

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 WELL API NO. 30-025-36475 5. Indicate Type of Lease STATE ☐ FEE ☒ State Oil & Gas Lease No.
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____			7. Lease Name or Unit Agreement Name Boyce 15		
b. Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. ☐ WELL OVER BACK RESVR. ☐ OTHER			8. Well No. 5		
2. Name of Operator Chesapeake Operating, Inc.			9. Pool name or Wildcat <i>Atoka N</i> Shoe-Bar; Strawn, NM		
3. Address of Operator P. O. Box 18496 Oklahoma City, OK 73154-0496					
4. Well Location Unit Letter <u>B</u> : <u>330</u> Feet From The <u>North</u> Line and <u>1650</u> Feet From The <u>East</u> Line Section <u>15</u> Township <u>16S</u> Range <u>35E</u> NMPM <u>Lea</u> County					
10. Date Spudded 12/03/03	11. Date T.D. Reached 12/30/03	12. Date Compl. (Ready to Prod.) 02/03/04	13. Elevations (DF& RKB, RT, GR, etc.) GL: 3991'	14. Elev. Casinghead 3992'	
15. Total Depth 11800'	16. Plug Back T.D. 11720'	17. If Multiple Compl. How Many Zones? <u>NA</u>	18. Intervals Drilled By 0-TD	19. Producing Interval(s), of this completion - Top, Bottom, Name 11498-508'; 11450-460' Middle & Upr Atoka 11630-640 Lwr Atoka	
21. Type Electric and Other Logs Run DAGR; DIF, GR Log; CZ-DGCNL, DS, GR			20. Was Directional Survey Made Yes		
22. Was Well Cored No			23. CASING RECORD (Report all strings set in well)		
CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48#	449'	17-1/2"	450 C1 C	
8-5/8	32#	4,200'	11"	950 Poz	
				200 C1 C	
5-1/2	17# & 20#	11,800'	7-7/8"	230 Poz & 580 H	1st Stg
				650 Poz & 150 C1	2nd Stg
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	
26. Perforation record (interval, size, and number) Lwr Atoka 11630-640'; 0.42", 40 holes Mdl Atoka 11498-508'; 0.42" 40 holes Upr Atoka 11450-460'; 0.42" 40 holes			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 11630-40 54 bbls 2% KCl & 24 bbls Methanol; 74 bbls 2% frac w/10K gal 65Q CO2 Aquavis 30 pad & 20K gal 65Q AquaVis 30 + 3L, 692# Versaprop 20/40 mesh sand,		
28. PRODUCTION					
Date First Production 01/31/04		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing		Well Status (Prod. or Shut-in) Prod.	
Date of Test 02/10/04	Hours Tested 24	Choke Size 64/64"	Prod'n For Test Period 24 hrs	Oil - Bbl 17	Gas - MCF 515
Flow Tubing Press. 60	Casing Pressure 0	Calculated 24-Hour Rate	Oil - Bbl 17	Gas - MCF 515	Water - Bbl 0
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold			Test Witnessed By		
30. List Attachments Logs, Deviation Report, Schematic, C-103, C-104					
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief					
Signature <i>Barbara J. Bale for</i>		Printed Name Andrew J. McCalmon		Title Asset Manager	
E-mail Address <i>Andrew.McCalmon</i>				Date 02/23/04	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 1871	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 11170	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 11443	T. Pictured Cliffs	T. Penn. "D"
T. Yates 3044	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers 3331	T. Devonian	T. Menefee	T. Madison
T. Queen 3924	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg 4319	T. Montoya	T. Mancos	T. McCracken
T. San Andres 4669	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 6207	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb 7370	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo 8103	T.	T. Wingate	T.
T. Wolfcamp 9511	T.	T. Chinle	T.
T. Penn 10727	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
 No. 2, from.....to.....
 No. 3, from.....to.....
 No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
0	1871	1871	Redbed				
1871	3044	1173	Salt & Anhydrite				
3044	3331	287	sand				
3331	4669	1338	anhydrite, dolomite, salt, sand				
4669	6207	1538	dolomite				
6207	8103	1896	dolomite & Sand				
7103	9511	1408	dolomite				
9511	10727	1216	limestone				
10727	11170	443	shale				
11170	11443	273	limestone				
11443	11800	357	shale & Sand				

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Flush w/2785 gal 65Q AquaVis 30 foamed linear gel fluid

Middle & Upper Atoka (11498-508' & 11450-60')

Acidize w/2000 gal Isosol acid & 80 BS, slushed w/277 bbls foamed frac fluid, frac q/12,000 gal AquaVis 30 + 65Q CO2 foam pad followed by 30,000 gal AquaVis 30 +65Q Foam w/60,000 20/40 VersaProp. Flush w/5040 gal AquaVis 30 + 65Q Foam.



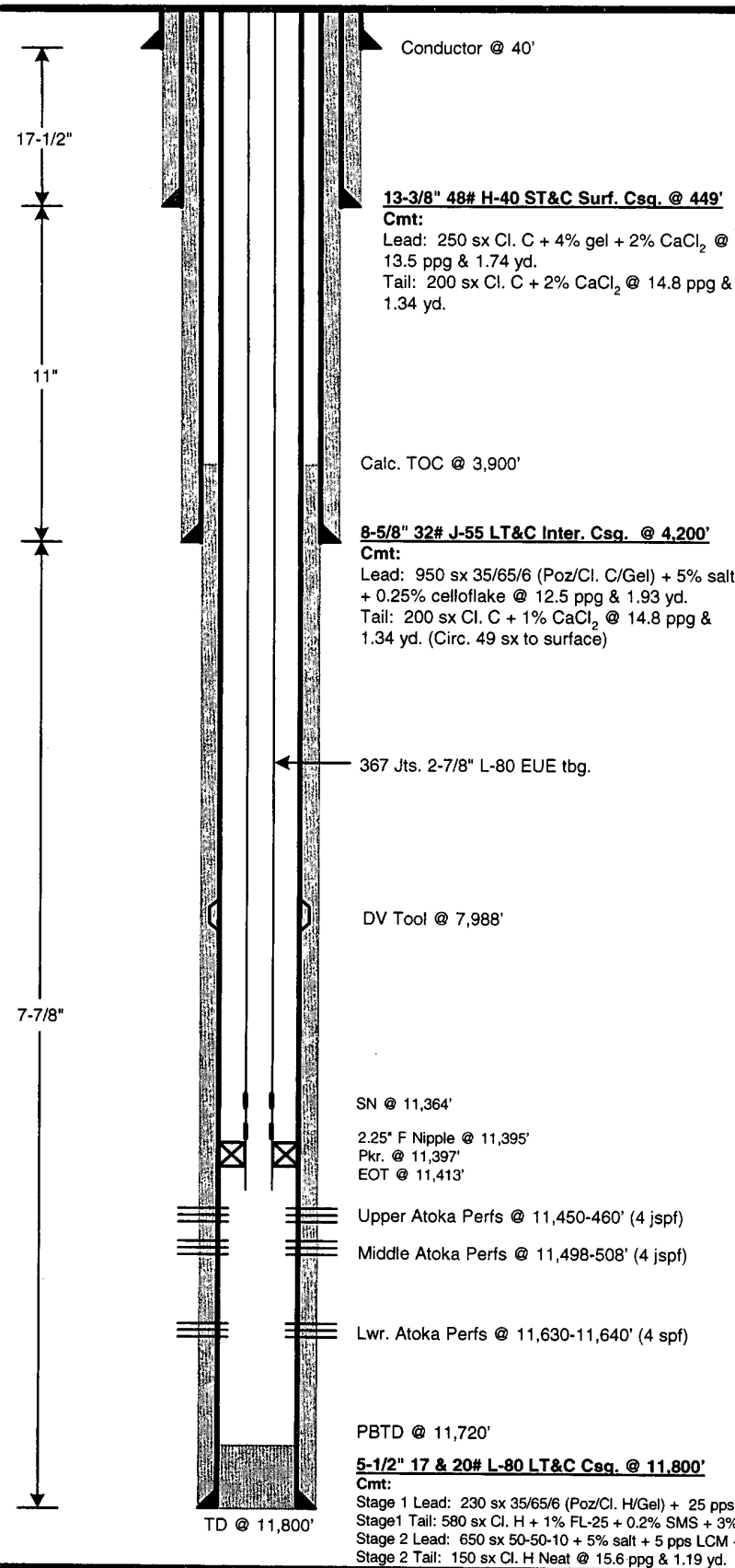
CURRENT WELLBORE SCHEMATIC
CHESAPEAKE OPERATING INC.

WELL : BOYCE 5-15
LOCATION : 330' FNL & 1,650' FEL, SEC. 15-16S-35E
COUNTY : LEA STATE : NM
FIELD : SHOE BAR, NW
ELEVATION : 3,991' GL 4,006' RKB



API #: 30-025-36475
SPUD DATE: 12/3/03
RIG RELEASED: 12/30/03
FIRST SALES: 2/3/04

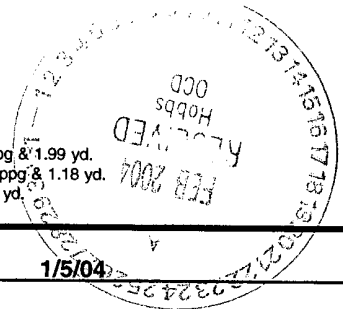
Hole Size



Well History:

COMPLETION

1/13-15/04: TIH w/ bit, bit sub & 6 DC. Tag cmt. @ 7950', drill 39' thru DV tool & DO to hard cmt. @ 11,720'. Test csg. to 2000 psi, displace w/ 2% KCl.
1/16-17/04: Run CBL/CCL/GR from PBTD 11,720-9740' & across DV tool from 8100-7900' w/ 2000 psi on csg.
1/19-20/04: RIH w/ Model R pkr, SN, & 2-7/8" tbg; set pkr @ 11,586'. NU WH, test csg. to 2000 psi. Swab down to 3000', perf lower Atoka from 11,630-640 w/ 4 spf (40 holes). TIH w/ swab, IFL 2300'; swab down to 7100', well started flowing gas @ 8 psi FTP on 64/64 ck. Built 45 psi after 3 min SI.
1/21/04: SITP 1500 psi. Pump 2% KCl @ 0.5 bpm; @ 54 bbls & 3911 psi, broke back to 3700 psi. Pump 24 bbls methanol @ 5 bpm & 5200 psi; flush w/ 74 bbls 2% KCl. ISIP 3550#, 5 min 2390, 10 min 1942, 15 min 1425. MTP 5290#, ATP 5200#. MTR 5 bpm, ATR 5 bpm. SITP 0 psi after 1 hr. TIH w/ swab, IFL @ surface. Swab 17 runs down to SN, rec. 65 bbls.
1/22/04: SITP 1450 psi. Open well on 32/64 ck, bled off in 1 hr. TIH w/ swab, IFL 7700'. Swab to SN, FL scattered from 10,500-SN. Rec. 20 BF. 12' flare burning w/ open choke & 7 psi FTP. SISD.
1/23/04: Bled of 1800 psi TP; rel pkr & TOH w/ tbg, SN & pkr. NU frac valve.
1/24/04: 16 hr. SICP 82 psi. Pump 10K gals 65Q CO₂ AquaVis 30 pad. Frac w/ 20K gal. 65Q AquaVis 30 & 31,692# Versaprop 20/40 mesh sand, ramping from 1 to 3#. Flush w/ 2785 ggal. 65Q AquaVis 30 foamed linear gel fluid. ISIP 4597#, 5 min 4001#, 10 min 3924#, 15 min 3859#. ATP 5818#, MTP 5959#. TLTR 425 bbls. TIH w/ GR & tag sand @ 11,656'. TIH w/ Halliburton fast drill composite BP & set @ 11,600'. Test BP to 4500 psi, SISD.
1/26/04: Perf Upper/Middle Atoka & 11,450-460' & 11,498-508' w/ 4 jsp, 60 ° Ph. 0.42". Pumped methanol ahead of acid; treated perfs w/ 2000 gal. Isosol acid, dropping 80 BS evenly spaced; fmn. broke @ 4442 psi. Good ball action. Flushed w/ 277 bbls foamed frac fluid. MTP 4609#, ATP 4100#. ISIP 4270#, 5 min 3341#, 10 min 3304#, 15 min 3280#. TLTR 345 bbls. Open on 12/64 ck w/ 2820 psi. Flowed down to 0 psi in 1 hr. Prep to frac.
1/27/04: Frac U & M Atoka perfs as follows: 12,000 gal AquaVis 30 + 65Q CO₂ foam pad followed by 30,000 gal AquaVis 30 + 65Q Foam w/ 60,000# 20/40 VersaProp ramped from 0.5 to 3 ppg. Flush w/ 5040 gal. AquaVis 30 + 65Q Foam. Screened out w/ 120 bbls of flush pumped. MTP 7163 psi (at SO); ATP 4962 psi. MTR 27.5 bpm, ATR 26.8 bpm. TLTR (frac + acid load) 750 bbls. Total sand thru perfs 45K#, est. 15K# left in csg. Opened up and FB overnight to unload gel and frac sand. Rec. 101 BLW, 649 BLTR. Prep. to CO well.
1/28/04: TIH w/ bit, BS, DC's & tbg. break circ @ 10,835', cont. in hole and tag up @ 10,840. LD 30 jts. tbg, start back in hole and tag solid @ 10,405' (435' higher than previous depth). Drill on obstruction, recover rubber & small amt. of sand. Finally fell free & unloaded large slug frac fluid & sand. Tag up @ 10,954, pull up to 10,835' & SWL. Will CO to PBTD in am.
1/29/04: Tag @ 11,079' & CO sand w/ foam down to 11,600'. DO composite BP @ 11,600' & chase down hole. CO to 11,700'. Well flwg up csg; unloading frac fluid. SI tbg. & leave flowing up csg ON. FCP on 64/64 ck 125-300 psi.
1/30-31/04: Well flwg to pit est. 800 mcf w/ slight cond. & 12-15' flare. Kill well to run pkr. w/ FSG blanking plug & tbg. Set pkr @ 11,397', EOT @ 11,413'. TIH w/ swab, swab dwn to 4500'. RU slickline truck, TIH w/ retrieving tool and latch plug in pkr. Pull prong and TOH w/ tools. FL rose to 2700'. TIH w/ pulling tool & latch FSG plug & pull out of profile nipple.; FL @ 800'. Open well w/ 200 psi; RIH w/ swab, IFL @ surf. well KO on 2nd run. Flwg. on 48/64 ck w/ 46 psi FTP, est. 667 mcf, 10% CO₂. Rec 29 BLW, 270 BLTR.
2/1/04: 24 hr. FR thru test equip: 546 mcf (7% CO₂), 14.9 BC, 23.2 BW on 48/64 ck thru 1.5" meter orifice. 247 BLTR.
2/2/04: At report time: Well flwg. on 48/64 ck, est. 540 mcf, 6% CO₂; producing 1 bbl fluid/hr., 60% cond, 40% water. Rec. 72 BW, 28 BC.
2/3/04: 7 am est. FR: 540 mcf w/ 46 psi FTP on 48/64 ck. Put down sales line @ 12:45 pm. Est. FR 492 mcf (4% CO₂) w/ 56 psi FTP on 48/64 ck. Prod. 1 bbl/hr. fluid, 70% condensate.
2/4/04: 7 am est. FR: 482 mcf w/ 54 psi FTP on 48/64 ck. Put thru prodn. equip. @ 10 am; 7 pm est. FR: 494 mcf w/ 66 psi FTP on 64/64 ck, 0.8 BC/hr.
2/5/04: Sold 488 mcf & prod. 10 BC. Est. FR @ report time: 470 mcf @ 63 psi FTP on 64/64 ck. Turn well over to pumper. Final Report.



PREPARED BY: Ginni A. Kennedy
UPDATED BY: Ginni A. Kennedy

DATE: 1/5/04
DATE: 2/6/04