

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5. Lease Serial No.

NMNM022584

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Otherb. 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 SW NE 1980' FNL & 980' FEL

At top prod. interval reported below Same

At total depth Same

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6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Chaves A Federal 6

9. API Well No.

30-005-63571

10. Field and Pool, or Exploratory

Pecos Slope; Abo

11. Sec., T., R., M., on Block and
Survey or Area 21-7S-26E12. County or Parish
Chaves13. State
NM

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

GL: 3716'

14. Date Spudded

09/02/03

15. Date T.D. Reached

09/13/03

16. Date Completed

☐ D & A ☒ Ready to Prod.
11/24/0318. Total Depth: MD 4500'
TVD 4500'19. Plug Back T.D.: MD 4435'
TVD20. Depth Bridge Plug Set: MD
TVD NA

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Dual Laterolog Micro Laterolog GR

Comp Z-Densilog Comp-Neutron; GR

22. 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4	8-5/8	24#	0	715'		300 Lite		Surf	
	J-55					200 C1 C			
7-7/8	4-1/2	11.6#	0	4,492		275 C1 C		3342'	
	J-55								

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	4219'	NA						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Abo B	4026	4095	4026-97'	0.42" 2	spf 22	Open
B) Abo C	4224	4299	4224-98'	0.42" 2	spf 22	Open
C)			80° phasing 23 gram chg			
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4224-98' OA	Acidize w/1000 gal 15% NeFe; Frac w/65,000 gal 65Q C02 foamed Aquavis 30 w/ 150,000# 20/40 Brady sd, flush w/2000 gal 15% NeFe +29 bbl Aquavis 30
4026-97' OA	Acidize w/1500 gal 15% NeFe, frac q/65,000 gal 65Q C02 foamed Aquavis 30 w/150,090# 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
11/24/03	3/17/03	24	→	0	308	0	NA		f lowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
17/64	100	160	→	0	308	0	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.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

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

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.)

Sold

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Abo	4076	4095	Gas	San Andres	670
Abo	4224	4228	Gas	Glorietta	1810
Abo	4277	4299	Gas	Tubb	3241
				Abo	3912

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

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:

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) Andrew J. McCalmont Title Asset ManagerSignature Andrew J. McCalmontDate 12/15/03

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 Chaves Federal No. 6LOCATION 1980' FSL & 1980' FEL, Section 17, T7S, R26E, Chaves County NMOPERATOR Chesapeake Operating, Inc.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:

Degrees @ DepthDegrees @ DepthDegrees @ Depth1/2° 516'1/2° 1036'3/4° 1509'3/4° 2015'1/2° 2997'3/4° 3534'1/2° 4008'

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Drilling Contractor United Drilling, Inc.By: Angel Salazar

Angel Salazar

Title: Vice President

Subscribed and sworn to before me this 15th day of September,
2003.

Karma Tashewsky
Notary PublicMy Commission Expires: 09-25-03Chaves
CountyNM
State

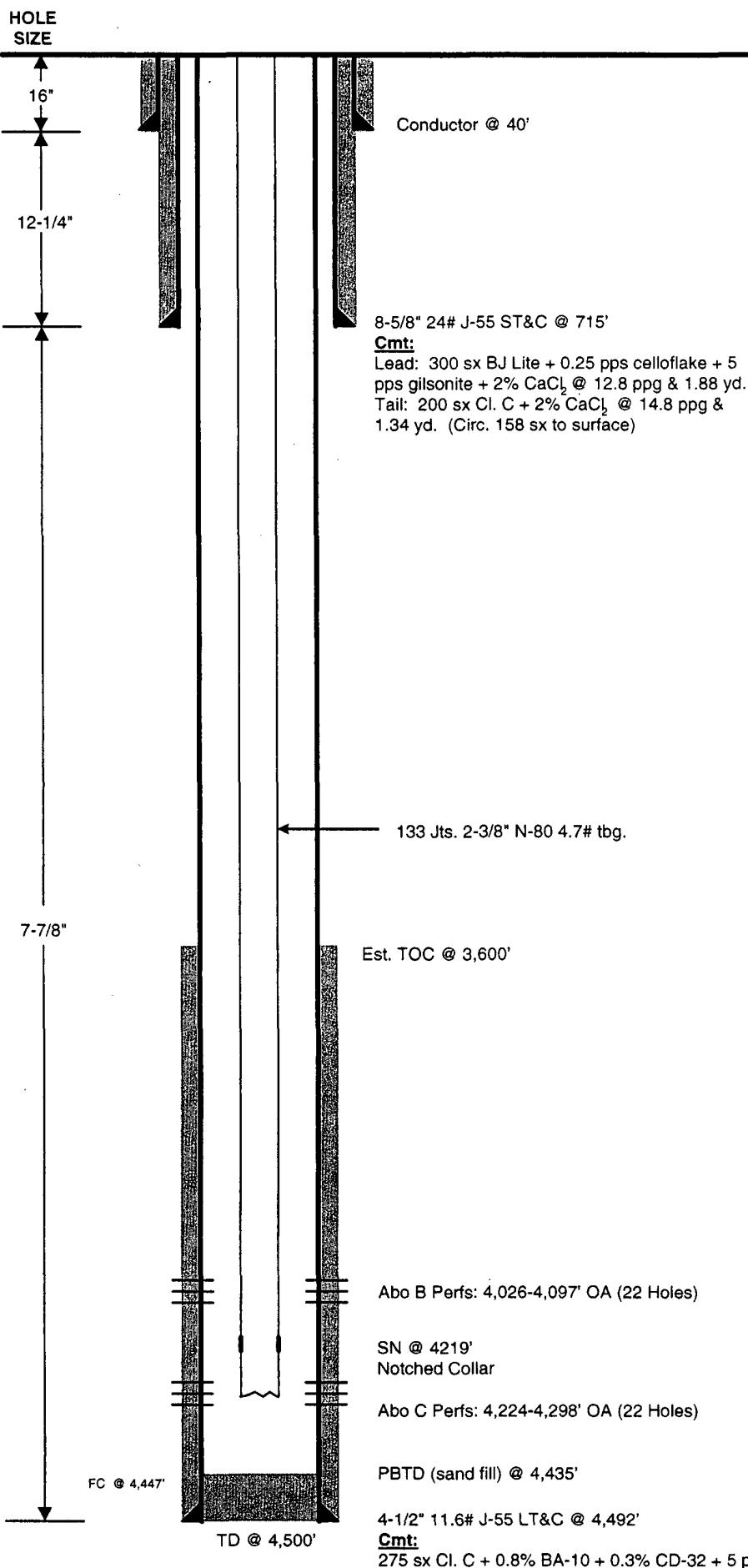
CURRENT WELLBORE SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : CHAVES A FEDERAL 6
FIELD : PECOS SLOPE
COUNTY : CHAVES STATE: NM
OBJECTIVE : VERTICAL DEVELOPMENT WELL
LOCATION : 1,980' FNL & 1,980' FEL, SEC. 21-T7S-R26E
ELEVATION : 3,716' GL 3,725' RKB
BLM LEASE : NM-022584



API #: 30-005-63571
SPUD DATE: 9/2/03
RIG RELEASED: 9/12/03
FIRST SALES: 11/24/03



Well History:

COMPLETION

10/8/03: Perf ABO C @ 4,224-98' OA, total 22 holes. BD Perfs @ 1007 psi w/ 1000 gals. NeFe acid. Frac Abo C w/ 20,000 gals. 65Q CQ foamed Aqua Vis 30 pad & 45,000 gals. 65Q CQ Aqua Vis 30 foam w/ 1-5 ppg 20/40 Brady sand, ramped to 5 ppg (total 150K# sand). Flush w/ 2000 gals 15% NeFe + 29 bbls. Aqua Vis 30. ISIP 930 psi, 5 min 852 psi, 10 min 812 psi, 15 min 795 psi. ATP 2330 psi, ATR 29.9 BPM, MTP 2599 psi, 769 BLTR. RIH w/ GR/JB to 4250'. MU & RIH w/ Baker Composite BP. Set @ 4160'. Perf Abo B @ 4026, 4029, 4032, 4076, 4079, 4082, 4085, 4088, 4091, 4094, & 4097' w/ 2 spf, 180Ph, 0.42" holes. Perfs would not break. RIH w/ dump bailer w/ 15% NeFe, tag sand @ 3927'. Bailer stuck in sand, unable to get past 3926'. Sand fill came in after perfring Abo B. Attempt to free bailer, pulled out of rope socket. POOH w/ elec. cable, rel. all equip. Prepare to fish dump bailer & CO tbq. SWI, WO tbq.

10/11/03: Tally tbq. RU PU; well on vac. ND frac valve, NU WH.

10/13/03: RIH w/ bit, BS, 6 DC's & 40 jts. tbq. Foam out csg, mud, acid water, & gel water returns. Tag fish @ 3931', foam out csg, tag fish @ 4026', push down hole. SD 1 hr, RIH & tag fish @ 4074'.

10/14/03: RIH w/ skirted overshot, bumper sub & jars; caught & TOH w/ fish. RIH w/ bit, tag sand @ 4088' & CO to 4150' w/ foam unit. SISD.

10/15/03: TIH w/ 8' sub, Arrowset Pkr, SN, & 130 jts. tbq. Set Pkr @ 4145'. Test Composite BP to 3000 psi, rel. pkr. & re-set @ 3962'. Acidize w/ 1500 gals. 15% NeFe, broke back @ 3400 to 2900 psi when acid on fmtn. @ 6 BPM. Flush w/ 35 bbls. 2% KCl. ISIP 560 psi, 5 min 360 psi, 10 min 330 psi, 15 min 320 psi. Min TP 2600 psi, Max TP 3400 psi, ATP 2900 psi. Min TR, Max TR, & ATR 6 BPM. TLTR 85 Bbls. TOH w/ pkr, SN & tbq. ND BOP & WH, NU frac valve, RDPU, SISD.

10/23/03: Test lines & load well. Pump 5000 gals Aquavis 30G. Pump 20,000 gal. pad 65Q foam, frac w/ 45,000 gal 65Q foam & 150,090# 20/40 brown sand. Ran out of CQ w/ 220 bbls. sand laden fluid left. Had 5 ppg sand on fmtn. pumping @ 30 BPM & 2545 psi. Finished frac w/ gel @ 23 BPM & 950 psi. MTR 30.1 bpm, ATR 25.6 bpm, Min TR 17.6 bpm. MTP 2567 psi, ATP 1933 psi, Min TP 947 psi. ISIP 947 psi, 5 min 724 psi, 10 min 685 psi, 15 min 670 psi. TLTR 638 bbls.

10/25/03: Post frac FB 56 hrs, total 465 bbls foam wtr. Last 10 hrs. lifting 1 BPH, some CQ returns. FCP 20 psi on 48/64 ck, SWI @ 6 am.

10/29/03: RUPU, prepare to run tbq.

10/30/03: SICP 550 psi. Kill well w/ 20 bbls KCl. TIH w/ bit & DC's, DO plug. Wash down and tag TD @ 4435'. Circ. bottoms up; SISD.

10/31/03: Kill well. CO sand from 4420' to 4435' KBM, circ. bottoms up. TIH w/ notched collar, SN & 133 jts. tbq. 15 hr. flow test 2-3 bwph, 590 mcf w/ 20% CQ, on 32/64 ck, 60 psi FTP, 225 psi CP. D-120, S-55.

11/1/03: 24 hr. FT: Est. 395 mcf, 25% CQ, on 32/64 ck w/ 80 psi TP & 155 psi CP. FB 23 bbls foam & water, 53 bbls total in last 32 hrs.

11/2/03: 24 hr. FT: Est. 611 mcf, 20% CQ, on 32/64 ck w/ 65 psi TP & 125 psi CP. FB 19 bbls foam & water, 72 bbls total in last 59 hrs.

11/3/03: 24 hr. FT: Est. 616 mcf, 12% CQ, on 24/64 ck w/ 70 psi TP & 125 psi CP. FB 13 bbls water, 85 bbls total in last 89 hrs.

11/4/03: 24 hr. FT: Est. 465 mcf, 12% CQ, on 16/64 ck w/ 125 psi TP & 150 psi CP. No fluid prodn. last 24 hrs.

11/5/03: SI @ 7 am. Rel. FT & test sep. Held 55# BP on sep while flwg.

11/24/03: 1st gas sales @ 2:40 pm to Commanche; spot rate 376 mcf/d.

PREPARED BY : Ginni A. Kennedy

DATE : 9/15/03

UPDATED BY : Ginni A. Kennedy

DATE : 11/25/03