

September 16, 2013

HOBBS OCD

SEP 17 2013

New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

RECEIVED

RE: Form C-144 Application for Multi-Well Fluid Management Pit Hamon Fed Com A Lease Lea County, New Mexico

Ladies and Gentlemen:

Attached is a Form C-144 application for a proposed fresh water pit to be constructed for the Hamon Fed Com A lease, initially to serve well #3H (API #30-025-41305). The pit will be used exclusively for fresh water with less than 1,000 Mg/L total dissolved solids. The pit is located on private surface land, but will serve a lease on federal land. The BLM has already approved the pit (pond). Attached are the BLM approval and their conditions of approval. We plan to utilize the pit to store water for the completion operations process of well #3H and the upcoming drilling and completions process of wells #4H, #1H and #2H which will be soon permitted with the BLM and are planned to be drilled in 2014. Though not originally permitted as such with the BLM, the pit will be double-lined with a leak detection system and will contain a floating polyethylene cover that will eliminate evaporation and contact with wildlife.

The proposed pit site is located in a dunal desert rangeland area with topography consisting of mesquite, yucca and grass stabilized sand sheet. The vegetation consists of mesquite, yucca and assorted range grasses and forbs with few intermixed gravels. The soil is mainly light tan silty sand. There is no significant fresh water accumulation on or near the surface. There are no nearby fresh water wells. The design plan, operating and maintenance plan and closure plan of the pit will be in accordance with the requirements of 19.15.17 NMAC.

Also attached are Form C-102 and a survey plat showing the location of the subject pit. Prompt approval of this application is requested so the pit will be permitted for use in the completion process of Hamon Fed Com A #3H, which will be in approximately one month. If any additional information is needed, please contact me at 432/689-5201 or by email at blewis@legacylp.com. Thank you.

Sincerely,

Tens

Blain K. Lewis Senior Engineer

Accepted for Record Only <- 144 SUBMITTAL NOT REQUIRED FUR PITS CONTAINING ONLY FRESH WATER SLEDGE BORNEY, ENT. Specialist NMOCD-DIST 1

SEP 18 2013

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State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application	HOBBS OCT
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank	SEP 1 7 2013 RECEIVED
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative reque	est in the second s
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, groun environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regu	nd water or the lations or ordinances.
Operator: <u>LEGACY RESERVES OPERATING LP</u> OGRID #: <u>240974</u> Address: <u>P.O.</u> <u>BOX</u> 1084-8, <u>MIDLAND</u> , TX 79702 Facility or well name: <u>HAMON</u> FED COM A FRESH WATER FRAC API Number: <u>30-025-41305</u> OCD Permit Number: U/L or Qtr/Qtr Center of Proposed Design: Latitude Surface Owner: Federal State Private	POND
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Ptimed Unlined Liner type: Thickness 30 String-Reinforced String-Reinforced Volume: 55,000 bbl Dimensions: L250 x x	és □ no
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Tank Construction material:	
 <u>Alternative Method</u>: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for considerations 	tion of approval.
 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify CHAIN CINK, 6' HEIGHT, NO BARBED WIRE (. 	l, hospital, ASPER

	 6. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other <u>COVERED WITH SOLID</u> FLOATING POLYETHY Monthly inspections (If netting or screening is not physically feasible) 	LENE
٤ ۲	7	
	Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC	
	 8. <u>Variances and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> <u>Variance(s)</u>: Requests must be submitted to the appropriate division district for consideration of approval. <u>Exception(s)</u>: Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	
L		
	^{9.} <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
	General siting	
	<u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u> - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes 🗗 No □ NA
	Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes Yes No
	 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗗 No
	 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes 🎦 No
	 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes Yo
	Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes 🗗 No
	Below Grade Tanks	
	 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
	 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
	Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
	 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No
	Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	🗌 Yes 🗌 No
ļ	- visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
	Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.	🗌 Yes 🗌 No

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes 🗌 No
Temporary Pit Non-low chloride drilling fluid	
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗗 No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes 🗗 No
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes 🗗 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes PNo
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:	MAC cuments are NMAC 15.17.9 NMAC
Multi-Well Fluid Management Pit 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 doc 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 A List of wells with approved application for permit to drill associated with the pit. (IN COVER LETTER) Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	cuments are .15.17.9 NMAC

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12. Permanent Pits Permit Application 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 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan	documents are
13. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) Image: On-site Closure Method (Only for temporary pits and closed-loop systems) Image: Image: Image: Alternative	luid Management Pit
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	attached to the
^{15.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	rce material are Please refer to
 Ground water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	Yes No NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	📋 Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🗌 No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	🗌 Yes 🗍 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

Within the area overlying a subsurface mine.	Yes No
- written commutation of vermeation of map from the first Ewritten writing and written provision	🗌 Yes 🗌 No
Within an unstable area.	
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No
16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following items must be attached to the closure properties of the following attached to the closure pro	lan. Please indicate, .11 NMAC .15.17.11 NMAC not be achieved)
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	lief.
Name (Print): BLAIN LEWIS Title: SENIOR ENGIN	NEER
Signature: Brainffeins Date: 9/13/13	
e-mail address: <u>blewis@/egacy/p.com</u> Telephone: <u>432/689-5</u>	201
Image:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	g the closure report. t complete this
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18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	g the closure report. t complete this

22.
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 a	pplicable closure requirements and conditions specified in the approved	d closure plan.
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. S. Francis Dr. Santa Fe. NM 87505			State of New Mexico Energy, Minerals & Natural Resources Depations of OIL CONSERVATION DIVISION 1220 South St. Francis Dr. SEP 1720 Santa Fe, NM 87505			DCD _{Sub} 2013	Revis omit one c	Form C-102 eed August 1, 2011 copy to appropriate District Office ENDED REPORT			
Phone: (505) 476-3460 Fax: (505) 476-3462							RECEIVE	D		
		WÉ	LL LC	DCATIO	N AND	ACRE	EAGE DEDICA	ATION PLA	Ť		• •
30-02	Number 5 - 4-1	305		² Pool Code	2			³ Pool Na	me		
⁴ Property Code	HA	AMO	N/	FEDL	COM	operty Na	ame RESH WA	ITER FRA	ic Pan	v D	Vell Number
⁷ OGRID No. 24097	7 2	EG	AC	YR	ESE,	erator Na	ame ES OPER	RATING	- LP	\$	'Elevation
					" Sur	face L	ocation				
UL or lot no.	Section Towns	hip S 3	Range 84-E	Lot Idn	Feet fr	om the	North/South line	Feet from the	East	t/West line	County
L			" Bo	ttom Ho	le Locati	on If I	Different From	Surface			
UL or lot no.	Section Towns	hip	Range	Lot Idn	Feet fr	om the	North/South line	Feet from the	East	/West line	County
¹² Dedicated Acres ¹³	Joint or Infill	¹⁴ Cons	solidation	Code ¹⁵ Or	l rder No.	I				[

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.

16				" OPERATOR CERTIFICATION
	250'			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
	250'			owns a working interest or unleased mineral interest in the land including
	FRAC			the proposed bottom hole location or has a right to drill this well at this
	PIT			location pursuant to a contract with an owner of such a mineral or working
	Contraction of the			interest, or to a voluntary pooling agreement or a compulsory pooling
	CMULTI-WE	LL FLUID M.	ANAGEMENT	order heretofore entered by the division
	PIT)		C	BLAIN LEWIS
				<u>blewis@legacylp.com</u> E-mail Address
				*SURVEYOR 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 up belief
				sume is the und correct to the best of my benef.
				Date of Survey
				Signature and Seal of Professional Surveyor:
				SEE ATTACHED
				SURVEY FLAT
				ŕ
				Certificate Number



		Operator C	Сору	1	
Form 3160-5 (March 2012)	UNITED STATES	S			FORM APPROVED OMB No. 1004-0137
(March 2012) DE	PARTMENT OF THE I	NTERIOR		Ei	cpires: October 31, 2014
DUR				NM84651, NM8465	2, NMNM129733
SUNDRY I	NOTICES AND REPO	RTS ON WELLS	~	6. If Indian, Allottee o	r Tribe Name
abandoned well.	Use Form 3160-3 (Al	PD) for such proposa	ls.		
SUBM	IT IN TRIPLICATE - Other	instructions on page 2.		7. If Unit of CA/Agree	ement, Name and/or No.
1. Type of Well	Well Other			8. Well Name and No. HAMON FED CO	
2. Name of Operator LEGACY RESE	ERVES OPERATING LP			9. API Well No.	
3a. Address PO BOX 10848 MIDLAND, XX, 7870	2	3b. Phone No. <i>(include area co</i> 432-689-5200	ode)	10. Field and Pool or I TEAS EAST; BO	Exploratory Area NE SPRING
4. Location of Well (Footage, Sec., T.	,R.,M., or Survey Description)	+02 000 0200		11. County or Parish,	State
474' FSL & 2004' FEL, UNIT LETTER O, S	EC. 6, T20S, R34E			LEA CO., NM	
12. CHE	CK THE APPROPRIATE BO	K(ES) TO INDICATE NATUR	E OF NOTIO	CE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		TY	YPE OF ACT	10N	
Notice of Intent	Acidize	Deepen	Prod	uction (Start/Resume)	Water Shut-Off
	Alter Casing	Fracture Treat		amation	Vell integrity
Subsequent Report	Casing Repair	Diug and Abandon		mplete	WATER FRAC PO
Final Abandonment Notice	Convert to Injection	Plug Back	Wate	er Disposal	
following completion of the invol- testing has been completed. Final determined that the site is ready fo	work will be performed or prov ved operations. If the operatio Abandonment Notices must b or final inspection.)	y, give subsurrace locations and vide the Bond No, on file with 1 n results in a multiple completi e filed only after all requiremer	f measured an BLM/BIA. F on or recomp nts, including	Required subsequent rep letion in a new interval reclamation, have been	onts must be filed within 30 days , a Form 3160-4 must be filed on completed and the operator has
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(Instructions on page 2)



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BLM LEASE NUMBER: NMNM129733 COMPANY NAME: Legacy Reserves Operating, L.P. ASSOCIATED WELL NAME: Hamon Fed Com A #3H

FRAC POND CONDITIONS OF APPROVAL

A copy of the application (APD, Grant, or Sundry Notice) and attachments, including stipulations, survey plat and diagram, will be on location during construction. BLM personnel may request to see a copy of your permit during construction to ensure compliance with all conditions of approval.

Holder agrees to comply with the following conditions of approval to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this permit.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated.

3. Required Standard Conditions of Approval:

a. Notification

Contact the Supervisory Environmental Protection Specialist, Jim Amos, at 575-234-5909 at least 24 hours prior to starting construction.

b. Freshwater Only

The frac pond will only be authorized to contain freshwater and testing of water quality is required. Additives are not allowed without consent of the authorized officer in writing.

c. <u>Contamination</u>

If at any time the water in the frac pond becomes polluted with salts or other contaminants, use of the frac pond will cease and desist, and all liquids will be removed from the frac pond and disposed of properly. The operator will preclude releases of oil into open pits. The operator must remove any accumulation of oil, condensate, or contaminant in a pit within 48 hours of discovery.

d. Authorized Disturbance

Confine all construction and maintenance activity to the approved authorized area applied for in the application.

e. Facilities

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations. Grey-water, sewage, and trash shall be removed from the site and disposed of properly at a state approved facility.

f. Escape Ramps

The operator will construct and maintain frac ponds to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in frac ponds. Escape ramps must be installed at every corner of the frac pond and in the center of each side if that side exceeds 100 feet in length. Escape ramps must be in contact with the side of the frac pond, bottom of the frac pond, and the top of the frac pond berm. Escape ramps <u>cannot</u> be made of metal and <u>cannot</u> be steeper than a 3:1 slope (Horizontal Distance: Vertical Distance) or 30% slope. (*Examples of escape ramps: 12" wide wooden planks wrapped in matting, felt lining, etc.*)

g. Frac Pond Pipelines

Temporary pipelines flowing water to and from the frac pond must be laid along existing roadways. The two pipelines proposed in the Sundry Notice must be removed immediately after fracturing operations cease for the above named well.

h. Mineral Material from Excavation

Mineral materials extracted during construction of the frac pond will be stored onlocation and/or used for constructing the frac pond.

i. Frac Pond Liner

The frac pond will be lined with at least a 30 mil. plastic liner. The plastic lining will be removed prior to final abandonment.

j. <u>Topsoil Stockpile</u>

The operator shall strip at least the top 6 inches of soil (root zone) from the entire frac pond area and stockpile the topsoil approximately 25 feet outside the bermed perimeter of the pond, reasonably protected from wind and water erosion. (See survey plat of frac pond for location of topsoil stockpile.) Topsoil shall not be used for constructing the frac pond. The topsoil will be used for final reclamation purposes only.

k. Frac Pond Fence

The operator will install and maintain exclosure fencing on all sides of the frac pond to prevent access to public, livestock, and large forms of wildlife. The fence shall be installed at the base of the berm and never on top of the berm. Construction of the fence shall consist of steel and/or wooden posts set firmly into natural ground. Hog panel or chain-link fencing must be used as the fence and tied securely to the fence posts. Barbed-wire fencing or electric fences <u>shall not</u> be used. The fence height <u>shall not</u> be shorter than six (6) feet. The erected fence shall be maintained in adequate condition until the frac pond is reclaimed.

I. Erosion Prevention

Install earthen erosion-control structures as are suitable for the specific terrain and soil conditions.

m. Reclamation Start

- I. Reclamation efforts will commence immediately after the frac pond is no longer needed for the purpose of completing wells.
- II. Within 3 months of completion of frac operations on associated wells, all earthwork and final reclamation must be completed. This includes reclaiming and/or removal of:
 - i. Any roads approved for use with the pond
 - ii. Surface water lines
 - iii. Tanks, pumps, fencing etc.

Requirements for Operations and Final Reclamation:

4. If, during any phase of the construction, operation, maintenance, or termination of the frac pond, any pollutant should be released from the contaminated frac pond, the control and total removal, disposal, and cleaning up of such pollutant, wherever found, shall be the responsibility of holder, regardless of fault.

Upon failure of holder to control, dispose of, or clean up such discharge, or to repair all damages resulting there-from, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

6. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

7. After all disturbed areas have been satisfactorily contoured and prepared for seeding the location needs to be revegetated with the seed mixture provided. Seeding may need to be repeated until revegetation is successful. Operators shall contact Jim Amos, Supervisor, Environmental Protection – (575)234-5909, prior to beginning surface reclamation operations.

8. Seeding is required: Use the following seed mix.

() seed mixture 1	() seed mixture 3
(x) seed mixture 2	() seed mixture 4
() LPC mixture	() Aplomado Falcon mix

9. Special Stipulations:

Oil and gas activities including drilling operations will not be allowed in lesser prairiechicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

BLM LEASE NUMBER: NMNM129733 **COMPANY NAME**: Legacy Reserves Operating, L.P. **ASSOCIATED WELL NAME**: Hamon Fed Com A #3H

STANDARD STIPULATIONS FOR PERMANENT RESOURCE ROADS CARLSBAD FIELD OFFICE

A copy of the Sundry Notice and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

The holder/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application.

GENERAL REQUIREMENTS

A. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

B. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et. seq.*) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

C. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et. seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et. seq.*) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

D. If, during any phase of the construction, operation, maintenance, or termination of the road, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting there from the Authorized Officer may take such

measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

E. The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times.

The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

F. The Holder shall ensure that the entire right-of-way, including the driving surface, ditching and drainage control structures, road verges and any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar. The Holder agrees to comply with the following stipulations:

1. ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). Maximum width of surface disturbance from construction will be twenty-five (25) feet.

2. CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

Ditching will be required on both sides of the roadway.

3. DRAINAGE

Drainage control shall be ensured over the entire road through the use of borrow ditches, out-sloping, in-sloping, natural rolling topography, lead-off (turnout) ditches, culverts, and/or drainage dips.

A. All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval for lead-off ditches shall be determined according to the following table, but may be amended depending upon existing soil types

and centerline road slope (in %):

SPACING INTERVAL	FOR TURNOUT DITCHES
Percent slope	Spacing interval
0% - 4%	400' - 150'
4% - 6%	250' - 125'
6% - 8%	200' - 100'
8% - 10%	150' - 75'

A typical lead-off ditch has a minimum depth of 1 foot below and a berm 6 inches above natural ground level. The berm will be on the down-slope side of the lead-off ditch. The ditch end will tie into vegetation whenever possible.

B. Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The minimum culvert diameter must be 18 inches. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water. Culvert location and required diameter are shown on the attached map (Further details can be obtained from the Roswell District Office or the appropriate Resource Area Office).

C. On road slopes exceeding 2%, drainage dips shall drain water into an adjacent leadoff ditch. Drainage dip location and spacing shall be determined by the formula:

Example: 4% slope: spacing interval = 400 + 100 = 200 feet

4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:

4



STANDARD TURNOUT - PLAN VIEW

5. SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-

way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

A sales contract for the removal of mineral materials (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to using any such mineral material from public lands. Contact the BLM solid minerals staff for the various options to purchase mineral material.

6. CATTLEGUARDS

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

7. MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

8. PUBLIC ACCESS

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the Authorized Officer.

9. CULTURAL RESOURCES

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the authorized officer after consulting with the holder.

10. SPECIAL STIPULATIONS:

BLM LEASE NUMBER: NMNM129733 <u>COMPANY NAME</u>: Legacy Reserves Operating, L.P. <u>ASSOCIATED WELL NAME</u>: Hamon Fed Com A #3H

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Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	l <u>b/acre</u>	
Sand dropseed (Sporobolus cryptandrus)	1.0	
Sand love grass (Eragrostis trichodes)	1.0	
Plains bristlegrass (Setaria macrostachya)	2.0	

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed