Form \$160-3 (March 2012)

HOBBS OCD

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

DEPARTMENT, OF THE INTERIOR
BUREAU OF LAND MAZINGEMENT SECRETARY'S POTAS HYM-84652, NM-129733 NTM 040404

APPLICATION FOR PERMIT T	6. If Indian, Allotee or Tribe Name									
la. Type of work: DRILL REEN	JTER		·	7 If Unit or CA Agreement, Name and No.						
ib. Type of Well: Oil Well Gas Well Other	✓ Sir	igle Zone Multij	ple Zone	8. Lease Name and Wel						
2. Name of Operator LEGACY RESERVES OPERATING,	L.P. (240	0974)		9. API Well No. /	3214					
3a. Address P. O. BOX 10848	3b. Phone No.	(include area code)	*************************************	10. Field and Pool, or Exp	loratory					
MIDLAND, TX. 79702	432-689-52	200 (Steve Owen)		TEAS; BONE SPRING	9, EAST (966)					
4. Location of Well (Report location clearly and in accordance with	any State requirem	ents.*)		11. Sec., T. R. M. or Blk.	and Survey or Area					
At surface 579 FSL & 1956 FEL Section 6 (First Take		20 FEL, Section 7)	SHL: SECTION 6, T. : BHL: SECTION 7, T. :						
At proposed prod. zone 330 FSL & 1520 FEL Section 7 (Last take)	·		12. County or Parish	13. State					
 Distance in miles and direction from nearest town or post office* MILES SOUTHWEST OF HOBBS, NM 				LEA	NM					
15 Distance from proposed* Chi . 570	16. No. of a	cres in lease	17. Spacin	ng Unit dedicated to this well						
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	1671.51		160	-	-					
18. Distance from proposed location* . 360' #3H	19. Proposed	Depth	20. BLM/	BIA Bond No. on file						
to nearest well, drilling, completed, applied for, on this lease, ft.	TVD: 10,10 MD: 15,08		NMB00	1014 & NMB001015						
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3610' GL	22 Approxim	nate date work will sta	rt*	23. Estimated duration 45 DAYS						
	· 24. Attac	hments								
The following, completed in accordance with the requirements of Ons	hore Oil and Gas	Order No.1, must be a	ttached to th	is form:						
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office). 	em Lands, the	Item 20 above). 5. Operator certifications of the second control	cation	ns unless covered by an exi formation and/or plans as ma	,					
25. Signature My W. Hy	1	(Printed/Typed) RY W. HUNT		Da	9/29/15					
Title PERMIT AGENT FOR LEGACY RESERVES OPERA	ATING I P				•					
Approved by (Signature)		(Printed/Typed)		Da	ate					
Title FIELD MANAGER	Office		CARLSB	AD FIELD OFFICE	D FIELD OFFICE					
Application approval does not warrant or certify that the applicant he conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or equit	able title to those righ		oject lease which would entit OVAL FOR TWO						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations	crime for any pe	rson knowingly and v								
(Continued on page 2)	ac to may maned w)		*(Instruc	etions on page 2)					

Capitan Controlled Water Basin

KM06/16

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPLICATION TO DRILL

HAMON FED COM A 6H

LEGACY RESERVES OPERATING LP

SHL: Unit O, Section 6 BHL: Unit O, Section 7

T20S-R34E, Lea County, New Mexico

To satisfy requirements of Onshore Oil and Gas Order No. 1, Legacy Reserves Operating LP submits the following for your consideration:

1. Location:

SHL:

579' FSL & 1956' FEL, Sec. 6, T20S-R34E (First Take: 330 FNL & 1520 FEL Sec. 7)

BHL:

330' FSL & 1520' FEL, Sec. 7, T20S-R34E (Last Take)

2. Elevations:

3,610' GL

3. Geological Name of Surface Formation:

Quaternary alluvium deposits

4. Drilling Tools and Associated Equipment:

Rotary drilling rig using fluid as a means for

removal of solid cuttings from the well.

5. Proposed Drilling Depth:

15,082' MD

10,100' TVD

6. Estimated Tops of Geological Markers:

Rustler	1,499'	Queen	4,750'
Top Salt	1,860'	Delaware/Base of Capitan Reef	5,400′
Bottom Salt	3,500'	1 st. Bone Spring	8,368'
Yates	3,350'	2 nd . Bone Spring	8,901'
Top of Capitan Reef	3,793'	TVD	10,100'
Seven Rivers	3 875′		

7. Possible mineral bearing formations:

Primary: Bone Spring (oil); Secondary: Delaware (oil), Queen (oil), Seven Rivers (oil), Yates (oil or gas); fresh water (~125')

8. Proposed Mud System:

<u>Depth</u>	Mud Wt.	Visc	Fluid Loss	Type Mud
0' to 1600'	8.4-8.6	30-32	May lose circ.	Fresh water gel spud mud
1600' to 5400'	10.0-10.1	28-29	May lose circ.	Brine water
5400' to 10100'	8.7-8.8	28-29	No control	Fresh water/brine, use hi-viscosity sweeps to clean hole
10100' to 15,082'	8.7-8.8	28-29	10-12	Fresh water/brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. Visual mud monitoring equipment will be in place to detect pit volume changes indicating loss or gain of

circulating mud fluids. In order to effectively run open hole logs and casing, the mud viscosity and fluid loss properties may be adjusted.

9. Proposed Drilling Plan:

Set surface and intermediate casing and cement to surface. Drill 8-3/4" hole to 10,100', kick off and drill 8-3/4" hole to TD of ~15,082'. Set 5-1/2" casing from surface to TD (~ 15,082'). Cement 5-1/2" production casing back to surface.

10. Casing Information:

String	Hole size	Depth	Casing OD	Collar	Weight	Grade
Surface	17-1/2"	1600' MD	New 13-3/8"	STC	54.5#	J-55
Intermediate	12-1/4"	4000' MD	New 9-5/8"	LTC	40#	J-55
Intermediate	12-1/4"	5400' MD	New 9-5/8"	LTC	40#	HCK-55
Production	8-3/4"	15,082' MD	New 5-1/2"	BTC	20#	P-110
		•				
<u>5-1/2", P-110:</u>			9-5/8", HCK-55			
Collapse Facto	r: 1.55		Collapse Factor:	1.28		
Burst Factor:	1.29		Burst Factor:	2.03		
Tension Factor	: 3.06		Tension Factor:	3.33		
<u>9-5/8, J-55</u>			13-3/8, J-55			
Collapse Facto	r: 1.24		Collapse Factor:	3.08		
Burst Factor:	1.82		Burst Factor:	3.54		-
Tension Factor	: 3.12		Tension Factor:	5.66		

. Cementing Information:

Replaced, Per Operator Surface Casing (100% excess on lead & 100% excess on tail to design for cement top at surface):

1100 sxs class C cement + 4% bentonite + 0.25 pps celloflakes + 0.005 gps FP-6L + 2% calcium chloride (13.50 ppg, 1.75 cfps, 9.16 gps wtr).

400 sxs class C sement + 0.005 gps FP-6L + 0.5% caleium chloride (14.80 ppg, 1.33 cfps, 6.33 gps wtr). Tail:

Intermediate Casing (50% excess on lead & 50% excess on tail to design for cement top at surface):

900 sxs (50:50) poz (fly ash) class C cement + 10% bentonite + 5% sodium chloride + 0.25 pps cello flakes + 0.1% FL-52A + 0.005 gps FP-6L (11.90 ppg, 2.37 cf/sx, 13.52 gps wtr).

325 sxs class C cement + 0.2% R-3 + 0.005 gps FP-6L (14.80 ppg, 1.33 cfps, 6.31 gps wtr). Tail:

Production Casing (25% excess on lead & 25% excess on tail to design for cement top at surface):

1000 sxs (50:50) poz (fly ash) class H cement + 6% bentonite + 5% sodium chloride + 5 pps LCM-1 + 0.7% sødium metasilicate + 0.5% R-21 + 0.45% FL-52A + 0.005 gps FP-6L (11.90 ppg, 2.31 cf/sx, 12.60 gps wtr).

1300 sxs (15:61:11) poz (fly ash) class C cement CSE-2 + 4% sodium chloride + 3 pps LCM-1 + 0.6% FL-25 + 0.6 FL-52A + 0.2% sodium metasilicate + 0.15% R-21 + 0.005 gps FP-6L (13.20 ppg, 1.63 cf/sx, 7.98 gps wtr).

11. Cementing Information:

Suface Casing (100% excess on lead & 100% excess on tail to design for cement top at surface)

<u>Lead:</u> 1200 sx class C cement + 4% bwoc bentonite II + 2% bwoc calcium chloride + 0.25 lbs/sack cello flake + 0.005 gps FP-6L (13.50 ppg, 1.75 cfps, 9.13 gps wtr)

<u>Tail:</u> 200 sx class C cement + 1.5% bwoc calcium chloride + 0.005 lbs/sack defoamer + 0.005 gps FP-6L (14.80 ppg, 1.33 cfps, 6.35 gps wtr)

Intermediate Casing

In the event that circulation is lost (> 50%) while drilling the 12-1/4" intermediate hole in the Capitan Reef at +/-4000', we will plan to install a DV tool and external casing packer within 200' of the top depth where lost circulation occurred and will pump a two-stage cement job. If there is no lost circulation a single stage cementing procedure will be followed. Legacy plans to cement to surface regardless of whether a single stage or 2-stage procedure.

No DV tool (80% excess on lead & 80% excess on tail to design for cement top at surface)

<u>Lead:</u> 1400 sx (35:65) poz (fly ash) class C cement+ 4% bwoc bentonite II + 5% bwoc MPA-5 + 0.25% bwoc FL- 52 + 5 lbs/sack LCM-1 + 0.125 lbs/sk cello flake+ 0.005 lbs/sk defoamer + 0.005 gps FP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride (12.5 ppg, 2.13 cfps, 8.81 gps wtr)

Tail: 200 sx class C cement (14.80 ppg, 1.33 cfps, 6.35 gps wtr)

With DV Tool (100% excess on lead & 100% excess on tail to design for cement top at surface)

Stage 1

Lead: 400 sx (35:65) paz (fly ash) class C cement+ 4% bwoc Bentonite II+ 5% bwoc MPA-5 + 0,25% bwoc FL-52 + 5 lbs/sack LCM-1 + 0.125 lbs/sk cello flake+ 0.005 lbs/sk defoamer + 0.005 gps FP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride (12.5 ppg, 2.13 cfps, 8.81 gps wtr)

Tail: 200 sx class C cement (14.80 ppg, 1.33 cfps, 6.35 gps wtr)

Stage 2

<u>Lead</u>: 1100 sx (35:65) paz {fly ash) class C cement+ 4% bwoc bentonite II + 5% bwoc MPA-5 + 0,25% bwoc FL-52 + 5 lbs/sack LCM-1 + 0.125 lbs/sk Cello Flake+ 0.005 lbs/sk Static Free+ 0.005 gps FP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride (12.5 ppg, 2.13 cfps, 8.81 gps wtr)

<u>Tail:</u> 200 sx class C cement (14.80 ppg, 1.33 cfps, 6.35 gps wtr)

Production Casing (80% excess on lead & 20% excess on tail to design for cement top at surface)

<u>Lead:</u> 1800 sx (50:50) paz (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 (11.90 ppg, 2.38 cfps, 13.22 gps wtr)

<u>Tail:</u> 1200 sx Class H (15:61:11) poz (fly ash) class H cement: CSE-2 + 4% bwow sodium chloride+ 3 pps LCM-1 + 0.6% bwoc FL-25 + 0.005 gps FP-6L + 0.005% bwoc defoamer (13.20 ppg, 1.62 cfps, 9.45 gps wtr)

In the event that circulation is lost while drilling the 12-1/4" intermediate hole in the Capitan Reef at +/- 4000', we will plan to install a DV tool and external easing packer within 200' of the top depth where lost circulation occurred and will pump a two-stage cement job using the same lead and tail cement slurries as specified in the single stage cement job. The cement volumes for the two-stage job will be calculated using 100% excess above normal hole volume.

There will be lead and tail sturries for each of the two stages of the 2-stage cementing jobs on the 9 5/8" intermediate casing. Legacy only plans to pump a 2-stage cementing procedure on the 9 5/8" intermediate casing if we lose circulation in the Capitan Reef. If there is no lost circulation a single stage cementing procedure will be followed. Legacy plans to cement to surface regardless of whether a single stage or 2-stage procedure.

12. Pressure Control Egpt/BOP: See COA

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 (~1600') to the intermediate casing shoe (~5400'). 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.

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

13. Testing, Logging, and Coring Program: See COA

- A. Mud logging program: 2 man unit from approximately after setting the intermediate casing.
- B. No open hole logs, DST's or cores are planned.

14. Potential Hazards See COA

No abnormal pressures or temperatures are expected during the drilling of this well. If H2S is encountered the operator will comply with provisions of Onshore Order 6. Since there will be an H2S Safety package on location, attached is an "H2S Drilling Operations Plan". Adequate flare lines will be installed on the mud/gas separator so gas may be flared safely. All personnel will be familiar with all aspects of safe operations of equipment being used. Lost circulation may occur and a cement contingency plan is included in this plan along with mud materials to be kept on location at all times in order to combat lost circulation or unexpected kicks. Estimated BHP: 4444 psi, estimated BHT: 170°F.

15. Road and Location

Road and location construction will begin after BLM approval of the APD. Drilling is expected to take 30-35 days and an additional 10 days for the completion.

16. Additional Requirements of Project:

Completion:

The targeted Bone Spring pay zone will be perforated and stimulated in multiple stages using acid and hydraulic fracturing treatments. Fresh water used in the drilling and completion of this well will be transferred from off-site via temporary flowlines and stored in frac tanks on the location.



MD 0.00 5500.00 5875.00 9611.72 10462.58

7.50 90.00

Azi 0.00 0.00 130.80 130.80 179.79

TVD 0.00 5500.00 5873.93 9578.68 10100.00

+N/-S 0.00 0.00 -16.01 -334.71 -905.37 -5524.30

+E/-W 0.00 0.00 18.55 387.77 441.68 458.90

0.00 0.00 2.00 10.00 0.00

TFace 0.00 0.00 130.80 0.00 49.23 0.00

VSect 0.00 0.00 17.50 365.67 938.83 5543.33

BHL (HFCA #6H/L1)

Target

-1500 -1200 -900 600

300

300

West(-)/East(+) (300 usft/in)

West(-)/East(+) (50 usft/in)

Section Details

Legacy Reserves
Project: Lea County, NM (NAD-27 2015)
Site: Hamon Fed Com A #6H
Well: Hamon Fed Com A #6H
Wellbore: Lateral #1
Plan: Design #1 (Hamon Fed Com A #6H/Lateral #1)

WELL DETAILS: Hamon Fed Com A #6H

Ground Elevation:: 3610.00 RKB Elevation: KB @ 3628.00usft (McVay 4) Rig Name: McVay 4 Easting 726818.70

Latittude Longitude 32° 36′ 46.915 N 103° 36′ 48.658 W

Northing 581454.70

10 To 10 To

Model: IGRF2015

True Vertical Depth (200 usft/in)

..- 1

Azimuths to Grid North True North: -0.40° Magnetic North: 6.80°

Magnetic Field Strength: 48353.6snT Dip Angle: 60.43° Date: 7/18/2015

South(-)/North(+) (50 usft/in) NUDGE - Start Build 2.00 50 100 150 200 250 300 350 8 450 500 550

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5400 L -0000 -6700 -1200 EHL: (HFCA #6HL1)



10400-

EOC (HECA #8HI) 1 Design #1) EOC - Start 4818.96 hold at 10462.58 MD

28

10000

DLS 10.00 TFO 49.23

EOC (HFCA #6H/L1 Design #1)

Plan: Design #1 (Hamon Fed Com A #6H/Lateral #1) ated By: Well Planner Date: 22:41, September 27 2015

Terra Directional Services 3705 South County Road 1210, Midland, TX 79706 Office: (432) 618-1210

Vertical Section at 175.25° (200 usft/in)

3600

4000

4800

5200

BHL (HFCA #6H/L1)

2400

PROJECT DETAILS: Lea County, NM (NAD-27 2015)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1865
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid