•		•	
÷ A		PTG-W	
DATE IN	5,31,11 SUSPEN	NSE ENGINEER / IV. T LOGGED IN 5, 31,11 TYPE DHC APP NO. 1115150	524
		ABOVE THIS LINE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISION	Fine
		- Engineering Bureau -	
		1220 South St. Francis Drive, Santa Fe, NM 87505	'// #_
		ADMINISTRATIVE APPLICATION CHECKLIST 30-07	-5-28
T	THIS CHECKLIST IS N	VANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATI WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	ONS
Appli	cation Acronym	18:	
	-	andard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] vnhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]	
	[PC-Pc	ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]	Lea
		[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]	Fel
	_	alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]	/ • •
[1]	TYPE OF AI [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication	
		$\square$ NSL $\square$ NSP $\square$ SD $2-1-$	-145-
	Check	k One Only for [B] or [C]	
	[B]	Commingling - Storage - Measurement	
-	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery	291
	[D]	Other: Specify	/ 10
[2]	NOTIFICAT	<b>TION REQUIRED TO:</b> - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	
	[B]	Offset Operators, Leaseholders or Surface Owner	
	[C]	Application is One Which Requires Published Legal Notice	
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,	
	[F]	Waivers are Attached	
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TY ATION INDICATED ABOVE.	YPE
r 4 1			
[4]	CERTIFICA	<b>TION:</b> I hereby certify that the information submitted with this application for administrat	ive

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Hollie Lamb	7/ Chille	Consulting Eng	May 13, 11
Print or Type Name	Signature	Title	Date

hlamb@helmsoil.com e-mail Address

#### Hollie Lamb

From: Sent: To: Subject:

-1.

Jones, William V., EMNRD [William.V.Jones@state.nm.us] Monday, May 09, 2011 9:10 AM Hollie Lamb RE: Downhole Commingle

Thanks Hollie:

When you send in the package (the C-107B plus any support you need such as letter of explanation), attach to the front an "Administrative Order Checklist" form from the "Forms" section of the OCD web site – it should be the first unnumbered form. Send the application to the Engineering Bureau of the OCD in Santa Fe.

Terry Warnell, another engineer here, logs in the applications and they are assigned out to someone to complete. Probably David Brooks will do this.

Hope you have a fun week,

Will Jones New Mexico Oil Conservation Division Images Contacts

From: Hollie Lamb [mailto:hlamb@helmsoil.com] Sent: Monday, May 09, 2011 6:49 AM To: Jones, William V., EMNRD Cc: Mike Stewart Subject: RE: Downhole Commingle

Will,

I have made the correction and signed the document for Submittal.

Please let me know if you have any questions or concerns.

Regards,

Hollie C Lamb Engineer



H∈LMS Oil & Gas, LLC P.O. Box 52808, Midland, Texas, 79710 Cell (432) 634-5446 Fax (432) 682-1166 Office (432) 682-1122 Email : hlamb@helmsoil.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us] Sent: Friday, May 06, 2011 5:22 PM To: Hollie Lamb Subject: RE: Downhole Commingle

Looks fine to me.

1

You can put N/A in the spot for Pressures – since the 150% rule does not require pressures to be reported.

Will Jones New Mexico Oil Conservation Division Images Contacts

4

From: Hollie Lamb [mailto:hlamb@helmsoil.com] Sent: Friday, May 06, 2011 12:34 PM To: Jones, William V., EMNRD Cc: Mike Stewart Subject: Downhole Commingle

Will,

Here is the Downhole Commingle form I mentioned on the phone yesterday. I complete the fixed allocation based IP and similar declines. I have not finalized it because I wanted to get your input.

Please let know if you need additional data,

Regards,

Hollie C Lamb Engineer



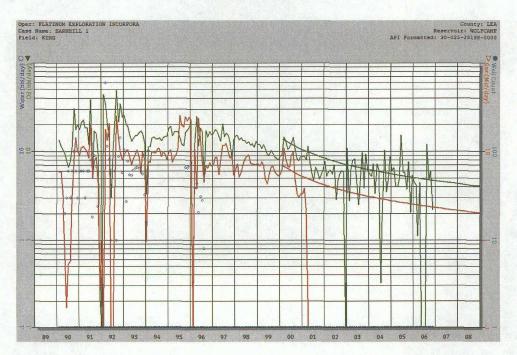
H∈LMS Oil & Gas, LLC P.O. Box 52808, Midland, Texas, 79710 Cell (432) 634-5446 Fax (432) 682-1166 Office (432) 682-1122 Email : <u>hlamb@helmsoil.com</u> To whom it may concern,

4.

Helms Oil and Gas is an engineering consulting limited liability corporation that was founded in 2010. We provide engineering and geological support for various operators in Texas and New Mexico. We are on retainer to provide localized knowledge in the Permian Basin for NMR Energy LLC, which is based in Houston.

NMR currently has acquired 2 leases in Lea County, New Mexico, that have been in violation for several years under prior operators. These wells were scheduled to be plugged by their state due to the inactive status and non responsiveness of the prior operator.

Once the transfer of ownership occurred, we have been able to review the complete well history and the previous operator's notes. In reviewing the well files for NMR Energy, it has come to light that a previous operator downhole commingled two pools, and failed to file the appropriate paperwork. This well work was done over 11 years ago. The notes on this completion are included in this package along with the only invoice we can find to confirm that the work was completed as per the notes. NMR has prepared a C-103 Subsequent report of remedial work in order to document the work. I consulted with the geologist in the Hobbs district (Paul Kantz) to determine some of the information on the King Penn, which in Lea County has not produced since the NMOCD has taken the steps to go electronic. I have included the C-107A, prepared by myself and correspondence with Will Jones. I based the allocation on the decline curve analysis, and in discussing with Will Jones was an acceptable method. Below is the curve utilized for the decline analysis.



Please find at additional paperwork for the downhole commingle in this package, and don't hesitate to call myself or Mike Stewart, if you have additional questions.

Hollie Lamb Engineer Office (432) 682-1122 Cell (432) 634-5446 Email : <u>hlamb@helmsoil.com</u> Michael Stewart President Office (432) 682-1122 Cell (432) 638-9009 Email : <u>mstewart@helmsoil.com</u> District I

ž,

District II

1301 W. Grand Avenue, Artesia, NM 88210

Hobbs, NM 88240

District III 1000 Rio Brazos Road, Aztec, NM 87410

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

District IV

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107A Revised June 10, 2003

**Oil Conservation Division** 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

APPLICATION TYPE X Single Well Establish Pre-Approved Pools EXISTING WELLBORE X Yes \_\_\_\_No

## APPLICATION FOR DOWNHOLE COMMINGLING

NMR Energy LLC		800 Bering, S	Ste 250, Houston, Texas 77057	DR	-4407	
Operator Barnhill		1	Address UL - L Section 1 7	Г-14S R-37E		Lea
Lease		Well No.	Unit Letter-Section-To	wnship-Range		County
OGRID No. 280401	Property Code	601649	API No. 30-025-28198	Lease Type:	Federal	State X_ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	King Wolfcamp		King Penn
Pool Code	36100		36020
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	9406'-08', 9414'-18', 9425'-27, 9432'-36', 9440'-44', 9448'-52', 10018'-26'		11130'-11136'
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	N/A		N/A
Oil Gravity or Gas BTU (Degree API or Gas BTU)	38 (Reference Roswell Geological Society)		37 (Reference Roswell Geological Society)
Producing, Shut-In or New Zone	Producing		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 2/26/1990 Rates: IP - 28 BOPD 35 MCFPD (based on C-105 filled by American Exploration)	Date: Rates:	Date: 7/18/2000 Rates: IP - 5 BOPD 4 MCFPD (based on historical curve analysis incremental production)
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 85 % 87.5 %	Oil Gas % %	Oil Gas 15 % 12.5 %

#### ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?	Yes_XNo
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes No_X
Are all produced fluids from all commingled zones compatible with each other?	YesXNo
Will commingling decrease the value of production?	Yes NoX
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes NoX
NMOCD Reference Case No. applicable to this well:	

Production curve for each zone for at least one year. (If not available, attach explanation.)

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

## **PRE-APPROVED POOLS**

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools

Proof that al	I operators within	the proposed I	Pre-Approved	Pools were	provided	notice of th	is application.
Bottomhole	pressure data.						

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

signature Holleal	TITLE Consulting EngineerDATE May 9, 2011	
TYPE OR PRINT NAME Hollie C Lamb	TELEPHONE NO. (_432)682-1122	

E-MAIL ADDRESS\_\_hlamb@helmsoil.com

Submit I Copy To Appropriate District Office'	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 October 13, 2009					
District I 1625 N. French Dr., Hobbs, NM 88240	Ellergy, winerals and Waldrah Resources	WELL API NO.					
District II	OIL CONSERVATION DIVISION	30-025-28198					
1301 W. Grand Ave., Artesia, NM 88210 District III		5. Indicate Type of Lease					
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE 🗌 FEE 🛛					
District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.					
1220 S. St. Francis Dr., Santa Fe, NM 87505		601649					
-	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name					
	LS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	Barnhill					
PROPOSALS.)	TION FOR PERMIT" (FORM C-101) FOR SUCH	8. Well Number					
· · · · · · · · · · · · · · · · · · ·	as Well 🔲 Other	1					
2. Name of Operator		9. OGRID Number					
NI	MR Energy LLC	280401					
3. Address of Operator	· · · · · · · · · · · · · · · · · · ·	10. Pool name or Wildcat					
800 Bering,	Ste 250, Houston Texas 77057	King Wolfcamp					
4. Well Location		· · · · · · · · · · · · · · · · · · ·					
Unit Letter L:_16:	50feet from theSouth line and990	feet from theWestline					
Section 1	Township 14 S Range 37 E	NMPM Lea County					
	11. Elevation (Show whether DR, RKB, RT, GR, etc.	)					
	3831						
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data							
NOTICE OF INT		SEQUENT REPORT OF:					
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING							
	CHANGE PLANS						

OTHER:		OTHER:
13. Describe proposed or completed operations. (	Clearly state all p	ertinent details, and give pertinent dates, including estim
of starting and managed marks) SEE DULE 1	0 16 7 14 30 44 0	E a Markinka Complete and Added and Iller and Complete

Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

After reviewing the files it has come to our attention that additional work preformed to this wellbore was not filed by the previous operator.

Attached the Wellbore Diagram, Reports and any invoices that could be located, also I have attached C-101, which was filed on 7/2/2000.

Spud Date:	Rig Release Date:	
I hereby certify that the information a	bove is true and complete to the best of my knowled	dge and belief.
SIGNATURE	TITLE	DATE
Type or print name For State Use Only	E-mail address:	PHONE:
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE

District 1
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 87505

3

### State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-101 Revised March 12, 1999

Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

\_\_\_\_ AMENDED REPORT

# APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

	<sup>1</sup> Operator Name and Address.									<sup>2</sup> OGRID Number
Lindenmuth	Lindenmuth & Associates, Inc. 01334									43
510 Hearn S	street									<sup>3</sup> API Number
Austin, Texas 78703 30 - 025-28198									025-28198	
<sup>4</sup> Prope	<sup>4</sup> Property Code <sup>5</sup> Property Name <sup>6</sup> Well No.								<sup>6</sup> Well No.	
013912 Barnhill							1			
						<sup>7</sup> Surface 1	Location			
UL or lot no.	Section	Townsh	hip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	1	145		37E 1650 South 990 West						Lea
<sup>8</sup> Proposed Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Townsh	ip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>9</sup> Proposed Pool 1 Ving Wolfcamp

	" Work Type Code	12 Well Type Code	13 Cable/Rotary	14 Lease Type Code	15 Ground Level Elevation
Ì	D	M		P	3831 GR
1	" Multiple	17 Proposed Depth	<sup>18</sup> Formation	<sup>19</sup> Contractor	<sup>20</sup> Spud Date
			Strawn / Wolfcamp		

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.1/2	13 3/8		405	500	
12 1/4	8 5/8		4668	2200	
7.7/8	5 1/2		12744	2975	

<sup>22</sup> 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.

Lindenmuth & Associates, Inc. proposes to test the Strawn & Middle Wolfcamp in the following manner (current interval 9403'-9453'--Upper Wolfcamp):

1). Perforate and acidize the Strawn from 11,134-11,140 w/ 4 SPF & 1000 gal. HCL. Swab to test.

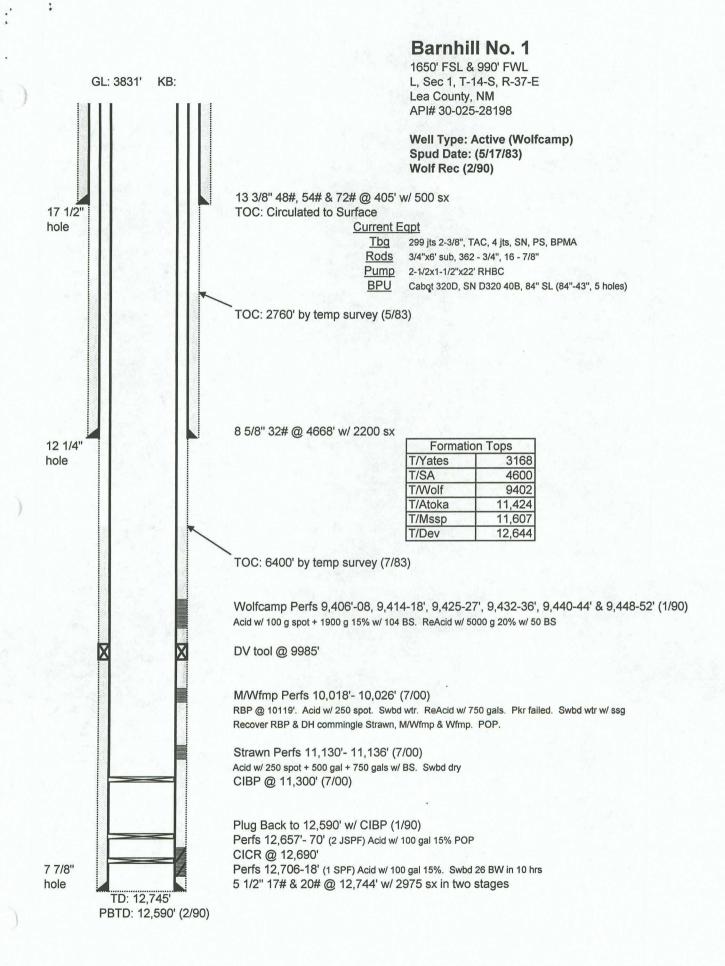
2). If the Strawn is commercial, return to production from Strawn. If uncommercial, set CIBP @ 11,000' +/- & dump 15 sx cement on top.

3). Perforate and acidize the Middle Wolfcamp from 10,084'-88', and 10,018'-26' w/ 4 SPF and 1500 gal. HCL. Swab to test.

4). If the Middle Wolfcamp is commercial, return to production from Middle and Upper Wolfcamp. If uncommercial, set CIBP @ 10,000' +/- & dump 15 sx cement on top. Return to production from Upper Wolfcamp.

<sup>23</sup> I hereby certify that the information complete to the best of the knowledge	given above is true and and belief.	OIL CON	OIL CONSERVATION DIVISION		
Signature:		Approved by:	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$		
Printed name: Gordon H. Deen		Title:	Title:		
Title. Operations Manager		Approval Date:	Expiration Date:		
Date: 7/2/00 Phone: 512-322-9779		Conditions of Approval : Attached D			
			united 1 Vear From Approval		

C	
7	



Stal last of Work De 7/18/00 - 8/4/2000 í ) Eunice Will Suvice -25,542 54 T&C TANK Rental 50 291 4896 90 hea Co. factes 5643 00 Rotary Wuilino 1865 39 Hydrostatic Bulldog Services 1375 35 Eunice Pump & Supply\_ 1334 54 <u>559 35</u> Dandy Coep Maclasky Sewices 10227 96 4611. 25 Logers : ]

81 <u>NY@ 20<sup>#</sup> 1.36 c 3000'</u> IIh @ 8600' Rec. 85 BBls Wte Sight gas blow after each run *DD31* 202 Slo Dac 13h @ 4500' IIK@ 9400' Rec 61 BBG WHR Al Joe 30 min. Aluid level increase \_\_\_\_\_ of 600'\_\_\_\_\_ DD311\_\_\_ 203 All Q VAC PAR 6 5700' Made 2 Runs Rec 6BBlowte. Release ple and RIH to LBP. Killase plug & Pott. RIH & Poh "/2 As and laid down KIH "/MA, PS, 3N, 4 Hs, 51/2 TAC & 299 Als. Remode B.O.P. Set TAC "hopes tencion. Alanged up and DD.41 204 RIL W/Pump (2,11/4x 24) Rods (13-7/8, 365-34) Pony Rods (1-8, 6, 4'+2.2'78) Hung will her al 12 BBlo RU Dun Put well in fred.

Cont. 227. RIH and setucided 50. Ru to swale. Rec. 20 BBls with 30.371 CE8 Ru to Swain. No S.L. Pres 1 to 1400' I to 4400' Rec 20 BB6 Kelease packer and PoH. Changed out packer and RIH to 9936'. Ru to Swale. 130 1200' 330 8000 Rec. 54 BBls wtr no gas of our signs. SDJ.M. Ru to Swal no St fees (1@ 2800' IT @ 5000' Rec. 10 BBls WHR. - )---Ru to acid well Pumped 150 gels W/36 BBG 2% Rel Husk, fumped 27 BBG l'Jose pres increase to 4100 \* Decreased rate to IBPM. acid, on formation @. . 81 BPM. 4800 pers, With 49 BBls pumped packer gave way. Pumped 4 BBls to clear acid from Tbg AD aup @ 2280 5 min. 1250 10 min @ 640" 15 min - 220 " May fres @ 4900' aver fres @ 4820' aver Late @ . 81 BPM. Jotal hoad 56 BBls. Ru to Swale 13@ 50 Swale well down to 1200' Ric TO BBLS Aust run Iha 600' Rec total 90 BBls "/ Sight gas Blow, S.D.J.M.

Cont. Es 5 min - O - Fles Sotal hoad. 56 BB6 R.11 To Swale 130 100' 33KO 10,700' Rec. 13BBlo Swale will days <u>SDJN.</u>\_\_\_\_ C26 lf@ Ru to swale. 1.4@ 9500 Release packer KIH to 11140 to clean puts for to 11072 & reset packer. But to swale 1 30 3600' Rec. 36 BBlo wtr. Sunde Diy to 10800'. Release Packer & Port. "/ the & packer. SDJ.A. CET RU. Rotary Winding ran 2000' constation log. adjusted 20' uphole to open hole log. Ref. 10018-10026 @ 45PF. Poll Windino Pu LBP & Phe LIH to 10119 & set LBP. Set Pke & test Plug to 500#. Release PKC Popto 10026 and spotted 250 gal acud. Poh to 9700' & Set Packer. Starting Pumping acid Pres deop pom 1360 to 1050 @ 2.75 BPM. Started Jush. With 20 BBlo pumped started circulating fluid out Cog. Shut Cog and monitored fres. Pumped remaining flush · away @ Aver. 32 BPM @ 2400\*. Howld Cog down no fluid return from Jbg, Release PKe. PoHto 9281 and resit. hoaded Backside "/6 BBls and tested to 550" Dropped SU Just they to 100"

500 gals 15% HE JE funged 10 BBls of 2% KCL. ) Cont. shut By Pass and put acid away. Husked to stm ful. May fres: 10:0° aver fres: 400 aver: Rate 2BPM. 1342-560\* 5 min: 360 10 min: 220 15 min: 90 Istal Koad: 112 BBls. Rig up to Swale \$30 800' 37 @ 4600' Lec 45 BBbs BTR- 67 BBb. 1/22 MTHO 120° RU. To Sout \$ 40 1.400' 37 0 8000' Rec. 20 BBG KTR 47 BBG NOOd SD. Cer SITP 50" 13@ 8000' Just sample indicated 20% al Cut. Pu d RIH W/50/5 to 11201 and set PRE Would not load and pres Release PKe\_\_\_ RIH to 112.32 Set fle would not hard. Deopped. SU. hoaded W/21 BBlo Just tly to 500#. to H W/359 Hs & Packer. Lu Rotary Wurling KIH and set CIBP @ 11300'. Put & CIN "15'h packer W/353 Hs 5.D.J.M. "/25 RIH "/ester 6 Als to 11232' Set facture Jest plug to 600 to hop to 11030' and set facture. Open by- face functed acid to spot. Shut By- tass funged 750 gabs 1570 "/18 BB6 2%. "Ball sealus. no Ball out But good Ball action Deen. May Pus- 3060 + Adre 850 / 150 360

Koncessmuth & Associates Barnhill Will #1 <u>JIB/2000</u> 278 - Made in Europe Will Sudice () 219 Ku. Unit Pok Whods (2.2; 1.4', 1-6' \$ 1.8' 7/8 Pory Lodo, 365-24 \$ 13-7/8) Pump (2+11/4+24) Belease TAC, & Flange up BOP. RIH "paraffin Knife and cut faraffin for 3' the show for W/Tby string (299.238, 51/2 TAC, 4-238, 3N, P.S 6 M.A.) DD 3 M. Pil & PIN W/13/1 Bit & Sciapper. Justed Hg in hole @ 1000#. Pil estes 56 fts and LIN to 11,300', Sotal Als Rive 359 Pok and land down 2 Als. foll Test of the. hard down. Bet & perappu. 3 D.3M. En Ru Rotary Will lines LIH "/4" cog guns Coepelated "/ Gear hart and put 11130 - 11136 "/4 SPF. POH Jamo Rel and RIH "/5/2 Bakes packer & 356 Us to 11130'. Lu Maclasky - Pumped 250 gab of 15% Alusked to Pupp "143 BB6 270 KC. Fulled factur to ) 11030'. Fumped 5 BB6 2% RCI down log. to clean Packer Set Packer, Open By-Pass fumped Cont:

**Rotary Wire Line** INVOICE 10188 SERVICE, INC. 'Specializing in Pipe Recovery' Phone (505) 397-6302 P.O. Box 2735 • HOBBS, NEW MEXICO 88241 LINDENMUTH & ASSOCIATES 2000 AUGUST CUSTOMER DATE 510 HEARN STREET, SUITE 200 ADDRESS P. O. NO AUSTIN, TEXAS 78703 RONNIE ROGERS Statement of Charges for Furnishing Personnel and Equipment to Perform the Following Itemized Services on Your Lease ITEM NO. **DESCRIPTION OF SERVICES** CHARGES WORK ORDER # 117/27 BARNHILL # 1 )LEA COUNTY, NEW MEXICO 07 - 21 - 00PERFORATE 51" CASING FROM 11130 -36' 4 SHOTS PER FOOT TOTAL 24 HOLES 07-24-00 SET 52" CAST IRON BRIDGE PLUG @ 11,300' 07-27-00 RUN GAMMA RAY CORRELATION LOG FROM 10200' TO 8300' PERFORATE 51" CASING 4 SHOT PER FOOT FROM LO118' - 10126' TOTAL 32 HOLES PRICE QUOTE 5,643,00 6.0% TAX 338 58 TOTAL DUE \$5,981 58 THANK YOU! THE PRINT SHOP #1845

905-394-2901 7/17/00 Bornhill #1 Workover Ronnie, Attached is my procedure for the Bornhill recoupletion. A couple of general points. 1.) I have shown shooting the 11,130 = one w/ a casing gun. If we cannot load the hole (if the current perfs drink all the fluid) this may not be a good idea, we will probably want to perf through they with a spiral strip sho-gun.  $\bigcirc$ D.) I spec a lot-set pocker. Talk to your packy man about this. The only problem is we may have fouble unsetting it if the they losg are out of bulance because it doesn't have an equalizing value, 3.) I will overnight you the correlation by from 11,000 down, i the open log if we do the upper zone for correlating a new log to. 4) I would like to get at least 2 bids on the items on the bid list page. <u>; )</u>\_\_\_\_

5.) The Tubing is at Crozier pipe in Monchans. Ken Crozin is expecting your Call about having it over there 915-943-6797 (c) If we put any of the deeper zones. on pup, I will run a new roch design and forward it for the additional roads needed. This will be tricky i depend on the pluid rates. Read this over and give me a call. I am Gordon (ell (512)-940-9877 

Bornhill #1 \_.i. . ) . . . . . . Current Downhole They: 23/8" N-80 Brd EUE - 299 its, TAC, 4, ts, SN, Mod Anchen Pools: 7/8"-2×2'sub, 2×4'sub 1×6'sub, 16 rods. 3/4"-362 (39: 51/2 17:20 15 C 12,744' PBTD: CIBP @ 12,590 Perfs- Upper WolfCap: 9406-08, 9414-18, 9425-27, 9432-36 9440-44, 9448-52 Procedure . . 1) POH of Rods : Pop. Send purp in for redress. 2) ND W.H. NUBOPS. Unset TAC ; Pott w/ tbg. (strop tbg] Send TAL in for redress. \* Load Hoke of Fild Solt Water \* 3.) Run 4314" bit : screper to 11,300'+1-. Use 2318" they from Crozier pipe to make up rest of string. Pet nu pipe on top. 4) RU Wireline, Lood 33 Csg gun 45PF X 6. RTHS correlate to Geormant GIRICEL dated 7-29-83. Perf. 11, 130-36. [Nok: Short jt from 11, 131-68]. 5) PU 5'15" lok-set PKr, SN, " TIH on Hog. Hydrokst the to 7000 psi above the slips. 6) Spot 250 gal 15% HCL inon sequestering agent and corrosion inhibitor across perts. Pull 6 jts they i fluch backside up 2661s. FSW.

Barnhill

(#6 Continued). Set ptr @ 10,956 +1-. Monitor backside a displace spot acid. Pup odditional 500 gol 15% @ maximum rate 2BPM & maximu pussine of 300 ops 7.) RU Swab. Swab Hog to test. If well begins to flow, flow @ max rate of 10 BPH. Monthing CSq. Test until oil cut i pressure 1 on fluid lever consist. 8.) If obandon 11,130' zone, RIH -1 W.L. set CIBP. Set @ 11,000+1-. 9.) RV Wireline, Ron GRICLE correlation strip from 10,300' to 9300' (or their minimum interval), 10) Load 36 csg gon 45PF X 8. RIH & correlate .) to new log. Pert from 10,018'-10,026. 12.) RIH of Lokisct pkr: SN. Spot 250 gol 1570 He w/ iron sequestering agent i' corrosion inhibitor across perl Pull 6 jts Hog & flush backside 4 26515, FSW, Set pKr. C 9846+1-. Monitor backside & displace Spot acid. Pup additional 500 gal 15% (uladitives) C maxim rate 2BPM : maxim pusous of 3000ps, 13.) QV Swob, Swob Hog to test. It well flows, flow @ max rate of 10 BPH. Test ustil oil cut « pressue on fluid level consistant. 14.) If 10/0/8-26 zone wit, set CIBP @ 9900+1and return to prod. as before.

Barnhill Bid Itens Wireline (1) Perf 4SPF × 6' w/ 33/8' csq gun i premium charges
 from 11, 130-36 w/ pack-off on BoP,
 (2) Set CIBP @ 11,000'+1-(3) Run GR/Lee strip from 10,300' to 9300' (i) Perf as #1 but B' Acid (1.) Pump 750 gol 15% HEL of iron sequestaring agent i corrosion inhibitor 24 hrs @ 200°F Tools (1) 5'12" Lok-set pkr (17-20#) (2) 5'12" scraper, used bit, crossover sub. Tubing Testing (1) Test 11,150' 23/2 N-80 EUE to 7000# above slips

Barnhill #1 - Downhole Pods 769 4'+8' × 7/8 ponies 302 its 23/8 N.80 362 x 3/4" 516" TAC (IZOB TON) 16 x 7/8" 6 jts 23/8 2"× 11/16" x20' RHBM (pump@ 9450') SN P5 MA 111 '. "*\** 

Submit I Copy To Appropriate District HOBBS OCD State of New Mexico	Form C-103
District I Energy, Minerals and Natural Resources	October 13, 2009
1625 N. French Dr. Hobbs NM 88240	WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210 District II 1301 W. Grand Ave., Artesia, NM 88210 District II CONSERVATION DIVISION	30-025-28198
	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	STATE FEE -
	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fc, NM 87505	. 601649
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	Barnhill
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	8. Well Number
PROPOSALS.) 1. Type of Well: Oil Well 🛛 Gas Well 🗌 Other	
2. Name of Operator	9. OGRID Number
	280401
3. Address of Operator	10. Pool name or Wildcat
800 Bering, Ste 250, Houston Texas 77057	-
	King Wolfcamp
4. Well Location	
Unit Letter L_: 1650 feet from the South line and 990	feet from theWestline
Section 1 Township 14 S Range 37 E	NMPM Lea County
11. Elevation (Show whether DR, RKB, RT, GR, etc.,	
3831	
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data
12. Check Appropriate Box to Indicate Pattere of Police,	report of Onior Data
NOTICE OF INTENTION TO: SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK I PLUG AND ABANDON I REMEDIAL WOR	
DOWNHOLE COMMINGLE	
	<b>—</b>
13. Describe proposed or completed operations. (Clearly state all pertinent details, an	
of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Con	
of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Con	
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District 1 1625 N. French Dr., Hobbs, NM 88 District II 1301 W. Grand Avenue, Artesia, N District III 1000 Rio Brazos Road, Aztec, NM District IV 1220 S. St. Francis Dr., Santa Fe, N	87410	State of New Mexico rgy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	APR 29 2011 Form C-144 CLEZ July 21, 2008 For closed-loop systems that only use above example index or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.	
Instructions: Please submit on closed-loop system that only us Please be advised that approval of	te above ground steel tan Ty e application (Form C-144 ( e above ground steel tanks o this request does not relieve t	r haul-off bins and propose to implement waste the operator of liability should operations result		
Address: 800 Bering, St Facility or well name: Bar API Number:30-025-2819	e 250, Houston, Texas, 770. hhill 8	57 OCD Permit Number:	-	
	ntitude		County:Lea NAD: []1927 [] 1983	
Image: Subsection H of 19.15.17.11 NMAC         Operation:       □ Drilling a new well       □ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)       □ P&A         Image: Above Ground Steel Tanks or       □ Haul-off Bins         Image: Subsection C of 19.15.17.11 NMAC         Image: Image: Subsection C of 19.15.17.11 NMAC				
Signed in compliance with 19.15.3.103 NMAC Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:				
Previously Approved Oper				
Instructions: Please indentify facilities are required. Disposal Facility Name: Disposal Facility Name: Will any of the proposed closed Yes (If yes, please provi Required for impacted areas w	the facility or facilities for Gandy Marley Sundance d-loop system operations an de the information below) hich will not be used for fut	Disposal Facility Permit Disposal Facility Permit d associated activities occur on or in areas the No ure service and operations:	rill cuttings. Use attachment if more than two Number:NM 01-0019 Number:NM 01-0003 at will not be used for future service and operations?	
Soil Backfill and Cover	Design Specifications ba ed upon the appropriate req	sed upon the appropriate requirements of Sul uirements of Subsection I of 19.15.17.13 NM requirements of Subsection G of 19.15.17.13	IAC	
Operator Application Certifi				
1	ation submitted with this ap	oplication is true, accurate and complete to th		
Name (Print): Hollie Lamb	2/10.	Title: Engin Date: April		
c-mail address: hlamb@hclmsd	bil.com	Telephone: (4)		
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Form C-144 CLEZ

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7. OCD Approval:  Permit Application (including closure plan) Closure Plan (only) OCD Representative Signature: MAY 0.2 2011 Approval Date:				
	Approval Date:			
Title: DISTRICT 1 SUPERVISOF	OCD Permit Number: <u>P1-03171</u>			
8. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.				
·	Closure Completion Date:			
9. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.				
Disposal Facility Name:	Disposal Facility Permit Number:			
Disposal Facility Name:				
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No				
Required for impacted areas which will not be used for future service and opera Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	lions:			
10. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.				
Name (Print):	Title:			
Signature:	Datc:			
e-mail address:	Telephone:			