

Order Number

DHC
HOB 507

API Number

30-025-40478

Operator

Apache Corp

County

Lea

Order Date

12-7-12

Well Name

Lockhart B

Number

12

Location

A

UL

12

Sec

215

T (+Dir)

37E

R (+Dir)

Oil %

42%

Gas %

40%

Pool 1

6660

Blinebury Oil + Gas

Pool 2

60240

Tubb Oil + Gas

8%

31%

Pool 3

19190

Drinkard

33%

23%

Pool 4

62700

Wantz Abo

17%

6%

Comments:

Posted in RBOMS 12-7-12 CHM

30-025-40478
DHC-HOB

DOWNHOLE COMMINGLE CALCULATIONS:

OPERATOR: Apache Corp

PROPERTY NAME: Lockhart B-12

WNULSTR: 12-A-12-215-37E

SECTION I:		ALLOWABLE AMOUNT	
POOL NO. 1	<u>Blinebry Oil + Gas</u>	<u>107</u>	<u>428</u> MCF
POOL NO. 2	<u>Tubb Oil + Gas</u>	<u>142</u>	<u>284</u> MCF
POOL NO. 3	<u>Drinkard</u>	<u>142</u>	<u>852</u> MCF
POOL NO. 4	<u>Wantz- Abo</u>	<u>187</u>	<u>1122</u> MCF
POOL TOTALS		<u>578</u>	<u>2686</u>

SECTION II:		<u>Oil</u>	<u>Gas</u>
POOL NO. 1	<u>Blinebry Oil + Gas</u>	<u>42%</u>	<u>40%</u>
POOL NO. 2	<u>Tubb Oil + Gas</u>	<u>8%</u>	<u>31%</u>
POOL NO. 3	<u>Drinkard</u>	<u>33%</u>	<u>23%</u>
POOL NO. 4	<u>Wantz- Abo</u>	<u>17%</u>	<u>6%</u>

$17\% \times 578 = 98.26$
<98>

OIL
SECTION III:
 $17\% \div 187 = 1100$

SECTION IV:		
<u>$42\% \times 1100 = 462$</u>	<u><462></u>	
<u>$8\% \times 1100 = 88$</u>	<u><88></u>	
<u>$33\% \times 1100 = 363$</u>	<u><363></u>	
<u>$17\% \times 1100 = 187$</u>	<u><187></u>	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
OCD Hobbs
DEC 06 2012

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Apache Corporation

(873)

3a. Address
303 Veterans Airpark Lane, Suite 3000
Midland, TX 79705

3b. Phone No. (include area code)
432/818-1062

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

41S FNL & 660' FEL UL A Sec 12 T21S R37E

5. Lease Serial No.
NMLC-032096B

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
Lockhart B 12 #012 (24428)

9. API Well No.
30-025-40478

10. Field and Pool or Exploratory Area
Bli O&G(O)/Tubb O&G(O)/Drinkard/Wantz; Abo

11. County or Parish, State
Lea County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other DHC
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

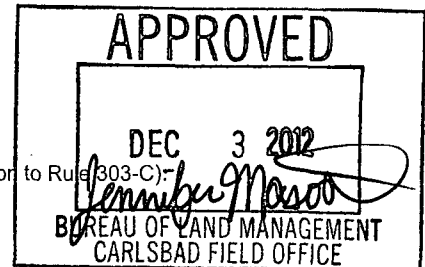
Apache requests permission to complete and DHC the Blinebry-Tubb, per the following:

Pool Names: Blinebry Oil & Gas	6660	Perforations: Blinebry	5951'-6351'
Tubb Oil & Gas	60240	Tubb	6496'-6692'
Drinkard	19190	Drinkard	6815'-6961'
Wantz; Abo	62700	Abo	7082'-7369'

The allocation method will be as follows based on offset production (See attached application for exception to Rule 303-C):

	OIL	GAS	Water
Blinebry	42%	40%	24%
Tubb	8%	31%	15%
Drinkard	33%	23%	32%
Abo	17%	6%	29%

SEE ATTACHED FOR
CONDITIONS OF APPROVAL



Downhole commingling will not reduce the value of these pools. Ownership is the same for each of these pools.

**SUBJECT TO LIKE
APPROVAL BY STATE**

DHC-HOB-507

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Reesa Holland

Title Sr. Staff Reg Tech

Signature

Reesa Holland

Date 10/23/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. MW/OCD 12/7/12

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

DEC 10 2012



October 23, 2012

Mr. Wesley Ingram
Bureau of Land Mgmt - CFO
620 E Greene St
Carlsbad, NM 88220

RE: Downhole Commingling Application
Lockhart B-12 #12 API 30-025-40478
Unit A, Section 12, T21S, R37E
Blinebry Oil & Gas (Oil) 6660, Tubb Oil & Gas (Oil) 60240, Drinkard 19190 &
Wantz; Abo (62700)
Lea County, New Mexico

Dear Mr. Ingram,

Enclosed please find form 3160-5 and attachments for downhole commingling the captioned well. The ownerships (WI, NRI and ORRI) of these pools are identical in this wellbore. The fluids from each of these pools are compatible as seen in other similar commingles in the area. Combining these fluids will not result in any damage to these pools. Commingling will improve the efficiency of present and future recovery operations. Cross flow will not be a problem due to having a production lift system capable of keeping the well pumped off thereby maximizing production. This commingling will not reduce the value of the total remaining production.

The allocation method used for this well was determined by analyzing the cumulative oil, gas and water production in a nine section area of review surrounding this well. Supporting documentation is shown on the attached spreadsheet. Production for active and inactive wells was grouped by pool in the area of review. The totals for each phase were then divided by the number of wells associated with this pool yielding an average. This average was used to determine the percentage allocation.

The main reason for using this method is based on economics and minimizing reservoir damage. Past completion practices had all three zones perforated and fracture stimulated during one full week. Each zone was isolated by a retrievable bridge plug to allow for production testing of each zone for allocation purposes. This testing period lasted as long as one month before a stabilized rate was observed thus allowing the next zone to be brought on and tested. During this time period the completion fluids used were still confined to the other reservoirs causing gel damage. It is a common practice to get these fluids out of the wellbore as soon as possible to help maximize productivity. On a cost basis it is more expensive to have a completion rig move in and out multiple times to bring on

each new zone. Several other factors such as weather, other new completions and regulatory well work may interfere with these new wells.

The area of review used encompasses what has been accepted as a good statistical representation for allocation purposes. By using this allocation method all zones will be brought online in a more effective and efficient manner. This will in turn generate a higher productive rate and quicker revenue streams not only for the operator but for the State of New Mexico too.

If you need additional information or have any questions, please give me a call at (432) 818-1062.

Sincerely,

A handwritten signature in cursive script that reads "Reesa Holland". The signature is written in dark ink and is positioned above the printed name and title.

Reesa Holland
Sr. Staff Regulatory Technician

Well Number	Location	Blindby	Cum Oil (BBL)	Cum Gas (MCF)	Cum Water (BBL)	Abn.
3002506323	215 37E 1	12662	45247		10849	
3002506323	215 37E 1F	7864	23241		11337	
3002506327	215 37E 10	94156	267470		7800	
3002506328	215 37E 1 SW NW SW	86779	250039		14040	7699
3002506348	215 37E 2	90104	268		9472	
3002506348	215 37E 2C	10105	254410		9472	
3002506348	215 37E 2D	16545	232971		540	
3002506343	215 37E 2F	124962	232971		91230	
3002506342	215 37E 2 SE SW NW	153077	1728531		25681	
3002506339	215 37E 14E	49654	362319		986795	
3002506338	215 37E 1F	61763	338162		263533	
3002506337	215 37E 1	23035	98410		21031	
3002506336	215 37E 1J	140078	519199		17368	
3002506335	215 37E 1N	154699	648926		17368	
3002506334	215 37E 1M	198217	883976		4384	
3002506333	215 37E 1	140157	335835		10290	
3002506332	215 37E 1L	151388	248074		13905	
3002506331	215 37E 1	23062	102148		28844	
3002506330	215 37E 1	82933	254410		9472	
3002506329	215 37E 1	90104	268		9472	
3002506328	215 37E 2	32804	34729		1543	
3002506327	215 37E 2J	9169	18977		4607	
3002506326	215 37E 2J	113441	599906		1543	
3002506325	215 37E 2	113441	599906		1543	
3002506324	215 37E 2A	50381	133419		1387	
3002506323	215 37E 2A	50381	133419		1387	
3002506322	215 37E 2	144267	1910607		2800	
3002506321	215 37E 2	36875	25103		105561	
3002506320	215 37E 2	3630	14013		105561	
3002506319	215 37E 2	43338	156647		103581	
3002506318	215 37E 2	6677	103581		103581	
3002506317	215 37E 2L	6677	103581		103581	
3002506316	215 37E 2L	6677	103581		103581	
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3002506314	215 37E 2L	6677	103581		103581	
3002506313	215 37E 2L	6677	103581		103581	
3002506312	215 37E 2L	6677	103581		103581	
3002506311	215 37E 2L	6677	103581		103581	
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3002506309	215 37E 2L	6677	103581		103581	
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3002506307	215 37E 2L	6677	103581		103581	
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3002506269	215 37E 2L	6677	103581		103581	
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3002506264	215 37E 2L	6677	103581		103581	
3002506263	215 37E 2L	6677	103581		103581	
3002506262	215 37E 2L	6677	103581		103581	
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3002506189	215 37E 2L	6677	103581		103581	
3002506188	215 37E 2L	6677	103581		103581	
3002506187	215 37E 2L	6677	103581		103581	
3002506186	215 37E 2L	6677	103581		103581	
3002506185						

Lease Name	Well Number	Location	Blindry	Tubd	Drnkard	Abd	Cum Oil (BBL)	Blindry	Tubd	Drnkard	Abd	Cum Gas (MCF)	Blindry	Tubd	Drnkard	Abd	Cum Water (BBL)
ANDREWS	3002506580	21S 37E 14E					153918					1003910					1744
ANDREWS	3002506581	21S 37E 14C NE NW					21976					93283					478
DRINKARD UNIT	3002506582	21S 37E 14G C SW NE					12941					172709					237
DRINKARD UNIT	3002506583	21S 37E 14B					109488					938318					773
DRINKARD UNIT	3002506584	21S 37E 14G					203804					1100834					5219
BUNIN	3002507903	21S 38E 18E					38883					2326778					30578
GUTMAN	3002520218	21S 37E 11L					43031					4214					22704
BUNIN	3002522796	21S 38E 18D					11668					19156					13591
BUNIN	3002522927	21S 38E 6M					64910					55595					30548
BUNIN	3002522929	21S 38E 18F					70572					106600					27282
ELLIOTT FIELDS	3002522986	21S 38E 6N					40798					92639					51864
MARK W OWENS	3002523016	21S 38E 18N					13622					29002					12864
TERRY FEDERAL	3002523295	21S 38E 18G					1835					660					2209
ANNA FEDERAL	3002523355	21S 37E 1					86781					147326					14838
NAOMI KENNAM	3002524854	21S 37E 14O					107638					1141069					22704
FEDERAL 7	3002527058	21S 38E 7D					4315					6938					18548
FEDERAL 7	3002527058	21S 38E 7D					20802					59040					22704
DRINKARD UNIT	3002529061	21S 37E 13N					12881					77120					24461
DRINKARD UNIT	3002529061	21S 37E 1K SW NE SW					33923					72653					11752
WANTZ FEDERAL	3002529372	21S 37E 1J					106100					158616					9974
WANTZ FEDERAL	3002529597	21S 37E 1					114094					252544					23848
WANTZ FEDERAL	3002529688	21S 37E 1					1505					6261					6297
WANTZ FEDERAL	3002529715	21S 37E 1					148353					232111					17636
WANTZ FEDERAL	3002529728	21S 37E 11NE SE					100701					141000					12711
DAURON	3002529792	21S 37E 1					88214					108409					16955
MCNELL	3002529824	21S 38E 6M					1532					582					560
DAURON	3002530005	21S 38E 1M					639					130101					20882
MCNELL A	3002530194	21S 38E 6D					64748					58205					22233
DAURON	3002530320	21S 37E 1					1138					3906					16746
COOGAN FEDERAL	3002530338	21S 37E 1					53344					71258					12236
COOGAN FEDERAL	3002530469	21S 37E 1 NE SE SW					26666					27395					30586
ELLIOTT FIELDS	3002530585	21S 38E 6L NW SW					24161					23459					5683
COOGAN FEDERAL	3002530635	21S 37E 1					101609					139348					21175
DAURON	3002530835	21S 37E 1					91053					12616					13489
DRINKARD UNIT	3002533681	21S 37E 1N NE SE SW					7367					10404					7563
BUNIN	3002533928	21S 38E 18D					3293					95086					5642
BUNIN	3002533928	21S 38E 18D					2942					9430					1855
IM W COLL	3002535447	21S 37E 13A NE NE					17783					42380					779108
IM W COLL	3002535923	21S 37E 12P SE SE					1507					17042					14166
IM W COLL	3002540013	21S 37E 12I					3438					3489					668
BUNIN	3002540144	21S 37E 13A					744					2974					668
ELLIOTT 7 FEDERAL	3002540317	21S 38E 7M					201					409					14166
TOTALS	9,024,241						374,274					84,162,915					14,166
ABO	101,396						17,823					734,841					15,564
WATER	9,024,241						4,446,853					28,621,995					779,108
BLINDRY	101,396						39,546					945,651					14,166
TUBD	9,024,241						2,530,943					14,896,827					15,564
DRINKARD	101,396						78,015					734,841					15,564
ABO	9,024,241						39,546					945,651					14,166
BLINDRY	101,396						17,823					734,841					15,564
TUBD	9,024,241						4,446,853					28,621,995					779,108
DRINKARD	101,396						78,015					734,841					15,564
ABO	9,024,241						39,546					945,651					14,166
BLINDRY	101,396						17,823					734,841					15,564
TUBD	9,024,241						2,530,943					14,896,827					15,564
DRINKARD	101,396						78,015					734,841					15,564
ABO	9,024,241						39,546					945,651					14,166
BLINDRY	101,396						17,823					734,841					15,564
TUBD	9,024,241						4,446,853					28,621,995					779,108
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TUBD	9,024,241						2,530,943					14,896,827					15,564
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TUBD	9,024,241						2,530,943					14,896,827					15,564
DRINKARD	101,396						78,015					734,841					15,564
ABO	9,024,241						39,546					945,651					14,166
BLINDRY	1																

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 86210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

HOBBS OCD

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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40476	Pool Code 66660	Pool Name Blinberry O & G (O)
Property Code 24434 24428	Property Name LOCKHART B-12	Well Number 12
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3531'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	21 S	37 E		415	NORTH	660	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. DHC-HOB-507						

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

SURFACE LOCATION Lot - N 32°29'58.59" Long - W 103°06'36.89" NMSPCE- N 547650.54 E 918421.86 (NAD-83) Lot - N 32°29'58.16" Long - W 103°06'35.19" NMSPCE- N 547591.380 E 877237.972 (NAD-27) 32.499489 103.109775		OPERATOR CERTIFICATION 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 owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sorina L. Flores</i> 10/19/11 Signature Date Sorina L. Flores Printed Name sorina.flores@apachecorp.com Email 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 my belief. GARY L. JONES Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 24880	

MAR 08 2012

HOBBS OCD

MAR 06 2012

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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District Office

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OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-40478	Pool Code 60240	Pool Name Tubb O & G (O)
Property Code 24434 24428	Property Name LOCKHART B-12	Well Number 12
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3531'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	21 S	37 E		415	NORTH	660	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. DHC- HOB-507
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SURFACE LOCATION Lat - N 32°29'58.59" Long - W 103°06'36.89" NMSPCE- N 547650.54 E 918421.86 (NAD-83) Lat - N 32°29'58.16" Long - W 103°06'35.19" NMSPCE- N 547591.380 E 877237.972 (NAD-27) 32.499489 103.109775		OPERATOR CERTIFICATION 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 owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sorina L. Flores</i> 10/19/11 Signature Date Sorina L. Flores Printed Name <i>sorina.flores@apachecorp.com</i> Email Address
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DISTRICT I

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Energy, Minerals and Natural Resources DepartmentCONSERVATION DIVISION
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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40476	Pool Code 19190	Pool Name DrinKard
Property Code 24434 24428	Property Name LOCKHART B-12	Well Number 12
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3531'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	21 S	37 E		415	NORTH	660	EAST	LEA

Bottom Hole Location If Different From Surface

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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. DHC-HOB-507						

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HOBBS OCD

DISTRICT I

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1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40878	Pool Code 62700	Pool Name Wantz; ABO
Property Code 24434 24425	Property Name LOCKHART B-12	Well Number 12
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3531'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	21 S	37 E		415	NORTH	660	EAST	LEA

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**Lockhart B 12 #012
30-025-40478
Apache Corporation
Conditions of Approval**

- 1. Surface disturbance beyond the existing pad must have prior approval.**
- 2. Closed loop system required.**
- 3. Operator to have H2S monitoring on location as H2S has been reported from wells in the vicinity.**
- 4. Subsequent sundry and completion report required.**

JAM 120312