

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

RECEIVED

OCT 08 2010

HOBBSOCD

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Apache Corp 303 Veterans Airpark Ste 3000 Midland TX 79705		² OGRID Number 873
		³ API Number 30 - 025-06596
⁴ Property Code 6482 306603	⁵ Property Name L.G. Warlick C	⁶ Well No. 005
⁹ Proposed Pool 1 Hare; Simpson (29830)		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no. O	Section 15	Township 21S	Range 37E	Lot Idn	Feet from the 339 330	North/South line South	Feet from the 2310	East/West line East	County Lea
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8 Proposed 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
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Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3417'
¹⁶ Multiple Y	¹⁷ Proposed Depth 7827' TD	¹⁸ Formation McKee/Connell	¹⁹ Contractor Open	²⁰ Spud Date Open

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17"	13-3/8"	48#	300'	300	Surf
11"	8-5/8"	32#	2800'	1300	Surf
8"	5-1/2"	17#	7655'	1100	55'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This well was completed in the Ellenburger 7/17/1950 with perms 7655'-7827'. Apache proposes to recompleate to the Hare Simpson (McKee & Connell), per the attached procedure:

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**

Plugback

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Reesa Holland*

Printed name: Reesa Holland

Title: Sr. Engineering Tech

E-mail Address: Reesa.Holland@apachecorp.com

Date: 10/05/2010

Phone: 432/818-1062

OIL CONSERVATION DIVISION

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date: **OCT 13 2010**

Expiration Date:

Conditions of Approval Attached ☐

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State of New Mexico

Energy Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06596	² Pool Code 29830	³ Pool Name Hare; Simpson
⁴ Property Code 6482	⁵ Property Name L.G. Warlick C	⁶ Well Number 005
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705	⁹ Elevation 3427'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	15	21S	37E		330	South	2310	East	Lea

¹¹ 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. PC-1015						

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.

16				¹⁷ 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 hereinafter entered by the division. <i>Reesa Holland</i> 10/05/2010 Signature Date Reesa Holland Printed Name
				¹⁸ 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. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____



AFE No: TW- 10- 4252

L.G. Warlick C #5
API #: 30-025-06596
339' FSL & 2310' FEL
Section 15, Township 21S, Range 37E
Lea County, New Mexico

Recomplete to Hare Simpson (McKee & Connell)

6 October 2010

Recommended Procedure:

1. MIRU pulling unit. POOH w/rods & pump. TFF and TOO H laying down 2-3/8" prod tbg.
2. MIRU wireline service. Run Gamma Ray / Compensated Neutron cased hole log from 7650' to 7300', 5600' – 5000' & 4100' – 3400'. Send logs to Midland office for evaluation.

Note: 5-1/2", 17# csg shoe @ 7655'.

3. RIH w/4-3/4" bit & 5-1/2" x 17# csg scraper on 2-7/8" ws to 7650'. POOH.
4. RIH w/5-1/2" cmt retainer. Set retainer @ 7640'. Squeeze Ellenburger OH 7655' – 7827' w/50 sx cmt. POOH w/2-7/8" ws.
5. MIRU wireline service.
6. Perf McKee sand : +/-7435'-45', 7460'-65', 7538'-48' & 7570'-80' w/2 spf, 120 deg phasing.
Perf Connell sand : +/-7610'-18' w/2 spf, 120 deg phasing.

Note: The above perf depths are based upon the Schlumberger Electric log survey dated 7/11/50. The actual perf depths will follow based upon evaluation of the cased hole GR/N log run in step 2.

7. RIH w/RBP & pkr on 2-7/8" ws. Set RBP @ +/-7630'. Set pkr @ +/- 7590'.
8. Acidize Connell interval +/-7610'-18' w/1,000 gals 15% HCL-NE-FE acid and ball sealers.
9. Release pkr & RBP. Set RBP @ 7600' & pkr @ 7560'.
10. Acidize McKee interval +/-7570'-80' w/1,000 gals 15% HCL-NE-FE acid and ball sealers.
11. Release pkr & RBP. Set RBP @ 7560' & pkr @ 7520'.
12. Acidize McKee interval +/-7538'-48' w/1,000 gals 15% HCL-NE-FE acid and ball sealers.
13. Release pkr & RBP. Set RBP @ 7500' & pkr @ 7350'.
14. Acidize McKee intervals +/-7435'-45' & 60'-65' w/1,500 gals 15% HCL-NE-FE acid and ball sealers.
15. Release pkr & RBP. Set RBP @ 7640' & pkr @ 7400'.
16. Swab back load. Report results to Midland office.
17. Release pkr & RBP. POOH.
18. RIH w/SN & 2-7/8" prod tbg (new). Land SN @ +/-7630'. RIH w/new pump & rod string.
19. Install 640 PU. Place well in test. Report results to Midland office.

Present

WELL DATA SHEET

Last Update: 9-20-10

Lease Name: L.G. Warlick "C" #5

API No: 30-025-06596

Location: 339°51'23"10"E
SW-SE, Sec 15, T-21S, R-37E

County: Lea ST: NM

Spud Date: 5-20-50 Well Elev: 3417' GL 11' KB

TD Date: 7-10-50 Completion Date: 7-17-50

TD: 7827' PBTD: - TOC: 55' (TS)

Csg Size: 13³/₈" Wt: 48[#] Grd: H-40 Dpth: 300' Cmt: 3005x(Circ)
8⁵/₈" 32[#] 5-55' 2800' 12005x(Circ)

Producing Formation: Ellenburger

Perfs: From 7655' to 7827' PH spf to -

to - /spf to -

IP: - BOPD - BWPD - MCF/D

Well History: (See Attached)

6105 - 5110'

Prink - 6512'

McKee - 7430'

Ellen - 7655'

61W - 7815'

Well Equipment:

Pumping Unit: Lufkin M228-200-86 SPM=6.5 SL=86"

Motor Type: - HP: 25 POC: -

Tbg: 259 Jts 2³/₈" Size 4.7[#] Grade 5-55

MA @ - SN @ 7769 TAC @ 7419' (9-13-10)

Rods: 292-5¹⁸/₈" EL + 14-3¹⁴/₈" N-97

Ellenburger Pump: 2" x 1¹/₂" x 16' RVDC (9-13-10)

Csg Size: 5¹/₂" Wt: 17[#] Grd: 5-55 Dpth: 7655' Cmt: 11005x

TD: 7827'

Proposed

WELL DATA SHEET

Last Update: 10-5-10

Lease Name: L.G. Warlick "C" #5

API No: 30-025-06596

Location: SW-SE, Sec 15, T-21S, R-37E

County: Lea ST: NM

Spud Date: 5-30-50 Well Elev: 3417' GL 11' KB

TD Date: 7-10-50 Completion Date: 7-17-50

TD: 7827' PBTD: 7640' TOC: 55' (TS)

Csg Size: 13^{3/8}" Wt: 48[#] Grd: H-40 Dpth: 300' Cmt: 300.5 x (circ)

Producing Formation: Mckee/Connell

Perfs: From 7435 to 7550' 2/spf to 7610 to 18' - 2.5 spf

to /spf to

IP: BOPD BWPD MCF/D

Well History: (See Attached)

6100 - 5110'

Prink - 6512'

Mckee - 7430'

Ellen - 7655'

6W - 7815'

Mckee

±7435-45'

±7460-65'

±7538-48'

±7570-80'

Connell

±7610-18'

Well Equipment:

Pumping Unit: 1640 PV

Motor Type: HP: POC:

Tbg: ±254 Jts 2 7/8" Size 6.5" Grade J-55

MA @ SN @ ±7630' TAC @ ±7350'

Rods: 76 rod string

Pump: 2" x 1 1/2" x 24"

Ellenburger

SQW/50.5 x

Csg Size: 5 1/2" Wt: 17[#] Grd: J-55 Dpth: 7655' Cmt: 1100.5 x

TD: 7827'

