

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other In-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL ☐ GAS ☒ DRY ☐ Other _____
WELL WELL WELL

b. TYPE OF COMPLETION:

NEW ☒ WORK ☐ DEEP- ☐ PLUG ☐ DIFF ☐ Other _____
WELL WELL OVER EN BACK RESVR

2. NAME OF OPERATOR

Questar Exploration and Production Company

3. ADDRESS OF OPERATOR

1050 17th Street, Suite 500, Denver, CO 80265 (303) 672-6931

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 4770' FSL, 2405' FEL 1000' FNL, 125' FBS

At top prod. interval reported below Sec. 13, T32N, R12W NMPM

At total depth Same

14. PERMIT NO.

DATE ISSUED

30-045-31703

6/3/2003

12. COUNTY OR

PARISH

SAN JUAN

13. STATE

NM

15. DATE SPUDDE

7/20/2003

16. DATE T.D. REACHED

7/26/2003

17. DATE COMPL. (Ready to prod.)

9/2/2003

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

GL 6575', KB 6587'

19. ELEV. CASINGHEAD

6575'

20. TOTAL DEPTH. MD & TVD

5959' MD

21. PLUG BACK T.D. MD & TVD

5309'

22. IF MULTIPLE COMPL. HOW MANY*

23. INTERVALS

DRILLED BY

ROTARY TOOLS

0 - TD

CABLE TOOLS

N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD & TVD)*

5346' - 5668' Point Lookout & 4842' - 5156' Cliffhouse/ Menefee

25. WAS DIRECTIONAL

SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR/ CCL/ CBL

(open hole logs) TDL - CN - GR

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8" K-55	36#	238'	12 1/4"	140 sks STD 2% CaC12.	
7" J-55	23#	3473'	8 3/4"	HOWCO lead 300 sks STD, 3% Econolite, 10% gilsonite,	
				1/2# flocele. Tailed w/ 165 sks 50/50 POZ + adtvs	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2" K-55	3309'	5959'	540 SX		2 3/8"	5012'	

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

See attached Perforation Record

Will

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(stg 1) 5668' - 5346'	49,314 gal foamed slickwater
	1,204.4 mscf N2 103,019 lb 2/40 Brady Sand.
(stg 2) 5156' - 4842'	47,077 gal foamed slickwater
	1,249.3 mscf N2, 121,524 lb 2/40 Brady Sand.

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)				WELL STATUS (Producing or shut-in)	
9/5/2003		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
9/5/2003	24	20/64	→	0	634	0	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
670	670	→	0	634	0	N/A	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Well be sold.

TEST WITNESSED BY
ACCEPTED FOR RECORD
Kirby Sanchez

35. LIST OF ATTACHMENTS

Gas Analysis, Perforation Record

JAN 6 2004

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Sr. Engineering Analyst

FARMINGTON FIELD OFFICE
DATE 11/11/2003

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

NMOC

Horton 3B
NMSF-078147A

37. SUMMARY OF POROUS ZONES: (Show all important zones of 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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Nacimiento Fm.	Surface	
				Kirtland sh.	1145	
				Fruitland	2608	
				pictured cliffs Ss.	3036	
				Lewis Sh.	3310	
				Cliff House Ss.	4924	
				Menefee Fm.	5104	
				Point Lookout Ss.	5456	
				Mancos Sh.	5780	

HORTON 3 B

1st Stage PERFORATION RECORD *(Interval, size and number)*

5346' - 52'	0.32	3
5460' - 84'	0.32	12
5516' - 36'	0.32	10
5580'	0.32	1
5600'	0.32	1
5606'	0.32	1
5656'	0.32	1
5658'	0.32	1
5668'	0.32	1
Total		<u>31</u>

Set composited frac plug @ +/- 5250'. Pressure test plug to 3500 psig.

2nd Stage PERFORATION RECORD *(Interval, size and number)*

4842'	0.32	1
4926' - 32'	0.32	3
4944' - 50'	0.32	3
4948'	0.32	1
5016'	0.32	1
5024'	0.32	1
5032' - 68'	0.32	18
5082' - 5102'	0.32	10
5140'	0.32	1
5156'	0.32	1
Total		<u>40</u>

CQM, INC. ON-SITE GAS ANALYSIS U-1
1523 W. AZTEC BLVD.
AZTEC, NM 87410 505-333-2003

Source: QUESTAR E&P	Report Date: 08/28/2003
Station #: HORTON 3-B	Sample Date: 08/28/2003
Station Name:	Flowing Pressure: 0 psig
Field: WELLHEAD SAMPLE	Flowing Temp.: 0 F

Method: c:\eschrom\methods\m200.met
File: d:\0803\hor3b.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	SG	GPM
Nitrogen	17.618	0.000	0.170	
Methane	71.299	721.786	0.395	
CO2	1.121	0.000	0.017	
Ethane	6.301	111.767	0.065	1.685
Propane	2.474	62.395	0.038	0.682
i-Butane	0.327	10.659	0.007	0.107
n-Butane	0.504	16.481	0.010	0.159
i-Pentane	0.145	5.815	0.004	0.053
n-Pentane	0.115	4.621	0.003	0.042
Hexanes	0.041	1.954	0.001	0.017
Heptanes	0.045	2.482	0.002	0.021
Octanes	0.010	0.626	0.000	0.005
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	938.585	0.712	2.770
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Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 940.667	Propane GPM = 0.107
Sat. = 925.475	Butane GPM = 0.212
Actual = 940.667	Gasoline GPM = 0.084
(0.000 lbs. water/MMCF)	26# Gasoline GPM = 0.137
	Total GPM = 0.403

Real Specific Gravity Calculated = 0.7131
On-Site Specific Gravity = 0.0000

Gas Compressability = 0.9978