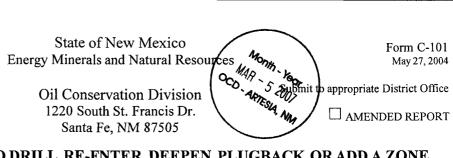
District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505



APP	LICAT	<u>IONFO</u>	R PERMI	TOD	RILL, R	E-ENT	ER, D	EEPE		ACK.	OR AD	DAZ	ONE	
OperatorName and Address Chesapeake Operating Inc.								147179						
2010 Rankin Hwy Midland, TX 79701								³ API Number 30 015-32410						
³ Property Code ⁵ Property					ertyName	Name ⁶ Well No.								
30428 STATE IE					_	2								
ProposedPool 1 HACKBERRY HILLS; CANYON Eq 57						¹⁰ ProposedPool 2								
			1		⁷ Surfa	ce Loca	tion							·
UL or lot no.	Section 16	Township 22S	Range 26E			et from the	om the North/South line		I '		st/Westline EST	EDDY	County	
8 Proposed Bottom Hole Location If Different From Surface														
UL or lot no.				et from the				Feet from the East/West		stline County				
M			660				OUTH 660			EST	EDD.			
				Ad	lditional	Well Inf	ormati	ion						
11 Work Type Code 12 Well Type Code 13 Cable			Cable/Rotary	e/Rotary 14 Lea			Lease Type Code		15 Ground Level Elevation					
P 16.3	6 1:1 1	G	17 Proposed Dep		18	Formation		S	19 Contractor		3447 GI	447 GR 20 Spud Date		
N N	fultiple	117		otn	CANYON				Contractor		03/1	1/2007	ate	
Depth to Gro	undwater	220		Distanc	efrom nearest	fresh water	well	000	Distance	Distance from nearest surface water 1000			١٥	
Pit: Liner	: Synthetic		ilsthick Clay	_! ☐ Pit Voli	ume:12129b	bls		ingMetho				100	<u>'U</u>	
	ed-Loop Sys		•				Fresh Water X Brine Diesel/OI-based Gas/Air							
0.000	a soop oy		2	Propos	sed Casin	a and C		,						
77-1- 6	1:	C-	-i Ci	_		gand C	nd Cement Program			Fatimet				
Hole S 17 1/2	size	 	sing Size	Casing weight/foot 48# H-40 ST&C		760	Setting Depth 760		Sacks of Cement 800 SX			Estimated TOC		
12 1/2						2525		400 SX						
8 3/4		5 1/2		17# S-95, N-80			11750		2090 SX					
					, -		20,0001							
									<u> </u>					
Describe the	blowout pre AKE, RE	evention prog	fthis application gram, if any. Use ULLY, REQU JRE.	additionals	heets if neces	sary.								
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) afternative OCD-approved plan ☐.					est	OIL CONSERVATION DIVISION								
					Appr	Approved by: BRYAN G. ARRANT DISTRICT II GEOLOGIST								
Printed name	: Shav S	Stricklin		11:0 1	1.1	Title:			DISTRIC	!' 11 G	EOLO(HST		
Title: Regulatory Tech.					oval D	AR O	7 2007	Expira	tion Date:	MAR	072	300		
E-mail Addre	ss: sstrick	lin@chkeı	nergy.com_											
Date: 03/	01/2007		Phone: ((432)687-	-2992	Cond	itionsof A	approval A	attached 🔽	ح	L 97	: 103		

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

1220 S. St. Francis Dr., Santa Fe, NM 87505

22S

16

" Joint or Infill

26E

Consolidation Code

District IV

M

320

Dedicated Acres

State of New Mexico
Energy, Minerals & Natural Resources Department Month Submit
OIL CONSERVATIONDIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

EDDY

HELL LOCATION AND ACREAGED TO A

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number ' Pool Code 7960 HACKBERRY HILLS; CANYON 30-015-32410 Ec. 57 Property Code ⁵ Property Name Well Number 2 30428 STATE IE OGRID No. ^{*} Operator Name ' Elevation 3447 GR Chesapeake Operating Inc. 147179 Surface Location UL or lot no. Section Township Range Feet from the North/South line Feet from the East/West line County **SOUTH** WEST M 16 **22S** 26E 660 660 **EDDY** 11 Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line East/West line County UL or lot no. Section Township Range

SOUTH

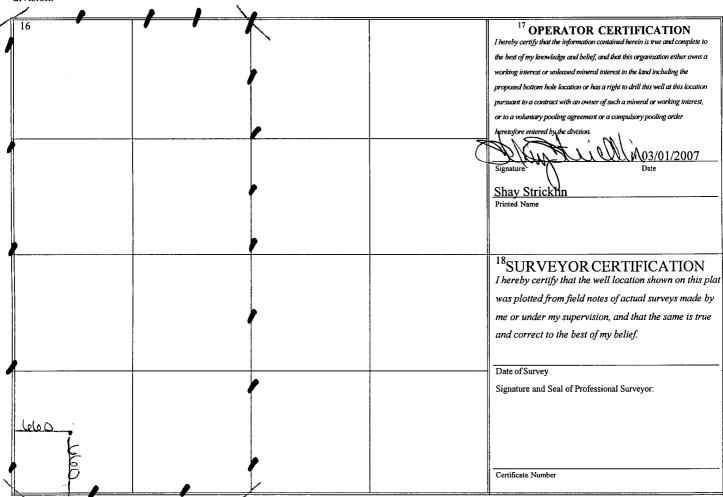
660

WEST

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.

660

¹⁵ Order No.



State IE Com #2 Plug Back to Canyon Eddy County, New Mexico



GENERAL INFORMATION

Location: 660' FSL & 660' FWL, Sec 16 - T22S - R26E

API No.: 30-015-32410

WELL INFORMATION

String OD	Weight & Grade	Depth	ID	<u>Drift</u>	<u>Burst</u>	TOC
13-3/8"	48# H40 STC	0' - 760'	12.715"	12.559"	1730	0,
9-5/8"	40# J55 STC	0' - 2525'	8.83 5"	8.679"	3950	0'
5-1/2"	17# S95/N80	0' - 11750'	4.892"	4.767"	7740	3100'

Morrow Perforations: 11126 – 11378' (OA)

TD/PBTD: 11750'/11631'

Recommended Perforations

Canyon Lime 9955 - 68'

Re-Completion Procedure

1. MIRU Service Rig and requisite equipment. Kill well as required with 2% KCL. NDWH, NU BOP. Release M1-X 10K packer and POOH laying down 2-7/8" N80 tubing.

- STIPS
 - 2. MIRU Wireline Service Unit. Set a 5-1/2" CIBP at 11080'. Bail 2 sx of cement on 5-1/2" plug. Correlate to CBL/GR/CCL dated 12/09/2002.
 - 3. Load hole with 2% KCL and pressure test casing and plug to 1500#.
 - 4. RIH w/ casing gun. Perforate the Canyon Lime w/ 4 SPF, 23 gram charge, .37" holes, 90 deg. phasing, from 9955' 68' (53 holes). Correlate to same CBL.
 - 5. RIH w/ 5-1/2" treating packer and SN picking up tested and inspected 2-3/8" N80 tubing as follows: Re-entry guide, 4' sub, 'XN' nipple, 10' sub, Arrow Set packer, on/off tool w/ 'X' profile nipple. Space out with the EOT at 9968'.
 - 6. RU Acid Service Company. Spot 200 gal of 15% HCL Acid containing 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull packer to ~9900'. Reverse circulate to ensure packer is clear of acid, set packer. Pressure test annulus to 1000#.
 - 7. 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/ 2,300

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 6000#.

- 8. Flow/swab back job. Swab/flow test zone.
- 9. Re-treat as warranted. Pressure backside to 1000# and retreat with 10,000 gal of 20% gelled NeFe HCL acid containing 4 gpt of iron control, 2 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Treat via 2-3/8" production tubing at 10 12 BPM. Maximum pressure 8000#.
- 10. Flow back job. Swab to clean up and test.
- 11. Put well to sales. RDMO.

CURRENT WELLBORE SCHEMATIC CHESAPEAKE OPERATING INC.

Month - Year MAR - 7 2007 OCD - ARTESIA, AM Chesapeake National Gas Natural Advantages.

WELL

: STATE "IE" #2

SURF. LOC. : 660' FSL & 660' FWL OF SEC. 16-R22S-T26E.

COUNTY

: EDDY

STATE: NM

FIELD

: HAPPY VALLEY (MORROW GAS)

ELEVATION: 3.447' GL

3,457 KB

API#: SPUD DATE: 30-015-32410

COMPL DATE:

10/15/02

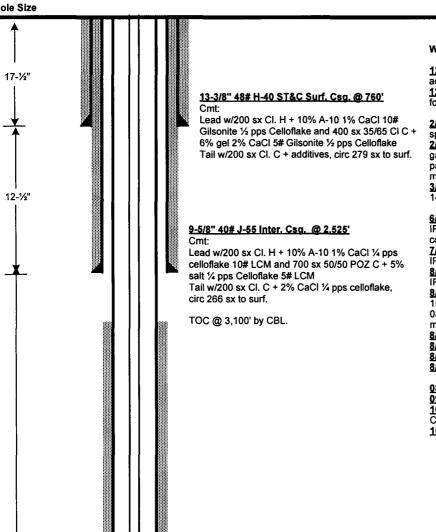
CHK Property #: 890593

02/06/78

Hole Size

8-3/4

CO fill to 11,315' 10/2005



Well History Highlights:

12/13/02 Acdz perfs 11,243-378' w/4500 gal 7-½% Morrow acid + methanol w/193,050 SCF N2 90 BS.
12/18/02 Frac perfs 11,243-378' w/6,000 gal 70Q binary foam. 71,000# 20/40 Interprop - flush w/binary foam. FB.

2/6/03 Ran thru-tbg gun & shot Morrow @ 11,126-42' w/4 spf. Tstd 180 mcfgpf 18 bw, FTP 400#.
2/13/03 Sand back to 11,200'. Trtd perfs 11,126-142 w/2500 gal 7-½% Morrow acid w/20% methanol 104,000 SCF N2 gai 7-72% Morrow acid w/20% methanol 104,000 SCF N2 pad & 80 BS, no ball out. Prod after treatment tstd 500 mcfgpd, no wtr. CO w/CTU to 11,475'.

3/24/03 Well stabilized flwg from perfs 11,243-378' & 11,126-142' w/130 FTP on 64/64/ck, no oil, 595 MCFGPD,18 BW.

6/12/04 MIRU Key swab unit, TP 500#, compressor down, IFL 5,100', make 9 swab runs, rec 30 BW, FFL 10,200', start

7/08/04 MIRU Key swab unit, compressor down, TP 800#, IFL 5,600', 11 runs, 18 bbls. TP 300#, RTP, 349 MCFG. 8/24/04 MIRU Key swab unit, TP 480#, make 8 swab runs,

IFL 5,100', 20 BF. <u>8/25/04</u> Swab, IFL 6,500', make 10 runs, rec 24 BW, TP 150#, 262 MCFG.

150#, 262 MCFG.
08/26/04 TP 520#, compressor down, LP 504#, IFL 7,100', make 9 runs, rec 18 BF.
8/27/04 Compressor down, 79 MCFG, start compressor.
8/28/04 24 hrs, 0 BO, 5 BW, 132 MCFG, TP 510#, CP 0#.
8/29/04 24 hrs, 0 BO, 7 BW, 119 MCFG, TP 500#, CP 0#.
8/30/04 24 hrs, 0 BO, 3 BW, 101 MCFG, TP 500#, CP 0#.

08/31/05 Swab 14 runs, rec 48 BF, TP 0#, CP vacuum. 09/02/05 0 BO, 0 BW, 0 MCFG, will not flow. 10/19 to 10/27/05 Tag fill @ 11,180', RIH w/1-3/4" bailer. CO sd fill to 11,315'. 10/28/05 RDMO PP rate 0 MCFG, left well open

DV Tool @ 6,998'.

Tbg Details: 334 jts of 2-2/8" N80 2.31 X in on/off @ 10,937' M1-X 10K pkr @ 10,938' 1 jt 2-7/8 2.31 XN @ 10.977 WL Re-entry guide @ 10,978' EOT 10.979

Perfs @ 11,126-11,142' w/4 spf 64 holes

Perfs @ 11,243-50, 11,253-56', 11,264-66', 11,344-52', 11,364-72', 11,376-78' w/2 SPF 66 holes - covered w/fill sand during acid & frac of upper perfs and then opened

5-1/2" 17# S-95. N-80 Prod Csg. @ 11.750'

TD @ 11,750'

Cmt: 1st Stage 1260 Cl. H + 1.6 % BA56 0.2% SMS 2 pps CaCl 0.2% R-3 & 1 pps Gilsonite. (Circ 115 sx to surf, per completion report)

2nd Stage Lead w/730 sx 50/50 Cl. H + 10% gel 5% salt ½ pps celloflake 5# Gilsonite 0.3% Flocele.

Tail w/100 sx POZ H Neat

PREPARED BY:	Linda S. Fries	DATE:	08/30/04
UPDATED BY:		DATE:	

Arrant, Bryan, EMNRD

From: Arrant, Bryan, EMNRD

Sent: Tuesday, March 06, 2007 9:10 AM

To: 'Shay Stricklin'

Subject: State IE # 2/API # 30-015-32410

Good morning Shay,

Can I get the procedure of recompletion for the above noted well?

I didn't find it attached to the information that we received and
I am not holding for approval any previous regulatory information on this well.

Thanks,

Bryan 505-748-1283 ext. 103