HOEBS OCD				ATS-14	1-232
SEP 0 6 2016 m 3160-3 reh 2012)	S	ECRETARY'S P	OTASH	OMB No	PPROVED . 1004-0137
RECEIVED	TATES	OCD H	abbs	5. Lease Serial No.	tober 31, 2014
plit Estate DEPARTMENT OF T	THE INTERIO	R		SHL: NMLC066126; E 6. If Indian, Allotee or	
ADDI ICATION FOR REDMIT					
	EENTER	ALENTER		7. If Unit or CA Agree	ment Name and No
Type of work.	LENTER				-
Type of Well: Oil Well Gas Well Other	Si	ngle Zone Multipl	le Zone	8. Lease Name and We Lea South 25 Federal	1-1-1-0
Name of Operator				9. API Well No.	
Nearburg Producing Company (15742)				30-025- 4340	9
Address	3b. Phone No.	(include area code)		10. Field and Pool, or H	
3300 N A Street, Bldg 2, Ste 120, Midland, TX 79705 Location of Well (<i>Report location clearly and in accordance</i>	432-686-82 with any State red		•	Lea Bone Spring Sout 11. Sec., T. R. M. or Blk. a	
At Surface 330' FSL 2130' FWL					
At proposed prod. Zone 330' FNL 21800' FWL		Horizontal Bone S	pring test	25-20S-34E	
4. Distance in miles and direction from nearest town or post of	ffice*	1		12. County or Parish	13. State
Approximately 22 miles NW of Eunice NM	16. No of acre			Lea	NM
Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 330' Distance from proposed location*	NMNM56	265=240 acres; 126= 800 acres		ng Unit dedicated to this we 160 BIA Bond No. on File	
to nearest well, drilling, completed, applied for, on this lease, ft. 150' from #6H	14,216' MD			NM2575; NMB0	000835
Elevations (Show whether DF, KDB, RT, GL, etc.)		ate date work will start	•	23. Estimated duration	
3759' GR	1	02.15.14 Attachments		35 da	ays
following, completed in accordance with the requirements of			a attached to	this form.	the second second
Well plat certified by a registered surveyor A Drilling Plan A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Office	em Lands, the	 Bond to cover Item 20 above Operator Cert 	the operation e). ification e specific info	is unless covered by an exis	
Signature 0	Name (F	Printed/Typed)			Date
The Dreen	Tim (Green			10.14.13
e Marketing and Production Services Manager					St. Same
proved By (Signature)/S/George MacDonell	Name (P	Printed/Typed)			^D AUG 2 6 2016
e FIELD MANAGER	Office		BAD FIEL		
lication approval does not warrant or certify that the applicant holds lead duct operations thereon. ditions of approval, if any, are attached.	gal or equitable title	to those rights in the subje	ect lease which	ROVAL FOR	TWO YEARS
e 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr es any false, fictitious, or fraudulent statements or representations as to			make to any de		
ontinued on page 2) Capitan Controlled Water Basin	09	SEE ATTA	CHED	*(Instructions on pa	
Approval Subject to General Requirements & Special Stipulations Attached		CONDITIO	NS OF	APPROVAL	

Operator - Landowner Agreement

Company:

Nearburg Producing Company

Proposed Well:

Federal Lease Number:

Lea South 25 Federal Com #10H

SHL: NMLC066126; BHL: NMNM56265

Please be advised that Cimarex Energy Co. has an agreement with both Nearburg Producing Company for operating their lease as well as having an agreement with the property surface owner, Ms. Linda Jurva, Trustee for Ms. Martha Skeen, 6301 Porter Road, Carlsbad, NM 88220 (575) 910-6731, concerning entry and surface restoration after completion of drilling operations at the above described well.

After abandonment of the well, all pits will be filled and levelled and all equipment and trash will be removed from the well site. No other requirements were made concerning restoration of the well site.

October 14, 2013

Signature

Date

Tim Green, Marketing and Production Services Manager Nearburg Producing Company

Nearburg Producing Company

Exploration and Production 3300 North "A" Street Building 2, Suite 120 Midland, TX 79705-5421 432-686-8235 FAX 432-686-7806

November 26, 2013

Bureau of Land Management Attn: Johnny Dickerson 620 East Greene Street Carlsbad, New Mexico 88220

> Re: Lea, South Prospect <u>Lea County, New Mexico</u> APD - Lea South 25 Federal Com № 10H Well 330' FSL & 2130' FWL (SHL) 330' FNL & 2180 FWL (BHL) Section 25, T-20-S, R-34-E, N.M.P.M.

Gentlemen:

Please find enclosed herewith Nearburg Producing Company Application to Drill pertaining to the subject well, along with Nearburg's Check № 0905255 dated November 25, 2013 in the amount of \$6,500.00.

Further, enclosed is letter authorizing Cimarex Energy Co. to sign as agent for Nearburg Producing Company for submissions of Applications for Permits to Drill and other regulatory filings with the Bureau of Land Management as to Federal Leases and Lands described in said letter.

Please furnish our office with the fully approved APD at your earliest convenience. Should you have any questions and/or need any additional information or assistance regarding this matter, please feel free to contact me direct at (432) 818-2940.

Yours very truly,

Nearburg Producing Company

hi &

Tim Green Manager of Marketing and Production Services

TG:lf

cc: Cimarex Energy Co. Attn: Mark Compton and Terri Stathem 600 N. Marienfeld Street, Suite 600 Midland, Texas 79701

Application to Drill Lea South 25 Federal Com #10H Nearburg Producing Co. Agent: Cimarex Energy Co. UL: N, Sec. 25-20S-34E Lea Co., NM

9,800' TVD

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1	Location:	SHL	330' FSL 2130' FWL
	E	BHL	330' FNL 21800' FWL
2	Elevation above sea level:		3759' GR
3	Geologic name of surface formation:		Quaternary Alluvium Deposits
4	Drilling tools and associated equipment:		Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

5 Proposed drilling depth:

え

6 Estimated tops of geological markers:

Formation	Est. Top	Bearing
Rustler	1650	NA
Top of Salt	1800	NA
Tansill	3400	NA
Yates	3645	NA
Capitan	3970	NA
Delaware	5700	Hydrocarbons
Bone Spring	8400	NA
Avalon Shale	8900	Hydrocarbons
1st Bone Spring Ss	9600	Hydrocarbons
2nd Bone Spring Ss	10150	Hydrocarbons
3rd Carbonate	10630	NA
3rd Bone Spring Ss	10925	NA
3rd Bone Spring C Ss	11015	Hydrocarbons

14,216' MD

7 Possible mineral bearing formation: Shown above

7A OSE Ground Water estimated depth: 100

8 Casing Program:

Erom (ft)	Casing Setting Depth(ft) MD	Casing Setting Depth(ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (Ib/ft)	Casing Grade	Thread	Conditon	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF (1.125)	Burst SF (1.125)	Cumulative Air Weight (Ibs)	Cumulative Bouyed Weight (Ibs)	Bouyant Tension
0'	1780'	1780'	17 1/2	13 3/8	54.5	J-55	ST&C	New	801	8.4	1.45	3.42	97,010	84,569	6.08
Intermediate								1.1.1	Sec. 1	-					
0'	5700'	5700'	12 1/4	95/8	40	HCK-5	LT&C	New	2,565	10.2	1.40	1.54	228,000	192,495	3.6
Production	11. State 1		1985					12101	1	11322	68 8. 1	1.4		And the	
0'	9323'	9323'	8 3/4	5 1/2	17	P-110	LT&C	New	2,254	9.2	1.68	4.72	166,600	143,200	3.1
9323'	14216'	9800'	83/4	5 1/2	17	P-110	BT&C	New	4,410	9.2	1.60	2.41	8,109	6,970	78.3

Casing Design Criteria and Casing Loading Assumptions:

Surface

CO

Tension A 1.8 design factor with effects of buoyancy. 8.4 ppg

Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.4 ppg mud gradient

Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Intermediate

Tension A 1.8 design factor with effects of buoyancy. 10.2 ppg

Collapse A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.2 ppg mud gradient Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Production

Tension A 1.8 design factor with effects of buoyancy. 9.2 ppg

Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to a 9.2 ppg mud gradient

Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Drilling Plan Lea South 25 Federal Com #10H Nearburg Producing Co. Agent: Cimarex Energy Co. UL: N, Sec. 25-20S-34E Lea Co., NM

9 Cementing Program:

2

2

Surface	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1130	1.75	13.5	1979	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gps water
Tail	240	1.34	14.8	309	Class C + LCM, 6.32 gps water
	TOC: 0'	85% Exce	SS	Centralizer	s per Onshore Order 2.III.B.1f
Intermediate	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1270	1.88	12.9	2387	35:65 (poz/C) + Salt + Bentonite + LCM + retarder , 9.65 gps water
Tail	300	1.34	14.8	392	Class C + retarder + LCM, 6.32 gps water
Tail	TOC: 0'	81% Exce	SS		<u> </u>
Tail					Class C + retarder + LCM, 6.32 gps water Cement Blend
Tail	TOC: 0'	81% Exce	SS	Cubic Feet	

10 Pressure Control Equipment:

Exhibit "E-1". A BOP consisting of two rams with blind rams and pipe rams, and one annular preventer. Below the surface casing, a 2M system will be used. Below the intermediate casing, a 3M system will be used. See attachments for BOP and choke manifold diagrams. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A Rotating head may be installed as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP and associated equipment will be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe. The Annular Preventer shall be functioned at least weekly. The pipe and blind rams will be operated each trip. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and 3000 psi high.

The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 low and 1500 high on the intermediate casing.

Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Application to Drill Lea South 25 Federal Com #10H Nearburg Producing Co. Agent: Cimarex Energy Co. UL: N, Sec. 25-20S-34E Lea Co., NM

11 Proposed Mud Circulating System:

	C	Depth		Mud Wt	Visc	Fluid Loss	Type Mud
	0'	to	1780-	8.4	28	NC	FW Spud Mud
U	1780'	to	5700'	10.2	30-32	NC	Brine water
	5700'	to	14216'	9.2	30-32	NC	FW/Cut Brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

12 Proposed Drilling Plan

1

Pilot Hole TD:No Pilot HoleKOP:9,323'EOC:10073'Set Surface and Intermediate casing strings.Drill production hole to KOP.Continue drilling lateral through the curve to TD.Runprod casing & cement.

13 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 5700' to TD
- B. Electric logging program: CNL/I

CNL / LDT / CAL / GR, DLL /GR -- Inter. Csg to TD

CNL /GR -- Surf to Inter. Csg

- C. No DSTs or cores are planned at this time.
- D. CBL w/ CCL from as far as gravity will let it fall to TOC

14 Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP

4410 psi

Estimated BHT

160°

15 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.
 Drilling expected to take : 35 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

16 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from TD over possible pay intervals. Bone Spring pay will be perforated and stimulated. The proposed well will be tested and potentialed as Oil







	Midwes & Specia		SHL 330 FSL BHL 330 FNI	0S-34E & 2130 F
INTERNAL	HYDROST	TATIC TEST	REPORT	
Customer: Od	erco Inc	and the second	P.O. Number: odyd-27	'1
	HOSE SPECI	FICATIONS		
Type: Stainless St Choke & Kil	eel Armor	18 - 1 - 1 - 1	Hose Length:	45'ft.
I.D. 4	INCHES	O.D.	9 //	NCHES
WORKING PRESSURE	TEST PRESSUR		BURST PRESSURE	
10,000 PSI	15,000	PSI	0	PSI
	cour	PLINGS		
Stem Part No. OKC OKC		Ferrule No.	ОКС	
Type of Coupling: Swage-It				
	PROG	CEDURE		
	4 . B	ith water at ambient	<u>t temperature</u> . JURST PRESSURE: O	PSI
Hose Assembly Seria		Hose Serial N	lumber:	-31
Comments:			OKC	
Date: 1 3/8/2011	Fested:	Sonie Sone	Approved:	4

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Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zoc Mcconnell

Approved By: Kim Thomas



Exhibit F -3– Co-Flex Hose Lea South 25 Federal Com #10H Nearburg Producing Co. 25-20S-34E SHL 330 FSL & 2130 FWL BHL 330 FNL & 2180 FWL Lea County, NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unibolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2". 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)

P.O. Box 96558 - 1421 S.E. 29th St. Oklahoma City, OK 73143 * (405) 670-6718 * Fax: (405) 670-6816

Nea SHL BHL		vest Hose cialty, Inc.	E a Sadim	
		of Conform		
	Customer:		PO ODYD-271	
		FICATIONS		
	Sales Order 79793	Dated:	3/8/2011	
	19795	1999	5/6/2011	
	We hereby cerify that the for the referenced purchaccording to the require order and current industions.	hase order to ements of the	be true purchase	
	for the referenced purc according to the require	hase order to ements of the stry standards	be true purchase	
	for the referenced purch according to the require order and current indus Supplier: Midwest Hose & Specia 10640 Tanner Road	hase order to ements of the stry standards	be true purchase	
	for the referenced purch according to the require order and current indus Supplier: Midwest Hose & Specie 10640 Tanner Road Houston, Texas 77041	hase order to ements of the stry standards	be true purchase	

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Exhibit F – Co-Flex Hose Lea South 25 Federal Com #10H Nearburg Producing Co. 25-20S-34E SHL 330 FSL & 2130 FWL BHL 330 FNL & 2180 FWL Lea County, NM



