

DATE IN 7/1/11	SUSPENSE SA	ENGINEER WVT	LOGGED IN 7/1	TYPE DHC	APP NO PUNK/118248317
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Beverly Hatfield
Print or Type Name

Signature

SR ENGR TECH
Title

7/1/2011
Date

Beverly.Hatfield@apachecorp.com
e-mail Address

District I
1625 N French Drive, Hobbs, NM 88240

District II
1301 W Grand Avenue, Artesa, NM 88210

District III
1000 N Main Road, Artesa, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-107A
Revised June 10, 2003

APPLICATION TYPE
Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation 303 Veterans Airpark Lane Suite 3000 Midland TX 79705
Operator Address
APACHE STATE Q 009 I 16 20S 37E LEA
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 873 Property Code 35591 API No. 30-025-39906 Lease Type: Federal X State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	MIDDLE ZONE
Pool Name	MONUMENT; TUBB (oil)	WEIR; DRINKARD (oil)	SKAGGS; GLORIETA, NW (oil)	WEIR BLUEBAY
Pool Code	47090	63840	5090-5164	63780
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	6444-6556	6616-6908	5090-5164	5794-5868
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT	ARTIFICIAL LIFT	ARTIFICIAL LIFT	✓
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	NA	NA	NA	NA
Oil Gravity or Gas BTU (Degree API or Gas BTU)	38.7	38.7	38.7	38.7
Producing, Shut-In or New Zone	NEW ZONE	PRODUCING	NEW ZONE	NEW ZONE
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: EST. 41 BO Rates: 94 MCF 170 BW	Date: 5-24-2011 22 BO Rates: 54 MCF 160 BW	Date: EST. 31 BO Rates: 3 MCF 61 BW	41° 9° 150W 30% / 56W
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 30 % 59 %	Oil Gas 17 % 34 %	Oil Gas 23 % 2 %	

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No
Will commingling decrease the value of production? Yes No ☒
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes No
NMOCD Reference Case No. applicable to this well:

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
Production curve for each zone for at least one year. (If not available, attach explanation.)
For zones with no production history, estimated production rates and supporting data
Data to support allocation method or formula
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
Any additional statements, data or documents required to support commingling

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

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

SIGNATURE Beverly Hatfield TITLE Sr. Engineering Tech DATE 07/01/2011

TYPE OR PRINT NAME Beverly Hatfield TELEPHONE NO. (432) 818-1906

E-MAIL ADDRESS BeverlyHatfield@apachecorp.com

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

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

District III
1000 Rio Brazos Road, Artesia, NM 88210

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

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

APPLICATION TYPE
Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation 303 Veterans Airpark Lane Suite 3000 Midland TX 79705
Operator Address
APACHE STATE Q - (PAGE 2) 009 I 16 20S 37E LEA
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 873 Property Code 35591 API No. 30-025-39906 Lease Type: Federal ☒ State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	WEIR; BLINEBRY (oil)		
Pool Code	63780		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5794-5868		
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	NA		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	38.7		
Producing, Shut-In or New Zone	NEW ZONE		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: EST. 41 BO Rates: 9 MCF 150 BW	Date: Rates:	Date: Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 30 % Gas 5 %	Oil % Gas %	Oil % Gas %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No
Will commingling decrease the value of production? Yes No ☒
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes No
NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE Beverly Hatfield TITLE Sr. Engineering Tech DATE 07/01/2011
TYPE OR PRINT NAME Beverly Hatfield TELEPHONE NO. (432) 818-1906
E-MAIL ADDRESS BeverlyHatfield@apachecorp.com

Jones, William V., EMNRD

From: Hatfield, Beverly [Beverly.Hatfield@apachecorp.com]
Sent: Friday, July 01, 2011 9:47 AM
To: Jones, William V., EMNRD
Subject: DHC APPLICATION STATE Q 9
Attachments: STATE Q 9 DHC C 107 .pdf

Importance: High

HAPPY HOLIDAY! PLEASE SEE ATTACHED. The Engineer has scheduled work to begin mid-July.

Thank you.

Bev



BEV HATFIELD

432-818-1906

Beverly.Hatfield@apachecorp.com



July 01, 2011

Mr. Will Jones
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505-4225

RE: Application for Exception for Downhole Commingling
APACHE STATE Q #9 - 30-025-39906
Unit I, Section 16, T-20-S, R-37-E
Tubb, Drinkard, Glorieta & Blinbry Pools
Lea County, New Mexico

Dear Mr. Jones:

Enclosed please find form C-107A and attachments for downhole commingling the captioned well. The ownerships (WI, NRI and ORRI) of these pools are identical in this wellbore. The fluids from each of these pools are compatible as seen in other similar commingles in the area. Combining these fluids will not result in any damage to these pools nor will it reduce the value of the total remaining production. Commingling will improve the efficiency of present and future recovery operations. Cross flow will not be a problem due to having a production lift system capable of keeping the well pumped off thereby maximizing production.

The subtraction allocation method used for this well. There was no Glorieta production in a nine section area of review surrounding this well. Supporting documentation from previous DHC is shown on the attached spreadsheet. Production for active and inactive wells was grouped by pool in the area of review. The totals for each phase were then divided by the number of wells associated with this pool yielding an average. This average was used to determine the percentage allocation. The area of review used encompasses what has been accepted as a good statistical representation for allocation purposes. By using this allocation method all zones will be brought online in a more effective and efficient manner. This will in turn generate a higher productive rate and quicker revenue streams not only for the operator but for the State of New Mexico too.

If you need additional information or have any questions, please give me a call at (432) 818-1906.

Sincerely,

A handwritten signature in cursive script that reads "Bev Hatfield".

Bev Hatfield
Sr. Staff Engineering Technician

DISTRICT I
1626 N. FRENCH DR., HOODS, NM 88210

DISTRICT II
1361 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 42-025-39906	Pool Code 42090	Pool Name Monument, Tubo
Property Code 35591	Property Name APACHE STATE Q	Well Number 9
GRID No. 873	Operator Name APACHE CORPORATION	Elevation 3530'

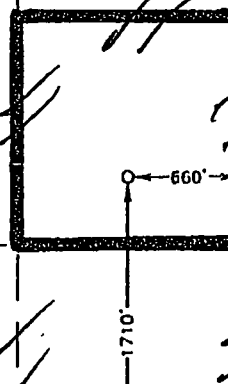
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	16	20-S	37-E		1710	SOUTH	660	EAST	LEA

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
Dedicated Acres 80		Joint or Infill	Consolidation Code	Order No.					

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

<p>GEODETTIC COORDINATES NAD 27 NME</p> <p>Y=572930.3 N X=833879.6 E</p> <p>LAT.=32.570419° N LONG.=103.249548° W LAT.=32°34'14" N LONG.=103°14'58" W</p> 	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><u>Serina L. Flores</u> 9/20/10 Signature Date</p> <p><u>Serina L. Flores</u> Printed Name</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>APPROVED 2010 Data Surveyed Signature & Seal of Professional Surveyor <u>Ronald E. Benson</u> 8/26/2010 Certificate No. <u>RONALD BENSON</u> 3239</p>

DISTRICT I
1025 N. FRANCIS DR., ALBUQUERQUE, NM 87102

DISTRICT II
1301 W. GRAND AVENUE, ALBUQUERQUE, NM 87102

DISTRICT III
1000 Rio Urazon Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

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Energy, Minerals and Natural Resources Department

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 42-025-39906	Pool Code 63840	Pool Name Weir, Drinker
Property Code 35591	Property Name APACHE STATE Q	Well Number 9
GRID No. 813	Operator Name APACHE CORPORATION	Elevation 3530'

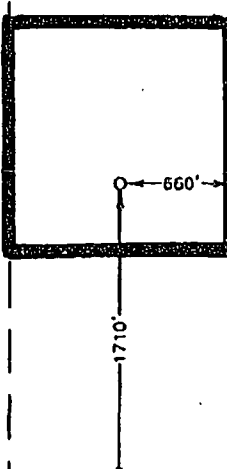
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	16	20-S	37-E		1710	SOUTH	660	EAST	LEA

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
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

<p>GEODETIC COORDINATES NAD 27 NME Y=572930.3 N X=833879.6 E LAT.=32.570419' N LONG.=103.249548' W LAT.=32°34'14" N LONG.=103°14'58" W</p>		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Sorinda Flores</i> 9/20/10 Signature Date Sorinda L. Flores Printed Name</p>
		<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>DATE SURVEYED: AUGUST 20, 2010 SIGNATURE: <i>Ronald E. Zinson</i> PROFESSIONAL SURVEYOR: RONALD E. ZINSON CERTIFICATE NO.: 3239</p>

DISTRICT I
1628 N. FRANCIS DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTERIA, NM 88210

DISTRICT III
1000 Rio Orazon Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

JW
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Revised October 12, 2005
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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 42-025-39906	Pool Code -	Pool Name SKAGGS, Gloria; NW
Property Code 3559.1	Property Name APACHE STATE Q	Well Number 9
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3530'

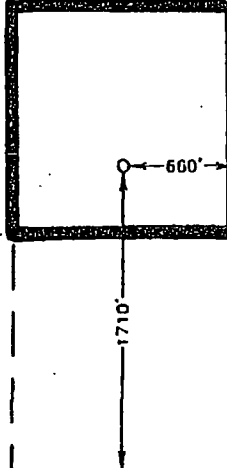
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	16	20-S	37-E		1710	SOUTH	660	EAST	LEA

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
Dedicated Area 40		Joint or Infill	Consolidation Code		Order No.				

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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=572930.3 N X=833879.6 E</p> <p>LAT.=32°57'01.19" N LONG.=103°24'54.8" W LAT.=32°34'14" N LONG.=103°14'58" W</p> 	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Sorina L. Flores</i> 9/20/10 Signature Date</p> <p>Sorina L. Flores Printed Name</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>APPROVED 2010 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald E. Eison</i> 8/26/2010 10.1.1.239 Certificate No. RONALD EISON 3239</p>
--	---

DISTRICT I
1628 N. FRANCIS DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Grason Rd., Aztec, NM 87410

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1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 42-025-39906	Pool Code 6.3780	Pool Name Weir, Blueberry
Property Code 35591	Property Name APACHE STATE Q	Well Number 9
GORID No. 873	Operator Name APACHE CORPORATION	Elevation 3530'

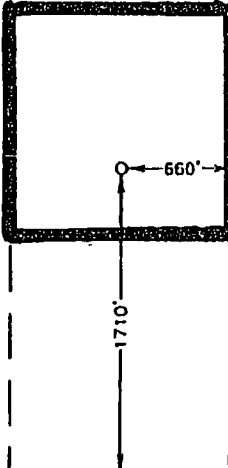
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	16	20-S	37-E		1710	SOUTH	660	EAST	LEA

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
Dedicated Acres		Joint or Infill	Consolidation Code		Order No.				

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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=572930.3 N X=833879.6 E</p> <p>LAT.=32°57'04.19" N LONG.=103°24'54.8" W LAT.=32°34'14" N LONG.=103°14'58" W</p> 	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Sorina L. Flores</i> 9/20/10 Signature Date</p> <p>Sorina L. Flores Printed Name</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>ACQUITTION 2010 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald E. Eison</i> 8/26/2010 10.11.1239 Certificate No. RONALD EISON 3239</p>
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6/8/11

Lessee Name	Well Number	10-DIGIT API	SPRINT Location	Drinkard	Abso	Drinkard	Abso	Drinkard	Abso	Drinkard	Abso
J W COOPER G	3	3002505871	3E 20S 37E NW SW NW	2382		4903					
ADKINS	5	3002505902	5M 20S 37E							43850	
BERTHA BARBER	9	3002505814	8E 20S 37E								
BERTHA BARBER	10	3002505915	5L 20S 37E								
BRITT B	2	3002505824	5N 20S 37E								
T ANDERSON	3	3002506003	8K 20S 37E								
T ANDERSON	4	3002506004	8K 20S 37E								
BRITT B	2	3002505807	8C 20S 37E NE NE NW								
BERTIE WHITMIRE	5	3002506018	8F 20S 37E								
BERTIE WHITMIRE	6	3002506018	6M 20S 37E SW NW NE		36788		190568			62383	
BERTIE WHITMIRE	8	3002506018	8F 20S 37E		26170		184884			79683	
BERTHA J BARBER	9	3002506023	6D 20S 37E NW NW								
BERTHA J BARBER	10	3002506024	8E 20S 37E SW NW								
BERTHA J BARBER	11	3002506025	8L 20S 37E NW SW								
T ANDERSON	3	3002506031	6J 20S 37E NW SE								
L VAN ETEN	8	3002506048	8P 20S 37E								
BRITT B	9	3002506108	15J 20S 37E	281578	46473	3357547	728043	19707	9480	14500	
BRITT B	10	3002506109	15F 20S 37E SE NW	177763	2434	4173816	35808	2782	22782	6748	
BRITT B	11	3002506110	15H 20S 37E	208080		673283		118804			
BRITT B	12	3002506111	15E 20S 37E	191207		2392141		118872			
BRITT B	10	3002506112	15D 20S 37E	25549		818801		32700			
BRITT B	14	3002506113	15L 20S 37E	146489		881426		5307			
SEMU BRITT	61	3002506114	16P 20S 37E		3870		278325			1467	
SEMU TUBB	70	3002506115	15I 20S 37E	81629	104467	894135	3418180	68178	470821		
STATE O	1	3002506116	14J 20S 37E W2 NW SE	59223		220345		28053			
HANSEN STATE	3	3002506126	18A 20S 37E W2 NE NE			2337		477	2480		
HANSEN STATE	5	3002506128	18H 20S 37E	78711		208585		60047			
BRITT B	18	3002520080	10N 20S 37E	115333		807459		9918			
BRITT B	19	3002520112	18R 20S 37E	168818		563131		31881			
L VAN ETEN	11	3002520217	9I 20S 37E C NE SE	49230		768564		12148			
BRITT B	20	3002520299	10I 20S 37E SW NW SW	168128		814358		8673			
APACHE STATE O	4	3002520350	18I 20S 37E C NE SE	80228		587481		18187			
BARBER ADKINS	1	3002520438	8D 20S 37E C NW NW	12581		136884		20332			
J W COOPER	1	3002520452	3F 20S 37E	214342		3271888		18405			
HANSEN STATE	8	3002520538	14G 20S 37E E2 SW NE	23027		90867		5897			
ELLEN WEIR	1	3002520589	3L 20S 37E	1908							
BRITT B	23	3002520640	3K 20S 37E	22550		97008		3438			
BRITT B	21	3002520640	10J 20S 37E	148885		1026460		16700			
SEMU BLINERRY TUBB	85	3002520655	18H 20S 37E	162781		754187		31560			
E H B PHILLIPS B	1	3002520934	10F 20S 37E	202280		2110348		14783			
E H B PHILLIPS B	2	3002520935	10G 20S 37E	88678	38881	928515	354448	12793	8981		
E H B PHILLIPS C	1	3002521062	10A 20S 37E	9777		28634		751			
BRITT B	22	3002521064	10P 20S 37E	168608		770895		104293			
LAUGHLIN	1	3002521852	8H 20S 37E	53887		462228		91889			
BRITT PHILLIPS	1	3002521663	10E 20S 37E	24176		1093722		5219			
L VAN ETEN	12	3002521773	8O 20S 37E NW SW SE	3138		1098982		12664			
V LAUGHLIN	4	3002521928	8A 20S 37E	39976		172689		7415			
T ANDERSON	4	3002525282	8I 20S 37E	1781		8000		19238			
BRITT B	26	3002526486	15M 20S 37E	47354		221652		121654			
BRITT B	27	3002526841	15Q 20S 37E		45788	142018	548218	7522368	24487	12341	
ANDERSON	1	3002526982	8O 20S 37E SW SE	12880		28948		161788			
BRITT B	28	3002526470	15K 20S 37E NE NE SW	13873	2824	3917	241829	385173	252835	58748	42872
COOPER	1	3002526527	3 20S 37E C NW NE	2591		1748439		1344			
GENERAL G STATE	3	3002526865	18D 20S 37E NW NW NW	2518		56419		46885			
L VAN ETEN	13	3002521727	8K 20S 37E SE NE SW	821		364784		2887		8342	
L VAN ETEN	14	3002525218	9M 20S 37E NE SW SW	1884		14068		188778	18214	25698	
L VAN ETEN	15	3002523880	9N 20S 37E N2 SE SW								
L VAN ETEN	16	3002523881	8L 20S 37E								
E H B PHILLIPS B	3	3002533015	10C 20S 37E C NE NW	1134		8288		1188			
W H LAUGHLIN	7	3002533141	8E 20S 37E	38990		391696		84255			
THEODORE ANDERSON	10	3002533238	8P 20S 37E								
STATE CC 16	1	3002533284	18C 20S 37E	1986		23309	63910	95278	6987	557143	
T ANDERSON	5	3002533296	8I 20S 37E								
STATE H	1	3002533667	2H 20S 37E		78258		239843			4504	
BRITT B	32	3002533906	10M 20S 37E C 6W SW		122388		950190			215080	
BERTHA BARBER	16	3002533819	5K 20S 37E NW NE SW	33442		88931	85788	317485	3104	1808	
HANSEN STATE	7	3002533987	18B 20S 37E		189972			686771		394248	
STATE A	1	3002533970	3 20S 37E			1818888			770		
STATE H	2	3002533971	3 20S 37E		131941		1876382			9137	
E H B PHILLIPS C	2	3002533988	19H 20S 37E			2865		471863		12343	
THEODORE ANDERSON	12	3002534021	8P 20S 37E SE SE SE		1848	21897		34617	438490	8642	48088
LAUGHLIN	2	3002534067	8Q 20S 37E SW SW NE	9783			116802		31187		
APACHE STATE O	7	3002534182	16J 20S 37E NE NW SE	19490		21877	22630	43381	18871	18907	
HANSEN STATE	8	3002534203	16G 20S 37E C SW NE			8789		249155			
BERTHA BARBER	17	3002534204	8F 20S 37E SW SE NW	85128		3182	890308	14332	10070	1245	
J COOPER	1	3002534206	3 20S 37E NW NE		130733			1881874	19262	2088	
STATE A3	3	3002534207	5I 20S 37E NE SE	28838			788927		21882		
THEODORE ANDERSON	14	3002534281	17A 20S 37E			3837		10278		4852	
HANSEN STATE	9	3002534286	16 20S 37E SE SE NE			14736		361315		8307	
J W COOPER	5	3002534282	3 20S 37E NE NW NE								
J COOPER	2	3002534285	3G 20S 37E SW NE		88828			677348		1408	
STATE A3	4	3002534308	3J 20S 37E NW SE			31537		559507		12008	
BERTHA BARBER	18Y	3002534327	5L 20S 37E SE NW SW	24837		3688	134888	70677	186989	29732	
W H LAUGHLIN	8	3002534341	9F 20S 37E NW SE NW		2643	18152		10622	178085	98345	14920
L VAN ETEN	19	3002534352	9 20S 37E SE SW SE	1930	191	8512	108	1327	180895	2884	8849

Lessee Name	Well Number	100' GFAPI	Location	Tubbs	Drinkard	Abs	Tubbs	Drinkard	Abs	Tubbs	Drinkard	Abs
STATE I	4	3002534964	16N 20S 37E NW SE SW	3962			26858			11058		
LAUGHLIN	1	3002534875	4N 20S 37E SW SE SW	31270	20627	4828	107399	71363	14213	10272	6266	1869
COOPER 3	6	3002536181	5Q 20S 37E SW SW NE	15927	17962		53312	59935		13564		15302
LAUGHLIN	2	3002536182	4L 20S 37E W2 NW SW	53947			388586			23714		
LAUGHLIN	3	3002535348	4Q 20S 37E SE SW SE	45594			117005			20970		
COOPER 5	7	3002535399	6H 20S 37E E2 SE NE	115239			642985			28552		
LAUGHLIN	4	3002535477	4J 20S 37E SW NW SE	103844			278745			35073		
LAUGHLIN	5	3002535584	4H 20S 37E SE SE NE	17415			86514			96480		
LAUGHLIN	6	3002535676	4P 20S 37E SW SE NW	24750			71062			26432		
LAUGHLIN 5	1	3002535627	5P 20S 37E NE SE SE	22975			156218			95139		
LAUGHLIN 5	2	3002535682	5J 20S 37E SE NW SE	55391			587465			27818		
LAUGHLIN	8	3002535670	4M 20S 37E SE SW SW	27770			116915			15609		
LAUGHLIN	7	3002535691	4K 20S 37E SW NE SW	30464			121277			29624		
COOPER 4	3	3002535693	4E 20S 37E SW SW NW	2297			2101			1558		
LAUGHLIN	9	3002535658	4I 20S 37E SE NE SE	21401			47552			57933		
COOPER 6	9	3002535993	5 20S 37E SE NW NE	24691			111841			90689		
LAUGHLIN 5	3	3002536000	5I 20S 37E NW NE SE	78188			852785			100787		
LAUGHLIN 5	4	3002536023	5Q 20S 37E N2 SW SE	88944			150742			21131		
COOPER 8	8	3002536044	5 20S 37E SW NE NE	63332			312844			311845		
BERTHA BARBER	21	3002536134	5 20S 37E SE NE NW	47229			584253			98633		
LAUGHLIN 8	1	3002536147	8A 20S 37E W2 NE NE	42768	13029		223213	44908		17817		8518
LAUGHLIN	10	3002536181	4P 20S 37E NW SE SE	23212			66545			65909		
BERTIE WHITMIRE	11	3002536331	8B 20S 37E W2 NW NE	47758			177109			77889		
COOPER 8	2	3002536529	8H 20S 37E NE SE NE	3307		39	16584			27301		1278
V LAUGHLIN	5	3002536875	9C 20S 37E N2 NE NW	4937		28290	10478	77943		2317		10375
BARBER AOKINS 8	2	3002538717	8L 20S 37E SW NW SW			10863		76854				29877
APACHE STATE Q	8	3002537287	10P 20S 37E NE SE SE	22481	15844		182988	138809		22157	13147	
STATE A 3	8	3002539220	3P 20S 37E E2 SE SE	1053			4747			54623		
HANSEN STATE	11	3002539562	16A 20S 37E			8584			15664			12801
V LAUGHLIN	7	3002539587	9Q 20S 37E NW NW NW			8172			10486			10858
TOTALS				4,370,464	813,458	798,268	41,439,808	11,162,292	11,613,726	3,165,679	847,871	1,394,443
AVERAGES				67,567	80,748	27,242	638,179	620,127	297,028	40,981	62,668	66,858

Proposed Allocations	Oil	Gas	Water
Tubbs	43%	34%	25%
Drinkard	37%	40%	35%
Abs	20%	26%	37%
TOTAL	100%	100%	100%



AFE No: TW- 10- 0421-C

State Q #9

API #: 30-025-39906

1650' FSL & 990' FEL

Section 16, Township 20S, Range 37E

Lea County, New Mexico

Completion Procedure –Tubb, Blinebry, Glorieta

June 15, 2011

Recommended Procedure:

Note: 5-1/2", 17#, J-55 & L-80 csg @ 7722' w/1,210 sx cmt (circ).
(986' L-80 csg on top). Marker Joint @ 5021'.

Burst L-80 @ 90% = 6966 psig

Burst J-55 @ 90% = 4788 psig

**Drinkard Perfs: 6616', 6618', 6626', 6628', 6756', 6758', 6764',
6766', 6802', 6804', 6822', 6824', 6830', 6832',
6902', 6904', 6906', 6908'**

Tubb:

1. MIRU PU. POOH with rods and pump. NU BOP. TOH with tubing.
2. MIRU wireline unit. Set composite plug @ 6590'. Load hole and pressure test CBP to 2000 psi.
3. ND BOP and WH. NU and test 5000 psi WH. Install frac valve and BOP.
4. Perforate Tubb formation @ 6444-6448', 6454-6458', 6474-6478', 6496-6500', 6514-6518', 6534-6538' and 6552-6556' w/1 spf, 120 deg phasing. Total = 35 shots.
5. RIH 2-7/8" tubing and packer. Spot acid over all perfs. Set packer @ +/- 6350'.
6. Acidize Tubb interval with 3,000 gals 15% NEFE HCL acid and ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix.
7. Release packer & run through perfs to knock off balls. TOH with tubing and packer. ND BOP.
8. RU frac equipment. Load hole with 10# gel slick water. Frac Tubb w/80,000# 20/40 Ottawa and 20,000# 20/40 SLC resin coated sand down 5-1/2" csg @ 40-50 BPM in 30# XL gel as per frac recommendation. Maximum treating pressure = 4800 psi.
9. Spot 1,500 gals 15% HCL across Blinebry interval 5794' – 5868' during Tubb frac flush.
10. RIH and set composite plug above the Tubb interval @ +/- 6350'. Pressure test CBP to 3000 psi.

Blinebry:

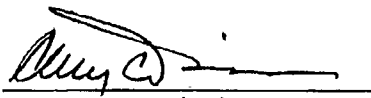
1. Perforate Blinebry formation @ 5794-5798' and 5858-5868' w/2 spf, 120 deg phasing. Total = 30 shots.

2. Acidize Blinebry w/3,000 gals 15% HCL with ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix. RIH w/junk basket to knock off balls.
3. Frac Blinebry w/60,000# 20/40 Ottawa sand and 20,000# 20/40 SLC resin coated sand down 5-1/2" csg @ 40-50 BPM in 30# XL gel as per frac recommendation. Maximum treating pressure = 4800 psi.
4. RIH and set composite plug above the Blinebry interval @ +/- 5700'. Pressure test CBP to 3000 psi. RD frac equipment. ND frac valve. Change out WH, NU BOP.

Glorieta:

1. Perforate Glorieta formation @ 5090-5094', 5108-5114', 5120-5124', 5130-5134', 5142-5146', 5152-5156' and 5160-5164' w/2 spf, 120 deg phasing. Total = 74 shots.
2. RIH 2-7/8" tubing and packer. Spot acid over all perms. Set packer @ +/- 5000'.
3. Acidize Glorieta interval with 4,000 gals 15% NEFE HCL acid and ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix.
4. Swab test Glorieta interval.
5. TOH with tubing and packer.
6. RIH w/2-7/8" tbg and bit. Drill out plugs and clean out to 6955' PBTD.
7. RIH w/production tubing. Land SN @ +/-6915'. ND BOP. NU WH. RIH w/1-1/2" pump & rods.
8. Place well on test.

Prepared by:


Gary C. Timmermann
6/15/2011



COMPENSATED PHOTO-DENSITY
COMPENSATED NEUTRON
SPECTRAL GAMMA RAY

COMPANY APACHE CORPORATION
WELL APACHE STATE Q #9
FIELD MONUMENT
PROVINCE/COUNTY LEA
COUNTRY/STATE U.S.A. / NEW MEXICO
LOCATION 1650' FSL & 990' FEL
SEC 16,T-20S,R-37E

SEC 16 TWP 20S RGE 37E Other Services
INDUCTION MICRO LOG

API Number 30-025-39906
Permit Number COMPENSATED SONIC

Permanent Datum G.L., Elevation 3551 feet
Log Measured From K.B. 11 FT. above Permanent Datum
Drilling Measured From K.B. Elevations: feet
KB 3562.00
DF 3561.00
GL 3551.00

Date	24-NOV-2010	
Run Number	ONE	
Depth Driller	7722.00	feet
Depth Logger	7728.00	feet
First Reading	7694.00	
Last Reading	200.00	
Casing Driller	4825.00	feet
Casing Logger	4825.00	feet
Bit Size	7.875	inches
Hole Fluid Type	FRESH	
Density / Viscosity	8.40 lb/USg	28.00 Sec/Qr
PH / Fluid Loss	8.00	
Sample Source	CIRC. TANK	
Rm @ Measured Temp	1.0 @ 75.0	ohm-m
Rmf @ Measured Temp	0.75 @ 97.0	ohm-m
Rmc @ Measured Temp	1.50 @ 97.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.66 @115.0	ohm-m
Time Since Circulation	12 HOURS	
Max Recorded Temp	115.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13239	4352
Recorded By	A. JOHNSON	J. ORTEGA
Witnessed By	BRET PEARCY	

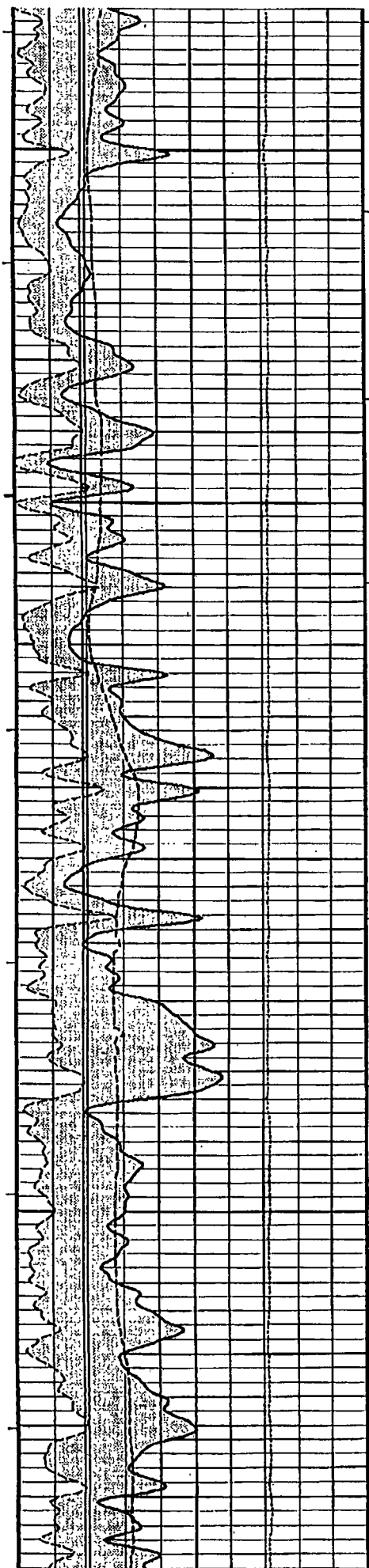
REMARKS

- 1) TOOLS RUN: MAI, MFE, MSS, SKJ, MPD, MDN, MML SGS, MCG RAN IN COMBINATION.
- 2) HARDWARE: TWO 0.5" STANDOFFS ON MSS
ONE 0.5" STANDOFF ON MAI
ONE ECCENTRIC BOWSPRING ON MDN
- 3) 2.71 GICC DENSITY MATRIX USED TO CALCULATE POROSITY.
- 4) ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- 5) TOTAL HOLE VOLUME FROM TD TO CASING = 1140 CU. FT.
- 6) ANNULAR VOLUME WITH 5.5" INCH PRODUCTION CASING = 670 CU. FT.
- 7) SERVICE ORDER #: 3525653
- 8) RIG: CAPSTAR 18
- 9) ENGINEERS: ADAM JOHNSON; JUAN ORTEGA
- 10) OPERATORS: ARTURO NEVAREZ; BRIAN ENLOE
- 11) BOREHOLE SIZE AND RUGOSITY AFFECT LOG QUALITY

BOREHOLE RECORD

BOREHOLE RECORD			Last Edited: 24-NOV-2010 19:18
Bit Size inches	Depth From feet	Depth To feet	
11.000	0.00	4825.00	
7.875	4825.00	7728.00	
CASING RECORD			
Type	Size inches	Depth From feet	Shoe Depth feet
			Weight pounds/ft

GLORIETA



100°

5100

100°

5150

100° 101°

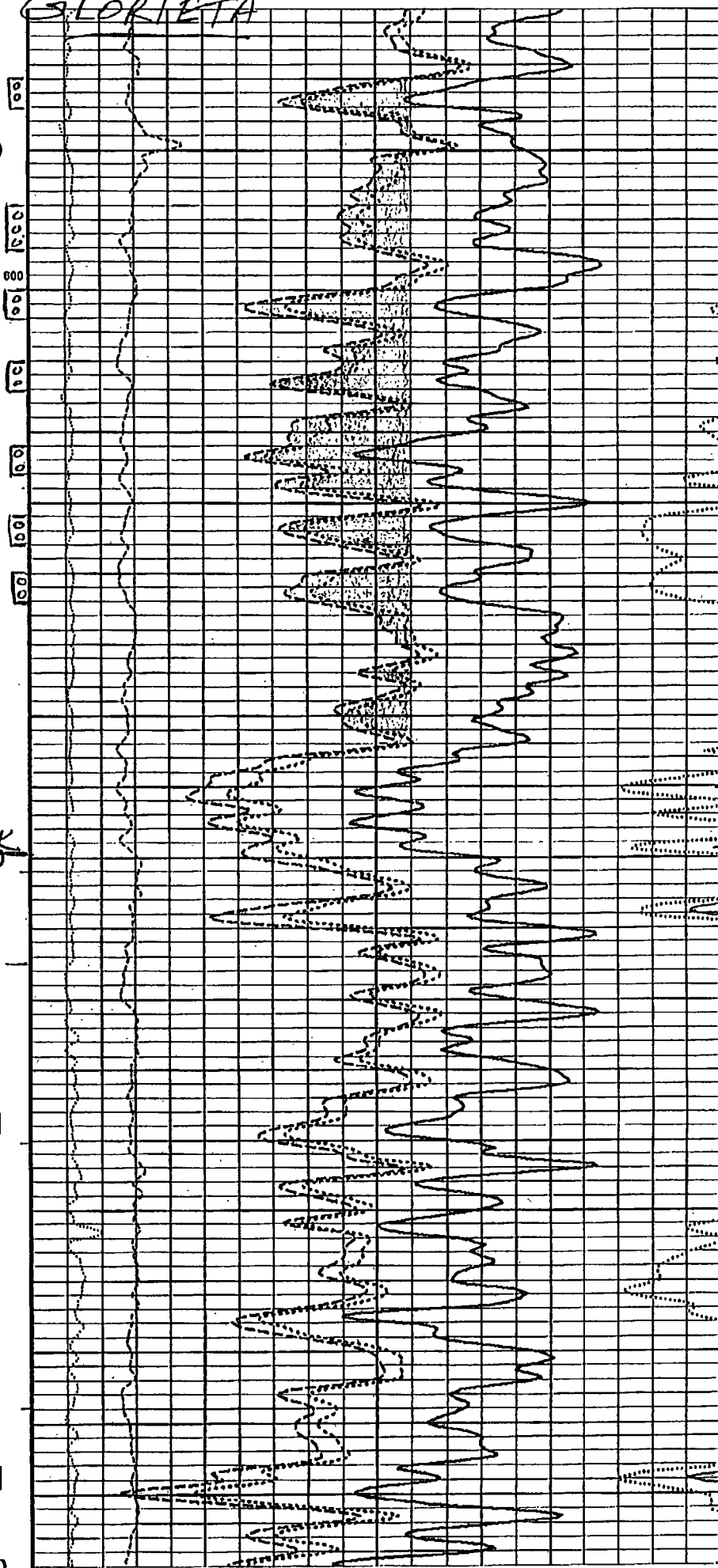
PDDK
5200

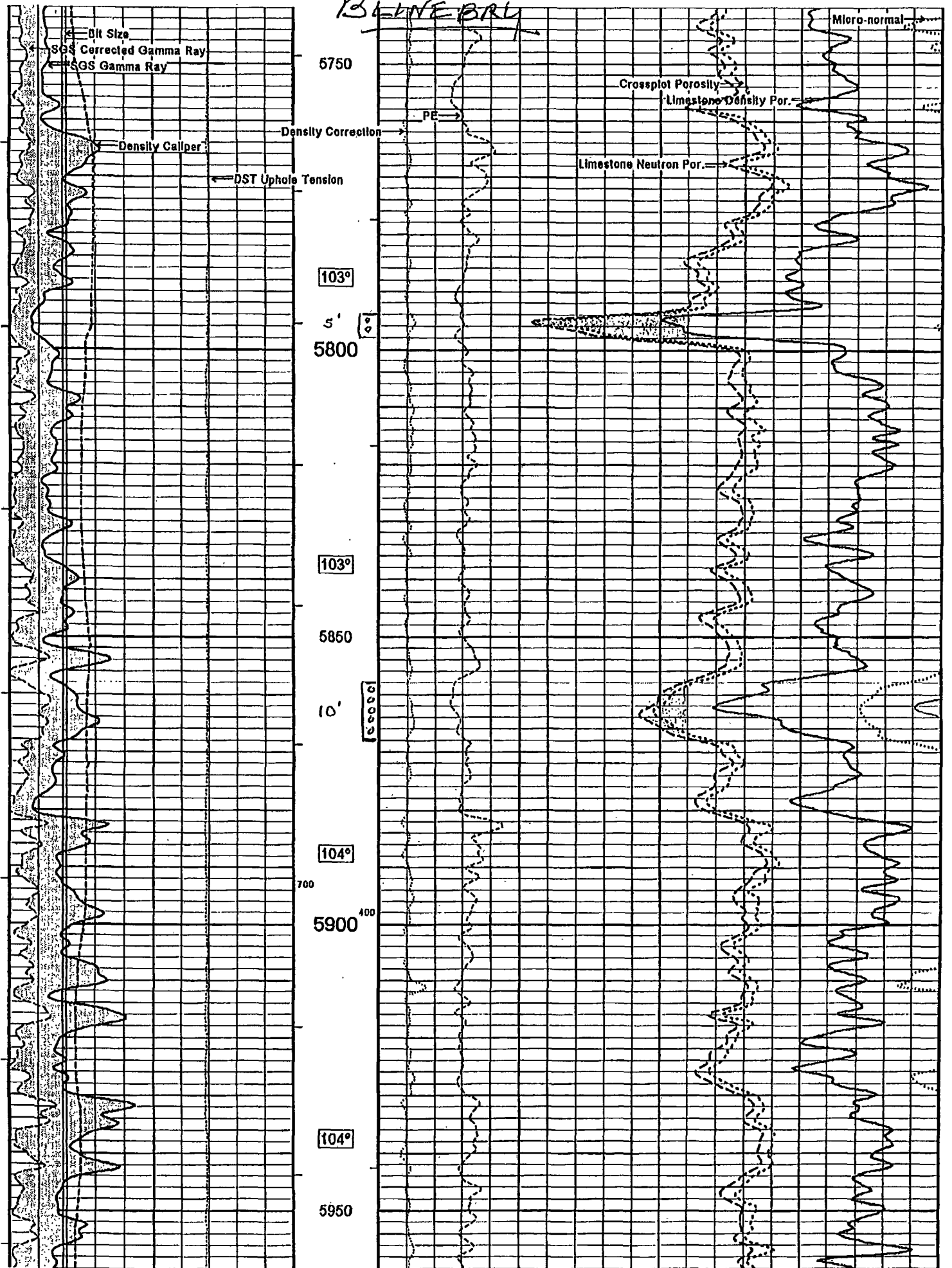
102°

5250

102°

5300





0400

500

108B

108°

6450

107°

6500

107°

107°

6600

DRNKD

Oil Size

SGS Corrected Gamma Ray

SGS Gamma Ray

Density Caliper

DST Uphole Tension

Densit 6550 section

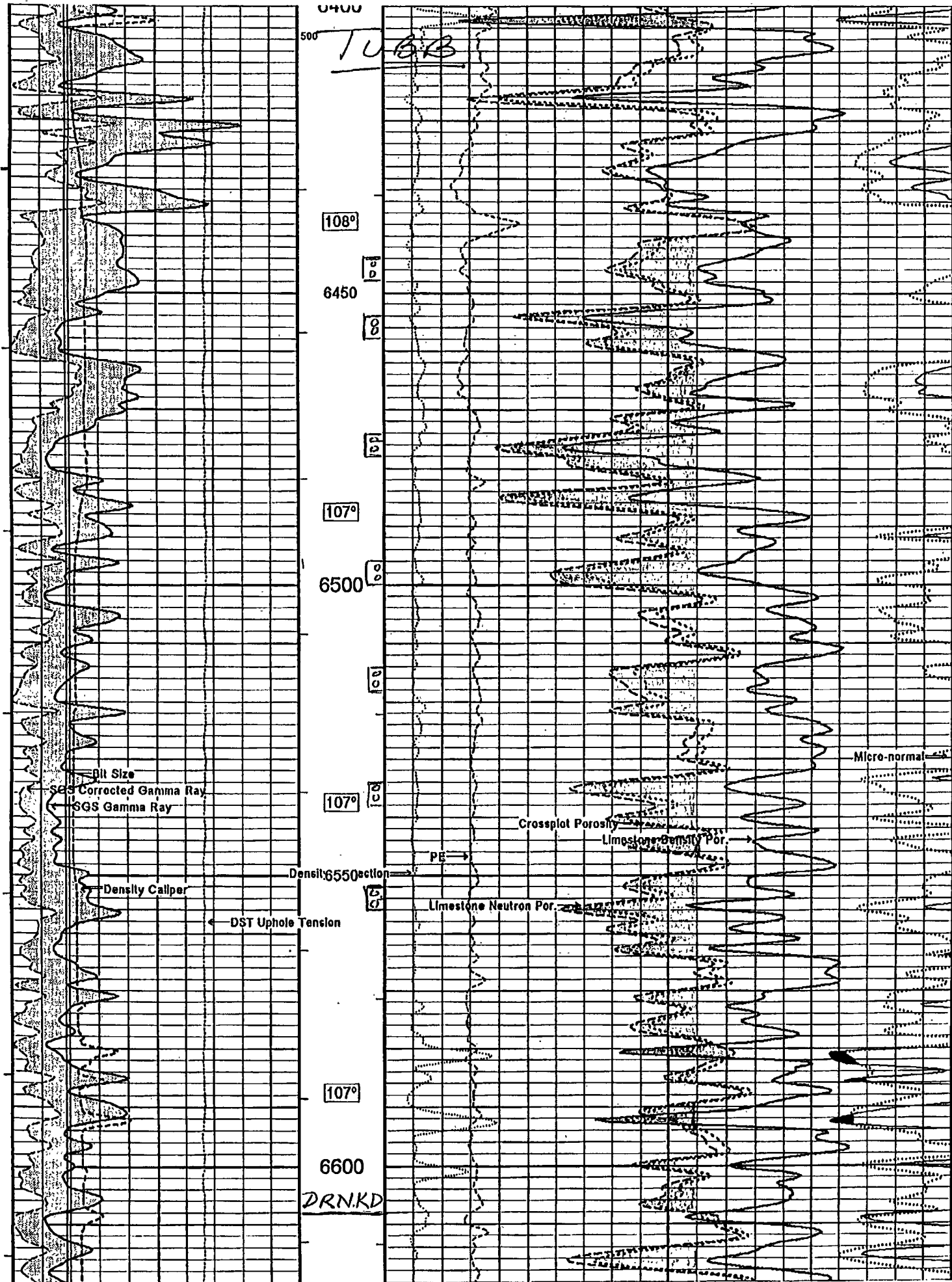
PE

Crossplot Porosity

Limestone Density Por.

Limestone Neutron Por.

Micro-normal



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

Form C-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☒ Permit ☐ Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

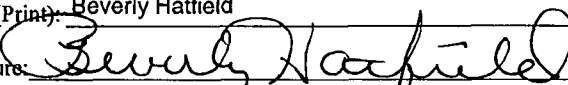
1.
Operator: Apache Corporation OGRID #: 873
Address: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705
Facility or well name: STATE Q
API Number: 30 025 39906 OCD Permit Number: _____
U/L or Qtr/Qtr I Section 16 Township 20S Range 37E County: LEA
Center of Proposed Design: Latitude 32.570419 Longitude 103.249548W NAD: ☒ 1927 ☐ 1983
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Operation: ☐ Drilling a new well ☒ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A
☐ Above Ground Steel Tanks or ☐ Haul-off Bins

3.
Signs: Subsection C of 19.15.17.11 NMAC
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
☒ Signed in compliance with 19.15.3.103 NMAC

4.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☒ Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____

5.
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.
Disposal Facility Name: SUNDANCE INCORPORATED Disposal Facility Permit Number: NM-01-0003
Disposal Facility Name: CRI Disposal Facility Permit Number: NM-01-0006
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
☐ Yes (If yes, please provide the information below) ☒ No
Required for impacted areas which will not be used for future service and operations:
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6.
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Beverly Hatfield Title: Sr. Engr Tech
Signature:  Date: 06/15/2011
e-mail address: Beverly.Hatfield@apachecorp.com Telephone: 432/818-1906

7.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: _____ Approval Date: _____

Title: _____ OCD Permit Number: _____

8.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ Closure Completion Date: _____

9.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

10.
Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____