

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 Fax:(575) 393-0720
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) 334-8178 Fax:(505) 334-8170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3482

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

Form C-101
August 1, 2011
Permit 192908

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

1. Operator Name and Address APACHE CORP 303 Veterans Airpark Lane Midland, TX 79705		2. OGRID Number 873
4. Property Code 313597		3. API Number 30-015-42680
5. Property Name RANGER STATE		6. Well No. 013

7. Surface Location

UL - Lot	I	Section	31	Township	17S	Range	28E	Lot Idn	Feet From	1710	N/S Line	S	Feet From	245	E/W Line	E	County	Eddy
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8. Proposed Bottom Hole Location

UL - Lot	P	Section	31	Township	17S	Range	28E	Lot Idn	P	Feet From	990	N/S Line	S	Feet From	330	E/W Line	E	County	Eddy
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9. Pool Information

ARTESIA; GLORIETA-YESO (O)	96830
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3765
16. Multiple N	17. Proposed Depth 5300	18. Formation Yeso	19. Contractor	20. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	11	8.625	24	400	200	
Prod	7.875	5.5	17	5300	700	

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Hydril	3000	2000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ , if applicable. Signature: _____ Printed Name: Electronically filed by Bobby Smith Title: _____ Email Address: bobby.smith@apachecorp.com Date: 9/24/2014	OIL CONSERVATION DIVISION Approved By: Randy Dade Title: District Supervisor Approved Date: 9/25/2014 Expiration Date: 9/25/2016 Conditions of Approval Attached
Phone: 432-818-1020	

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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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-		2 Pool Code 96830		3 Pool Name Artesia; Glorieta - 1/2 so	
4 Property Code 313597		5 Property Name RANGER STATE			6 Well Number #13 ✓
7 OGRID No. 873		8 Operator Name APACHE CORPORATION			9 Elevation 3764.709

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
9 ✓	31	17 S	28 E		1710	SOUTH ✓	245	EAST ✓	EDDY

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
16 ✓	31	17 S	28 E		990 ✓	SOUTH	330 ✓	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
80			

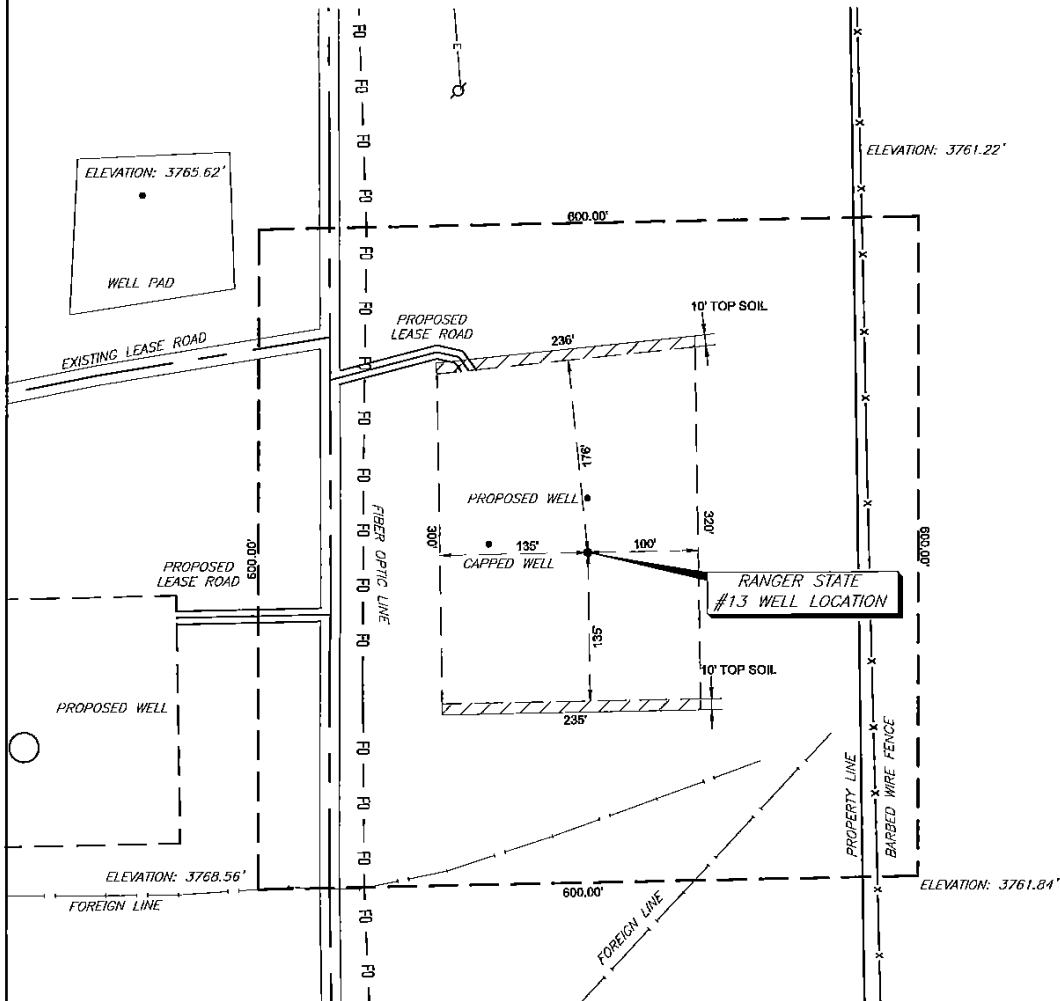
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST P.M.

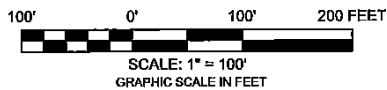
FOUND 3 INCH IRON PIPE, MARKED "U.S. GENERAL LAND OFFICE" LAT: 32.797505 N LONG: -104.223010 W NAD83 E: 533900.246 (N.A.D. 83) LAT: 32.797505 N LONG: -104.223010 W NAD83 E: 533900.246 (N.A.D. 83)		FOUND 3 INCH IRON PIPE, MARKED "U.S. GENERAL LAND OFFICE" LAT: 32.797505 N LONG: -104.223010 W NAD83 E: 533900.246 (N.A.D. 83) LAT: 32.797505 N LONG: -104.223010 W NAD83 E: 533900.246 (N.A.D. 83)		16 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 undivided 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. Signature: <u>Michelle Cooper</u> Date: <u>9-23-14</u> Printed Name: <u>Michelle Cooper</u> E-mail Address: <u>michelle.cooper@apachecorp.com</u>							
SURFACE HOLE TO BOTTOM HOLE LOCATION DEVIATION <table border="1"> <tr> <th>LINE</th> <th>BEARING</th> <th>DISTANCE</th> </tr> <tr> <td>L1</td> <td>S 65° 52' 02" W</td> <td>723.62</td> </tr> </table>		LINE	BEARING	DISTANCE	L1	S 65° 52' 02" W	723.62	17 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. 7-15-2014 Date of Survey Signature and Seal of Professional Surveyor 20559		18 SURFACE LOCATION DD LAT: 32.787685 N DD LONG: -104.206400 W DMS LAT: 32° 47' 15.668" N DMS LONG: 104° 12' 23.311" W NAD83 E: 530294.325 NAD83 E: 530881.706 (N.A.D. 83) DD LAT: 32.787685 N DD LONG: -104.206400 W DMS LAT: 32° 47' 15.668" N DMS LONG: 104° 12' 23.311" W NAD83 E: 530294.325 NAD83 E: 530881.706 (N.A.D. 83)	
LINE	BEARING	DISTANCE									
L1	S 65° 52' 02" W	723.62									
19 BOTTOM HOLE LOCATION DD LAT: 32.78502154 N DD LONG: -104.20723682 W DMS LAT: 32° 47' 08.514" N DMS LONG: 104° 12' 24.208" W NAD83 E: 538509.708 (N.A.D. 83) DD LAT: 32.78502154 N DD LONG: -104.20723682 W DMS LAT: 32° 47' 08.514" N DMS LONG: 104° 12' 24.208" W NAD83 E: 538509.708 (N.A.D. 83)		20 FOUND 100 D SPIKE NAIL LAT: 32.78502154 N LONG: -104.20723682 W NAD83 E: 538509.708 (N.A.D. 83) LAT: 32.78502154 N LONG: -104.20723682 W NAD83 E: 538509.708 (N.A.D. 83)		21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80							

EDDY COUNTY, NEW MEXICO

SECTION NINE (31), TOWNSHIP SEVENTEEN (17) SOUTH,
RANGE TWENTY-EIGHT (28) EAST OF THE PRINCIPAL MERIDIAN



COORDINATE TABLE				
WELL NAME	NORTHING (N.A.D. 27)	EASTING (N.A.D. 27)	NORTHING (N.A.D. 83)	EASTING (N.A.D. 83)
RANGER WELL #13 SURFACE LOCATION & PENETRATION POINT	650294.325	538983.706	650357.239	580162.874
ELEVATION	LATITUDE (N.A.D. 27)	LONGITUDE (N.A.D. 27)	LATITUDE (N.A.D. 83)	LONGITUDE (N.A.D. 83)
3,764.709'	32.787685 N	-104.206480 W	32.78780041 N	-104.20659324 W



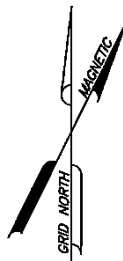
PREPARED FROM SURVEY
DATED: JULY 11, 2014

NOTES:

- 1.) BEARINGS & COORDINATES SHOWN HEREON ARE REFERENCED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, N.A.D. 27 & 83 DATUM (NEW MEXICO EAST ZONE) DERIVED FROM GPS OBSERVATIONS AND ARE BASED REFERENCE STATIONS - "E 18" - MALLAPARK NE (1985)
- 2.) LATITUDE & LONGITUDE ARE NAD 83 & 27 GEOGRAPHIC.
- 3.) THIS IS AN WELL PLAT AND DOES NOT REPRESENT A TRUE BOUNDARY SURVEY. THIS SURVEY IS BASED ON OWNERSHIP AND EASEMENT INFORMATION PROVIDED BY APACHE CORPORATION. SURVEYOR DID NOT ABSTRACT SUBJECT TRACT AND THERE MAY BE EASEMENTS OR OTHER ENCUMBRANCES THAT AFFECT THE SUBJECT TRACT THAT ARE NOT SHOWN HEREON.



8205 Camp Bowie West, Suite 204
Fort Worth, Texas 76116
(817) 366-0362 ~ Fax (817) 224-3377



THE RANGER WELL #13 IS LOCATED APPROXIMATELY
12 MILES NORTH NORTHWEST OF
ARTESIA, NEW MEXICO

Apache

Location of

RANGER WELL #13

Surface Location & Penetration Point: 1719' FSL & 245' FEL

Section 31, Township 17 South, Range 28 East of P.M.

Eddy County, New Mexico

DRAWN BY: K.N.	DATE: 8-11-14	DWG. NO.	REV.
CHECKED BY: P.W.	DATE: 8-11-14	RANGER #13 WELL LOCATION	0
SCALE: 1" = 100'	APP:	PAGE 1 OF 1	

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Form APD Comments

Permit 192908

PERMIT COMMENTS

Operator Name and Address: APACHE CORP [873] 303 Veterans Airpark Lane Midland, TX 79705		API Number: 30-015-42680
		Well: RANGER STATE #013
Created By	Comment	Comment Date
CSHAPARD	Land p/S	9/24/2014

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Form APD Conditions

Permit 192908

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: APACHE CORP [873] 303 Veterans Airpark Lane Midland, TX 79705		API Number: 30-015-42680
		Well: RANGER STATE #013
OCD Reviewer	Condition	
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	