1625 N French Dr. Hobbs NIM 99240				of New Mexico Form C-101 als and Natural Resources May 27, 2004										
1301 W. Grand Avenue, Artesia, NM 88210District III1000 Rio Brazos Road, Aztec, NM 87410				Oil Conservation Division 1220 South St. Francis Dr.				\$	Submit to appropriate District Office					
District IV 1220 S. St. F.	rancis Dr., S	Santa Fe, NM	87505				ı Fe, N						MENDED REPORT	
APPI	ICATI	ON FOR	PERMIT	T TO D	RILL,	, RE-	ENTE	CR, D	EEPEN	N, PLUGBA			D A ZONE	
Chesa	peake	Operati	Operator Naming, Inc.	e and Addro	ess					14717	9	RID Numbe	· ~	
P. O. Oklah	Box 1 Ioma Ci	8496 <u>tv. OK</u>	73154-049	96						30-025	- 30	PINumber 7/70		
	erty Code 1566		Newman			roperty	Name				Γ	° We	ll No.	1
	1566	L 9 F	roposed Pool 1		state			<u> </u>		10 Proj			V	4
State	line E	llenbur	ger <u>é</u>	57810		-				** FIQ	posed			
<u> </u>	r				<sup>7</sup> Su	rface	Locat	ion						_
UL or lot no. B	Section 32	Township 23S	Range 38E	Lot	Idn	Feet fr	om the		South line	Feet from the	Eas	st/West line	County	$\nabla v$
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UL or lot no.	Section	Township	Range	Lot		Feet fr			South line	Feet from the	Eas	st/West line	County	٦
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N			)	ouc		R	e/Rotary		s	Lease Type Code		3305	und Level Elevation	
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<sup>22</sup> Describe	the propose	d program. It	this applicatio	n is to DEI	EPEN or I	PLUGB		ive the d	ata on the	nresent productive			d new productive zone	4
Describe the	blowout pro	evention prog	ram, if any. Us	se addition	al sheets i	if necess	sary.	ive the t	ata on the	present productive	zone	and propose	a new productive zone	
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Pom	nit Expr	less Dril	ar From P ling Unde	lγken≱										
	)316 01								N	SL-518	わ			
<sup>23</sup> I hereby cer	tify that the	information	given above is	true and co	mplete to	the		1		ONSERVAT	-			1
constructed a	according to	o NMOCD g	ther certify th uidelines	at the drill general p	ing pit w ermit 🥅,	ill be	Approv	ved by:		ONDLIVAT		< <u>CDIVISI</u>	ION	-
an (attached)	alternativ	e OCD-appro	oved plan		500	01	Appior	veu by.	Ch.	- 11h	1.			
Printed name:	Lyr	ida Town	send .	WIX	ec/ru	<u> </u>	Title:		Jun	e na	re	ma		-
Title:		Landma						al Date:	APR	0 1 2005	vnirot	on Date:		
E-mail Addre	ss: ltow	vnsend@c	hkenergy	.com						V L GUILF	Apriati		<u> </u>	-
Date: 02/			Phone: (40		8000		Conditi	ions of A	nnrovel A+	itached				-
	, 05		(40	57040-	0000				Approval At					1

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DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 67505 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

## OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API		Pool Code		Pool Name						
30.00		57810				Stateline Ellenburger				
Property					erty Nam		· ·····	Well Number		
				NE	WMAN	<u>"32"</u>	STATE		≇	
OGRID N	о.				•	ator Nam			Eleva	tion
147179				CH	ESAPE/	<u>AKE E</u>	NERGY		330	5
					Surfa	ce Loca	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
В	32	23 S	38 E		66	50	NORTH	2310	EAST	LEA
	L		Bottom	Hole Loc			rent From Sur			
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code Ore	der No.	·	I	i		
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80 N/2										
NU ALL	JWABLE W		SSIGNED JON-STAN	TO THIS	COMPLE	TION U	UNTIL ALL INTER APPROVED BY	RESTS HAVE BI	CEN CONSOLIDA	ATED
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L	l	<u></u>	···			l		В	SIN SURVEYS	





NEWMAN "32" STATE #2 Located at 660' FNL and 2310' FEL Section 32, Township 23 South, Range 38 East, N.M.P.M., Lea County, New Mexico.



P.O. Box 1786	۱
1120 N. West County Rd.	
Hobbs, New Mexico 88241 (505) 393–7316 – Office	L
(505) 392-3074 - Fax	Ļ
basinsurveys.com	(

W.O. Number: 5000AA - KJG #1 Survey Date: 01-09-2005 Scale: 1" = 2000' Date: 01-10-2005

CHESAPEAKE OPERATING INC.



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Spool

A-Sec

WELL : Newman 32 #2

RIG : Nabors #311

COUNTY : Lea

## **STATE: New Mexico**

OPERATION: Drill out below 13-3/8" Casing

SIZE	PRESSURE	DESCRIPTION			
13-5/8"	500#	Rot Head			
13-5/8"	5,000#	Annular			
13-5/8"	10,000#	Pipe Rams			
13-5/8"	10,000#	Blind Rams			
13-5/8"	10,000#	Mud Cross			
DSA	13-5/8" 5M x 13-5/8" 10M				
DSA	13-5/8" 3M x 13-5/8" 5M				
-Sec	13-3/8" SOW x 13-5/8" 3M				
	13-5/8" 13-5/8" 13-5/8" 13-5/8" DSA DSA	13-5/8" 5,000# 13-5/8" 10,000# 13-5/8" 10,000# 13-5/8" 10,000# DSA 13-5/8 DSA 13-5/8			

SIZE	PRESSURE	DESCRIPTION
		<u> </u>

**Choke Line** 

4"	10,000#	Gate Valve
4"	10,000#	HCR Valve
,		

Kill	Line
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SIZE	PRESSURE	DESCRIPTION
2"	10,000#	Check Valve
2"	10,000#	Gate Valve
2"	10,000#	Gate Vaive

# CHESAPEAKE OPERATING INC DRILLING PROGNOSIS

		1	011001001	<u>×</u>		
		nan 32-2				
SHL :		on 32-23S-38E (660' FN				
	110' F	Radius Target at 12,000		Chesa	ipeake	
	Lea		: New Mexico		Natural Advantagets.	
FIELD :	State	ine (Ellenburger)				
ELEVATION :	GL - 3	3,305' KB - :	3,325' (estimate)			
HOLE SIZE		FORMATION TOPS	LOGGING	CASING &	MUD WT	
			PROGRAM	CEMENT	Surface to 450'	
					8.6 - 9.2 ppg Vis: 34-36	
17 1/2"				<u>13-3/8" Surface Casing:</u> Lead: 265 sx	FL: N/C	
				12.6 ppg, 1.93 yield Tail: 210 sx 14.8 ppg, 1.34 yield		
	450'	13 3/8" 48# H-40 STC 5	Surface Casing	TOC @ surface		
	1,505' 3,015'	Rustler Yates		<u>9-5/8" Intermediate Casing:</u> Lead: 730 sx	<b>450' - 3,500'</b> 10 - 10.1 ppg Vís: 28-30	
12-1/4" 	3,305'	oviz Seven Rivers		11.9 ppg, 2.45 yield Tail: 135 sx	FL: N/C Brine Water	
	3,500'	9-5/8" 36# J-55 STC Intern	rediate Casing	14.8 ppg, 1.34 yield TOC @ surface		
	3,905'	Queen			3,500' - 8,800' 8.4 - 8.5 ppg	
	4,540'	San Andres			Vis: 28-29 FL: N/C	
	5,770'	a Glorieta	Mudlogger @			
8-3/4"	6,725'	R Tubb	3,500'- TD			
7-7/8"	0,723					
	6,875	Lower Clearfork				
	7,300'	Abo				
	8,045'	Wolfcamp				
	8,045	vvoircamp				
	<b> </b> > 8,500' <	DV Tool				
	8,535'	Mississippian				
	8,920'	Woodford				
	9,335'	Siluro-Devonian	Triple Combo			
	10,935'	Montoya	(TD to 3,500')			
					ļ	
	11,270'	Simpson			8,800' - 12,500'	
	11,665'	МсКее			8.8 - 9 ppg Vis: 36-45 FL: <15	
	12,005'	Joins				11
	12,075'	Ellenburger		<u>5-1/2" Production Casing:</u> 1st Stage: 775 sx 14.4 ppg, 1.27 yield	121,5	17
	12,125'	Ellenburger porosity		2nd Stage Lead: 505 sx 11.9 ppg, 2.45 yield	175-155	مر مم م
	12,500'	5-1/2" 17# L80 & HCL80 LT	Casina	2nd Stage Tail: 55 sx 15.6 ppg, 1.18 yield TOC @ 3,000'	12.6	ſ
	12,000		c casing	100 @ 3,000	<u> </u>	
PREPARED BY:	~	avid DeLaO			· · · · · · · · · · · · · · · · · · ·	
APPROVED BY:	D			DATE: 1/20/05	·	
ATTROLUBI				DATE:	<u></u>	
		4 •				
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## CASING AND CEMENTING DETAIL SHEET

WELL:	Newman 32 #2	COUNTY: Lea			DATE:	1/21/2005	
FIELD:	Stateline (Ellenburger)		CASING POINT:	450'		CASING SIZE	13-3/8"
STRING (RUNNING ORDER)						TORQUE	(ft-lb)
1.	<u>0' - 450'</u> ft.	48#	H-40 ST&C		_:	Opt 3,220# (2,4	420 – 4,330)

## SPACE FLOAT EQUIPMENT AS FOLLOWS:

LOCATION OR DEPTH		
Bottom of first joint		
6' - 10' above guide shoe		
Between 2 <sup>nd</sup> and 3 <sup>rd</sup> joint		
Top of 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> joints		
Every 4 <sup>th</sup> joint to surface		

CEMENT (MIXING ORDER)	CEMENT CO.	Halliburton	Odessa, Te	xas 43	432-682-4305	
TYPE	ADDITIVES	SACKS	WT - PPG	YIELD	GAL/SX	
Halliburton Light Premium Plus TAIL:	2% CaCl2+.25 pps Flocele	265	12.6	1.93	10.56	
Premium Plus	2% CaCl2	210	14.8	1.34	6.34	

#### **CEMENT PROPERTIES:**

Lead: 12 hrs = 150 psi; 24 hrs = 550 psi; Free Water = 0%; FL = 850 cc

Tail: 12 hrs = 750 psi; 24 hrs = 1,300 psi; 72 hrs = 2,000 psi; Free Water = 0%; FL 750 cc

#### CEMENTING PROCEDURE (Contact NMOCD 12 HRS PRIOR TO CMT. JOB)

Pump 50 bbls of freshwater preflush ahead of cement. 98 bbls mixed water will be required. Displace with fresh water at maximum rate. Reduce rate if losses are noted. WOC 8 hrs before drilling out.

#### **MISCELLANEOUS INFORMATION**

Minimum collapse safety factor of  $\underline{3.51}$  (complete evacuation). 100% collapse value of 740 psi. Minimum burst safety factor of  $\underline{1.44}$  (1,200 psig test). 100% burst value of 1,730 psi. Minimum tension safety factor of  $\underline{7.19}$  (casing full of cement). 100% tension value of 322,000 lbs.

Temperature survey after <u>4-6</u> hrs if circulation is lost or cement does not circulate . Top of cement - <u>Surface + 100% excess, Tail 300' of fill that includes 50% excess</u>.

## Note: Use ONE (1) wiper plug.

Note: Cement company to obtain water sample at location for testing (pump time, retarder, etc.)

**REMARKS:** 

\*\*\*NOTIFY NMOCD PRIOR TO CEMENTING\*\*\*

Prepared: DFD

this Willie Approved:

## CASING AND CEMENTING DETAIL SHEET

WELL:	Newman 32 #2		COUNTY: Lea	DATE: 01/21/2005
FIELD:	Stateline (Ellenburger)		CASING POINT: 12,500'	CASING SIZE 5-1/2"
STRING	(RUNNING ORDER)			TORQUE (ft-lb)
1.	0' - 11,500'	17#	L-80 LT&C	Opt 3,410 (2,560 - 4,260)
2.	11,500' - 12,500'	17#	HCL-80 LT&C	Opt 3,830 (2,870 – 4,790)

## SPACE FLOAT EQUIPMENT AS FOLLOWS:

ITEM	LOCATION OR DEPTH		
(1) – 5-1/2" LT&C float shoe	Bottom of 1 <sup>st</sup> joint		
(1) – 5-1/2" X 7-7/8" bowspring centralizer	6' - 10' above float shoe		
(1) – 5-1/2" X 7-7/8" bowspring centralizer	1 <sup>s1</sup> collar		
(1) – 5-1/2" LT&C float collar	Between 2 <sup>ND</sup> and 3 <sup>RD</sup> joint		
(1) – DV tool	Set at 8,500' (Tool depth will be based on logs)		
(2) – 5-1/2" X 7-7/8" bowspring centralizer	Above and below DV tool		
(45) – 5-1/2" X 7-7/8" bowspring centralizer	Every 3 <sup>rd</sup> joint through pay interval and every 6 <sup>th</sup> joint to 3,000'		

CEMENT (MIXING ORDER)	CEMENT CO.	Halliburton	Hobb	s, NM	432-682-4305
TYPE	ADDITIVES	SACKS	WT - PPG	YIELD	GAL/SX
LEAD: Stage 1 50:50 Poz: Premium	2% Bentonite + 0.6% Halad-9 + 2.5 pps salt	775	14.4	1.27	5.75
LEAD: Stage 2					
Interfill C	0.25 pps Flocele	505	11.9	2.45	14.12
TAIL: Stage 2					
Premium		55	15.6	1.18	5.23
CEMENT PROPERTIES:			•		

Lead  $(2^{nd} \text{ stage}) = 350 \text{ psi}$ ; Free Water = 0.5%; FL = 850 cc

Tail (2<sup>nd</sup> stage) = 1,500 psi; Free Water = 0.0%; FL = 660 cc

### CEMENTING PROCEDURE (NOTIFY THE NMOCD 12 HRS. PRIOR TO CEMENT JOB)

Pump 20 bbls fresh water ahead of lead slurry. <u>283</u>bbls of mixed water will be required. Displace casing with fresh water at 5-7 bpm. Recipricate pipe at <u>6-10</u> ft. strokes while mixing and displacing cement during the 1<sup>st</sup> stage. Circulate a minimum of 4 hours between stages.

#### MISCELLANEOUS INFORMATION

Collapse resistance of 5-1/2" 17# L-80 LT&C casing 6,280 psi. Minimum safety factor is <u>1.39</u> (complete evacuation). Burst resistance of 5-1/2" 17.0# L-80 LT&C casing 7,740 psi. Min safety factor is <u>1.63</u> (surface pressure of 4,748 psi - filled with gas). Tension resistance of 5-1/2" 17.0# L-80 LT&C 348,000' lbs. Min safety factor is <u>2.53</u> (surface pressure of 4,748 psi – filled with gas). Use log caliper volume plus 20% to arrive at final cement volumes. Land 5-1/2" casing w/ 80% string wt on slips.

NOTE: Use one (1) wiper plug.

NOTE: Cement company to obtain water sample at location for testing (pump time, retarder, etc.).

### REMARKS:

\*\*\*CALL NMOCD PRIOR TO CEMENTING\*\*\*

Prepared: DFD

Approved:

Submit 3 Copies To Appropriate District	State	of New Me	xico		Form C-103	
Office District I	Energy, Minera			<b></b>	May 27, 2004	
1625 N. French Dr., Hobbs, NM 88240 District II	trict II			WELL API NO. 30.025.37170		
1301 W. Grand Ave., Artesia, NM 88210OIL CONSERVATION DIVISIONDistrict III1220 South St. Francis Dr.			5. Indicate Type of Leas	e		
1000 Rio Brazos Rd., Aztec, NM 87410				STATE X	FEE	
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa	Fe, NM 87	. 303	6. State Oil & Gas Leas	e No.	
	TICES AND REPORTS	ON WELLS		7. Lease Name or Unit A	Agreement Name	
(DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APPL				Newman 32 State	1566	
PROPOSALS.) 1. Type of Well: Oil Well X	Gas Well 🗌 Other		<u>``</u>	8. Well Number 002		
	Operating, Inc.	147179			/179	
3. Address of Operator P. O. Bo Midland	x 11050 , TX 79702-8050			10. Pool name or Wildc Stateline;Ellenburger	at	
4. Well Location						
Unit Letter B Section 32	<u>660</u> feet from th Township		line and 23 nge 38E		Last line line	
	11. Elevation <i>(Show</i> )				ity Lea	
Pit or Below-grade Tank Application 🕅	3305					
		nearest fresh w	ater well <u>1000+</u> Dist	tance from nearest surface wate	r_1000+_	
Pit Liner Thickness: 12 mi	Below-Grade Tank:	Volume 12	<u>139 bbls; Ca</u>	onstruction Material plastic	2	
12. Check	Appropriate Box to	Indicate N	ature of Notice,	Report or Other Data		
	NTENTION TO:		SUB	SEQUENT REPORT		
	PLUG AND ABAND		REMEDIAL WOR	·		
	CHANGE PLANS		COMMENCE DRI			
PULL OR ALTER CASING	MULTIPLE COMPL		CASING/CEMENT			
			,			
OTHER:pit	1.4.1		OTHER:			
<ol> <li>Describe proposed or comp of starting any proposed w or recompletion.</li> </ol>						
Chesapeake, respectfully, requests agrees to close the pit according to	that the attached proced NMOCD guidelines Se	lure be appro-	ved for the drilling	pit for this well. Chesapea	ke, hereby,	
agrees to trose the pre according to	function guidelines be					
	•	•				
. ·						
	. ·					
handler and Contract of Contract						
hereby certify that the information rade tank has been/will he constructed or	above is true and compl closed according to NMOC	lete to the bes D guidelines 🔀	st of my knowledge , a general permit 🗌 o	e and belief. I further certify or an (attached) alternative OC	that any pit or below- D-approved plan [].	
IGNATURE Sunda	- loffma		ulatory Analyst	DATE	01/21/2005	
ype or print name Brenda Coffman	1	OBIGINAL	HGNED BY Hess: bcoffman@ch	kenergy.com Telephone	No. (432)687-2992	
or State Use Only		OC DISTRIC	T SUPERVISOR/C	SENERAL MANAGER	400 -	
PPROVED BY:	Villiam	TITLE		ΠΔΤΕ	APR 0 1 2005	
conditions of Approval (if any):				DATE		

