol: 69.5 (bbl)	Other Vol: (bbl)
			Foam Job: N

Test Data

Thickening Time:	Temperature: (°F)	Compressive Strength 1:	Time	Temp	Pressure
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:		(°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)				(psi)
Fluid Loss Pressure: (psi)					

Questar E & P
Cementing Report

Page 2 of 2

Legal Well Name: HORTON 1D	Report #: 2	Spud Date: 9/5/2005
Common Well Name: HORTON 1D	Start: 9/5/2005	Report Date: 9/15/2005
Event Name: DRILLING		End: 9/16/2005

Stage No: 1 Slurry No: 2 of 2

Slurry Data

Fluid Type: TAIL	Description: 50/50 POZ	Class: CLASS G	Purpose: CEMENT PR
Slurry Interval: 6,535.00 (ft)To: 7,400.00 (ft)	Cmt Vol: 100 (sk)	Density: 13.5 (ppg)	Yield: 1.25 (ft ³ /sk)
Water Source: WATER HAULED IN	Slurry Vol: 22.2 (bbl)	Water Vol: 13.0 (bbl)	Other Vol: (bbl)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (psi)			

Casing Test

Shoe Test

Liner Top Test

Test Press: (psi)	Pressure: (ppge)	Liner Lap:
For: (min)	Tool:	Pos Test: (ppge) Tool:
Cement Found between	Open Hole: (ft)	Neg Test: (ppge) Tool:
Shoe and Collar:	Hrs Before Test:	Hrs Before Test:
		Cement Found on Tool:

Log/Survey Evaluation

Interpretation Summary

CBL Run:	Cement Top: (ft)
Under Pressure: (psi)	How Determined:
Bond Quality:	TOC Sufficient:
Cet Run:	Job Rating:
Bond Quality:	If Unsuccessful Detection Indicator:
Temp Survey:	Remedial Cementing Required:
Hrs Prior to Log:	Number of Remedial Squeezes: