

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-025-38202
5. Indicate Type of Lease
STATE [] FEE [X]
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name
Cooper Jal Unit
8. Well Number #509
9. OGRID Number
240974
10. Pool name or Wildcat
Jalmat; Tan-Y-7Rv-LM; 7Rvrs-Q-G

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [X] Gas Well [] Other []
2. Name of Operator
Legacy Reserves Operating LP
3. Address of Operator
P.O. Box 10848, Midland, TX 79702
4. Well Location
Unit Letter J : 1370 feet from the S line and 1368 feet from the E line
Section 18 Township 24S Range 37E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3299' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [] PLUG AND ABANDON [X]
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: []
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []
OTHER: []

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

Drill out existing CIBP & cement Spot 50 sx Class C 3700

- 1. Tag existing 5 1/2" CIBP @ 3340' w/ 35' cmt cap on top. Circulate hole w/ MLF. Pressure test csg.
2. Spot 25 sx cmt @ 3030-2830'. WOC & Tag (Yates)
3. Spot 25 sx cmt @ 1300-1100'. WOC & Tag
4. Perf & Sqz 100 sx cmt @ 465' to surface.
5. Cut off well head, verify cmt to surface, weld on Dry Hole Marker.

4" diameter 4' tall Above Ground Marker

SEE ATTACHED CONDITIONS OF APPROVAL

Spud Date: []

Rig Release Date: []

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

SIGNATURE [Signature] TITLE Compliance Coordinator DATE (432) 221-6358

Type or print name Melanie Reyes E-mail address: mreyes@legacyreserves.com PHONE: (432) 221-6358

APPROVED BY: [Signature] TITLE Compliance Officer A DATE 5/7/21

Conditions of Approval (if any)

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME	Cooper Jal Unit		WELL NO.	509	
STATUS:		Active	Oil		API#	30-025-38202	
LOCATION:		1370 FSL & 1358 FEL, Sec 18, Unit J T - 24-S R - 37-E, Lee County, New Mexico					
SPUD DATE:		12/12/06	TD	3755	KB	3311'	DF 3310'
INT. COMP. DATE:		IPSTD	3708	GL	3297'	KB	12'
		GEOLOGICAL DATA				CORES, CUTS, & MUDLOGS:	
ELECTRIC LOGS:		Spectral PE-Density, CNL - from 3731' - 100' (1-10-07 Weatherford) Dual Laterolog - from 3745' - 410' (1-10-07 Weatherford) Cement Top Log from 3634' - 100' (12-21-06 Gray Wireline)					
		HYDROCARBON BEARING ZONE DEPTH LOGS:					
Tansill @ 2805'		Yates @ 2978'	Upper 7 Rvs @ 3228'	Lower 7 Rvs @ 3380'	Queen @ 3560'		
		CASING PROFILE					
SURF.		8 5/8" - 24# Grade 55, LT&C set@ 412', Cml'd w/ 250 sxs Class C w/ 2% CaCl - circ'd w/ 94 sx cmt to surf.					
PROD.		5 1/2" - 15.5# Grade 55, LT&C set@ 3728', Cml'd w/ 350 sxs Class H w/ 5% Salt + 300 sxs Class H w/					
LINER.		None 5% Salt - TOC @ 800 by CBL					
		CURRENT PERFORATION DATA					
CSD PERFS:		OPEN HOLE:					
23-Feb-07		Perf'd L. M. (Q) // 3682'-90', 3666'-70', 3649'-62', 3638'-40', 3526'-30', 3512'-18', 2601'-08', 3575'-86', & 3560'-64'					
23-Feb-07		Perf'd L. M. (L. 7-R) // 3544'-48', 3514'-17', 3501'-05', 3476'-81', 3464'-69', 3453'-61', 3426'-35', and 3409'-22', 3 spf, 120 degrees, 107', 321 - 0.45 holes.					
TUBING DETAIL		3/12/10		ROD DETAIL		6/2/12	
Length (ft)	Detail	Length (ft)	Detail	Length (ft)	Detail	Length (ft)	Detail
0	KB	22	1	26' x 1 1/4" polish rod w/ 7/8" Pin Spray Metal			
4	1 2 7/8" 6.5#, J-55, Super Max SUB	0	1	1 1/4" x 1 1/2" x 14' Liner			
3264	107 2 7/8" 6.5#, J-55, Super Max tbg.	8	2	2', 6' - 7/8" pony rods			
3	1 2 7/8" x 5 1/2" TAC	1325	53	7/8" KD Rods rods			
344	11 2 7/8" 6.5#, J-55, Super Max tbg.	1650	66	3/4" KD Rods rods			
32	1 2 7/8" 6.5#, J-55, S. M. Blast Joint	600	24	1 1/2" K-Bars			
1	1 2 7/8" SN	1	1	on/off Tool			
4	1 2 7/8" Perf Sub	20	1	2 1/2" x 1 1/2" X 20' pump w/ HVR			
31	1 2 7/8" OEMA	0	1	1 1/4" x 6' GA			
3680	btm	3626					
WELL HISTORY SUMMARY							
23-Feb-07		Tagged PBTD @ 3,703'. Perf'd (L. M.) (Q) // 3682'-90', 3666'-70', 3649'-62', 3638'-40', 3526'-30', 3512'-18', 2601'-08', 3575'-86', & 3560'-64'. L. M. (L. 7-R) // 3544'-48', 3514'-17', 3501'-05', 3476'-81', 3464'-69', 3453'-61', 3426'-35 & 3409'-22', 3 spf, 120 degree, 107', 321 - 0.45" holes. Foam Acid Fract L.M. with 286 bbis 15% NEPE acid + 106 Tons CO2 in 3 stages, diverted w/ 8,500# RS. AIR= 11.8 bpm Pavg= 2786#, ISIP= 656#. SITP= 620#. Well Flowing: 112 bfpd 5% oil cut, 24/64' choke, FTP= 100#.					
8-Mar-07		POOH laying down work string and Pkr. RIH with 2 7/8" Super Max tubing, pump and rods, PWOP.					
10-May-10		POOH with rods, parted @ top o pull rod. POOH with tubing & pump. Ran pressure gradient every 500'. Tagged at 3,703'. Hydrotest tubing to 7000 psig - good. RIH with pump and rods, PWOP.					
2-Jun-12		POOH with rods and pump. RIH with pump and rods..					
Jelmat							
Surface Csg		Hole Size: 12 1/4 in Csg. Size: 8 5/8 in Set @: 412 ft Sxs Cmt: 250 Circ: Yes TOC @: surf TOC by: circ					
Production Csg		Hole Size: 7 7/8 in Csg. Size: 5 1/2 in Set @: 3728 ft Sxs Cmt: 650 Circ: no TOC @: 460' TOC by: circ					
PSTD: 3708 ft							
TD: 3755 ft							
L. M.		3409'					
L. 7-R		3540'					
Queen		3550'					
		3590'					
Prepared by:		Jim Kidd		Domingo Camizales		[UPDATED: 14-Jun-12	

Drill out existing CIBP & cement

CIBP set @ 3340' w/ 35' cmt on top

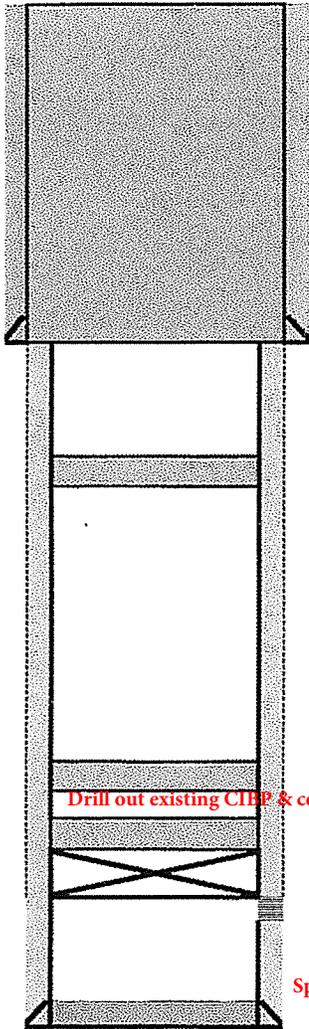
Yates- 2978
7 Rvs- 3228
Queen- 3560

Spot 50 sx Class C 3700

Legacy- Proposed

Author:	Abby-BCM & Associates, Inc		
Well Name	Cooper Jal Unit	Well No.	#509
Field/Pool	Jalmat; Tan-T-7Rvs-Langlie Mattix; Q-Ggbg	API #:	30-025-38202
County	Lea	Location:	Sec 18, T24S, R37E
State	New Mexico		1370' FSL & 1368' FEL
Spud Date	12/12/2006	GL:	3299'

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	8 5/8		24#	412	12 1/4	250	Circ'd
Prod Csg	5 1/2		15.5#	3,729	7 7/8	650	800' CBL



8 5/8 24# CSG @ 412
Hole Size: 12 1/4

Yates- 2978
7 Rvs- 3228
Queen- 3560

4. Perf & Sqz 100 sx cmt @ 465' to surface.

3. Spot 25 sx cmt @ 1300-1100'. WOC & Tag

2. Spot 25 sx cmt @ 3030-2830'. WOC & Tag (Yates)

Drill out existing CIBP & cement

1. Tag existing 5 1/2" CIBP @ 3340' w/ 35' cmt cap on top. Circulate hole w/ MLF. Pressure test csg.

Perfs @ 3375-3668'

Spot 50 sx Class C 3700

5 1/2 15.5# CSG @ 3,729
Hole Size: 7 7/8

TD @

**CONDITIONS OF APPROVAL
FOR PLUGGING AND ABANDONMENT
OCD - Southern District**

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, Notify NMOCD District Office I (Hobbs) at **(575)-263-6633** at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down.

Company representative will be on location during plugging procedures.

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal - commercial or private- shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water will not be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.
16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).

19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
- A) **Fusselman**
 - B) **Devonian**
 - C) **Morrow**
 - D) **Wolfcamp**
 - E) **Bone Springs**
 - F) **Delaware**
 - G) **Any salt sections**
 - H) **Abo**
 - I) **Glorieta**
 - J) **Yates.**
 - K) **Potash---(In the R-111-P Area (Potash Mine Area),**

A solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, woe 4 hours and tag, this plug will be SO' below the bottom and 50' above the top of the Formation.

21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, woe and tagged. These plugs will be set SO' below formation bottom to 50' above formation top inside the casing.

DRY HOLE MARKER REQ.UIRMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least 1/4" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

- 1. **Operator name**
- 2. **Lease and Well Number**
- 3. **API Number**
- 4. **Unit letter**
- 5. **Quarter Section (feet from the North, South, East or West)**
- 6. **Section, Township and Range**
- 7. **Plugging Date**
- 8. **County**

SPECIAL CASES -----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

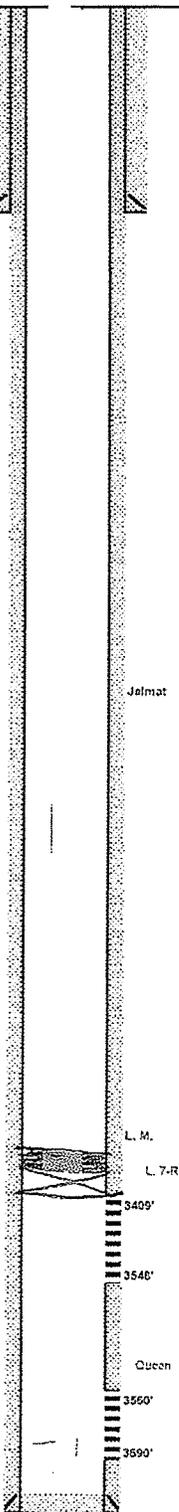
SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC	LEASE NAME Cooper Jal Unit	WELL NO. 509	
STATUS: Active Oil		API# 30-025-38202	
LOCATION: 1370 FSL & 1358 FFL Sec 16 Unit J T - 24-S R - 37-E, Lea County, New Mexico			
SPUD DATE: 12/12/06 TD	3755	KB 3311' DF 3310'	
INT. COMP. DATE: IPSTD	3708	GL 3297' KB 12'	
ELECTRIC LOGS:			
Spectral PE-Density, CNL- from 3731' - 100' (1-10-07 Weatherford)		CORES, CSTRS, & MUDLOGS:	
Dual Laterolog- from 3745' - 410' (1-10-07 Weatherford)			
Cement Top Log from 3634' - 100' (12-21-06 Gray Wireline)			
HYDROCARBON BEARING ZONE DEPTH LOGS:			
Tansill @ 2806' Yates @ 2978' Upper 7 Rvs @ 3228' Lower 7 Rvs @ 3380' Queen @ 3560'			
CASING PROFILE			
SURF. 8 5/8" - 24# Grade 55, LT&C set@ 412'. Cmf'd w/250 sxs Class C w/ 2% CaCl - circ'd w/ 94 sx cmt to surf.			
PROD. 5 1/2" - 15.5# Grade 55, LT&C set@ 3729'. Cmf'd w/ 350 sxs Class H w/ 5% Salt + 300 sxs Class H w/			
LINER. None 5% Salt - TOC @ 800 by CBL			
CURRENT PERFORATION DATA			
CSD. PERFS: OPEN HOLE:			
23-Feb-07 Perf'd L. M. (Q) // 3682'-90', 3666'-70', 3649'-62', 3638'-40', 3526'-30', 3512'-18', 2601'-08', 3575'-86', & 3560'-64'.			
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TUBING DETAIL 3/12/10		ROD DETAIL 6/2/12	
Length (ft)	Detail	Length (ft)	Detail
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344	11 2 7/8" 6.5#, J-55, Super Max tbg.	1650	66 3/4" KD Rods rods
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31	1 2 7/8" OEMA	0	1 1 1/4" x 6' GA
3680	btm	3826	
WELL HISTORY SUMMARY			
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2-Jun-12 POOH with rods and pump. RIH with pump and rods..			

Surface Csg
 Hole Size: 12 1/4 in
 Csg. Size: 8 5/8 in
 Set @: 412 ft
 Sxs Cmt: 250
 Circ: Yes
 TOC @: surf
 TOC by: circ

Production Csg
 Hole Size: 7 7/8 in
 Csg. Size: 5 1/2 in
 Set @: 3728 ft
 Sxs Cmt: 650
 Circ: no
 TOC @: 460'
 TOC by: circ



CIBP set @ 3340' w/ 35' cmt on top

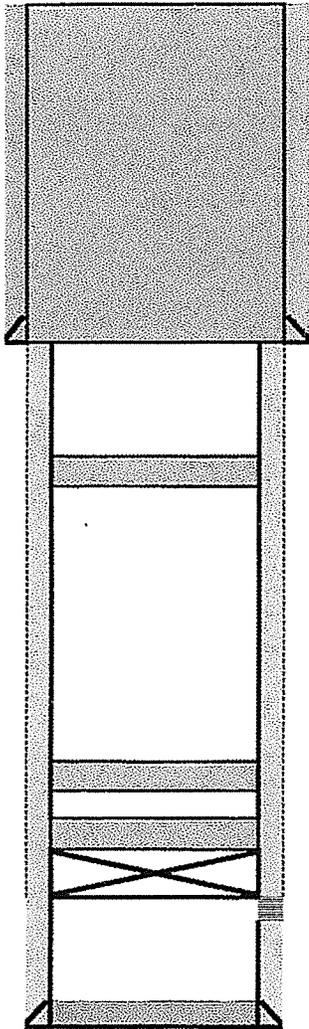
Yates- 2978
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PREPARED BY: Jim Kidd Domingo Camizales [UPDATED: 14-Jun-12

Legacy- Proposed

Author:	Abby-BCM & Associates, Inc		
Well Name	Cooper Jal Unit	Well No.	#509
Field/Pool	Jalmat; Tan-T-7Rvs-Langlie Mattix; Q-Ggbg	API #:	30-025-38202
County	Lea	Location:	Sec 18, T24S, R37E
State	New Mexico		1370' FSL & 1368' FEL
Spud Date	12/12/2006	GL:	3299'

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
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8 5/8 24# CSG @ 412
Hole Size: 12 1/4

Yates- 2978
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4. Perf & Sqz 100 sx cmt @ 465' to surface.

3. Spot 25 sx cmt @ 1300-1100'. WOC & Tag

2. Spot 25 sx cmt @ 3030-2830'. WOC & Tag (Yates)

1. Tag existing 5 1/2" CIBP @ 3340' w/ 35' cmt cap on top. Circulate hole w/ MLF. Pressure test csg.

Perfs @ 3375-3668'

5 1/2 15.5# CSG @ 3,729
Hole Size: 7 7/8

TD @

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 1625 N. French Dr., Hobbs, NM 88240
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District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 20662

COMMENTS

Operator: LEGACY RESERVES OPERATING, LP Suite 3000	15 Smith Road Midland, TX79705	OGRID: 240974	Action Number: 20662	Action Type: C-103F
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Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	05/11/2021

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

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 20662

CONDITIONS OF APPROVAL

Operator: LEGACY RESERVES OPERATING, LP Suite 3000 Midland, TX79705		15 Smith Road	OGRID: 240974	Action Number: 20662	Action Type: C-103F
OCD Reviewer kfortner	Condition See attached conditions of approval Note Changes to procedure				