District A State of New Mexico Form C-101 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Matural Resources May 27, 2004 District II 1301 W. Grand Avenue, Artesia, NM 88210 Submit to appropriate District Office District III Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 220 South St2 ☐ AMENDED REPORT District IV. 1220 S. St. Francis Dr., Santa Fe, NM 87505 EPÆN, PLUGBACK, OR ADD A ZONE APPLICATIONFOR PERMIT TO DRI Operator Name and Address 147179 Chesapeake Operating Inc. P. O. Box 11050 Midland, TX 79702-8050 API Number 30 -015-24708 6 Well No. Property Name **PropertyCode** 30 11 49 Carrasco 18 ProposedPool 1 10 ProposedPool 2 1)elamas Surface Location Feet from the North/South line East/Westline UL or lot no. Section Township Range Lot Idn Feet from the County D 18 23S 28E 990 North 990 West Eddy ⁸ Proposed Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line East/Westline UL or lot no. Feet from the Section Township Range County Additional Well Information 11 Work Type Code 12 Well Type Code 13 Cable/Rotary 14 Lease Type Code 15 Ground Level Elevation Plug Back O/G 3059 18 Formation 20 Spud Date 16 Multiple 17 Proposed Depth 19 Contractor Brushy Canyon 08/30/2006 Unavailable 12650 Depth to Groundwater Distance from nearest fresh water well Distance from nearest surfacewater NO PIT WILL BE USED Pit: Liner: Synthetic milsthick Clay Pit Volume: DrillingMethod: Closed-Loop System Fresh Water Brine Diesel/OI-based Gas/Air Proposed Casing and Cement Program Casing weight/foot Setting Depth Hole Size Casing Size Sacks of Cement Estimated TOC 26" 20 94 437 750 sx 0 17 1/2 13 3/8 68 2386 2900 sx 12 1/4 9 5/8 40 10642 900 sx 5 1/2 liner 12650 Btm 10108Top 800 ¹² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. Plug back to the Brushy Canyon per the attached workover report. ²³ I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief. I further certify that the drilling pit will be

Approved by:

Approval Dall G 2 5 2005

Conditions of Approval Attached

Title:

BRYAN G. ARRANT
DISTRICT II GEOLOGIST

Expiration Date

constructed according to NMOCD guidelines \square , a general permit \square , or

Phone:

(432)687-2992

an (attached) alternative OCD-approved plan .

Brenda Coffman

E-mail Address: bcoffman@chkenergy.com

08/15/2006

Regulatory Analyst

Printed name:

Title:

Date:

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATIONDIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1220 S. St. Francis I	Dr., Santa F	e, NM 875	05		•				\Box AME	NDED RE	EPORT
			WELL LC	OCATIO:	N AND ACR	EAGE DEDIC	ATION PLA	Т			
'API Number 30-015-24708				4038c Louina · Delaware, South				-			
Property Code				⁵ Property Name				J	'Well Number		
301149 Carrasco 18			co 18	<u> </u>					l		
OGRID No.			'Operator Name					Elevation			
147179 Chesapeake			oeake Operat	Operating Inc.					3059		
					¹⁰ Surface l	Location					
UL or lot no.	Section	Township	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line			County
D	18	23S	28E		990	North	990	West		Eddy	
			11 Bo	ottom Ho	le Location If	f Different Fron	n Surface				
UL or lot no.	Section	Township	p Range	Lot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line		County
" Dedicated Acres	" Joint or	r Infill	"Consolidation	Code "Or	der No.						
40											

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

990'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division Signature Brenda Coffman Printed Name
	18SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
	Date of Survey Signature and Seal of Professional Surveyor:
	Certificate Number

Carrasco 18 #1 Plug Back to Brushy Canyon Eddy County, New Mexico

GENERAL INFORMATION

Location: 990' FNL & 990' FWL, Sec 18 - T23S - R28E

API No.: 30-015-24708

WELL INFORMATION

String OD	Weight & Grade	Depth	ID	Drift_	Burst	TOC
13-3/8"	68# K55 STC	0' - 2386'	12.715"	12.559"	1730	0,
9-5/8"	40# N80 LTC	0' - 10642'	8.835"	8.679"	5750	~8487'
5-1/2""	Unknown	10108' - 12650'	~ 4.8"	~ 4.7"		10108'

Atoka Perforations: 11180 - 11224' (OA)

TD/PBTD: 12650'/11840'

Recommended Perforations

Brushy Canyon 5786 - 5834'

Re-Completion Procedure

- 1. MIRU CT Unit. Spool out with 1-1/4" CT. RDMO CT Unit.
- MIRU Service Rig and requisite equipment. NDWH, NU BOP. Release packer and POOH with 2-7/8" tubing, Note: packer type unknown. If unable to release, free-point and back off tubing 1 joint above packer.
- 3. MIRU Wireline Service Unit. Run a strip log and correlate depth with Neutron/Density log dated 3/23/84 to set a 5-1/2" CIBP at 11130'. Run strip log across the interval 6300 5300' as well. Bail 2 sx of cement on 5-1/2: plug. Set a 9-5/8" CIBP at 6275'. Bail 2 sx of cement on plug. 35



- Load hole with 2% KCL and pressure test to 1000#.
- Shoot four squeeze holes at 6050'. Shoot four upper squeeze holes at 5550'. Set a cement retainer at 6025'. RDMO Wireline Service Co.
- 6. RIH pressure testing 2-7/8" tubing. Sting into retainer. Break/establish circulation with brine water. Pump 15 bbl of mud sweep and cement with 250 sacks of Class C cement plus additives per squeeze recommendation. Sting out of retainer and reverse clean. Pull tubing several stands above top squeeze hole. WOC overnight.
- 7. RIH and tag new PBTD to ensure adequate rat hole. POOH.
- MIRU Wireline Service unit. Run bond log from PBTD past TOC. RU lubricator and RIH w/ HSD casing gun. Perforate the Brushy Canyon w/ 1 SPF, 23 gram charge, .37" holes, from 5786' to 5834' (49 holes).
- 9. RIH w/ 9-5/8" treating packer and SN on 2-7/8" tubing. Space out with the EOT at 5834'.

* 100' Cement plug acress Top Wolfcamp @ 9195

- RU Acid Service Company. Spot 200 gal of 7-1/2% HCL Acid containing 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull packer to ~ 5750'.
 Reverse circulate to ensure packer is clear of acid, set packer. Pressure test annulus to 1000#.
- ND BOP. NU tree. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 4 to 5 BPM w/ 2% KCL. (Keep KCL water usage to a minimum). Acidize w/ 1,300 gal of same acid. Displace w/ 2% KCL. Do not over-displace. Pump at 4 to 5 BPM max. Launch 60 ball sealers during job. Note rates and pressures. Note ISIP. Max pressure 4000#.
- 12. Flow/swab back job. Swab test zone.
- 13. Prep to frac. Kill well with 2% KCL if required. NU frac valve. MIRU Frac Service Company. Pressure annulus to 1000#. Tie on to tubing and establish rate w/ 10,000 gallon pad of 30# XL gel pad containing additives per frac schedule. Scour with 1000# of 16/30 Ottawa in 4000 gal of additional pad. Frac per frac schedule ramping 16/30 Ottawa from 1 lb/gal scour to 6 #/gal of resin coat at tail of job in a 30# XL gel. Total sand 51000 lb of 16/30, 10000 lb of 16/30 resin coat. Obtain rates approaching 12 15 BPM, max pr 4000#. Cut resin activator in last tub of sand. Displace to top perf with slickwater. Anticipated treating pressure ~2500#.
- 14. Obtain 5, 10, and 15 min SI data. RDMO Frac Service Company. Wait on frac overnight.
- 15. Flow back job. Swab to clean up and test.
- 16. ND tree, NU BOP. POOH with tubing and packer.
- 17. RIH w/ MA, PS, SN, TAC (at ~ 5600') and 2-7/8" tubing. Space out and land SN ~5850'. Swab to clean up.
- 18. RIH w/ 1-3/4" pump and an API Grade 'D' tapered rod string. Run pump, 350' of 1-1/2" sinker bars, 117 34", and 103 7/8". Space out/seat pump. Load and test.
- 19. Set 456-256-144 PU. Stroke to 126" hole and PWOP.