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Form 3160-3 (March 2012) HOBBS OCD DEC 26 2017 DEC 26 2017 DEC 26 2017 DEC MINENT OF THE D				FORM AF OMB No. I Expires Octo	004-0137		
DEPANSIMENT OF THE I	INTERIOR			5. Lease Serial No. NMNM128366			
APPLICATION FOR PERMIT TO				6. If Indian, Allotee or	Tribe Name		
la. Type of work: 🗹 DRILL 🗌 REENTE	ER	· <u>·····</u> ······························		7 If Unit or CA Agreem NMNM70976B	ent, Name and No.		
lb. Type of Well: 🔽 Oil Well 🔲 Gas Well 🗌 Other	Si	ngle Zone 🔲 Multip	le Zone	8. Lease Name and We LEA UNIT 52H	302.802)		
2. Name of Operator LEGACY RESERVES OPERATING LP	(240	974)		9. API Well No. 30-025-	44301		
3a. Address 303 West Wall St., Ste 1800 Midland TX 7970	3b. Phone No (432)689-5). (include area code) 5287		10. Field and Pool, or Exp LEA / BONE SPRING	1005701		
 Location of Well (Report location clearly and in accordance with an At surface SESE / 630 FSL / 610 FEL / LAT 32.5966051 At proposed prod. zone SESE / 330 FSL / 660 FEL / LAT 3 	/ LONG -10	03.5071421	64	11. Sec., T. R. M. or Blk. SEC 1 / T20S / R34E	•		
14. Distance in miles and direction from nearest town or post office* 26 miles				12. County or Parish LEA	13. State NM		
15. Distance from proposed* location to nearest 330 feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of a 602.04	17. Spaci 160	ng Unit dedicated to this wel	1 .			
 Distance from proposed location* to nearest well, drilling, completed, 230 feet applied for, on this lease, ft. 	19. Propose 10500 fee	ed Depth et / 15832 feet		/BIA Bond No. on file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3680 feet	22 Approxi 06/05/20	imate date work will star 17	rt*	23. Estimated duration 45 days			
	24. Atta	chments		• ··· ··· ··· ··· ··· ···			
The following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1, must be at	ttached to th	his form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5. Operator certific	ation	ons unless covered by an ex formation and/or plans as m	•		
25. Signature (Electronic Submission)		r (Printed/Typed) 1 Wood / Ph: (505)4	66-8120		ate)6/02/2017		
File President							
Approved by (Signature) (Electronic Submission)		: (Printed/Typed) y Ballard / Ph: (575))234-223		nate 12/20/2017		
Fitle Natural Resource Specialist	Office	LSBAD			<u> </u>		
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ls legal or equi	itable title to those righ	ts in the su	bject lease which would enti	tle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cu States any false, fictitious or fraudulent statements or representations as	rime for any p to any matter v	person knowingly and w within its jurisdiction.	villfully to	make to any department or a	agency of the United		
(Continued on page 2)				*(Instru	ctions on page 2)		

NS CONDIT onvel pproval Date: 12/20/2017

KZ /27/17



Application for Permit to Drill

APD Package Report

APD ID: 10400014769

APD Received Date: 06/02/2017 08:56 AM 240974) Operator: LEGACY RESERVES OPERATING L

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - -- Operator Letter of Designation: 1 file(s)
 - -- Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
 - -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - -- Casing Design Assumptions and Worksheet(s): 4 file(s)
 - -- Hydrogen sulfide drilling operations plan: 1 file(s)
 - -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)

- SUPO Report

- SUPO Attachments
 - -- Existing Road Map: 1 file(s)
 - -- Attach Well map: 1 file(s)
 - -- Production Facilities map: 1 file(s)
 - -- Water source and transportation map: 1 file(s)
 - -- Well Site Layout Diagram: 1 file(s)
 - -- Recontouring attachment: 1 file(s)
- PWD Report
- PWD Attachments

-- None

- Bond Report

- Bond Attachments

-- None

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Date Printed: 12/21/2017 10:12 AM

Well Status: AAPD Well Name: LEA UNIT Well Number: 52H

OCD Hobbal

17-741

U.S. Department of the Interior

Bureau of Land Management

Andrewig

FAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Application Data Report

12/21/2017

APD	ID:	10400014769

Operator Name: LEGACY RESERVES OPERATING LP

Well Name: LEA UNIT

Well Type: OIL WELL

Submission Date: 06/02/2017

Well Number: 52H

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Section 1 - General

APD ID:	10400014769		Tie to previous NOS?		Submission Date: 06/02/2017
BLM Office:	CARLSBAD		User: Brian Wood	Title:	President
Federal/India	an APD: FED		Is the first lease penetrat	ed for productio	n Federal or Indian? FED
Lease numb	er: NMNM128366		Lease Acres: 602.04		
Surface acc	ess agreement in place?	•	Allotted?	Reservation:	
Agreement i	n place? YES		Federal or Indian agreem	ent: FEDERAL	
Agreement r	number: NMNM70976B				
Agreement r	ame: INT BONE SPRING	g PA B			
Keep applica	ation confidential? NO				
Permitting A	gent? YES		APD Operator: LEGACY	RESERVES OPE	RATING LP
Operator let	ter of designation:	Lea_52H	l_letter_desig_06-01-2017.	odf	
					HOBBS OCD

Operator Info

Operator Organization Name: LEGACY RESERVES OPERATING LP

Operator Address: 303 West Wall St., Ste 1800

Operator PO Box:

Operator City: Midland State: TX

Operator Phone: (432)689-5287

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? EXISTING	Mater Development Plan	name: Lea Unit Master Dev Plan
Well in Master SUPO? NO	Master SUPO name:	·
Well in Master Drilling Plan? NO	Master Drilling Plan nam	e:
Well Name: LEA UNIT	Well Number: 52H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: LEA	Pool Name: BONE SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, CO2, OIL

DEC 26 2017

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Zip: 79701

Well Number: 52H

Describe other minerals: Is the proposed well in a Helium production area? N Use Existing Well Pad? YES New surface disturbance? N Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: LEA Number: 51H UNIT Well Class: HORIZONTAL Number of Legs: 1 Well Work Type: Drill Well Type: OIL WELL **Describe Well Type:** Well sub-Type: INFILL **Describe sub-type:** Distance to town: 26 Miles Distance to nearest well: 230 FT Distance to lease line: 330 FT Reservoir well spacing assigned acres Measurement: 160 Acres Lea_52H_plat_20170905142818.pdf Well plat: Well work start Date: 06/05/2017 Duration: 45 DAYS . : Section 3 - Well Location Table ۱., Survey Type: RECTANGULAR Describe Survey Type: Datum: NAD83 Vertical Datum: NAVD88 Survey number: 23263 _ot/Tract lumber cator cator ę

	NS-Foo	NS Indi	EW-Foo	EW Indi	Twsp	Range	Section	Aliquot/	Latitude	Longitue	County	State	Meridia	Lease Typ	Lease N	Elevatio	ЙD	DVT
SHL	630	FSL	610	FEL	20S	34E	1	Aliquot	32.59660		LEA			F	NMNM		0	0
Leg #1								SESE	51	103.5071 421		MEXI CO	CO		128366	0		
KOP Leg #1	630	FSL	610	FEL	20S	34E	1	Aliquot SESE	32.59660 51	- 103.5071 421	LEA	NEW MEXI CO	NEW MEXI CO		NMNM 128366	368 0	0	0
PPP Leg #1	630	FSL	610	FEL	20S	34E	1	Aliquot SESE	32.59660 51	- 103.5071 421	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 128366	- 624 7	992 7	992 7

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Drilling Plan Data Report

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APD ID: 10400014769

Operator Name: LEGACY RESERVES OPERATING LP

Submission Date: 06/02/2017

Well Number: 52H

Highlighted data reflects the most recent changes

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Well Name: LEA UNIT Well Type: OIL WELL

Well Work Type: Drill DEC 26 2017

Section 1 - Geologic Formations

Formation			True Vertical		· · · · · · · · · · · · · · · · · · ·		Producing
ID.	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	• · · · · · · · · · · · · · · · · · · ·
1		3680	0	0	OTHER : Quaternary	USEABLE WATER	No
2	RUSTLER ANHYDRITE	1983	1680	1680	ANHYDRITE	NONE	No
3	TOP SALT	1943	1720	1720	SALT	NONE	No
4	CAPITAN REEF	513	3150	3150		USEABLE WATER	No
5	BOTTOM SALT	513	3150	· 3150	SALT	NONE	No
6	SAN ANDRES	-1030	4710	4710	LIMESTONE	NATURAL GAS,CO2,OIL	No
7	DELAWARE SAND	-1986	5666	5666	SANDSTONE	NATURAL GAS,CO2,OIL	No
8	BONE SPRING LIME	-4542	8205	8205	LIMESTONE	NATURAL GAS,CO2,OIL	No
9	AVALON SAND	-5080	8760	8760	SHALE	NATURAL GAS,CO2,OIL	No
10	BONE SPRING 1ST	-5838	9501	9501	L	NATURAL GAS,CO2,OIL	No
11	BONE SPRING 2ND	-6820	10500	15832		NATURAL GAS,CO2,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11000

Equipment: Legacy Reserves plans to use a 13-5/8" 5000-psi working pressure BOP system consisting of a double ram BOP with one ram being pipe and one ram being blind, a 5000-psi annular type preventer, a 5000-psi choke manifold and 80 gallon accumulator with floor, five remote operating stations and an auxiliary power system. A rotating head will be utilized as needed. A drill string safety valve in the open position will be available on the rig floor. A mud gas separator will be available for use if needed. A 3M BOP will be used to drill from the surface casing shoe (~1800') to the intermediate casing shoe (~5600'). The BOP will be a 5M system, however the "A" section wellhead will be a 3M wellhead (see attached BOP Diagram). The BOP unit will be hydraulically operated. The BOP will be operated at least once per day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. **Requesting Variance?** NO

Variance request:

Page 1 of 6

Operator Name: LEGACY RESERVES OPERATING LP Well Name: LEA UNIT

Well Number: 52H

Testing Procedure: The BOPs will be tested by an independent service company to 250 psi low and 5000 psi high.

Choke Diagram Attachment:

Lea_52H_choke_06-01-2017.pdf_

BOP Diagram Attachment:

Lea_52H_BOP_06-01-2017.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1800	0	1800	-		1800	J-55	54.5	STC	1.42	3.86	DRY	2.59	DRY	2.59
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4000	0	4000			4000	J-55	40	LTC	1.25	1.41	DRY	1.6	DRY	1.6
1	INTERMED IATE	12.2 5	9.625	NEW	API	N	4000	5600	4000	5600			1600	HCK -55	40	LTC	1.45	1.27	DRY	4.23	DRY	4.23
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	15832	0	10500			15832	P- 110		OTHER BTC	2.03	1.28	DRY	1.72	DRY	1.72

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Lea_52H_casing_surf_06-01-2017.pdf

Operator Name: LEGACY RESERVES OPERATING LP Well Name: LEA UNIT

Well Number: 52H

Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE Inspection Document: **Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Lea_52H_casing_interm_06-01-2017.pdf Casing ID: 3 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Lea_52H_casing_sub_06-01-2017.pdf Casing ID: 4 String Type: PRODUCTION **Inspection Document:** Spec Document: **Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Lea_52H_casing_prod_06-01-2017.pdf

Section 4 - Cement

Well Name: LEA UNIT

Well Number: 52H

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	· · · ·						· · · ·				1
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1800	1100	1.93	13.5	2123	•	Class C cement	4% bwoc bentonite II + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.005% bwoc Static Free + 0.005 gps FP-6L
SURFACE	Tail	•			200	1.34	14.8	268		C cement	1.5% bwoc Calcium Chloride + 0.005 Ibs/sack Static Free + 0.005 gps FP-6L
INTERMEDIATE	Lead		0	4000	400	2.13	12.5	852		Paz (fly ash) Class C	4% bwoc bentonite II + 5% bwoc MPA-5 + 0.25% bwoc FL- 52 + 5 Ibs/sack LCM-1 +0.125 Ibs/sk cello flake + 0.005 Ibs/sk defoamer + 0.005 gpsFP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride
INTERMEDIATE	Tail				200	1.33	14.8	266		Class C cement	none
INTERMEDIATE	Lead		4000	5600	1100	2.13	12.5	2343		Poz (fly ash) Class C cement	4% bwoc bentonite II + 5% bwoc MPA-5 + 0.25% bwoc FL- 52 + 5 Ibs/sack LCM-1 +0.125 Ibs/sk cello flake+ 0.005 Ibs/sk defoamer + 0.005 gpsFP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride
INTERMEDIATE	Tail				200	1.33	14.8	266		Class C cement	none
PRODUCTION	Lead		0	1583 2	1600	2.38	11.9	3808		Poz (fly ash) Class H cement	10% bwoc bentonite II + 5% bwow sodium chloride + 5 pps LCM-1 + 0.005 lbs/sk Static Free + 0.005 gps FP-6L
PRODUCTION	Tail				1200	1.62	13.2	1944		Class H	CSE-2 + 4% bwow sodium chloride + 3 pps LCM- 1 + 0.6% bwoc FL-25 + 0.005 gps FP- 6L + 0.005% bwoc Static Free

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Well Name: LEA UNIT

Well Number: 52H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. Mud logging program: 2 man unit from approximately after setting intermediate casing. No open hole logs, DSTs, or cores are planned.

Describe the mud monitoring system utilized: A Pason PVT system will be rigged up prior to spudding this well. A volume monitoring system that measures, calculates, and displays readings from the mud system on the rig to alert the rig crew of impending gas kicks and lost circulation. In order to effectively run casing, the mud viscosity and fluid loss properties may be adjusted.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5600	1050 0	OTHER : Fresh water/brine	8.4	8.6							
1800	5600	OTHER : Brine water	9.8	10							
0	1800	SPUD MUD	8.4	8.9							
1050 0	1583 2	OTHER : Fresh water/brine	8.9	9.1							

Well Name: LEA UNIT

Well Number: 52H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: Mud logging, H2S plan, BOP and choke plans all in place for testing, equipment, safety

List of open and cased hole logs run in the well: MUDLOG

Coring operation description for the well:

No coring planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4620

Anticipated Surface Pressure: 2310

Anticipated Bottom Hole Temperature(F): 162

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

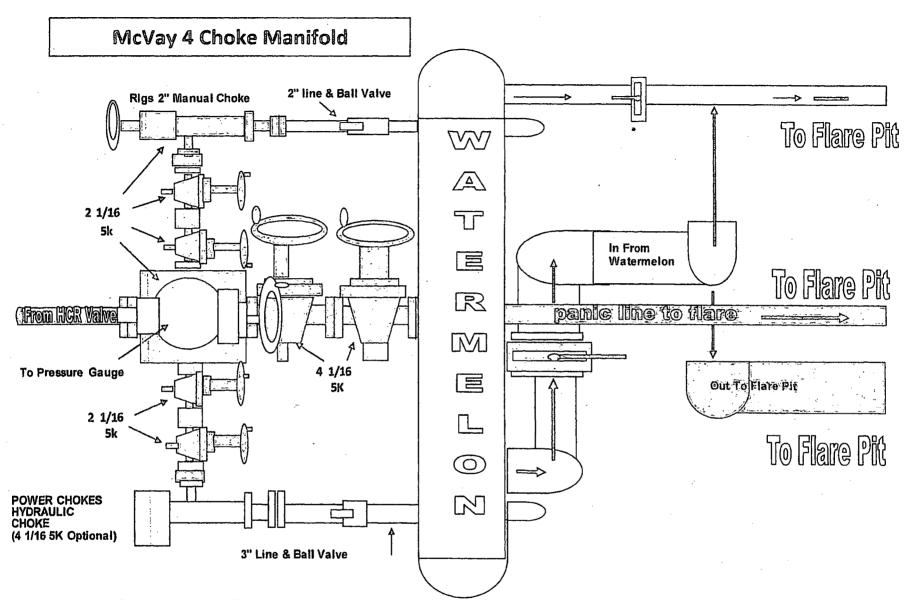
Hydrogen Sulfide drilling operations plan required? YES Hydrogen sulfide drilling operations plan:

Lea_52H_H2S_plan_06-01-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

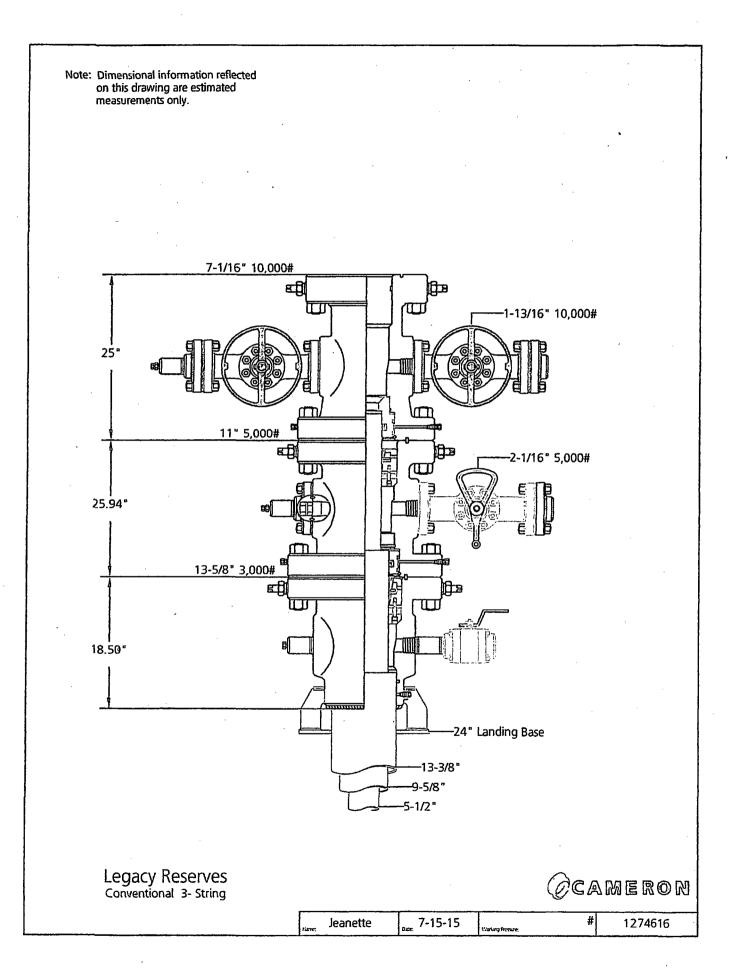
Lea_52H_horiz_drill_plan_06-01-2017.pdf Other proposed operations facets description: Other proposed operations facets attachment: Other Variance attachment:



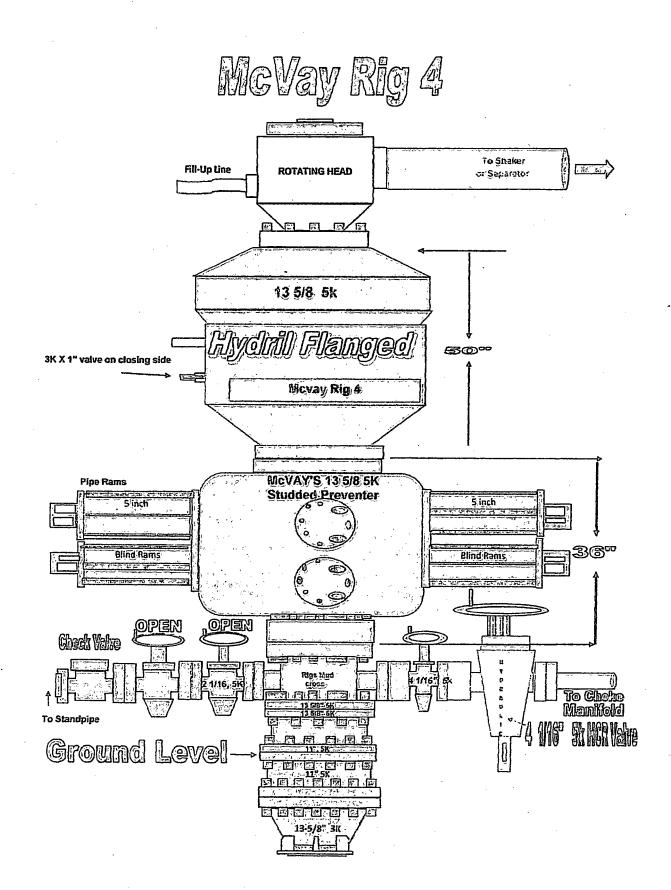
*We use the same choke manifolds for all aspects of our operations & all are rated to 10K;

* All connections downstream from BOP thru chokes Are Flanged, All connections downstream from chokes are Flanged .

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Surface Casing

	Burst								
Size	Grade	#/ft	Collapse	(Internal Yield)	Tensile	Coupling	Length	Weight	Weight
								98,100	
13.375"	J-55	54.5	1130 psi	2730 psi	514 kips	STC	1800'	lbs	8.5 ppg

Collapse: $DF_c = 1.25$

Base Assumptions

- Complete internal evacuation of the casing, utilizing a collapse force equivalent to the mud gradient (0.44 psi/ft) in which the casing will be ran.
- Cementing operations in which, utilizes a collapse force equivalent to the gradient of the planned cement slurry (0.77 psi/ft) and an internal force equivalent to the fresh water displacement fluid (0.433 psi/ft).

Collapse Calculations: Collapse Rating / Collapse Force

Complete Evacuation: 1,130psi / [(0.44psi/ft)(1,800')] = **1.42**

Cementing Operations: 1,130psi / [(0.77psi/ft - 0.433psi/ft)(1800')] = **1.86**

Burst: $DF_B = 1.25$

Base Assumption

• Casing pressure test as per Onshore Oil and Gas Order No. 2 (0.22 psi/ft or 1500 psi), utilizing an external force equivalent to the mud gradient (0.44 psi/ft) in which the casing will be ran.

Burst Calculations: Internal Yield Rating / Internal Force

Casing Pressure Test: 2,730psi / [(1500psi)-(0.44 psi/ft)(1,800')] = **3.86**

Tensile: $DF_T = 1.6$

Base Assumption

• A downward force of 100,000 lb. overpull is applied at the base of the casing along with the weight and not considering the effects of buoyancy.

Tensile Calculations: Joint Strength / Axial Load

Overpull: 514 kips / (100,000 lbs. + 98,100 lbs.) = **2.59**

Intermediate Casing

Burst								Dry	
Size	Grade	#/ft	Collapse	(Internal Yield)	Tensile	Coupling	Length	Weight	Mud Weight
9.625"	J-55	40	2570 psi	3950 psi	520 kips	LTC	4000'	160,000 lb	10.0 ppg
9.625"	НСК-55	40	4230 psi	3950 psi	694 kips	LTC	1600'	64,000 lb	10.0 ppg

Collapse: $DF_c = 1.25$

Base Assumptions

- Complete internal evacuation of the casing, utilizing a collapse force equivalent to the mud gradient (0.52 psi/ft) in which the casing will be ran.
- Cementing operations in which, utilizes a collapse force equivalent to the gradient of the planned cement slurry (0.77 psi/ft) and an internal back-up force equivalent to the fresh water displacement fluid (0.433 psi/ft).

Collapse Calculations: Collapse Rating / Collapse Force

Complete Evacuation:

J-55: 2570psi / [(0.52psi/ft)(4,000')] = **1.25** HCK-55: 4230psi / [(0.52psi/ft)(5,600')] = **1.45**

Cementing Operations:

J-55: 2570psi / [(0.77psi/ft - 0.433psi/ft)(4000')] = **1.91** HCK-55: 4230psi / [(0.77psi/ft - 0.433psi/ft)(5600')] = **2.24**

Burst: $DF_B = 1.25$

Base Assumption

- Casing pressure test as per Onshore Oil and Gas Order No. 2 (0.22 psi/ft or 1500 psi), utilizing an internal force equivalent to the displacement fluid of 8.6 ppg and external force equivalent to 8.4 ppg.
- Gas kick at the casing shoe, in which a 0.7 psi/ft shoe test is assumed, and 0.2 psi/ft gas gradient is assumed.

Burst Calculations: Internal Yield Rating / Burst Force

Casing Pressure Test: J-55: 3950psi / [(1500psi +1789 psi) - (1747psi)] = **2.56** HCK-55: 3950psi / [(1500psi +2504 psi) - (2446psi)] = **2.54**

Gas Kick:

J-55: 3950psi / [(0.7psi/ft)(5600')-(0.2psi/ft)(5600')] = **1.41** HCK-55: 3950psi / [(0.7psi/ft)(5600')-(0.2psi/ft)(4000')] = **1.27**

Tensile: $DF_T = 1.6$

Base Assumption

• A downward force of 100,000 lb. overpull is applied at the base of the casing along with the weight of the string and not considering the effects of buoyancy.

9

Tensile Calculations: Joint Strength / Axial Load

Overpull: J-55: 520 kips / (100,000 lbs. + 224,00 lbs.) = **1.6** HCK-55: 694 kips / (100,000 lbs. + 64,100 lbs.) = **4.23** Operator Name: LEGACY RESERVES OPERATING LP Well Name: LEA UNIT

Well Number: 52H

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Lea_52H_prod_diagram_06-01-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING, Water source type: GW WELL STIMULATION, SURFACE CASING Describe type:

Source latitude:

Source datum:

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 16000

Source volume (acre-feet): 2.0622895

Source longitude:

Source volume (gal): 672000

Water source and transportation map:

Lea 52H water source_06-01-2017.pdf

Water source comments: Water will be obtained from commercial water stations in the area and hauled to the location by transport truck using the existing roads. No water well will be drilled on the location. **New water well?** NO

New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aquife	r:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	

Well Name: LEA UNIT

Well Number: 52H

Well casing outside diameter (in.):	Well casing inside diameter (in.):
New water well casing?	Used casing source:
Drilling method:	Drill material:
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Water well additional information:	
State appropriation permit:	
Additional information attachment:	

Section 6 - Construction Materials

Construction Materials description: CONSTRUCTION MATERIALS: CALICHE WILL BE USED TO CONSTRUCT THISWELL PAD Any construction material that may be required for surfacing of the drill pad will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from Federal lands without prior approval from the appropriate surface management agency. See attached for source information. **Construction Materials source location attachment:**

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling fluids (flowback, water, cuttings)

Amount of waste: 20000 barrels

Waste disposal frequency : Daily

Safe containment description: Drilling fluids will be contained in steel mud tanks.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY

Disposal type description:

Disposal location description: NMOCD approved disposal site in Halfway, NM.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Well Name: LEA UNIT

Well Number: 52H

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site in Halfway, NM. Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. vd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner.

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Lea 52H well_site_layout_06-01-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance

Multiple Well Pad Name: LEA UNIT

Multiple Well Pad Number: 51H

Recontouring attachment:

Lea 52H recontouring_plat_06-01-2017.pdf

Drainage/Erosion control construction: Access road and well pad already exist - no construction needed. Any maintenance or improvement necessary will be according to BLM standards. Figures below are identical for short term and long term disturbance because reclamation is already complete for this pad (Lea Unit 51H).

Drainage/Erosion control reclamation: • The original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors. • A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site, with a density sufficient to control erosion and invasion by nonnative plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will

Page 4 of 9

Well Name: LEA UNIT

Well Number: 52H

consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation. • Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed. • The site will be free of state- or county-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds are controlled.

Wellpad long term disturbance (acres): 3.9	Wellpad short term disturbance (acres): 3.9						
Access road long term disturbance (acres): 2	Access road short term disturbance (acres): 2						
Pipeline long term disturbance (acres): 8.441231	Pipeline short term disturbance (acres): 8.441231						
Other long term disturbance (acres): 0	Other short term disturbance (acres): 0						
Total long term disturbance: 14.34123	Total short term disturbance: 14.34123						

Reconstruction method: Final reclamation to achieve restoration of the original landform and a natural vegetative community. The original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors. **Topsoil redistribution:** Evenly

Soil treatment: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed. The site will be free of state- or county-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds are controlled.

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? Seed harvest description:

Operator Name: LEGACY RESERVES OPERATING LP Well Name: LEA UNIT

Well Number: 52H

Seed harvest description attachment:

R.

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Seed BMP: Seed method: Existing invasive species? NO Existing invasive species treatment description: Existing invasive species treatment attachment: Weed treatment plan description: Noxious weeds will be controlled Weed treatment plan attachment: Monitoring plan description: On pumper visits			
Seed type: Seed source: Seed name: Source address: Source phone: Source address: Source phone: Source address: Seed cultivar: Seed cultivar: Seed use location: Proposed seeding season: PLS pounds per acre: Proposed seeding season: Seed Type Pounds/Acre: Seed reclamation attachment: Total pounds/Acre: Operator Contact/Responsible Official Contact Info First Name: Last Name: Phone: Email: Seed BMP: Seed method: Existing invasive species ? NO Existing invasive species treatment description: Existing invasive species treatment description: Existing invasive species treatment attachment: Weed treatment plan description: Noxious weeds will be controlled Weed treatment plan attachment: Wonitoring plan attachment: Wonitoring plan attachment: Success standards: To BLM standards	Seed Management	:	
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Monitoring plan attachment: Success standards: To BLM standards	Weed treatment plan attachm	ient:	
Success standards: To BLM standards	Monitoring plan description:	On pumper visits	
	Monitoring plan attachment:		
Pit closure description: N/A (closed loop)	Success standards: To BLM s	standards	
	Pit closure description: N/A (closed loop)	

Well Number: 52H

Section 11 - Surface Ownership Disturbance type: EXISTING ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: USFWS Local Office: Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD Describe: Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office:

Well Name: LEA UNIT

Well Number: 52H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT, PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Use APD as ROW?

Section 12 - Other Information

Right of Way needed? NO ROW Type(s):

ROW Applications

SUPO Additional Information:

Page 8 of 9

Well Name: LEA UNIT

Well Number: 52H

Use a previously conducted onsite? YES

Previous Onsite information: ON-SITE PERFORMED ON 6/6/15 RESULTED IN PROPOSED LOCATION BEING OK WHERE STAKED. IT WAS AGREED TO TURN THE LOCATION TO A V-DOOR EAST. IT WAS ALSO AGREED TO MOVE AND PLACE THE TOP SOIL TO THE NORTH, AND THE INTERIM RECLAMATION WILL BE THE NORTH, EAST, SOUTH, AND WEST PORTION OF THIS PAD. PRESENT AT ON-SITE: CRAIG SPARKMAN-LEGACY RESERVES OPERATING, L.P. TRISH BADBEAR-BLM CASSANDRA BROOKS-BLM CHRISTOPHER FREEMAN-CEHMM DOUG BURGER-LEGACY LAND & ENVIRONMENTAL SOLUTIONS KELLY POINDEXTER-WEST COMPANY OF MIDLAND-SURVEYORS

Other SUPO Attachment

FAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Section 1 - General

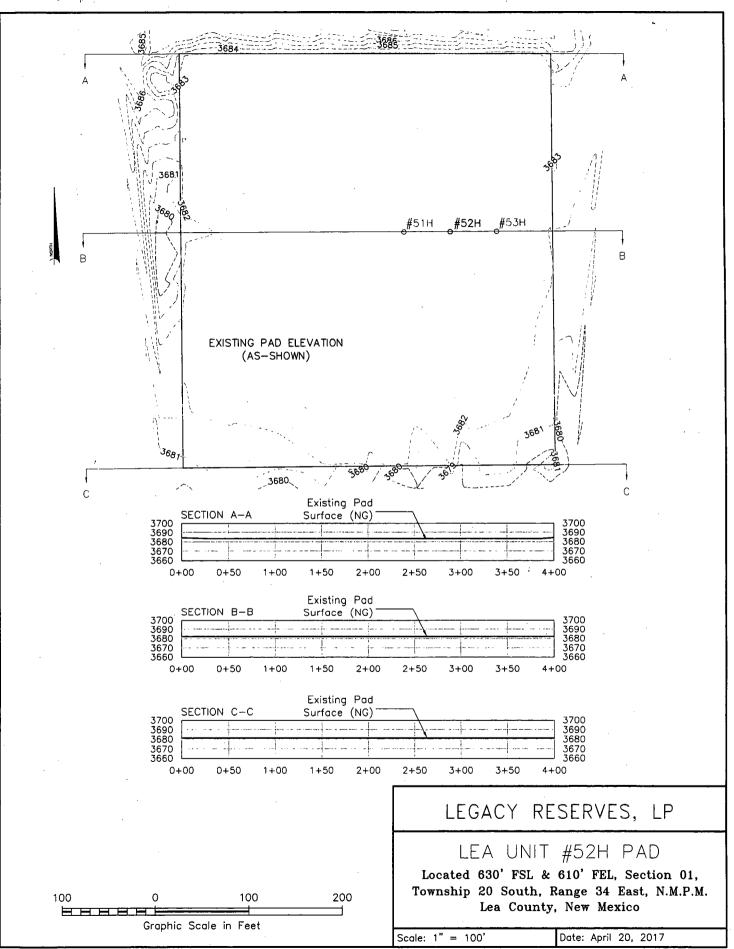
Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):

PWD Data



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Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

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Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: Injection well number: Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment: Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment: Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001015

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Bond Info Data Report

12/21/2017

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Name: LEGACY RESERVES OPERATING LP Well Name: LEA UNIT

Well Number: 52H

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	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian .	Lease Type	Lease Number	Elevation	MD	TVD
PPP	0	FNL	590	FEL	20S	34E	12	Aliquot	32.59494	-	LEA	NEW	NEW	F	NMNM	-	114	105
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FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Brian Wood

Title: President

Street Address: 37 Verano Loop

City: Santa Fe

Phone: (505)466-8120

Email address: afmss@permitswest.com

State: NM

State: TX

Field Representative

Representative Name: Matt Dickson

Street Address: P.O. Box 10848

City: Midland

Phone: (432)689-5204

Email address: mdickson@legacylp.com

Signed on: 06/02/2017

rator Certification Data Repor

Zip: 87508

Zip: 79702

AFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

SUPO Data F

Highlighted data reflects the most

recent changes

Show Final Text

APD ID: 10400014769

Operator Name: LEGACY RESERVES OPERATING LP

Well Name: LEA UNIT

Well Type: OIL WELL

Submission Date: 06/02/2017

Well Number: 52H

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Lea_52H_road_map_06-01-2017.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Lea_52H_well_map_06-01-2017.pdf

Row(s) Exist? YES

Page 1 of 9