

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
June 16, 2008

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address APACHE CORPORATION 303 VETERANS AIRPARK LANE, STE 3000 MIDLAND, TX 79705		<sup>4</sup> OGRID Number 873
		<sup>5</sup> API Number 30 - 025-38316
<sup>3</sup> Property Code 302708	<sup>3</sup> Property Name NORTH MONUMENT G/SA UNIT	<sup>6</sup> Well No. 362
<sup>9</sup> Proposed Pool 1 Grayburg-San Andres		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	20S	36E		2515	N	10	E	LEA

<sup>8</sup> 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
H	2	20S	36E		2415	N	10	E	LEA

Additional Well Information

<sup>11</sup> Work Type Code D	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3576' GR
<sup>16</sup> Multiple	<sup>17</sup> Proposed Depth 3785'	<sup>18</sup> Formation	<sup>19</sup> Contractor	<sup>20</sup> Spud Date

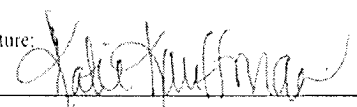

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11	8 5/8	24	395	400	Circ. To Srf
7 7/8	5 1/2	17	4020	1000	100' CBL

<sup>22</sup> 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. \*PLEASE SEE ATTACHED PROCEDURE

1. MIRR PULLING UNIT
2. TH W/BIT & DO CIBP @ 3650'
3. SET CR @ 2645
4. EST. PMP IN RATE, POSSIBLY SQZ w/200 ss cmt.
5. STING OUT OF CR
6. SET CIBP @ 3400'
7. TH W/TBG & WHIPSTOCK, SET WHIPSTOCK ON TOP OF CIBP
8. MILL OUT WINDOW
9. TH W/BIT, DRILL NO DEEPER THAN 3785'
10. CIRC CLEAN
11. TH W/TBG & PKR, SWAB ON TEST
12. TH W/BOX TAP & RETRIEVE WHIPSTOCK, DO CIBP
13. RUN PROD. EQUIP & PUT ON TEST

Permit Expires 2 Years From Approval  
Date Unless Drilling Underway  
Plugback

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: 		Approved by: 	
Printed name: KATIE KAUFFMAN		Title: PETROLEUM ENGINEER	
Title: ENGINEERING TECH		Approval Date: NOV 24 2010	Expiration Date: NOV 24 2011
E-mail Address: KATIE.KAUFFMAN@APACHECORP.COM			
Date: 11/1/2010	Phone: 432.818.1065	Conditions of Approval Attached <input type="checkbox"/>	

11/24/10

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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 July 16, 2010

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-38316	<sup>2</sup> Pool Code 23000	<sup>3</sup> Pool Name EUNICE MONUMENT; GRAYBURG-SAN ANDRES
<sup>4</sup> Property Code 302708	<sup>5</sup> Property Name NM GSAU	<sup>6</sup> Well Number 362
<sup>7</sup> OGRID No. 873	<sup>8</sup> Operator Name Apache Corporation	<sup>9</sup> Elevation 3576'

<sup>10</sup> Surface Location

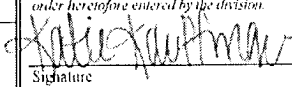
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	20S	36E		2515	N	10	E	LEA

<sup>11</sup> 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
H	2	20S	36E		2415	N	10	E	LEA

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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					<sup>17</sup> <b>OPERATOR CERTIFICATION</b> <i>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> <div style="text-align: right;">  11/1/2010              Signature Date              KATIE KAUFFMAN              Printed Name              KATIE.KAUFFMAN@APACHECORP.COM              E-mail Address           </div>
					<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <i>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.</i>  Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number

## NMGSAU #362

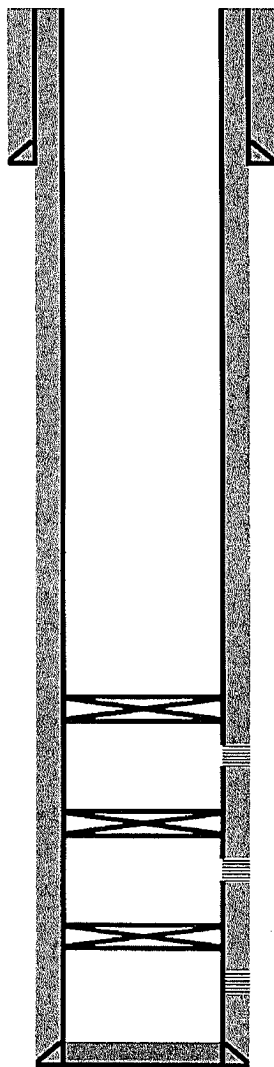
### Procedure

- 1) MIRU Pulling Unit
  - 2) TIH w/4 3/4" bit on 2 7/8" workstring with drill collars & drill out CIBP @ 3650'. Push plug to at least 3805'. Circulate well clean. TOH.
  - 3) TIH w/tubing & cement retainer. Set retainer @ 3645'.
  - 4) Establish pump in rate & squeeze w/200 sx low fluid loss cement. Hesitate squeeze if low pressure is encountered.
  - 5) Sting out of retainer & circulate clean. TOH.
  - 6) Set CIBP at 3400' (Directional plan being finalized) on wireline
  - 7) TIH w/tubing & whipstock. Set whipstock on top of CIBP. Orientation is not required.
  - 8) Mill out window. TOH
  - 9) TIH w/bit, directional assembly and drill collars with PH6 tubing in openhole section. Ensure collars will stay in vertical section. Drill no deeper than 3785' TVD based upon openhole log of #362. Utilize Easy Mud or equivalent.
  - 10) Circulate well clean & TOH
  - 11) TIH w/tubing & packer. Swab on test
  - 12) If justified, acidize well w/3000 gallons 15% HCl at 2 -3 BPM.
  - 13) Flow well back
  - 14) TOH
  - 15) TIH w/box tap and retrieve whipstock. TOH
  - 16) TIH w/bit and collars and drill out CIBP. TOH
  - 17) Run production equipment.
  - 18) Place well on test.
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# Moient wellbore

<b>Apache Corporation</b>			
Author:	Stroup	Well No.	362
Well Name	NMGSAU	API #:	30-025-38316
Field	Monument	Prop #:	31324401
County	Lea	Zone:	Grayburg
State	New Mexico		
Date	9/10/2010		
GL	3630'		
KB	3641'		

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	8 5/8	J-55	24.00	395	400	surface
Inter Csg						
Prod Csg	5 1/2	J-55	17.00	4,020	1,000	surface
Liner						



TOC @ surface

11" hole

8 5/8" (J55 - 24#) @ 395'

7-7/8" hole

CIBP @ 3650' w/2 sx

3665-72, 3697-3700, 3751-56, 3762-72, 3790-3800

CIBP @ 3812'

3817-25, 3848-52

CIBP @ 3865'

3870-74, 3894-3900, 3916-20

PBTD @ 3967'

Perforations

TA

PBTD @ 3967'

TD @ 4020'

TD @ 4020'

5 1/2" (J55 - 17#) @ 4020' w/1000 sx