Form 3160-5 (August 1999)

(Instructions on reverse)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000

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.

5.	If Indian, Allottee or Tribe	Name

5. Lease Serial No. NM 69369

SUBMIT IN TRI	PLICATE - Other instruc	tions on reverse	©€ IVE∪	7. If Unit	or CA/Agreement, Name and/or No.	
	Other		P 1 4 2005	8. Well Na	ame and No.	
2. Name of Operator Chesapeake Operating, In-	С			9. API We	ell No.	
3a. Address 3b. Phone No. (include area code) P. O. Box 11050 Midland TX 79702-8050 (432)687-2992			e area code)	30-015-23977 10. Field and Pool, or Exploratory Area		
4. Location of Well (Footage, Sec 1980' FSL & 1980' FWL, S	c., T., R., M., or Survey Description ection 1, T24S, R31E	1)			Oraw; Delaware or Parish, State xico	
12. CHECK AP	PROPRIATE BOX(ES) TO	INDICATE NATU	RE OF NOTICE, R	EPORT, O	R OTHER DATA	
TYPE OF SUBMISSION		TY	PE OF ACTION			
Notice of Intent	☐ Acidize ☐ Alter Casing	Deepen Fracture Treat	Production (Star	t/ Resume)	☐ Water Shut-Off ☐ Well Integrity	
☐ Subsequent Report ☐ Final Abandonment Notice	Change Plans	New Construction Plug and Abandon Plug Back	Recomplete Temporarily Ab Water Disposal	andon	Other	
If the proposal is to deepen dire Attach the Bond under which the following completion of the inv	ectionally or recomplete horizontall the work will be performed or provi- volved operations. If the operation re- tal Abandonment Notices shall be f	y, give subsurface location de the Bond No. on file we esults in a multiple compl	ns measured and true voith BLM/BIA. Required etion or recompletion in	ertical depths d subsequent in a new interv	reports shall be filed within 30 days al, a Form 3160-4 shall be filed once	

Chesapeake, respectfully, request permission to plug back this well according to the attached Amended Workover Procedure.

ACCEPTED FOR RECORD

SEP 1 2 2005

LES BABYAK
PETROLEUM ENGINEER

 I hereby certify that the foregoing is true and correct Name (Printed/Typed) 	Title				
Brenda Coffman	Regulatory Analyst				
Signature Ofman	Date 09/07/2005				
THIS SPACE FOR FED	ERAL OR STATE OFFICE U	SE			
Approved by	Title	Date			
Conditions of approval, if any, are attached. Approval of this notice does not certify that the applicant holds legal or equitable title to those rights in the sub which would entitle the applicant to conduct operations thereon.					

Sotol Federal #2 Workover Procedure Eddy County, New Mexico

REVISED September 7, 2005

GENERAL INFORMATION

Location: 1980' FSL & 1980' FWL, Sec 1 - T24S - R31E

API No.: 30-015-23977

WELL INFORMATION

String OD	Weight & Grade	Depth	ID	Drift_	<u>Burst</u>	<u>TOC</u>
13-3/8"	54.5#	0' - 4538'	12.615"	12.459"	2730	<u>o</u> ,
9-5/8"	47# S95	0' - 12250'	8.681"	8.525"	6870	0'

Lower Brushy Canyon perfs: 7556 – 8325' (OA) Proposed Brushy Canyon perfs: 7044 – 7274' (OA)

TD/PBTD: 15615'/ 8575'

PROCEDURE:

- 1. MIRU Service Rig and requisite equipment. POOH w/ pump and rods. ND wellhead and NU BOP. POOH with 2-7/8" 6.5# N80 tubing. (TAC set @ 8315')
- 2. Set a CIBP@ 7506'. Bail 2 sx of cement on plug.
- Load hole with 2% KCL and pressure test to 3000#.
- 4. Run a GR/CCL/CBL from 7500' to 6900'. Correlate to OH Neutron/Density log dated 3-1-82.
- 5. Shoot two squeeze holes at 7450'.
- 6. RIH w/ packer and set at ~7400'. Load and test annulus to 1000#. Attempt to establish circulation for squeeze. Squeeze with 200 sacks of Neat Cement per recommendation. If unable to establish circulation, POOH with packer. Shoot two additional holes at 6900'. RIH w/ CR via tubing. Set at ~7400'. Establish circulation and squeeze backside with 200 sacks of Neat Cement per recommendation. Sting out of CR and circulate clean. POOH with tubing. WOC. RIH w/ bit to verify drift ID and PBTD.
- 7. Run a GR/CCL/CBL from 7500' to 6900' to ensure good bond. Correlate to OH Neutron/Density log dated 3-1-82.
- 8. Perforate the Brushy Canyon via 4-1/2" casing gun from 7268 74, 7214' 20', 7196 7208', 7164 72', 7078 84', and 7044 62' w/ 1 SPF (43 holes), 90 degree phasing, 23 gram charge, .34" hole. Correlate to OH Neutron/Density log dated 3-1-82
- 9. RIH w/ Arrowset packer with on/off tool, profile nipple, and 2-7/8" N-80 tubing. Pressure test tubing in hole. Swing packer at 7274'. Spot 770 gal of 7.5% HCL containing 200 gpt of methanol, corrosion inhibitor, clay stabilizer, surfactant, and

- iron control additives. Pull packer to ~6990', reverse circulate to ensure acid is clear of packer, and set packer. ND BOP, NU tree. Load and test annulus to 1500#.
- 10. Establish rate w/ 2% KCL and acidize with 1000 gal of same 7.5 % HCl acid.
 Displace to perfs with 2% KCl. Obtain rates of 3 to 4 BPM. Max pr 5000#. Launch 60 ball sealers during job. Displace to top perf.
- 11. Flow/swab back job. Prep to frac. Set and load frac tanks with lease water from Littlefield SWD.
- 12. Kill well with 2% KCL if required. ND tree, NU BOP. POOH w/ tubing and packer. NU frac valve. MIRU Frac Service Company. Tie on to casing and establish rate w/ 10,000 gal lease water pad containing additives per frac schedule. Frac zone with 140,000 gal of lease water containing additives per frac schedule and 35,000# 18/40 Lite Prop. Use resin coat on last 5000#. Ramp from .1 ppg to 1.5 ppg at tail-in. Obtain rates approaching 40 BPM, max pr 3000#. Displace to perfs w/ lease water. Anticipated treating pressure ~1000#.
- 13. Obtain 5, 10, and 15 min SI data. RDMO Frac Service Company.
- 14. Check PBTD for any fill with slickline unit.
- 15. RIH w/ MA, PS, SN, TAC and 2-7/8" tubing. Space out and land SN ~7275'.
- 16. Swab well in to clean up.
- 17. RIH w/ 1-3/4" pump and tapered rod string. Space out and seat pump. Load and test. PWOP.