

0VKLI-200129-C-107B 651

Revised March 23, 2017

RECEIVED: 1/29/20	REVIEWER: DM	TYPE: PLC	APP NO: pDM2005752755
-------------------	--------------	-----------	-----------------------

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: LOGOS Operating, LLC **OGRID Number:** 289408
Well Name: Chaco 23 08 03 No. 1H (Multiple wells - see attached.) **API:** 30-045-35647 (See attached.)
Pool: Basin-Mancos Gas Pool **Pool Code:** 97232

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD
- B. Check one only for [I] or [II]
 [I] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☒ PLC ☐ PC ☐ OLS ☐ OLM
 [II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.

- A. ☐ Offset operators or lease holders
 B. ☒ Royalty, overriding royalty owners, revenue owners
 C. ☐ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☐ Notification and/or concurrent approval by BLM
 F. ☐ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application
 Content
 Complete

- 3) **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.

J. Scott Hall, Senior Attorney

Print or Type Name

Signature

January 29, 2020

Date

(505) 303-7236

Phone Number

shall@logosresourcesllc.com

e-mail Address



2010 Afton Place
Farmington, NM 87401
Phone: (505) 278-8720
Fax: (505) 326-6112

January 29, 2020

State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Application for administrative approval to authorize lease commingling, off-lease storage, and off-lease measurement at the Chaco 23 08 03 well pad facility located in SE/NE, Section 3, Township 23 North, Range 8 West, N.M.P.M., San Juan County, New Mexico

LOGOS Operating, LLC (LOGOS) (OGRID 289408) seeks approval to surface commingle production from various federal leases from the Basin Mancos Pool (97232); and off-lease storage and measurement.

- (a) The **323.2 acres** underlying Lots 1, 2, 3, 4 and S2/N2 of Section 3. Dedicated to the currently producing Chaco 23 08 03 1H (API 30-045-35647), Chaco 23 08 03 2H (API 30-045-35646), and the proposed Chaco 23 08 03 3H (API 30-045-38171).
- (b) The **323.44 acres** underlying Lots 1, 2, 3, 4 and S2/N2 of Section 2, and from the **80.28 acres** underlying Lot 4 and SW/NW of Section 1. Dedicated to the proposed Zeus 2308 03 4H (API 30-045-38179) and Omega 2308 03 5H (API 30-045-38180).

The surface commingle production from the separate leases will be at a common surface facility located in Section 3 on federal surface. The common surface facility is off-lease for the production from leases NM120374 and NM109397 for the proposed Zeus 2308 03 4H and Omega 2308 03 5H. Oil, gas and water production from each of the geographic areas will be separately metered using an orifice meter for gas, Coriolis meter for oil, and a turbine meter for water at this facility.

Well	API#	Federal Lease	Royalty Rate (%)	Pool
Chaco 23 08 03 1H	30-045-35647	NM018463	12.5	Basin Mancos (97232)
Chaco 23 08 03 2H	30-045-35646	NM018463	12.5	Basin Mancos (97232)
Chaco 23 08 03 3H	30-045-38171	NM018463	12.5	Basin Mancos (97232)
Zeus 2308 03 4H	30-045-38179	NM120374/NM109397	12.5	Basin Mancos (97232)
Omega 2308 03 5H	30-045-38180	NM120374/NM109397	12.5	Basin Mancos (97232)

From the individual wells, each flows to a unique production separator, at the separator outlet each well shall be separately metered before commingling with production from other wells. Gas is measured by orifice meter, oil is measured by Coriolis meter, and water is measured by turbine meter. Gas used in gas lift operation is also metered uniquely for each well by orifice meter. The gas used in gas lift operation (reinjecting for artificial lift) for each well is netted against the separator measured gas to calculate a net gas volume for each well.

Gas used on the site for production equipment (heaters, generators, engines) is measured by orifice meter and allocated to each well based on the net gas production allocation.

Gas recovered by the vapor recovery unit is measured by orifice meter, combined with the site gas stream and allocated to each well based on the oil production allocation, per the Coriolis meters.

After measurement by the individual well allocation meters and gas lift meters, the net gas for each well will be commingled prior to delivery to the gas pipeline gatherer where the gas is measured by the gatherer orifice delivery meters. Any gas returned for use on the site is measured by a gatherer return gas orifice meters. The gas delivered to the gatherer minus any gas returned by the gatherer will be allocated based on the gas allocation meter percentages.

After measurement by the individual well allocation meter, the oil will be commingled and stored in sealed tanks, tank levels are recorded by radar measurement. When tank volume is sufficient for delivery to the oil pipeline gatherer the oil is measured by the gatherer LACT meter. FIFO method per allocations.

The meters shall be calibrated in accordance with 19.15.12.10.C (2) NMAC, BLM 43 CFR 3174 and 3175 requirements.

LOGOS, anticipates the Chaco 23 08 03 #3H, Zeus 2308 03 #4H and Omega 2308 03 #5H will produce oil and gas in paying quantities, based upon ample evidence provided by wells in close proximity. Based upon public data, the average EUR for all producing horizontal Gallup oil wells is ~50 BO/ft. to date.

Currently, the Chaco 23 08 03 #1H and the Chaco 23 08 03 #2H have EURs exceeding 80 BO/ft. and remain producing oil and gas in paying quantities. The Chaco 23 08 03 #3H will be an infill to the Chaco 23 08 03 #1H and Chaco 23 08 03 #2H. LOGOS has experienced success infilling two Gallup oil horizontal locations within 3 miles of the anticipated Chaco 2308 03 #3H at similar spacing intervals. Accordingly, LOGOS anticipates the Chaco 23 08 03 #3H will perform similar to other infill Gallup wells in the area and will produce oil and gas in paying quantities.

The existing wells in 23N 8W Sections 1 and 2, which lie directly south of the spacing unit for the Zeus 2308 03 #4H and Omega 2308 03 #5H have an average EUR exceeding 80 BO/ft. Accordingly, LOGOS is very optimistic that the Zeus 2308 03 #4H and Omega 2308 03 #5H will have similar outcomes and will produce oil and gas in paying quantities.

Sincerely,



Tamra Sessions
Regulatory Specialist

LOGOS Operating, LLC

2010 Afton Place – Farmington, NM 87401 – Direct 505-324-4145 – Fax 505-326-6112

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-B
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 S. St Francis Drive
Santa Fe, New Mexico 87505

Submit the original
application to the Santa Fe
office with one copy to the
appropriate District Office.

APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)

OPERATOR NAME: LOGOS Operating, LLC
OPERATOR ADDRESS: 2010 Afion Place, Farmington, NM 87401
APPLICATION TYPE:

☐ Pool Commingling ☒ Lease Commingling ☐ Pool and Lease Commingling ☐ Off-Lease Storage and Measurement (Only if not Surface Commingling)

LEASE TYPE: ☐ Fee ☐ State ☒ Federal

Is this an Amendment to existing Order? ☐ Yes ☒ No If "Yes", please include the appropriate Order No.
Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling
☒ Yes ☐ No

(A) POOL COMMINGLING
Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes

- (2) Are any wells producing at top allowables? ☐ Yes ☐ No
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☐ Yes ☐ No
(4) Measurement type: ☐ Metering ☐ Other (Specify)
(5) Will commingling decrease the value of production? ☐ Yes ☐ No If "yes", describe why commingling should be approved

(B) LEASE COMMINGLING
Please attach sheets with the following information

- (1) Pool Name and Code
(2) Is all production from same source of supply? ☒ Yes ☐ No
(3) Has all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No
(4) Measurement type: ☒ Metering ☐ Other (Specify)

(C) POOL and LEASE COMMINGLING
Please attach sheets with the following information

- (1) Complete Sections A and E.

(D) OFF-LEASE STORAGE and MEASUREMENT
Please attached sheets with the following information

- (1) Is all production from same source of supply? ☐ Yes ☐ No
(2) Include proof of notice to all interest owners

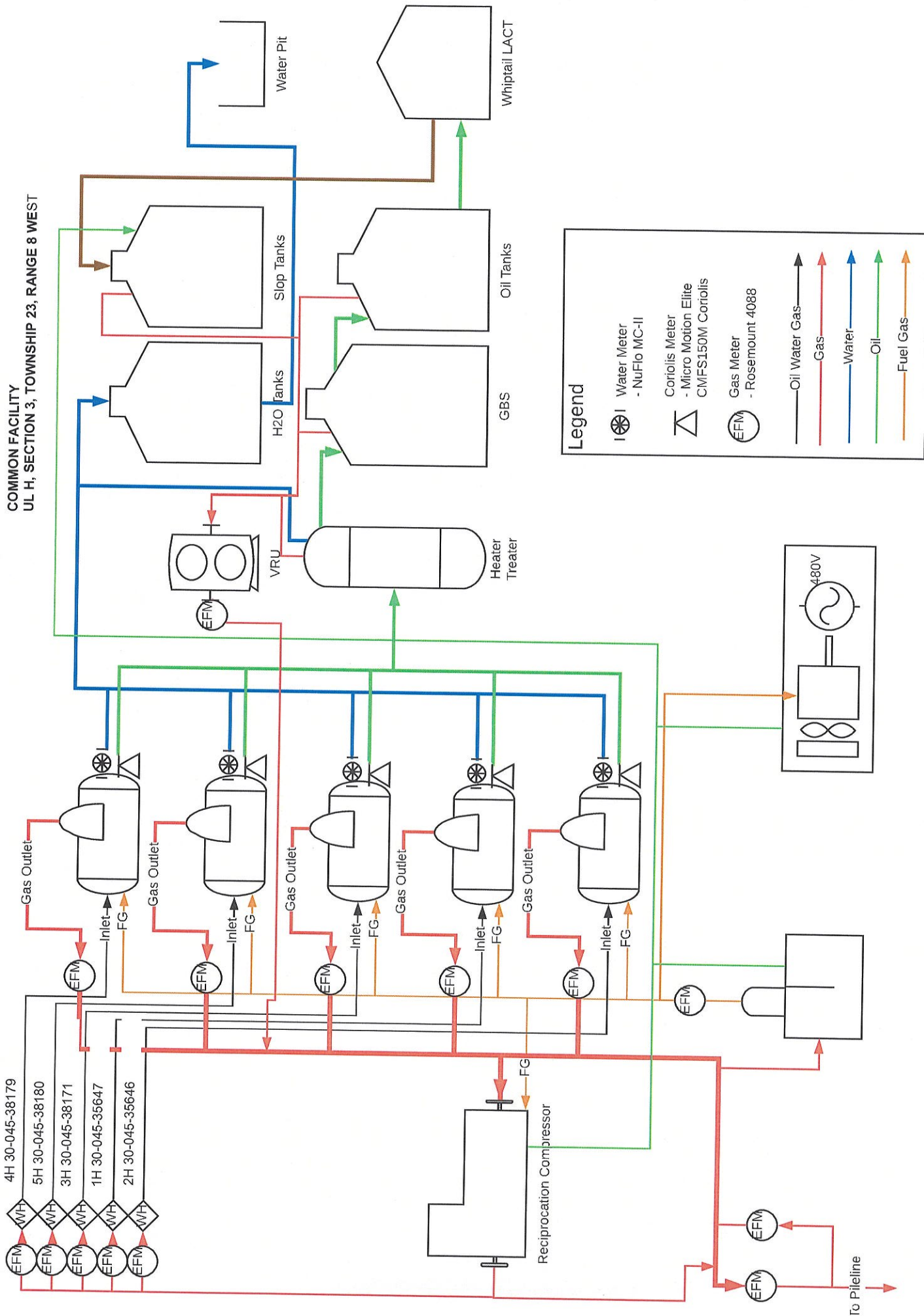
(E) ADDITIONAL INFORMATION (for all application types)
Please attach sheets with the following information

- (1) A schematic diagram of facility, including legal location.
(2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved
(3) Lease Names, Lease and Well Numbers, and API Numbers

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

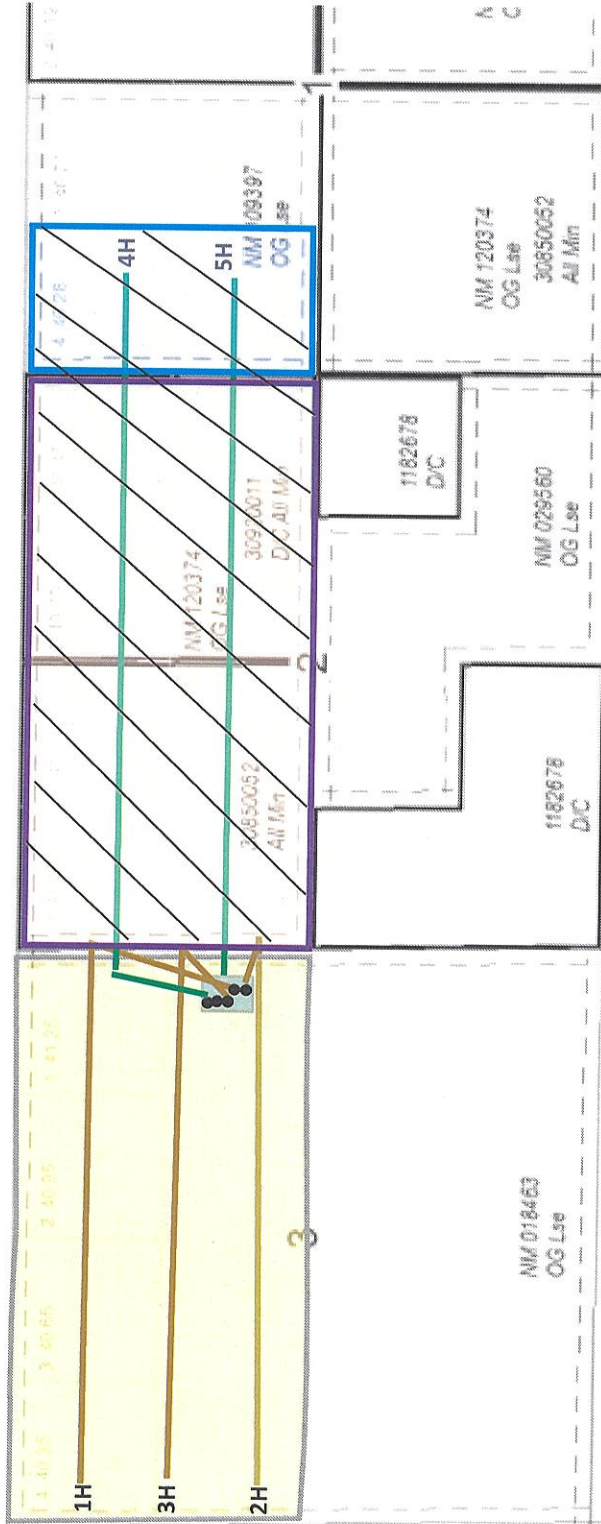
SIGNATURE: Tamra Sessions TITLE: Regulatory Specialist DATE: 1-29-20
TYPE OR PRINT NAME: Tamra Sessions TELEPHONE NO: 505-324-4145
E-MAIL ADDRESS: tsessions@logosresourcesllc.com

COMMON FACILITY
UL H, SECTION 3, TOWNSHIP 23, RANGE 8 WEST



Township 23 North Range 8 West

County: San Juan - 045



LOGOS OPERATING, LLC
CHACO 2308 03 PAD
Lease Plat Map
San Juan County, NM

	Well Pad w/ Common Facility
	Lateral
	Lateral Off Lease
	Lease NM018463
	Lease NM120374
	Lease NM109397
	Pending CA

Common Facility is located on federal surface
UL H, Section 3, Township 23 N, Range 8 W



CONFIDENTIAL
TIGHT HOLEForm C-102
Revised August 1, 2011Submit one copy to appropriate
District Office☐ AMENDED REPORT
☒ AS-DRILLED**DISTRICT I**1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-0161 Fax: (575) 393-0780**DISTRICT II**811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9780**DISTRICT III**1000 Rio Branson Rd., Aztec, N.M. 87410
Phone: (505) 334-0178 Fax: (505) 334-0170**DISTRICT IV**1520 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals & Natural Resources DepartmentOIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35647	² Pool Code 97232	³ Pool Name BASIN MANCOS GAS
⁴ Property Code 315301	⁵ Property Name CHACO 23-08-3	⁶ Well Number 1H
⁷ GRID No. 162928	⁸ Operator Name ENERGEN RESOURCES CORPORATION	⁹ Elevation 6912.3'

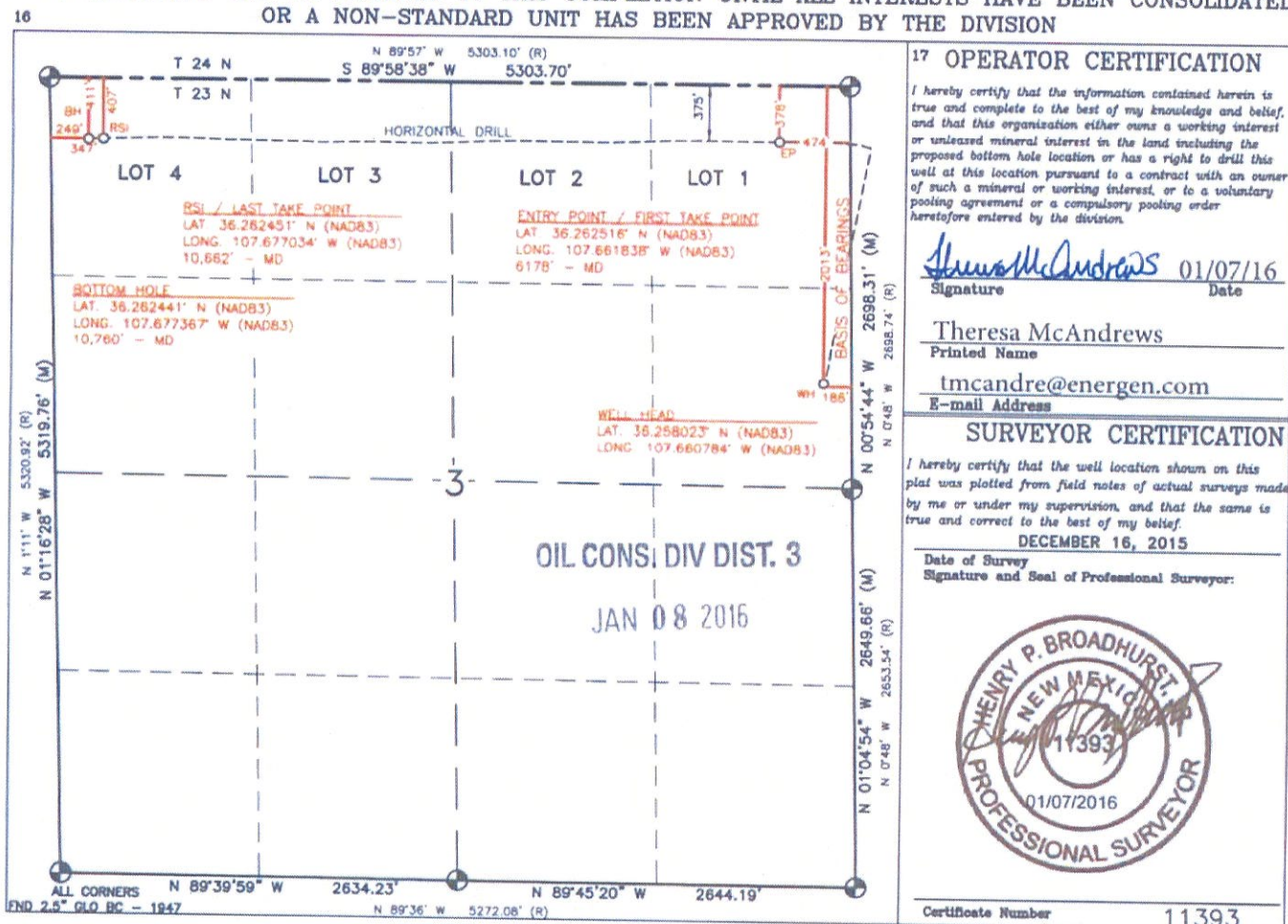
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	3	23N	8W		2013'	NORTH	186'	EAST	SAN JUAN

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
D	3	23N	8W	4	411'	NORTH	249'	WEST	SAN JUAN

¹² Dedicated Acres 323.20 ACRES - S/2 N/2 & LOTS 1 THRU 4 OF SECTION 3	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL 7245-A
---	-------------------------------	----------------------------------	---------------------------------------

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

FY

17

OIL CONS. DIV DIST. 3

CONFIDENTIAL
TIGHT HOLE**DISTRICT I**1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720**DISTRICT II**811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1883 Fax: (575) 748-9720**DISTRICT III**1000 Rio Branson Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170**DISTRICT IV**1220 S. St. Francis Dr., Santa Fe, NM 87508
Phone: (505) 478-3480 Fax: (505) 478-3488State of New Mexico
Energy, Minerals & Natural Resources Department

DEC 22 2015

Form C-102
Revised August 1, 2011OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505Submit one copy to appropriate
District Office☐ AMENDED REPORT
☒ AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35646		² Pool Code 97232	³ Pool Name BASIN MANCOS GAS POOL
⁴ Property Code 315301	⁵ Property Name CHACO 23-08-3		⁶ Well Number 2H
⁷ OGRID No. 162928	⁸ Operator Name ENERGEN RESOURCES CORPORATION		⁹ Elevation 6912.3'

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
H	3	23N	8W		2057'	NORTH	187'	EAST	SAN JUAN

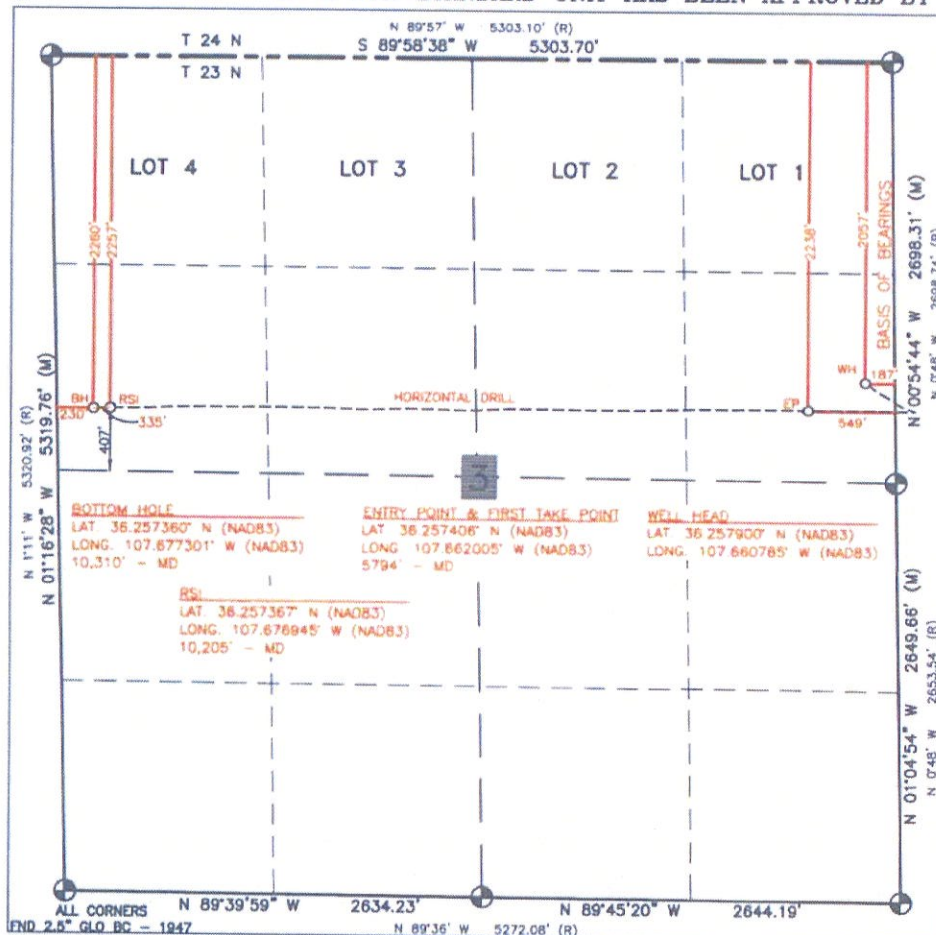
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	3	23N	8W		2260'	NORTH	230'	WEST	SAN JUAN

¹² Dedicated Acres 323.20 ACRES - S/2 N/2 LOTS 1 THRU 4 OF SECTION 3	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL 7246-A
---	-------------------------------	----------------------------------	---------------------------------------

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

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 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.

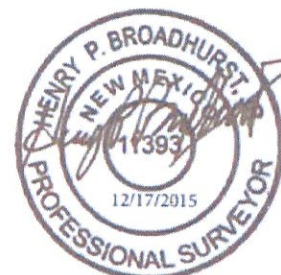
Anna Stotts 12/21/15
Signature Date
Anna Stotts
Printed Name
astotts@energen.com
E-mail Address

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.

OCTOBER, 2015

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number 11393

RV

RV

17

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, 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 Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-38171		*Pool Code 97232	*Pool Name BASTIN MANCOS
*Property Code 316581	*Property Name CHACO 23-08-3		*Well Number 3H
*GRID No. 289408	*Operator Name LOGOS OPERATING, LLC		*Elevation 6906'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
H	3	23N	8W		1982	NORTH	223	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
D	3	23N	8W	4	1325	NORTH	20	WEST	SAN JUAN

*Dedicated Acres 323.20 Acres N/2 - Section 3		*Joint or Infill	*Consolidation Code	*Order No.
---	--	------------------	---------------------	------------

END-OF-LATERAL (A)
1325' FNL 20' FWL
SECTION 3, T23N, R8W
LAT: 36.259922°N
LONG: 107.677470°W
DATUM: NAD1927

LAT: 36.259935°N
LONG: 107.678081°W
DATUM: NAD1983

S89°47'6"W 800'

FIRST PERFORATION (B)
1324' FNL 100' FWL
SECTION 3, T23N, R8W
LAT: 36.259922°N
LONG: 107.677199°W
DATUM: NAD1927

LAT: 36.259935°N
LONG: 107.677810°W
DATUM: NAD1983

S89°47'6"W 5045.8'

LAST PERFORATION (C)
1308' FNL 100' FWL
SECTION 3, T23N, R8W
LAT: 36.259949°N
LONG: 107.659915°W
DATUM: NAD1927

LAT: 36.259962°N
LONG: 107.660525°W
DATUM: NAD1983

S89°47'6"W 1500'

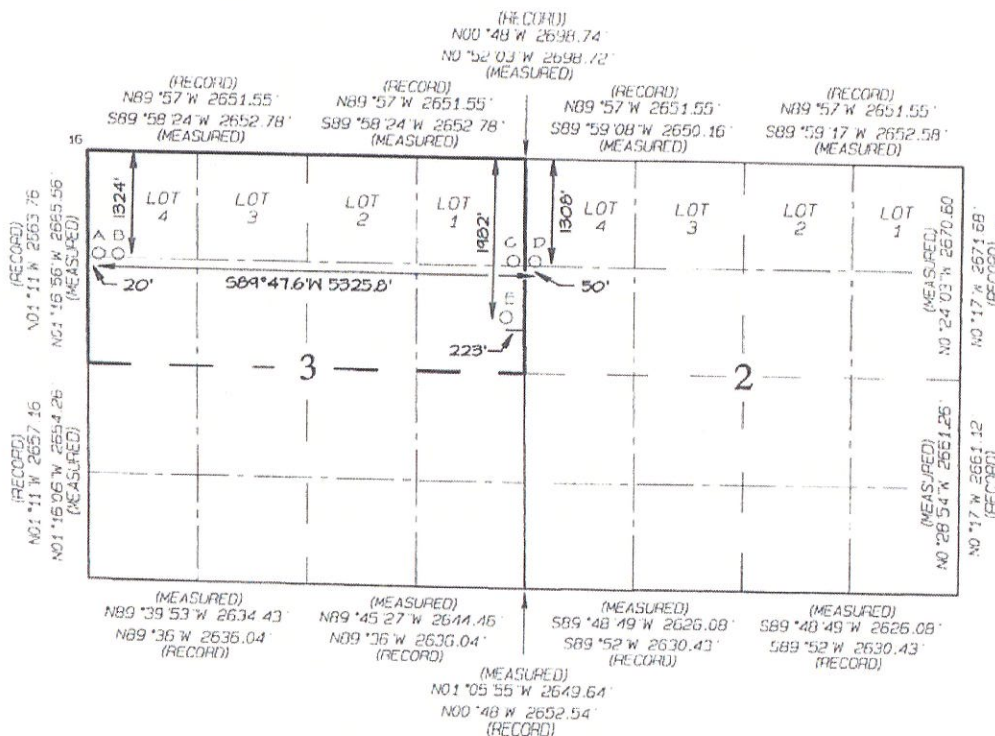
POINT-OF-ENTRY (D)
1308' FNL 50' FWL
SECTION 2, T23N, R8W
LAT: 36.259950°N
LONG: 107.659406°W
DATUM: NAD1927

LAT: 36.259963°N
LONG: 107.660017°W
DATUM: NAD1983

N21°16'0"E 723.7'

SURFACE LOCATION (E)
1982' FNL 223' FWL
SECTION 3, T23N, R8W
LAT: 36.258099°N
LONG: 107.660301°W
DATUM: NAD1927

LAT: 36.258111°N
LONG: 107.660911°W
DATUM: NAD1983



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 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.

Signature: *Tamra Sessions* Date: 8/8/19

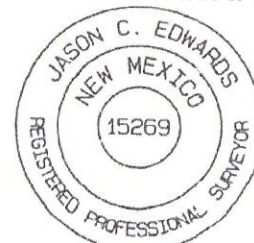
Printed Name: Tamra Sessions
E-mail Address: tsessions@logosresourcesllc.com

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.

Date Revised: AUGUST 28, 2019
Date of Survey: MAY 4, 2019

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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

☐ AMENDED REPORT

The map displays three lots (LOT 1, LOT 2, LOT 3) separated by a central horizontal boundary line. The boundary line is labeled "N84°59.2'E 6447.0'".

Lot Dimensions and Bearings:

- Top Boundary (North of Lot 1, 2, 3):**
 - Left side: (RECORD) NO 1°11' W 2653.76'
 - Between Lot 4 and 3: (RECORD) N89°57' W 2651.55'
 - Between Lot 3 and 2: (RECORD) N89°57' W 2651.55'
 - Between Lot 2 and 1: (RECORD) N89°57' W 2651.55'
 - Between Lot 1 and 2: (RECORD) WEST 2665.08'
 - Right side: (RECORD) N89°56' W 2649.90'
- Bottom Boundary (South of Lot 1, 2, 3):**
 - Left side: (MEASURED) N89°39'53"W 2644.43'
 - Between Lot 4 and 3: (MEASURED) N89°45'27"W 2644.46'
 - Between Lot 3 and 2: (MEASURED) S89°48'49"W 2626.08'
 - Between Lot 2 and 1: (MEASURED) S89°48'49"W 2626.08'
 - Between Lot 1 and 2: (MEASURED) S89°34'19"W 2640.21'
 - Right side: (MEASURED) S89°38' W 2640.33'
- Internal Lot Boundaries:**
 - Vertical line on the left: (MEASURED) NC 1°16'05"W 2654.26' (INEASURED)
 - Vertical line between Lot 1 and 2: (MEASURED) NC 1°02'27"W 2649.50' (INEASURED)
 - Vertical line on the right: (MEASURED) NC 1°03' W 2647.92' (INEASURED)

Other Measurements and Notes:

- Vertical distance from point A to point B: 1939'
- Horizontal distance from point B to point C: 753'
- Horizontal distance from point C to point D: 753'
- Horizontal distance from point D to point E: 250'
- Angle at point A: 223°
- Grid numbers 1, 2, 3 are present along the top and bottom edges.

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

District II
511 S. First Street, Artesia, NM 88210
Phone: (505) 748-1203 Fax: (505) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form 7-102
Revised August 1, 2011
Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

AMENDED REPORT

WELL 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 releases 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.

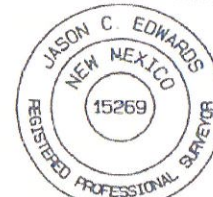
Tamra Sessions 1/28/20

Signature _____ Date _____
Tamra Sessions
Printed Name
tsessions@logosresourcesllc.com
E-mail Address

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.

Date Revised: JANUARY 27, 2020
Date of Survey: MAY 4, 2019

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-38180		Pool Code 97232	Pool Name BASIN MANCOS
Property Code	Property Name OMEGA 2308 03		Well Number 5H
UGRI No 28940B	Operator Name LOGOS OPERATING, LLC		Elevation 6908

10 Surface Location

U. or lot no.	Section	Township	Range	Lot 10'	Feet from the	North/South Line	Feet from the	East/West Line	County
H	3	23N	8W		1960	NORTH	223	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot 10'	Feet from the	North/South Line	Feet from the	East/West Line	County
E	1	23N	8W		1878	NORTH	1058	WEST	SAN JUAN

Dedicated Acres 403.72	W/2 NW/4 - Section 1 N/2 - Section 2	Date of Entry	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

SURFACE LOCATION (A)
1960' FNL 223' FEL
SECTION 3, T23N, R8W
LAT: 36.258159°N
LONG: 107.660303°W
DATUM: NAD1927
LAT: 36.258172°N
LONG: 107.660913°W
DATUM: NAD1983

NT3°44'41"E 179.5'

POINT-OF-ENTRY (B)
1910' FNL 50' FEL
SECTION 3, T23N, R8W
LAT: 36.258296°N
LONG: 107.659719°W
DATUM: NAD1927
LAT: 36.258308°N
LONG: 107.660329°W
DATUM: NAD1983

N89°41'E 150.0'

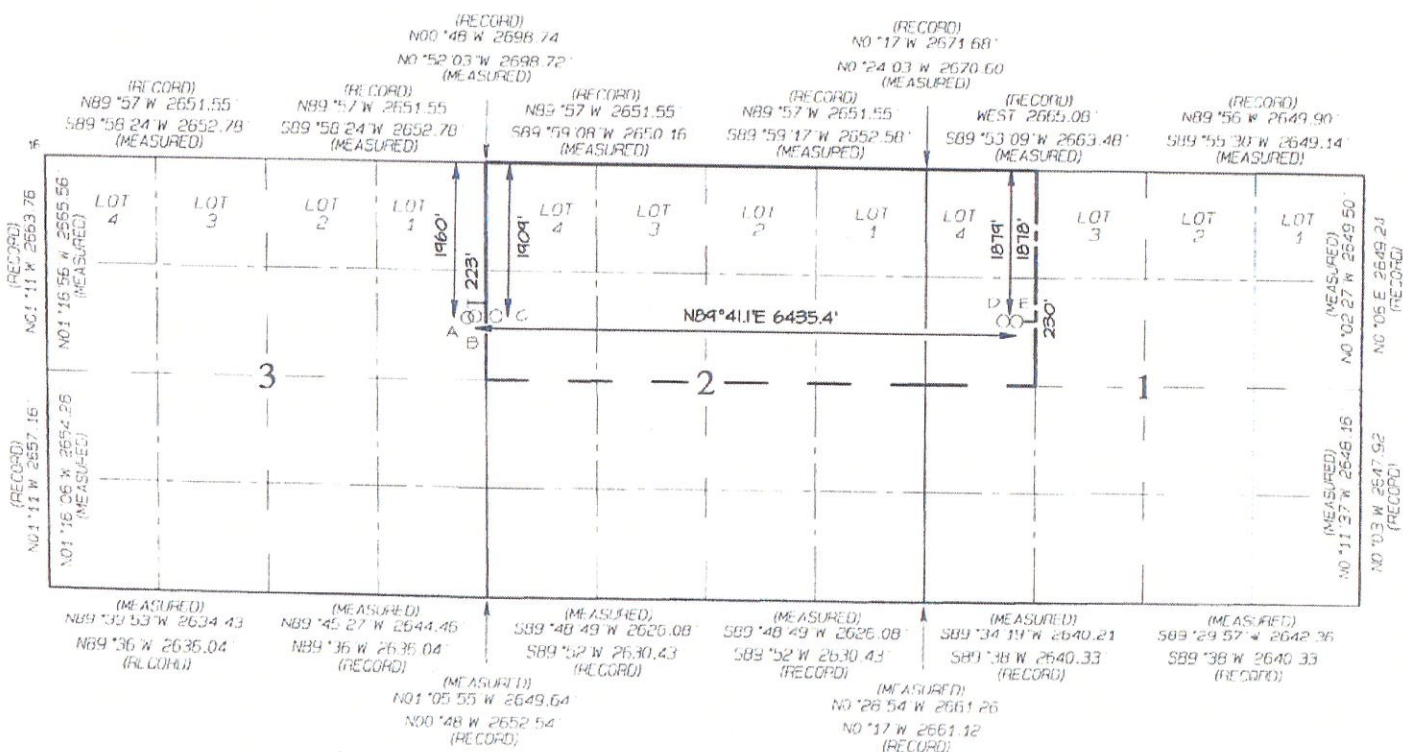
LAST PERFORATION (C)
1909' FNL 100' FNL
SECTION 2, T23N, R8W
LAT: 36.258297°N
LONG: 107.659209°W
DATUM: NAD1927
LAT: 36.258310°N
LONG: 107.659820°W
DATUM: NAD1983

N89°41'E 6105.4'

FIRST PERFORATION (D)
1879' FNL 938' FNL
SECTION 1, T23N, R8W
LAT: 36.258358°N
LONG: 107.638230°W
DATUM: NAD1927
LAT: 36.258371°N
LONG: 107.638840°W
DATUM: NAD1983

N89°41'E 1000.0'

END-OF-LATERAL (E)
1878' FNL 1098' FNL
SECTION 1, T23N, R8W
LAT: 36.258359°N
LONG: 107.637691°W
DATUM: NAD1927
LAT: 36.258372°N
LONG: 107.638501°W
DATUM: NAD1983





J. Scott Hall
Senior Attorney
LOGOS Resources II, LLC
317 Paseo de Peralta
P. O. Box 1946
Santa Fe, NM 87504
Office: 505.303.7236
Mobile: 505.670.7362
shall@logosresourcesllc.com

January 29, 2020

Certified Mail / Return Receipt Requested

To: All Interest Owners or Operators listed on the
attached page

**Re: LOGOS Operating, LLC
Application for Administrative Approval, Surface Commingling (SCM), Off-Lease
Storage and Off-Lease Measurement, Basin-Mancos Gas Pool (97232)
SE/4 NE/4 Section 3, Township 23 North, Range 8 West, N.M.P.M.
San Juan County, New Mexico**

**Chaco 23 08 03 Well No. 1H (Lease NMNM18463)
API No. 30-045-35647
2013' FNL, 186' FEL
H-03-23N-08W**

**Chaco 23 08 03 Well No. 2H (Lease NMNM18463)
API No. 30-045-35646
2057' FNL, 187' FEL
H-03-23N-08W**

**Chaco 23 08 03 Well No. 3H (Lease NMNM18463)
API No. 30-045-38171
1982' FNL, 223' FEL
H-03-23N-08W**

**Zeus 2308 03 Well No. 4H (Lease NMNM120374)
API No. 30-045-38179
1938' FNL, 223' FEL
H-03-23N-08W**

**Omega 2308 03 Well No. 5H (Lease NMNM120374)
API No. 30-045-38180
1960' FNL, 223' FEL
H-03-23N-08W**

January 29, 2020

Page 2

Dear Sir or Madam:

Pursuant to New Mexico Oil Conservation Division (NMOCD) Rules 19.15.12.10. C and 19.15.4.12 A (8), you are hereby notified that LOGOS Operating, LLC has on this date made application to the NMOCD for administrative approval of Surface Lease Commingling (SCM), Off-Lease Storage and Off-Lease Measurement for its Chaco, Zeus and Omega wells at the locations indicated above. A copy of the application is enclosed. No action is required by you unless you object to our commingling proposal.

As the owner of an interest that may be affected, you have the right to object to the application. To do so, you must file a written protest with the NMOCD within twenty days from the date the NMOCD receives the application. Failure to do so will prevent you from challenging the matter at a later time. A letter of protest may be sent to the NMOCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505.

Should you consent to the application and the proposed commingling, you are requested to indicate your waiver of objection by signing where indicated below and then returning this letter to me at your earliest convenience.

Sincerely,

LOGOS Operating, LLC

A handwritten signature in black ink, appearing to read "J. Scott Hall", written in a cursive style.

J. Scott Hall
Senior Attorney

CONSENT:

By: _____

January 29, 2020

Page 3

Interest Owners Notified

Mazzola & Co.
14624 Fenton Street
Broomfield, CO 80020

USPS Tracking No.: 7013 2250 0001 5572 6183

Harris D. Butler, III
1500 Confederate Avenue
Richmond, VA 23227

USPS Tracking No.: 7013 2250 0001 5572 6206

EOG A Resources, Inc.
Attn: Nathan Stephenson, Land Manager
105 4th Street
Artesia, NM 88210

USPS Tracking No.: 7013 2250 0001 9626 5103

EOG M Resources, Inc.
Attn: Nathan Stephenson, Land Manager
105 4th Street
Artesia, NM 88210

USPS Tracking No.: 7013 2250 0001 9626 5097

Enduring Resources IV, LLC
Attn: Travis Whitham
1050 17th Street, Suite 2500

USPS Tracking No.: 7013 2250 0001 9626 5080

JMJ Ventures LLC
2201 N. Santiago Ave.
Farmington, NM 87401

USPS Tracking No.: 7013 2250 0001 9626 5073

Bureau of Land Management
Farmington Field Office
6251 College Blvd., Suite A
Farmington, NM 87402

USPS Tracking No.: 7013 2250 0001 5572 6190

Return Receipt (hardcopy) \$0.00
 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$0.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$0.00

Postage \$0.85
Total Postage and Fees \$7.25

Sent To ENDURING RESOURCES IV, LLC
 ATTN: TRAVIS WHITHAM
 1050 17TH STREET, SUITE 2500
 DENVER, CO 80265

PS Form 3800, A

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

BROOMFIELD, CO 80020

Postage \$3.55
 Certified Fee \$2.85
 Return Receipt Fee (Endorsement Required) \$0.00
 Restricted Delivery Fee (Endorsement Required) \$0.00
Total Postage & Fees \$7.25

Sent To Mazzola & Co.
 14624 Fenton Street
 Broomfield, CO 80020

PS Form 3800, A

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

FARMINGTON, NM 87402

Postage \$3.55
 Certified Fee \$2.85
 Return Receipt Fee (Endorsement Required) \$0.00
 Restricted Delivery Fee (Endorsement Required) \$0.00
Total Postage & Fees \$7.25

Sent To Bureau of Land Management
 Farmington Field Office
 6251 College Blvd., Suite A
 Farmington, NM 87402

PS Form 3800, A

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

For delivery information, visit our website at www.usps.com
 FARMINGTON, NM 87401

Certified Mail Fee \$3.55
 Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$0.00
☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00
 Postage \$0.85
Total Postage and Fees \$7.25

Sent To JMJ VENTURES LLC
 2201 N. SANTIAGO AVE.
 FARMINGTON, NM 87401

Return Receipt (hardcopy) \$0.00
 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$0.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$0.00

Postage \$0.85
Total Postage and Fees \$7.25

Sent To EOG A RESOURCES, INC.
 ATTN: NATHAN STEPHENSON
 105 SOUTH 4TH STREET
 ARTESIA, NM 88210

PS Form 3800, A

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

RICHMOND, VA 23227

Postage \$3.55
 Certified Fee \$2.85
 Return Receipt Fee (Endorsement Required) \$0.00
 Restricted Delivery Fee (Endorsement Required) \$0.00
Total Postage & Fees \$7.25

Sent To Harris D. Butler, III
 1500 Confederate Avenue
 Richmond, VA 23227

PS Form 3800, A

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com

ARTESIA, NM 88210

Certified Mail Fee \$3.55
 Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$0.00
☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00
 Postage \$0.85
Total Postage and Fees \$7.25

Sent To EOG M RESOURCES, INC.
 ATTN: NATHAN STEPHENSON
 105 SOUTH 4TH STREET
 ARTESIA, NM 88210

PS Form 3800, A