

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

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

Chesapeake Operating, Inc.

3. Address P.O. Box 18496

Oklahoma City, OK 73154-0496

3a. Phone No. (include area code)

(405) 848-8000

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NW SE Sec 1-8S-24E

1850' FSL & 1980' FEL

At top prod. interval reported below

Same

At total depth

Same

14. Date Spudded

10/01/03

15. Date T.D. Reached

10/12/03

16. Date Completed

☐ D & A ☒ Ready to Prod.
01/21/0418. Total Depth: MD 4000'
TVD 4000'19. Plug Back T.D.: MD 3947'
TVD 3947'20. Depth Bridge Plug Set: MD
TVD NA21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CZ-D, CNL, GRL
DL, ML, GRL22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
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
17-1/2	13-3/8 H40	48#	0	501'		180 Thixo	244	Surf	
						280 Lite			
						500 Cl. C			
12-1/4	8-5/8 J55	24#	0	1,530'		180 T-ixo	290	Surf	
						550 Lite			
7-7/8	4-1/2 J55	11.6#	0	3,997'		450 C	60	3034'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
None		NA						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Abo "B"			3528-3599'	0.42"	30	Open
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
3528'-99'	Acidize w/1500 gal 15% NeFe w/45 BS, frac w/5000 gal Aquavis 30G & 20,000 gal 65Q Linear Foam Pad & 45,000 gal 65Q linear foam w/150,120# 20/40 Brown Sand

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
		24	→	0	123	4	NA		Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
48/64	NA	95 psi	→	0	123	4	NA	Producing	

28a. 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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

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

RECEIVED

FEB 13 2004

OCD-ARTESIA

ACCEPTED FOR RECORD
FEB 11 2004
ARMANDO A. LOPEZ
PETROLEUM ENGINEER

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	

RECEIVED

2004 FEB -5 AM 11:36

BUREAU OF LAND MGMT.
ROSWEEL OFFICE

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	

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

① Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other: C-103, Deviation Survey, Schematic

Name (please print) Andrew J. McCalmont Title Asset Manager

Signature James F. McCall Date 02/04/04

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.

WELL NAME AND NUMBER Coyote Federal No. 5

LOCATION 1980' FSL & 1980' FEL, Sec.1, T8S, R24E, Chaves Co. NM

OPERATOR Chesapeake Energy Corp.

DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>1/2° @ 515'</u>	<u> </u>	<u> </u>
<u>3/4° @ 1017'</u>	<u> </u>	<u> </u>
<u>1/2° @ 1508'</u>	<u> </u>	<u> </u>
<u>1° @ 2012'</u>	<u> </u>	<u> </u>
<u>3/4° @ 2484'</u>	<u> </u>	<u> </u>
<u>1° @ 3024'</u>	<u> </u>	<u> </u>
<u>1/2° @ 3525'</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

RECEIVED

FEB 13 2004

OCD-ARTESIA

Drilling Contractor United Drilling, Inc.

By: Dye A. Aho

Title: Business Manager

Subscribed and sworn to before me this 13th day of October,
2003.

Carlue Martin

Notary Public

My Commission Expires: 10-04-04

Chaves New Mexico
County State

CURRENT WELLBORE SCHEMATIC

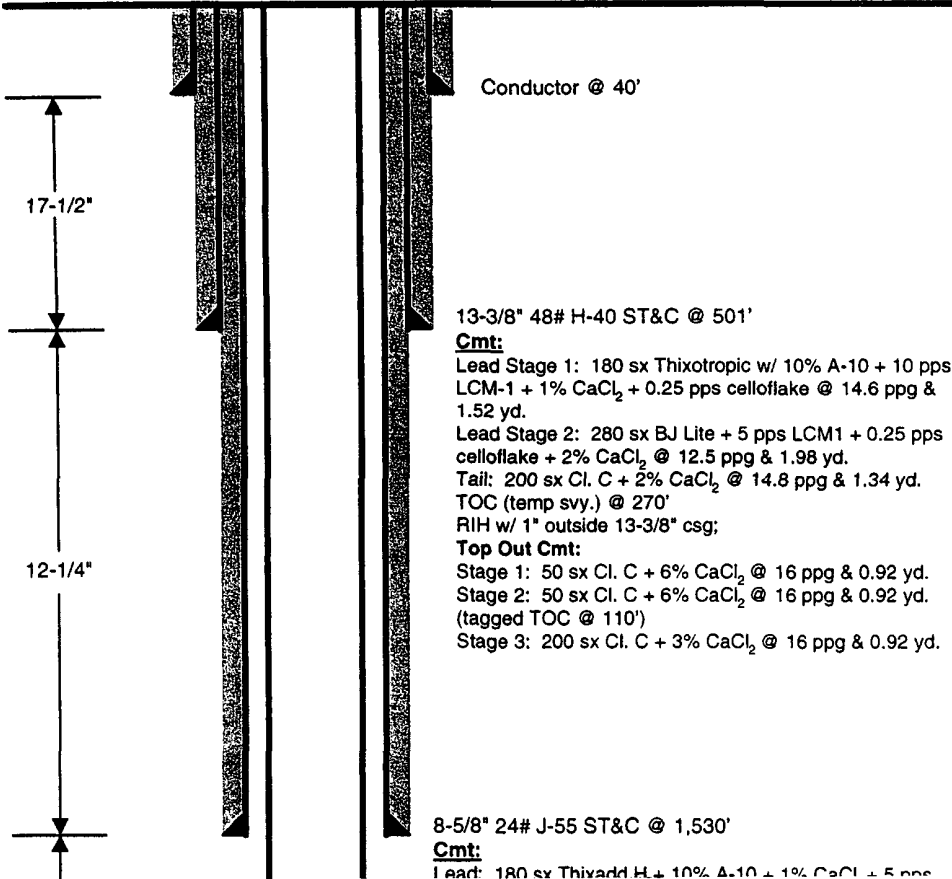
CHESAPEAKE OPERATING INC



WELL : COYOTE FEDERAL #5
FIELD : PECOS SLOPE; ABO (GAS)
COUNTY : CHAVES **STATE:** NM
OBJECTIVE : VERTICAL DEVELOPMENT WELL
LOCATION : 1,850' FSL & 1,980' FEL, SEC. 1-T8S-R24E
ELEVATION : 3,681' GL 3,690' RKB
LEASE SN : NMNM 16069

API #: 30-005-63580
SPUD DATE: 10/1/03
RIG RELEASED: 10/12/03
FIRST SALES: 1/21/04

**HOLE
SIZE**



Well History:

COMPLETION

10/21/03: Run CBL/CCL/GR log. Tag PBTD @ 3943' KBM, good cmt. from PBTD-3034' (TOC).
10/22/03: Perf Abo B @ 3528, 30, 32, 54, 57, 60, 63, 66, 69, 72, 83, 86, 89, 96, & 3599' w/ 2 spf, (0.42" holes, 23 gr., 180 Ph), 30 total holes. BD perfs w/ 2% KCl @ 4 bpm & 1643 psi to 453 psi. Acidize w/ 1500 gals 15% NeFe w/ 45 BS. Good ball action thruout job; balled out w/ 36 balls on fmtn. MTP 3000 psi, ATP 450 psi; ATR 6.3 bpm, MTR 6.5 bpm. ISIP 345 psi, 5 min 283 psi, 10 min 225 psi, 15 min 231 psi. TLTR 100 bbls. SD.
10/24/03: Pump 5000 gals Aquavis 30G @ 30 bpm & 990 psi. Pump 20K gal pad 65Q linear foam; frac w/ 45K gal 65Q linear foam & 150,120# 20/40 brown sand, staged from 1 to 5 ppg. Ran out of CO₂ w/ 160 bbls of frac slurry to pump, had 5 ppg sand on fmtn. ATR 22.5 bpm, Min TR 14.5 bpm, MTR 30.5 bpm. ATP 1954 psi, Min TP 1324 psi, MTP 2877 psi. ISIP 1150 psi, 5 min 966 psi, 10 min 919 psi, 15 min 888 psi. TLTR 724 bbls. RD.
10/26/03: Post frac FB 43 hrs, total 356 bbls foam wtr. FCP 245 psi on 22/64 ck at 6 am, foam water & CQ returns.
10/27/03: Post frac FB 74 hrs, rec total 516 bbls fluid (foamy wtr & CO₂). Est. flowrate 298 mcf w/ 20 psi FCP on 48/64 ck.
10/28/03: Post frac FB 94 hrs, rec total 576 bbls fluid (1-2 BPH foamy wtr & CO₂). Est. rate 298 mcf w/ 18 psi FCP on 48/64 ck.
10/29/03: Post frac FB 118 hrs, rec total 618 bbls fluid (1 BPH wtr, 80/20 gas/CQ). Est. rate 217 mcf w/ 15 psi FCP on 48/64 ck.
10/30/03: Post frac FB 142 hrs, rec total 684 bbls fluid (2 BPH wtr, 68/32 gas/CQ). Est. rate 188 mcf w/ 13 psi FCP on 48/64 ck.
10/31/03: Post frac FB 185 hrs, rec total 729 bbls fluid. Est. rate 29 BW & 188 mcf w/ 13 psi FCP on 48/64 ck, 25% CQ.
11/1/03: Post frac FB 209 hrs, rec total 755 bbls fluid. 15 BW & est. 188 mcf w/ 13 psi FCP on 48/64 ck, 20% CQ.
11/2/03: Post frac FB 233 hrs, rec total 774 bbls fluid. 19 bbl wtr. & est. 145 mcf w/ 10 psi FCP on 48/64 ck, 12% CQ.
11/7/03: RUPU. SICP 100 psi. Pump 40 bbls 2% KCl to kill well. TIH w/ bit, pump addl. 30 bbls 2% KCl to kill well. TIH to 3322'.
11/8/03: Tag & CO sand w/ foam unit from 3808-3947'. Circ bottoms up. LD bit & tbg, ND BOP, NU WH. SWI, RDPU.

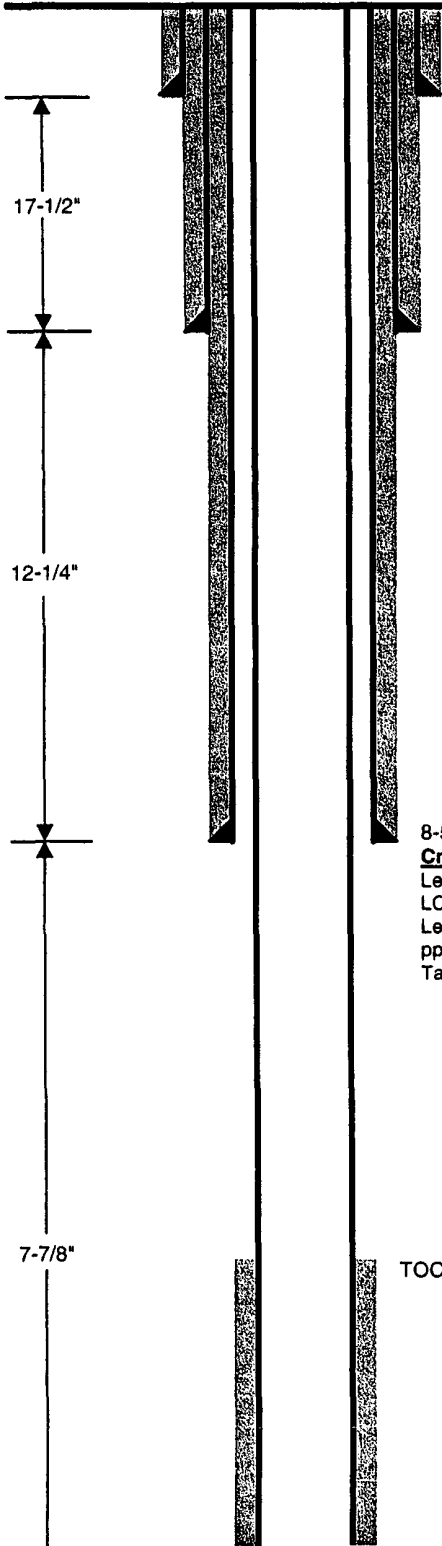
CURRENT WELLBORE SCHEMATIC
CHESAPEAKE OPERATING INC

WELL : COYOTE FEDERAL #5
FIELD : PECOS SLOPE; ABO (GAS)
COUNTY : CHAVES STATE: NM
OBJECTIVE : VERTICAL DEVELOPMENT WELL
LOCATION : 1,850' FSL & 1,980' FEL, SEC. 1-T8S-R24E
ELEVATION : 3,681' GL 3,690' RKB
LEASE SN : NMNM 16069



API #: 30-005-63580
SPUD DATE: 10/1/03
RIG RELEASED: 10/12/03
FIRST SALES: 1/21/04

HOLE
SIZE



Conductor @ 40'

13-3/8" 48# H-40 ST&C @ 501'

Cmt:

Lead Stage 1: 180 sx Thixotropic w/ 10% A-10 + 10 pps LCM-1 + 1% CaCl₂ + 0.25 pps celloflake @ 14.6 ppg & 1.52 yd.

Lead Stage 2: 280 sx BJ Lite + 5 pps LCM1 + 0.25 pps celloflake + 2% CaCl₂ @ 12.5 ppg & 1.98 yd.

Tail: 200 sx Cl. C + 2% CaCl₂ @ 14.8 ppg & 1.34 yd.

TOC (temp svy.) @ 270'

RIH w/ 1" outside 13-3/8" csg;

Top Out Cmt:

Stage 1: 50 sx Cl. C + 6% CaCl₂ @ 16 ppg & 0.92 yd.

Stage 2: 50 sx Cl. C + 6% CaCl₂ @ 16 ppg & 0.92 yd.

(tagged TOC @ 110')

Stage 3: 200 sx Cl. C + 3% CaCl₂ @ 16 ppg & 0.92 yd.

8-5/8" 24# J-55 ST&C @ 1,530'

Cmt:

Lead: 180 sx Thixadd H + 10% A-10 + 1% CaCl₂ + 5 pps LCM1 + 0.25 pps celloflake @ 14.6 ppg & 1.52 yd.

Lead Stage 2: 550 sx BJ Lite (35:65:6) + 2% CaCl₂ + 0.25 pps celloflake + 5 pps LCM 1 @ 12.6 ppg & 1.98 yd.

Tail: 200 sx Cl. C + 2% CaCl₂ @ 14.8 ppg & 1.34 yd.

TOC (CBL) @ 3,034'

Well History:

COMPLETION

10/21/03: Run CBL/CCL/GR log. Tag PBTD @ 3943' KBM, good cmt. from PBTD-3034' (TOC).

10/22/03: Perf Abo B @ 3528, 30, 32, 54, 57, 60, 63, 66, 69, 83, 86, 89, 96, & 3599' w/ 2 spf, (0.42" holes, 23 gr., 180 Ph) 30 total holes. BD perfs w/ 2% KCl @ 4 bpm & 1643 psi to 4 psi. Acidize w/ 1500 gals 15% NeFe w/ 45 BS. Good ball ac thruout job; balled out w/ 36 balls on fmtn. MTP 3000 psi, A1 450 psi; ATR 6.3 bpm, MTR 6.5 bpm. ISIP 345 psi, 5 min 28; 10 min 225 psi, 15 min 231 psi. TLTR 100 bbls. SD.

10/24/03: Pump 5000 gals Aquavis 30G @ 30 bpm & 990 ps Pump 20K gal pad 65Q linear foam; frac w/ 45K gal 65Q line foam & 150,120# 20/40 brown sand, staged from 1 to 5 ppg.

out of CO₂ w/ 160 bbls of frac slurry to pump, had 5 ppg sanc fmtn. ATR 22.5 bpm, Min TR 14.5 bpm, MTR 30.5 bpm. AT. 1954 psi, Min TP 1324 psi, MTP 2877 psi. ISIP 1150 psi, 5 r 966 psi, 10 min 919 psi, 15 min 888 psi. TLTR 724 bbls. RC

10/26/03: Post frac FB 43 hrs, total 356 bbls foam wtr. FCP psi on 22/64 ck at 6 am, foam water & CQ returns.

10/27/03: Post frac FB 74 hrs, rec total 516 bbls fluid (foamy & CO₂) Est. flowrate 298 mcf w/ 20 psi FCP on 48/64 ck.

10/28/03: Post frac FB 94 hrs, rec total 576 bbls fluid (1-2 BF foamy wtr & CO₂) Est. rate 298 mcf w/ 18 psi FCP on 48/64 c

10/29/03: Post frac FB 118 hrs, rec total 618 bbls fluid (1 BF wtr, 80/20 gas/CQ₂) Est. rate 217 mcf w/ 15 psi FCP on 48/64

10/30/03: Post frac FB 142 hrs, rec total 684 bbls fluid (2 BF wtr, 68/32 gas/CQ₂) Est. rate 188 mcf w/ 13 psi FCP on 48/64

10/31/03: Post frac FB 185 hrs, rec total 729 bbls fluid. Est. 29 BW & 188 mcf w/ 13 psi FCP on 48/64 ck, 25% CQ.

11/1/03: Post frac FB 209 hrs, rec total 755 bbls fluid. 15 BV est. 188 mcf w/ 13 psi FCP on 48/64 ck, 20% CQ.

11/2/03: Post frac FB 233 hrs, rec total 774 bbls fluid. 19 bb & est. 145 mcf w/ 10 psi FCP on 48/64 ck, 12% CQ.

11/7/03: RUPU. SICP 100 psi. Pump 40 bbls 2% KCl to kill. TIH w/ bit, pump addl. 30 bbls 2% KCL to kill well. TIH to 33;

11/8/03: Tag & CO sand w/ foam unit from 3808-3947'. Circ bottoms up. LD bit & tbg, ND BOP, NU WH. SWI, RDPU.

11/9/03-1/20/04: SI WOPLC.

1/21/04: First gas sales to Agave @ 2:30 pm 1/21/04

1/22/04: 15 hr. rate: 108 mcf, 0 BO, 0 BW on 48/64 ck; CP

1/23/04: 24 hr. rate: 123 mcf, 0 BO, 4 BW on 48/64 ck; CP

RECEIVE
2004 FEB -5 AM
BUREAU OF LAND
ROSWELL OFF