Energy, Minerals and Natural Resources Section 1, 1973, 741-1240 Sectio	Submit 1 Copy To Appropriate District	state of New Mexico	Form C-103	
Italian Properties Proper	Office December 1 Notation 1 Nota			
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DIFFERN TRESTRYOR. USE 'APPLICATION FOR PERMIT' (FORM C-101) FOR SUCH Setting to the proposals	SUNDRY NOTICES AND REP		7. Lease Name or Unit Agreement Name	
PROFUSALS.)			Bertha Barber	
2. Name of Operator Apache Corporation 2. Name of Operator Apache Corporation 3. Address of Operator 303 Voterans Airpark Lane, Suite 3000 Midland, TX 79705 4. Well Location Unit Letter 2 2130 feet from the North line and 330 feet from the West line Section 05 Township 205 Range 37E NMPM County Lea 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS COMMENCE DRILLING OPNS PAND A CASING/GEMENT JOB PULL OR ALTER CASING MULTIPLE COMPL CASING/GEMENT JOB COMMENCE DRILLING OPNS PAND A CASING/GEMENT JOB OTHER: Complete Well OTHER OTHER 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. Apache would like to complete this well in the Paddock as per the attached completion procedure. Spud Date: 01/11/2010 Rig Release Date: 01/27/2010 I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE TITLE Regulatory Tech DATE 01/24/2013 Type or print name Fatima Vasquez E-mail address and the starting and proposed to the set of my knowledge and belief. Petroleum Engineer DATE MAR 2 5 20.13	PROPOSALS.)	•	8 Wall Number on 4	
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Apache Corporation – Bertha Barber #24

Wellbore Diagram – Proposed Status

Date: 1/17/2013

API: 30-025-39582





Surface Location

R. Taylor

2130' FNL & 330' FWL, Unit Sec 5, T20S, R37E, Lea County, NM

Surface Casing 9-5/8" 24# K-55 @ 1145' w/ 388 sx to surface

DV Tool @ 2887' cmt w/ 630 sxs cmt

Good cmt to 3740'. FREE pipe from 3740-surface

Well drilled directionally from 1408' to 4504. Fight loss returns from 3843 to TD. Loss a total at 17,075 BBLS. Suspend drilling due to losses.

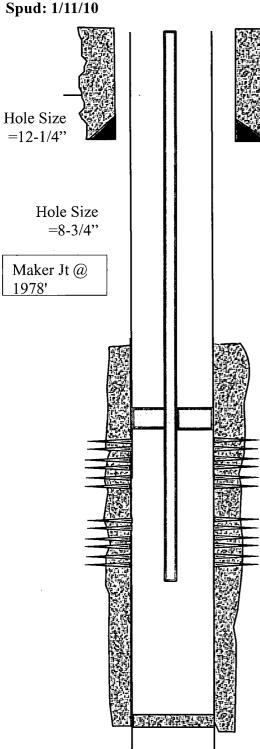
TBD: Perf UPR Paddock @ 5180-82; 5187-88; 5222-24; 5226-29; 5231-34; 5238-40; 5270-74; 5281-85; 5311-16; 5326-30 w/ 2 jspf (60 holes). Acidize w/ 3000 gal 15% NEFE

TBD: Perf LWR Paddock @ 5469-71; 5475-78; 5483-86; 5489-92; 5503-09; 5562-65; 5570-74; 5576-80; 5622-24; 5631-39; 5644-51; 5658-63 w/ 2 jspf (100 holes). Acidize w/ 4500 gal 15% NEFE

DV Tool @ 5771' w/ 785 sxs w/ 16 MCF N2

PBTD = 5776'TD = 5888

Production Casing 5-1/2" 17# L-80 @ 5888'



GL=3561' KB=3572' Bertha Barber #24 API # 30-025-39582 Sec 5, T20S, R37E

Elevation: 3572' KB, 3561' GL

TD: 5,888' PBTD: 5,771'

Casing Record: 9-5/8" 24# K-55 @ 1145' w/ 388 sxs

5-1/2" 17# L-80 @ 5888' w/ 785 sxs

Perfs: No Existing Perforations

Objective: Perforate and acidize the Paddock in two stages.

AFE: PA-13-3250

1. MIRU unit. Check pressure on well.

- 2. ND WH. NU BOP. PU and RIH w/ 4-3/4" bit, bit sub, and drill collars on 2-7/8" J-55 tubing to be used as work string to PBTD @ 5,771'. RU reverse unit and break circulation. Circulate new fluid in the hole. Test casing to 500 psi. POOH.
- 3. MIRU WL. RIH w/ 3-3/8" csg gun or available perforator and perforate the Paddock at 5469-71; 5475-78; 5483-86; 5489-92; 5503-09; 5562-65; 5570-74; 5576-80; 5622-24; 5631-39; 5644-51; 5658-63 w/ 2 jspf 60° phasing (100 holes). TOH with perf guns. Correlate to Weatherford Compensated Neutron Gamma Ray/CCL log dated 2/9/2010.
- 4. TIH w/ SN and PKR on WS. Spot 200 gallons acid across perforations. Set PKR just above new perforations at \pm 5,420. Test backside to 1000 psi.
- 5. MIRU acid services. Acidize the LWR Paddock (5469-5663) down the tubing with 4500 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 32 bbls of flush. Surge balls.
- 6. RU swab equipment and recover load and swab test for fluid entry and oil cut. Report results to Midland. RD swab equipment.
- 7. RIH w/ 3-3/8" csg gun or available perforator w/ CIBP on bottom. Set CIBP at 5,420'. Perforate the UPR Paddock at 5180-82; 5187-88; 5222-24; 5226-29; 5231-34; 5238-40; 5270-74; 5281-85; 5311-16; 5326-30 w/ 2 jspf 60° phasing (60 holes). TOH with perf guns and rig down WL. Correlate to Weatherford Compensated Neutron Gamma Ray/CCL log dated 2/9/2010.
- 8. TIH w/ SN and PKR on WS. Spot 200 gallons acid across perforations. Set PKR just above new perforations at \pm 5,130'. Test backside to 1000 psi.
- 9. MIRU acid services. Acidize the UPR Paddock (5180-5330) down the tubing with 3000 gallons 15% NEFE w/ additives using 120 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 31 bbls of flush. Surge balls.
- 10. RU swab equipment and recover load and swab test for fluid entry and oil cut. Report results to Midland. RD swab equipment. If unproductive, Set CIBP above perfs. TA well.

- 11. Kill well if necessary. Release PKR and TOH w/ 2-7/8" work string and PKR.
- 12. RU reverse unit and swivel. PU and RIH w/ 2-7/8" bit subs, DC on 2-7/8" WS and tag CIBP at 5,420'. Break circulation and drill out CIBP or push to PBTD at 5,771'. Circulate bottoms up once. POOH w/ WS.
- 13. RIH w/ production tubing and rods as per the Monument office specifications. RDMOPU.
- 14. Set pumping unit. Connect electrical service. Construct and tie in flow-line to well. Place well into production and place into test for 10 days. Have a chemical rep test fluid sand put well on the appropriate chemical maintenance program.