

**District I**  
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**District II**  
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**District III**  
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**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101  
Revised November 14, 2012

HOEBS OCD

☐ AMENDED REPORT

AUG 09 2013

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**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		2. OGRID Number 873
		3. API Number 30-025-05926
4. Property Code 302339	5. Property Name L M Lambert	6. Well No. 002

**7. Surface Location**

UL - Lot G	Section 06	Township 20S	Range 37E	Lot Idn	Feet from 1980	N/S Line North	Feet From 1980	E/W Line East	County Lea
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**\* Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
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**9. Pool Information**

Pool Name Monument; Paddock / <del>Wildcat</del> Wolfcamp	Pool Code 47080 / 9804H
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**Additional Well Information**

11. Work Type A	12. Well Type G	13. Cable/Rotary R	14. Lease Type P	15. Ground Level Elevation 3571'
16. Multiple N	17. Proposed Depth 9870'	18. Formation Ellenburger	19. Contractor	20. Spud Date 09/23/1961
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

**21. Proposed Casing and Cement Program**

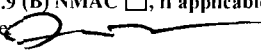
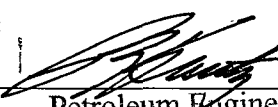
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
S	17-1/2"	12-1/2"	40#	202'	145 sx	
I / P	11" & 7-7/8"	8-5/8" & 6-5/8"	28# / 20#	2402' / 3816'	750 sx / 125 sx	
L	5-7/8"	4-1/2"	11.6#	3797' - 9867'	720 sx	

**Casing/Cement Program: Additional Comments**

DO all plugs & squeeze the Tubb. Perf & acid stimulate the Wolfcamp. During this procedure we will be using the Closed Loop System.
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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer

<p>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/>, if applicable. Signature: </p> <p>Printed name: Fatima Vasquez</p> <p>Title: Regulatory Tech II</p> <p>E-mail Address: Fatima.Vasquez@apachecorp.com</p> <p>Date: 08/06/2013</p>	<p style="text-align: center;"><b>OIL CONSERVATION DIVISION</b></p> <p>Approved By: </p> <p>Title: Petroleum Engineer</p> <p>Approved Date: 08/22/13 Expiration Date: 08/22/15</p> <p>Conditions of Approval Attached</p>
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AUG 22 2013

LM Lambert #2  
API # 30-025-05926  
Sec 6, T20S, R37E  
Elevation: 3580' KB, 3568' GL  
TD: 9,870'  
PBSD: 6,155'

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Casing Record: 12-1/2" 40# @ 203' w/ 145 sxs  
8-5/8" 28# @ 2402' w/ 750 sxs  
6-5/8" 20# @ 3816' w/ 125 sxs  
4-1/2" 11.6# J-55 @ 9867' w/ 330 sxs  
Liner HGR @ 3797' w/ 350 sxs squeezed in top of liner

Perfs: Grayburg: 3703-13 (SQZ'd w/ 100 sxs); 3725-60 (SQZ'd w/ 97 sxs); 3780-90 (SQZ'd w/ 300 sxs)  
Tubb: 6242-48; 6372-76; 6441-45; 6458-61 (SQZ'd w/ 384 sxs  
Tubb (reperf): 6242-48; 6330-34; 6372-76 (TA'd w/ CIBP @ 6190)  
McKee: 9568-81; 9666-75; 9679-90; 9700-07; 9710-14; 9717-25; 9748-52; 9756-65; 9770-86  
9568-81; 9582-9608; 9609-35; 9636-51; 9666-75; 9679-90; 9700; 9710-14; 9717-25; 9748-52;  
9756-65 (All McKee perf squeezed w/ 300 sxs)  
Ellenburger: 9832-56 (Abandoned w/ CIBP @ CIBP @ 9800 w/ 2 sxs cmt)

Objective: Repair casing leak. Drill out all plugs and squeeze the Tubb. Perf and acid stimulate the Wolfcamp.

AFE: PA-12-4073

1. MIRU unit. Check pressure on well.
2. ND WH. NU BOP. PU and RIH w/ RBP on 2-3/8" J-55 tubing to be used as work string and set at  $\pm 2700'$  w/ 2 sxs sand on top. TOH
3. PU and RIH w/ CICR on WS and set at  $\pm 2,490'$ . Sting into CICR.
4. MIRU cement Service Company. Establish injection rate into leak. Pump cement as dictated by injection rate. Hesitate squeeze perforations per Monument office recommendations. Displace to bottom with 9.6 bbls of flush.
5. Sting out of CICR and POOH w/ WS. WOC.
6. PU and RIH w/ 3-7/8" bit, bit sub, and drill collars on WS. Tag CICR @ 2,490'. RU reverse unit and break circulation. Drill out CICR and cement to 2,650. Test casing to 1,000 psi. *If squeeze does not test, repeat squeeze process.* POOH.
7. PU and RIH w/ retrieving head. Wash sand above RBP. Latch and release RBP. TOH.
8. PU and RIH w/ 3-7/8" bit, bit sub, and drill collars on WS. RIH to CIBP @ 6,155'. Break circulation and D/O cement and CIBP.
9. Continue in hole and tag cement and CIBP @ 7,000'. POOH.
10. RIH w/ CICR on WS and set at  $\pm 6,200'$ . Sting into CICR.
11. MIRU cement Service Company. Establish injection rate into perforations. Pump cement as dictated by injection rate. Hesitate squeeze perforations per Monument office recommendations. Displace to bottom with 24 bbls of flush.
12. Sting out of CICR and POOH w/ WS. WOC.

13. PU and RIH w/ 3-7/8" bit, bit sub and drill collars on WS. Tag CICR. RU reverse unit and break circulation. Drill out CICR and cement to 6,400'. Test casing squeeze to 1,000 psi. *If squeeze does not test, repeat squeeze process.*
14. Continue to drill out CIBP and cement at 7,000'. Continue in hole and clean well out to CIBP @  $\pm$  9,480'. Circulate hole clean. POOH.
15. MIRU WL. RIH w/ 3-3/8" csg gun or available perforator and perforate the Wolfcamp at 7800-10; 7860-7900; 7979-8005 w/ 2 jspf 120° phasing (152 holes). TOH with perf guns. **Correlate to Schlumberger Well Surveying Corporation Induction-Electrical Log dated 11/13/1961.**
16. TIH w/ SN and PKR on WS. Spot 200 gallons acid across perforations. Set PKR just above new perforations at  $\pm$  7,750'. Test backside to 1000 psi.
17. MIRU acid services. Acidize the Wolfcamp (7800-8005) down the tubing with 4000 gallons 15% NEFE w/ additives using 300 ball sealers to divert evenly spaced throughout the job as a max rate but do not exceed 6,000 psi surface treating pressure. Displace to bottom perf with 34 bbls of flush. Surge balls.
18. RU swab equipment and recover load and swab test for fluid entry and oil cut. Report results to Midland. RD swab equipment.
- a. If productive, continue to step 19.
- b. If unproductive, TOH w/ PKR and WS.
- i. MIRU WL and set CIBP @ 7,750'.
- ii. RIH w/ perforator and perforate the Paddock at 5419-25; 5488-95; 5503-25; 5553-64 w/ 2 jspf 120° phasing (92 holes). TOH w/ perf guns. **Correlate to Schlumberger Well Surveying Corporation Induction-Electrical Log dated 11/13/1961.**
- iii. TIH w/ SN and PKR on WS. Spot 200 gallons acid across perforations. Set PKR just above new perforations at  $\pm$  5,375'. Test backside to 1000 psi.
- iv. MIRU acid services. Acidize the Paddock (5419-5564) down the tubing with 2,500 gallons 15% NEFE w/ additives using 200 ball sealers to divert evenly spaced throughout the job as a max rate but do not exceed 6,000 psi surface treating pressure. Displace to bottom perf with 23 bbls of flush. Surge balls.
- v. RU swab equipment and recover load and swab test for fluid entry and oil cut. Report results to Midland. RD swab equipment.
1. If productive, continue to step 19.
2. If unproductive, TOH w/ PKR and WS. Set CIBP @ 5,375' and prepare well for plugging operations.
19. Kill well if necessary. TOH w/ PKR and WS.
20. RIH w/ production tubing and rods as per the monument office specifications.
21. RDMOPU. Set pumping unit. Space out. Return well to production and place into test for 10 days.

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Date : 6/18/2013

GL=3568'  
KB=3580'  
Spud:6/1/36

# Apache Corporation – LM Lambert #2

## Wellbore Diagram – Current

API: 30-025-05926

### Surface Location

R. Taylor



1980' FSL & 1980' FWL,  
Sec 6, T20S, R37E, Lea County, NM

### Surface Casing

12-1/2" 40# @ 203' w/ 145 sxs to surface

Last Produced 2/2012  
TA EXPIRED 6/5/2013

### Intermediate Casing

8-5/8" 28# @ 2402' w/ 750 sxs to surface

6/13: CSG Leak @ 2539-70'

10/58: Perf 3703-13. Acidized w/ 500 gal 15%. Dual w/ McKee in 61'  
1/65: Acidized w/ 1000 gal 15%. Unsuccessful. TA'd.  
11/80: SQZ'd w/ 100 sxs

7/54: Perf 3725-60. Acidized w/ 250 gal 15%. SQZ'd in 58' w/ 97 sxs

???: Perf 3780-90. SQZ'd in 54' w/ 300 sxs

### Intermediate Casing II

6-5/8" 20# @ 3816' w/ 125 sxs to unknown

7/36: OH from 3816-3905. Acidized w/ 2000 gal XX acid.  
2/40: OH acidized w/ 1000 gal XX acid.

6/13: CIBP @ 6190 w/ 2 sxs (35') cmt.

6/08: Perf Tubb @ 6242-48; 6330-34; 6372-76; 6441-45; 6458-61 w/ 2 jspf. Acidized w/ 2500 gal 15% NEFE. Black water. SQZ'd w/ 384 sxs cmt.  
7/08: Re-perf Tubb @ 6242-48; 6330-34; 6372-76. Acidize w/ 2500 gal 15% NEFE

6/08: CIBP @ 7026 w/ 2 sxs cmt. **PBTD @ 7000'**

6/08: CIBP @ 9508 w/ 2 sxs cmt

2/01: SQZ all McKee perfs w/ 300 sxs cmt.

5/95: Perf McKee @ 9568-81; 9582-9608; 9609-35; 9636-51; 9666-75; 9679-90; 9700; 9710-14; 9717-25; 9748-52; 9756-65.

11/61: Perf McKee @ 9568-9651; 9666-75; 9679-90; 9700-07; 9710-14; 9717-25; 9748-52; 9756-65; 9770-86 w/ 1 jspf

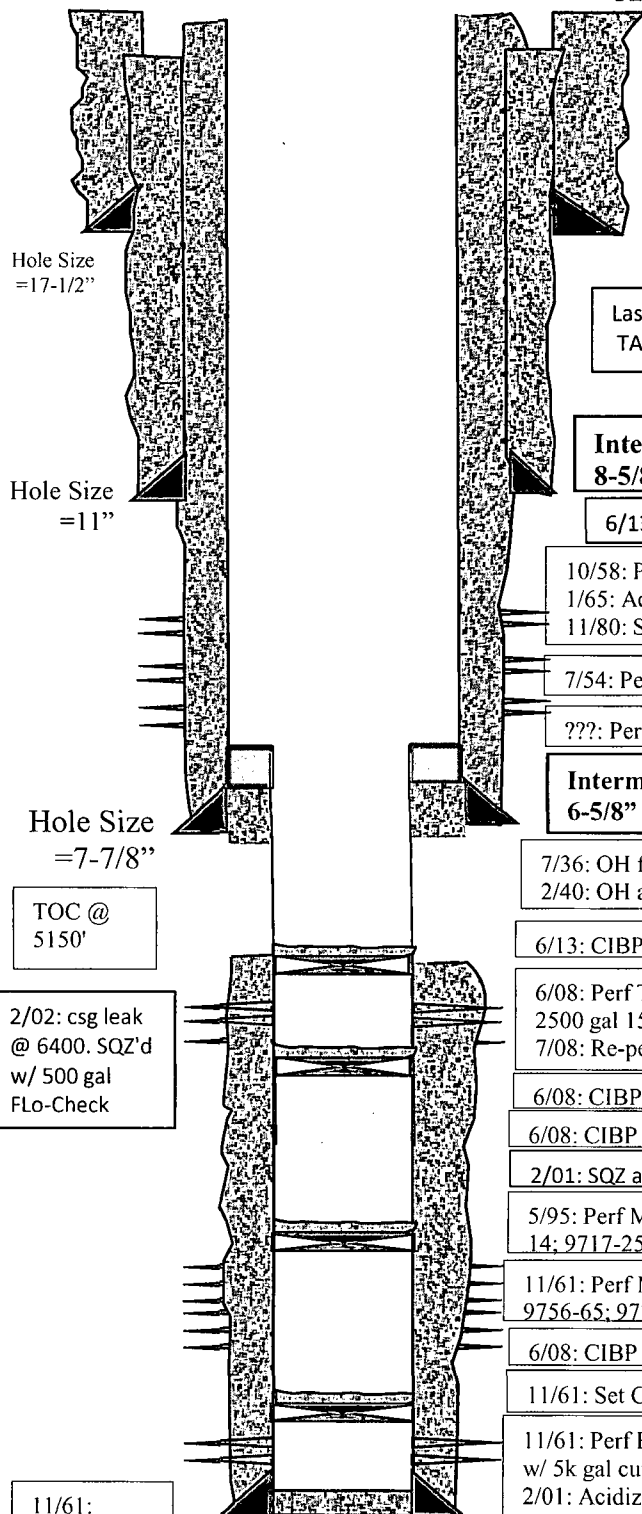
6/08: CIBP @ 9800 w/ 2 sxs cmt

11/61: Set CIBP @ 9812' w/ 0.5 sxs cmt. D/O in 01'.

11/61: Perf Ellenburger @ 9832-40. Acidized w/ 1250 gal 15%; perf 9840-50. Frac 9832-50 w/ 5k gal curde w/ 2500# 2/40 snd.  
2/01: Acidized w/ 2500 gal HCL. RTP.  
2/02: Reperf 9832-56. Acidize w/ 1500 gal 15% HCL

### Production Liner

4-1/2" 11.6# J-55 @ 9867' w/ 330 sxs to 5150'  
Liner Hanger @ 3797' Cmt'd w/ 350 sxs



**PBTD = 9,812'**  
**MD = 9,870'**

11/61:  
Deepened  
well w/ 5-  
7/8" bit to  
9870'.

2/02: csg leak  
@ 6400. SQZ'd  
w/ 500 gal  
FLo-Check

TOC @  
5150'

Hole Size  
= 7-7/8"

Hole Size  
= 11"

Hole Size  
= 17-1/2"

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GL=3568'  
KB=3580'  
Spud:6/1/36

# Apache Corporation – LM Lambert #2

## Wellbore Diagram – Proposed

Date: 6/18/2013

API: 30-025-05926

### Surface Location

R. Taylor



1980' FSL & 1980' FWL,  
Sec 6, T20S, R37E, Lea County, NM

### Surface Casing

12-1/2" 40# @ 203' w/ 145 sxs to surface

MOSES OCD

TAC @ TBD  
SN @ TBD

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### Intermediate Casing

8-5/8" 28# @ 2402' w/ 750 sxs to surface

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6/13: CSG Leak @ 2539-70'  
TBD: Leak Squeezed w/ XX sxs.

10/58: Perf 3703-13. Acidized w/ 500 gal 15%. Dual w/ McKee in 61'  
1/65: Acidized w/ 1000 gal 15%. Unsuccessful. TA'd.  
11/80: SQZ'd w/ 100 sxs

7/54: Perf 3725-60. Acidized w/ 250 gal 15%. SQZ'd in 58' w/ 97 sxs

???: Perf 3780-90. SQZ'd in 54' w/ 300 sxs

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6-5/8" 20# @ 3816' w/ 125 sxs to unknown

7/36: OH from 3816-3905. Acidized w/ 2000 gal XX acid.  
2/40: OH acidized w/ 1000 gal XX acid.

TBD: Perf Paddock @ 5419-25; 5488-95; 5503-25; 5553-64 w/ 2 jspf (92 holes). Acidized w/ 2500 gal 15% NEFE. Test for productivity.

6/13: CIBP @ 6190 w/ 2 sxs cmt. TBD plug D/O

6/08: Perf Tubb @ 6242-48; 6330-34; 6372-76; 6441-45; 6458-61 w/ 2 jspf. Acidized w/ 2500 gal 15% NEFE. Black water. SQZ'd w/ 384 sxs cmt.

7/08: Re-perf Tubb @ 6242-48; 6330-34; 6372-76. Acidize w/ 2500 gal 15% NEFE  
TBD: SQZ perfs w/ XX sxs.

6/08: CIBP @ 7026 w/ 2 sxs cmt. PBTB @ 7000'. TBD plug D/O

TBD: Perf Wolfcamp @ 7800-10; 7860-7900; 7979-8005 w/ 2 jspf (152 holes). Acidized w/ 4000 gal 15% NEFE. Test for productivity.

6/08: CIBP @ 9508 w/ 2 sxs cmt

2/01: SQZ all McKee perfs w/ 300 sxs cmt.

5/95: Perf McKee @ 9568-81; 9582-9608; 9609-35; 9636-51; 9666-75; 9679-90; 9700; 9710-14; 9717-25; 9748-52; 9756-65.

11/61: Perf McKee @ 9568-9651; 9666-75; 9679-90; 9700-07; 9710-14; 9717-25; 9748-52; 9756-65; 9770-86 w/ 1 jspf

6/08: CIBP @ 9800 w/ 2 sxs cmt

11/61: Set CIBP @ 9812' w/ 0.5 sxs cmt. D/O in 01'.

11/61: Perf Ellenburger @ 9832-40. Acidized w/ 1250 gal 15%; perf 9840-50. Frac 9832-50 w/ 5k gal curde w/ 2500# 2/40 sand.

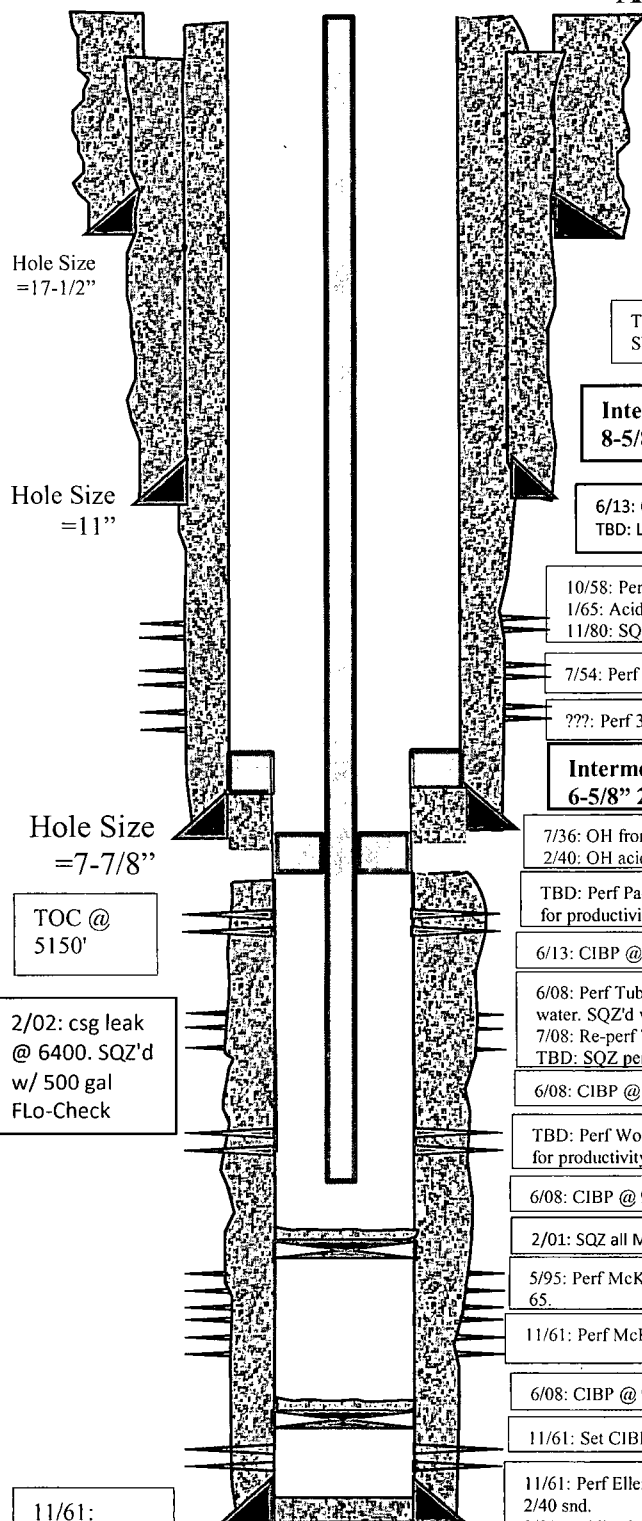
2/01: Acidized w/ 2500 gal HCL. RTP.

2/02: Reperf 9832-56. Acidize w/ 1500 gal 15% HCL

### Production Liner

4-1/2" 11.6# J-55 @ 9867' w/ 330 sxs to 5150'

Liner Hanger @ 3797' Cmt'd w/ 350 sxs



PBTB = 9,812'  
MD = 9,870'