

DATE IN 07/05/2013	SUSPENSE	ENGINEER PG	LOGGED IN 07/08/2013	TYPE DHC	APP NO. PAXK 1518936991
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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 Pre-existing DHC - 4590

30-043-21120
Logos Operating
Logos #2

2013 JUL - 5 P 2: 36
RECEIVED OCD

- [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.

Tamra Sessions Tamra Sessions Operations Tech 7/3/13
 Print or Type Name Signature Title Date
+sessions@logosresourcesllc.com
 e-mail Address

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised August 1, 2011

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

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

Logos Operating, LLC 4001 North Butler, Building 7101, Farmington, NM 87401

Operator Address
Logos #2 UL I, Sec. 6, T22N, R5W Sandoval

Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 289408 Property Code 311963 API No. 30-043-21120 Lease Type: Federal State Fee

Table with 5 columns: DATA ELEMENT, UPPER ZONE, INTERMEDIATE ZONE, INTERMEDIATE ZONE, LOWER ZONE. Rows include Pool Name, Pool Code, Top and Bottom of Pay Section, Method of Production, Bottomhole Pressure, Oil Gravity or Gas BTU, Producing, Shut-In or New Zone, Date and Oil/Gas/Water Rates of Last Production, and Fixed Allocation Percentage.

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

NMOC 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 Tamra Sessions TITLE Director of Admin and Eng. Support DATE 07/03/2013

TYPE OR PRINT NAME Tamra Sessions TELEPHONE NO. (505) 330-9333

E-MAIL ADDRESS tsessions@logosresourcesllc.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21120	² Pool Code 96905	³ Pool Name Wildcat Chacra (G)
⁴ Property Code 311963	⁵ Property Name Logos	⁶ Well Number 2
⁷ OGRID No. 289408	⁸ Operator Name Logos Operating, LLC	⁹ Elevation 6,901' GL

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
I	6	22N	5W	NESE	1,930	South	730	East	Sandoval

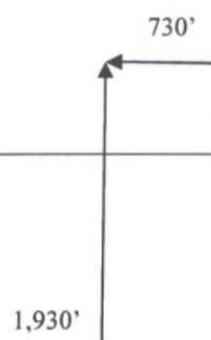
¹¹ Bottom Hole Location If Different From Surface

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 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

				¹⁷ OPERATOR CERTIFICATION	
				<p><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></p> <p style="text-align: right;"><i>Tamra Sessions</i> 7/03/2013 Signature Date</p> <p>Tamra Sessions Printed Name</p> <p>tsessions@logosresoucesllc.com E-mail Address</p>	
				¹⁸ SURVEYOR CERTIFICATION	
				<p><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></p> <p style="text-align: right;">10/22/12 Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>This survey uses the exact footages on the original survey filed for the Logos No. 2 with the NMOCD - said survey was completed by Jason C. Edwards - Certificate 15269</p> <p>Certificate Number</p>	



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1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 426-1460 Fax: (505) 426-3462

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 30-043-21120		² Pool Code 62490		³ Pool Name VENADO MESA VERDE	
⁴ Property Code 39236		⁵ Property Name Logos			⁴ Well Number 2
⁷ OGRID No. 287123		⁸ Operator Name Logos Capital Management, LLC			⁹ Elevation 6,981'

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
1	6	22N	5W	NESE	1,930	South	730	East	Sandoval

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.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

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>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 leased 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.</p> <p>Signature: <i>[Signature]</i> Date: 10/22/12</p> <p>John Austin Akers Printed Name ajakers@logosresourcecallc.com E-mail Address</p>
	<p>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.</p> <p>Date of Survey: 10/22/12</p> <p>Signature and Seal of Professional Surveyor:</p> <p>This survey uses the exact footages as the original survey filed for the Logos No. 2 with the NMOCED - said survey was completed by Jason C. Edwards - Certificate 15269</p> <p>Certificate Number</p>

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 Santa Fe, NM 87505

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 Revised August 1, 2011
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21120		² Pool Code 97989		³ Pool Name WC 22NSW6; GALLUP (O)	
⁴ Property Code 39236		⁵ Property Name Logos			⁶ Well Number 2
⁷ OGRID No. 287123		⁸ Operator Name Logos Capital Management, L.L.C.			⁹ Elevation 6,901'

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
1	6	22N	SW	NESE	1,930	South	730	East	Sandoval

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.
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	<p>¹⁷ OPERATOR CERTIFICATION</p> <p><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 mineral interest in the land including the proposed bottom hole location or has a right to drill this well at that 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></p> <p>Signature: Date: 10/22/12</p> <p>John Austin Akers Printed Name</p> <p>ajakers@logosresourcesllc.com E-mail Address</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p><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></p> <p>10/22/12 Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>This survey uses the exact footages as the original survey filed for the Logos No. 2 with the NMCRD. said survey was completed by Jason C. Edwards. Certificate 15269</i></p> <p>Certificate Number</p>

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21120		² Pool Code 97990		³ Pool Name WC 22N5W6; DAKOTA (O)	
⁴ Property Code 39236		⁵ Property Name Logos			⁶ Well Number 2
⁷ OGRID No. 287123		⁸ Operator Name Logos Capital Management, LLC			⁹ Elevation 6,901'

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
1	6	22N	5W	NESE	1,930	South	730	East	Sandoval

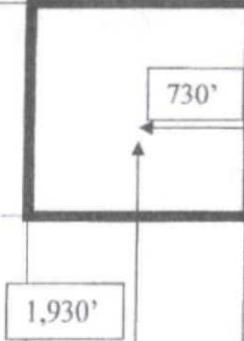
¹¹ Bottom Hole Location If Different From Surface

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.
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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.

						¹⁷ OPERATOR CERTIFICATION	
						<p><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 undivided 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></p> <p>Signature: <i>[Signature]</i> Date: 10/22/12</p> <p>John Austin Akers Printed Name</p> <p>ankers@logosresourcesllc.com E-mail Address</p>	
						¹⁸ SURVEYOR CERTIFICATION	
						<p><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></p> <p>10/22/12 Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>This survey uses the exact footages as the original survey filed for the Logos No. 2 with the NMOC/D said survey was completed by Jason C. Edwards- Certificate 15269</i></p> <p>Certificate Number</p>	



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
Jicarilla Apache Nation #424
6. If Indian, Allottee or Tribe Name
Jicarilla Apache

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator Logos Operating, LLC		8. Well Name and No. Logos #2
3a. Address 4001 North Butler, Building 7101 Farmington, New Mexico 87401	3b. Phone No. (include area code) 505-436-2627	9. API Well No. 30-043-21120
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1930' FSL & 730' FEL Section 6, Township 22N, Range 5W, UL 1		10. Field and Pool or Exploratory Area *Please see sundry summary for Pool information
		11. County or Parish, State Sandoval, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Recomplete</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Logos Operating, LLC proposes to recomplete into the Chacra interval at 2304' - 2368' and down hole commingle with the existing Mesaverde/Gallup/Dakota under DHC-4590. Please find attached the C-102 plat for the Chacra. The lower producing zones will be isolated prior to perf'ing and frac'ing the Chacra. A subsequent production allocation sundry will follow after completion of the new zone.

Pool Information:

WC 22N5W6; Dakota,
WC 22N5W6; Gallup,
Venado MesaVerde,
Wildcat Chacra

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
Tamra Sessions 	Title Operations Technician
Signature	Date 07/03/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



4001 N. Butler Ave
Farmington, NM 87401
Phone: (505) 215-8215
Fax: (303) 974-1767

July 3, 2013

By Email (isaacjulian@yahoo.com, shannonlargo@jicarillaoga.com, kurt.sandoval@bia.gov)

Jicarilla Oil & Gas Administration

Attn: Isaac Julian, Shannon Largo & Kurt Sandoval

#6 Dulce Rock Road
Dulce, NM 87528
(575) 759-3485

Re: Logos # 2 - Recomplete

Gentleman,

Logos Operating, LLC plans to recomplete into the Chacra interval of the Logos #2 (API 30-043-21120) and down hole commingle the production with the existing producing zones Mesaverde, Gallup, and Dakota. Work will not proceed until we receive down hole commingle approval for the new zone from the State of New Mexico. The recompletion will add production and revenue for this location.

Please let us know if you have any questions or concerns in relation to the construction of the location.

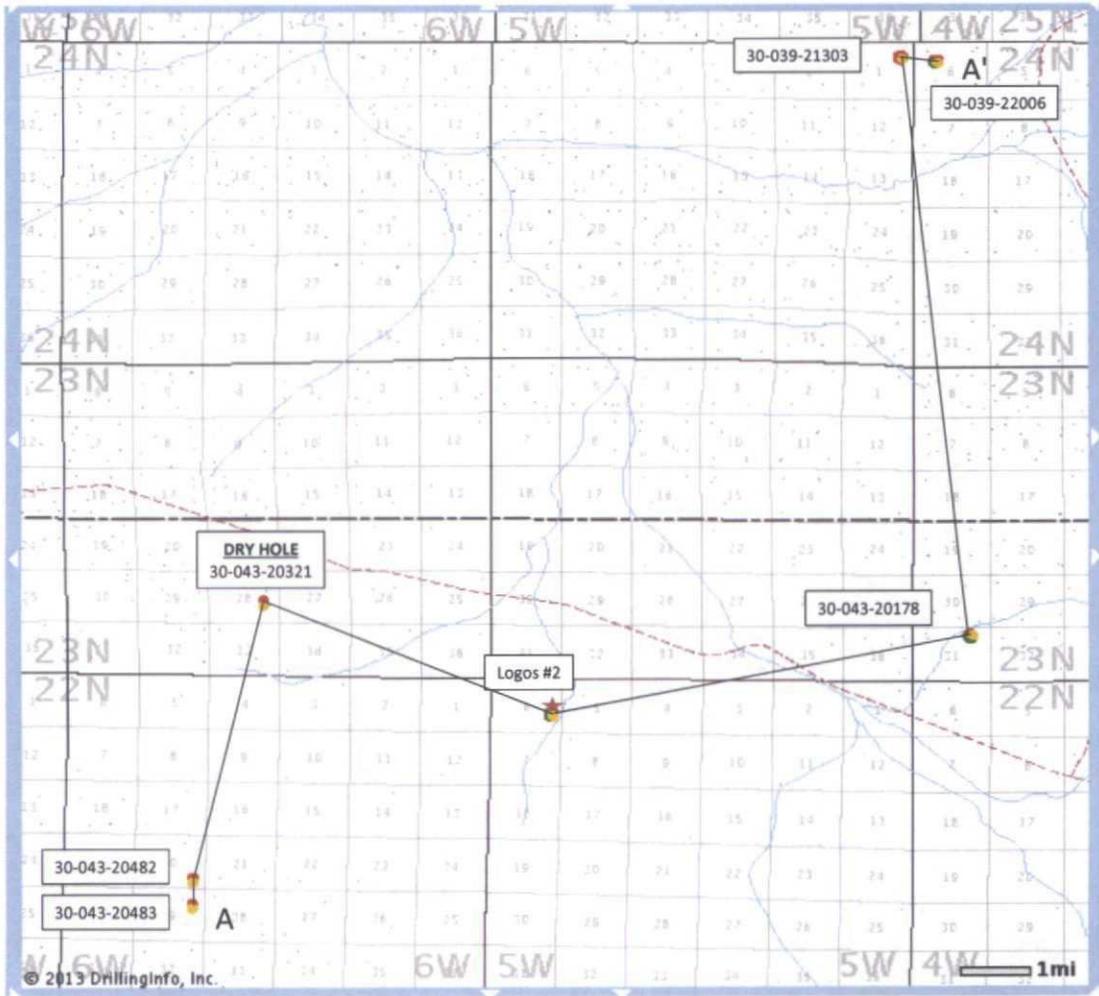
Best Regards,

Logos Operating, LLC

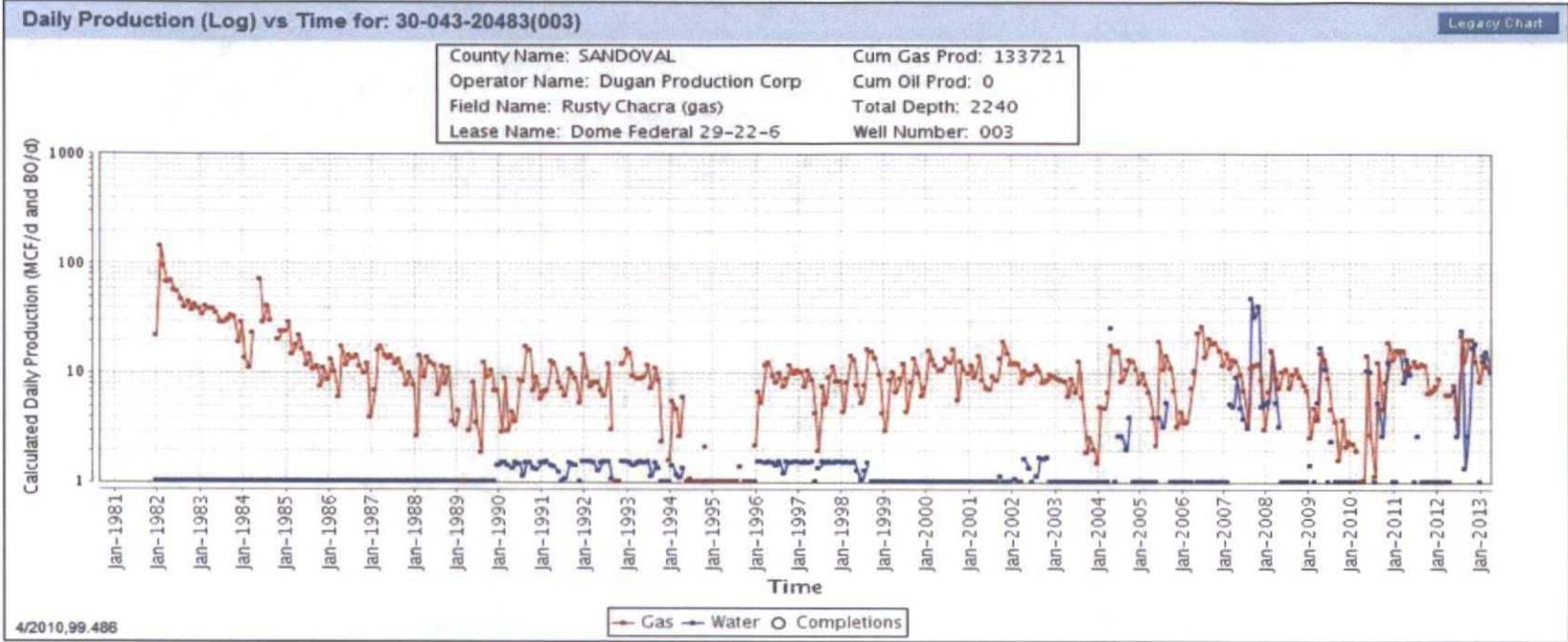
A handwritten signature in blue ink that reads "Tamra Sessions".

Tamra Sessions
Operations Technician

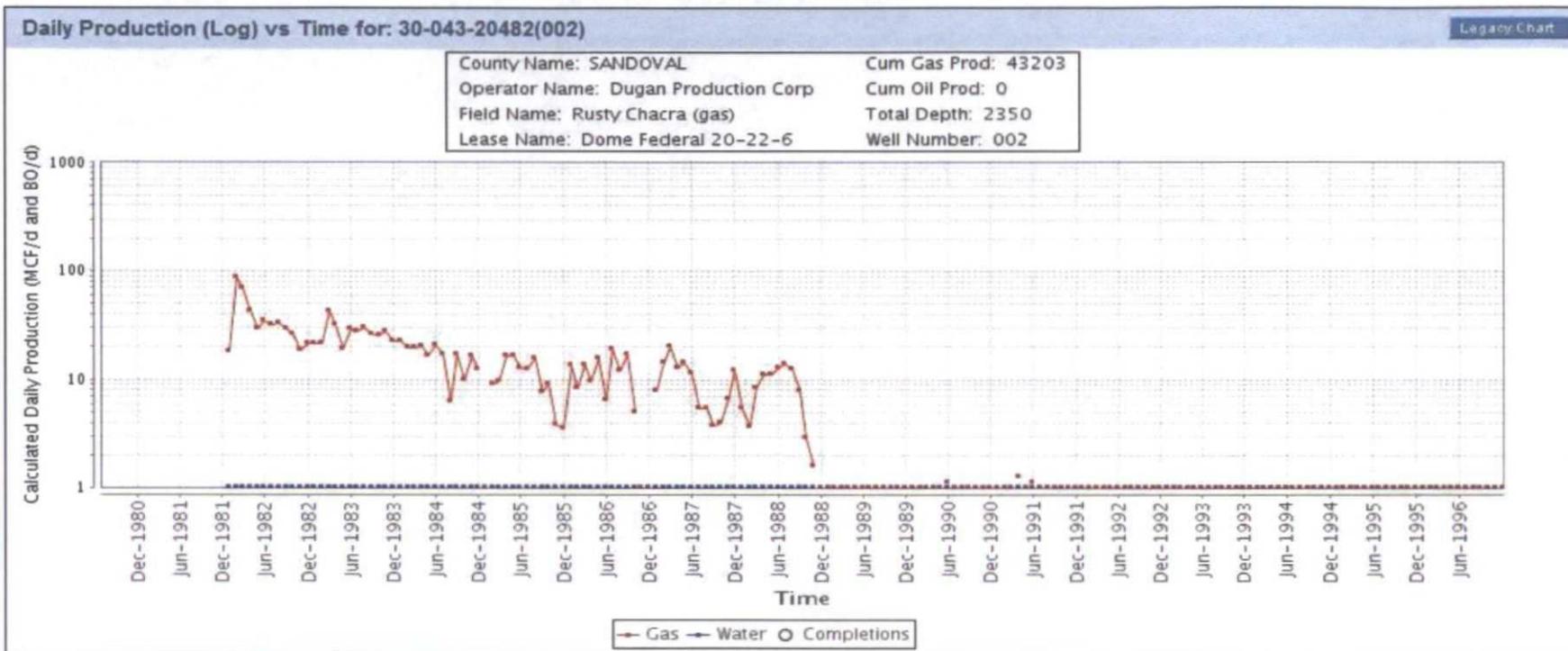
Logos 2 Chacra Potential Cross Section



Initial 24 Hour Rate:		
Oil (bbls)	Gas (mcf)	Water (bbls)
0	1265	0



Initial 24 Hour Rate:		
Oil (bbls)	Gas (mcf)	Water (bbls)
0	1050	0



30-043-20321

Initial 24 Hour Rate:		
Oil (bbls)	Gas (mcf)	Water (bbls)
Not reported	Not reported	Not reported

30-043-20178

Initial 24 Hour Rate:		
Oil (bbls)	Gas (mcf)	Water (bbls)
Not reported	15	Heavy Spray

EXHIBIT NO.
Merrion & Bayless
Case 5675
Jicarilla 428-2

Facts pertaining to co-mingling of production of ~~Chacon~~ *Chacra* gas with Pictured Cliffs gas inside 2-7/8" casing:

1. The ~~Chacon~~ *Chacra* Zone is extremely marginal and will not flow steady, making an estimated 15 MCF/da plus some water (less than 5 B/D).
2. It is estimated that after repair of a cement channel the Pictured Cliffs will I.P. for 1500 MCF/da with very little water.
3. Neither water exhibits scaling tendencies.
4. Shut in pressure for the Chacon Zone is 835 psig and for the Pictured Cliffs is 667 psig (based upon an adjacent well).
5. The ~~Chacon~~ *Chacra* Zone will not produce into the line but may contribute a little production if the co-mingled Pictured Cliffs gas is allowed to keep it unloaded.
6. Ownership of both zones is common except for a 3-1/3% ORR owned by Elliott A. Riggs to the base of the Pictured Cliffs. As per attached letter, Merrion & Bayless have agreed to pay Riggs the same ORR on the Chacon gas from this well. The result will be that all interests are common.

Note: This production allocation was completed shortly after the Chacra was completed.

30-043-20597

Initial 24 Hour Rate:		
Oil (bbls)	Gas (mcf)	Water (bbls)
Not reported	102	Not reported

Table No. 1
Production History
Ballymaloe #1 and Ballymaloe #2

<u>Ballymaloe #1</u>			
<u>Month</u>	<u>Days On</u>	<u>Gas Produced</u>	<u>Average MCFD</u>
9/83	20	191 Mcf	9.6
10/83	0	0	
11/83	0	0	
12/83	21	243	11.6
1/84	0	0	
2/84	0	0	
3/84	0	0	
4/84	7	3	0.4
5/84	9	196	21.8
6/84	30	623	20.8
7/84	31	634	20.5
8/84	31	525	16.9
9/84	30	556	18.5
10/84	<u>31</u>	<u>644</u>	20.8
Total	210	3,613	

Note: This well was completed 12/5/81