

District I (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III (505) 334-6178  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV (505) 827-8198  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-106  
Revised August 1, 2011

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

ACT Permit No.

**NOTICE OF INTENTION TO UTILIZE AUTOMATIC CUSTODY TRANSFER EQUIPMENT 3-30**

Operator LOGOS Operating, LLC

Address 2010 Afton Place, Farmington, NM 87401 County San Juan

Lease(s) to be served by this ACT Unit NMNM136868

Pool(s) to be served by this ACT Unit Nageezi Gallup (47540)

Location of ACT System: Unit L Section 9 Township 23N Range 08W

Order No. authorizing commingling between leases if more than one lease is to be served by this system.

N/A Date \_\_\_\_\_

Order No. authorizing commingling between pools if more than one pool is to be served by this system

N/A Date \_\_\_\_\_

Authorized transporter of oil from this system Whiptail Midstream

**OIL CONS. DIV DIST. 3**

Transporter's address 15 West 6<sup>th</sup> Street, Tulsa, OK 74119

**AUG 23 2017**

Maximum expected daily through-put for this system: 350 BBL/Day

If system fails to transfer oil due to malfunction or otherwise, waste by overflow will be averted by:

CHECK ONE: A.  Automatic shut-down facilities as required by 19.15.18.15.C(8) NMAC  
B.  Providing adequate available capacity to receive production during maximum unattended time of lease operation 19.15.18.15.C(9) NMAC

If "A" above is checked, will flowing wells be shut-in at the header manifold or at the wellhead?

N/A Maximum well-head shut-in pressure N/A

If "B" above is checked, how much storage capacity is available above the normal high working level of the

surge tank 2000 BBLs.

What is the normal maximum unattended time of lease operation? Sixteen (16) Hours.

What device will be used for measuring oil in this ACT unit?

CHECK ONE:  Positive displacement meter  Weir-type measuring vessel  
 Positive volume metering chamber  Other; describe Coriolis Meter

Remarks: This LACT will be selling to pipeline.

**OPERATOR:**

I hereby certify above information is true and complete to best of my knowledge and subject ACT system will be installed and operated in accordance with Rule 19.15.18.15 NMAC. Approval of this Form C-106 does not eliminate necessity of an approved C-104 prior to running any oil or gas from this system.

Signature Tamra Sessions

Printed Name & Title Tamra Sessions

Email Address tsessions@logosresourcesllc.com

Date 8/23/17 Telephone 505-324-4145

**OIL CONSERVATION DIVISION**

Approved by: Brand Bell

Title: \_\_\_\_\_

Date: 9/7/17

**INSTRUCTIONS:** Submit one copy of Form C-106 with following attachments to appropriate district office.

- 1) Lease plat showing all wells which will be produced in ACT system.
- 2) Schematic diagram of battery and ACT equipment showing all major components and means employed to prove accuracy of measuring device.
- 3) Letter from transporter agreeing to utilization of ACT system as shown on schematic diagram.

**NOTICE OF INTENTION TO UTILIZE CUSTODY TRANSFER EQUIPMENT  
HEROS 2308 09L COM 1H PIPELINE LACT UNIT**

**WELLS TO BE SERVED BY PIPELINE LACT UNIT:**

**HEROS 2308 09L COM 1H / API 30-045-35688 / UNIT L (NW/SW), SEC 9, T23N-R8W, NMPM**

**19.15.18.15 AUTOMATIC CUSTODY TRANSFER EQUIPMENT:**

A. Oil shall be received and measured in facilities of an approved design. The facilities shall permit the testing of each well at reasonable intervals and may be comprised of manually gauged, closed stock tanks for which the operator of the ACT system has prepared proper strapping tables, or of ACT equipment. The division shall permit ACT equipment's use only after the operator complies with the following. The operator shall file with the division form C-106 and receive approval for use of the ACT equipment prior to transferring oil through the ACT system. The carrier shall not accept delivery of oil through the ACT system until the division has approved form C-106.

- *See flow process diagram attached.*

B. The operator of the ACT system shall submit form C-106 to the appropriate division district office, which is accompanied by the following:

- (1) plat of the lease showing all wells that the any well operator will produce into the ACT system;
  - *Attached as part of Form C-106 Notice of Intent.*
- (2) schematic diagram of the ACT equipment, showing on the diagram all major components such as surge tanks and their capacity, extra storage tanks and their capacity, transfer pumps, monitors, reroute valves, treaters, samplers, strainers, air and gas eliminators, back pressure valves and metering devices (indicating type and capacity, *i.e.* whether automatic measuring tank, positive volume metering chamber, weir-type measuring vessel or positive displacement meter); the schematic diagram shall also show means employed to prove the measuring device's accuracy; and
  - *Attached as part of Form C-106 Notice of Intent.*
- (3) letter from transporter agreeing to utilization of ACT system as shown on schematic diagram.
  - *Attached as part of Form C-106 Notice of Intent.*

C. The division shall not approve form C-106 unless the operator of the ACT system will install and operate the ACT system in compliance with the following requirements.

- (1) Provision is made for accurate determination and recording of uncorrected volume and applicable temperature, or of temperature corrected volume. The system's overall accuracy shall equal or surpass manual methods.
  - *The LACT system is more accurate when compared to manual tank. It is proved per BLM Onshore Order #4 Measurement of Oil and API MPMS Chapter 4 Proving Systems; with a volumetric prover that meets the requirements set forth in Onshore Order #4. The LACT also has a temperature RTD which will be calibrated semi-annually, unless more frequent verification is requested by the division.*
- (2) Provision is made for representative sampling of the oil transferred for determination of API gravity and BS&W content.
  - *The LACT is equipped with a flow proportional sampler (sample probe and actuated valve). The sampled fluid is stored in a sealed cylinder that is used for API gravity and S&W determination.*
- (3) Provision is made if required by either the oil's producer or the transporter to give adequate assurance that the ACT system runs only merchantable oil.
  - *The LACT is equipped with a water cut analyzer that communicated with the flow computer. When the S&W set point is reached the divert valve will engage sending non-merchantable oil to a divert tank. The set point can be adjusted in the flow computer but only if agreed upon by both shipper and producer.*
- (4) Provision is made for set-stop counters to stop the flow of oil through the ACT system at or prior to the time the allowable has been run. Counters shall provide non-reset totalizers that are visible for inspection at all times.
  - *The Coriolis meter has a non-resettable totalizer which is always visibly available on the LCD display.*
- (5) Necessary controls and equipment are enclosed and sealed, or otherwise arranged to provide assurance against, or evidence of, accidental or purposeful mismeasurement resulting from tampering.
  - *Required ports are sealed and tracked in the seal log.*

- (6) The ACT system's components are properly sized to ensure operation within the range of their established ratings. All system components that require periodic calibration or inspection for proof of continued accuracy are readily accessible; the frequency and methods of the calibration or inspection shall be as set forth in Paragraph (12) of Subsection C of 19.15.18.15 NMAC.
- ***The Coriolis is proved per BLM Onshore Order #4 Measurement of Oil and API MPMS Chapter 4 Proving Systems; with a volumetric prover that meets the requirements set forth in Onshore Order #4. The prover is NIST traceable and water drawn on a bi-annual basis. Proving will be consistent with Onshore Order #4, unless a variance is granted by the Division. NMOCD representatives are sent the schedule to witness if desired. The temperature transmitter is verified on a semi-annual basis, unless more frequent verification is requested by the Division. The water cut analyzer is calibrated as needed.***
- (7) The control and recording system includes adequate fail-safe features that provide assurance against mismeasurement in the event of power failure, or the failure of the ACT system's component parts.
- ***In the event of power failure, the divert valve mechanically goes to "failed state" and no longer sales oil but only sends it to the divert tank.***
  - ***All of the historized volume data is stored in the flow computer memory with battery backup and is also transmitted by SCADA, multiple times a day, to an office server. So even during a power failure no oil volume is lost.***
  - ***In the event of a malfunction, the LACT unit is programmed to shut off and the divert valve is forced to close and no longer sales oil but only sends it to the divert tank. The malfunction is also logged by the flow computer.***
- (8) The ACT system and allied facilities include fail-safe equipment as may be necessary, including high level switches in the surge tank or overflow storage tank that, in the event of power failure or malfunction of the ACT or other equipment, will shut down artificially lifted wells connected to the ACT system and will shut in flowing wells at the well-head or at the header manifold, in which latter case the operator of the ACT system shall pressure test all flowlines to at least 1½ times the maximum well-head shut-in pressure prior to the ACT system's initial use and every two years thereafter.
- ***Hi level switches are in place and will shut the well in at the inlet to the production unit in the event of a full tank. Flow lines were tested to 1 ½ times shut in pressure at initial construction. Testing will commence every two years to ensure piping integrity.***
- (9) As an alternative to the requirements of Paragraph (8) of Subsection C of 19.15.18.15 NMAC the producer shall provide and at all times maintain a minimum of available storage capacity above the normal high working level of the surge tank to receive and hold the amount of oil that may be produced during maximum unattended time of lease operation.
- ***N/A***
- (10) In all ACT systems employing automatic measuring tanks, weir-type measuring vessels, positive volume metering chambers or any other volume measuring container, the container and allied components shall be properly calibrated prior to initial use and shall be operated, maintained and inspected as necessary to ensure against incrustation, changes in clingage factors, valve leakage or other leakage and improper action of floats, level detectors, etc.
- ***N/A (Coriolis Meter)***
- (11) In ACT systems employing positive displacement meters, the meter and allied components shall be properly calibrated prior to initial use and shall be operated, maintained and inspected as necessary to ensure against oil mismeasurement.
- ***The Coriolis is proved per BLM Onshore Order #4 Measurement of Oil and API MPMS Chapter 4 Proving Systems; with a volumetric prover that meets the requirements set forth in Onshore Order #4. The prover is NIST traceable and water drawn on a bi-annual basis. Monthly proving will continue per the rule, unless a variance is granted by the Division. NMOCD representatives are sent the schedule to witness if desired. The temperature transmitter is verified on a semi-annual basis, unless more frequent verification is requested by the Division.***

(12) The operator of the ACT system shall check the measuring and recording devices of ACT systems for accuracy at least once each month unless it has obtained an exception to such determination from the division. Where applicable, the operator of the ACT system shall use API standard 1101, Measurement of Petroleum Hydrocarbons by Positive Displacement Meter. Meters may be proved against master meters, portable prover tanks or prover tanks permanently installed on the lease. If the operator of the ACT system uses permanently installed prover tanks, the distance between the opening and closing levels and the provision for determining the opening and closing readings shall be sufficient to detect variations of 5/100 of one percent. The operator of the ACT system shall file reports of determination on the division form entitled "meter test report" or on another acceptable form in duplicate with the appropriate division district office.

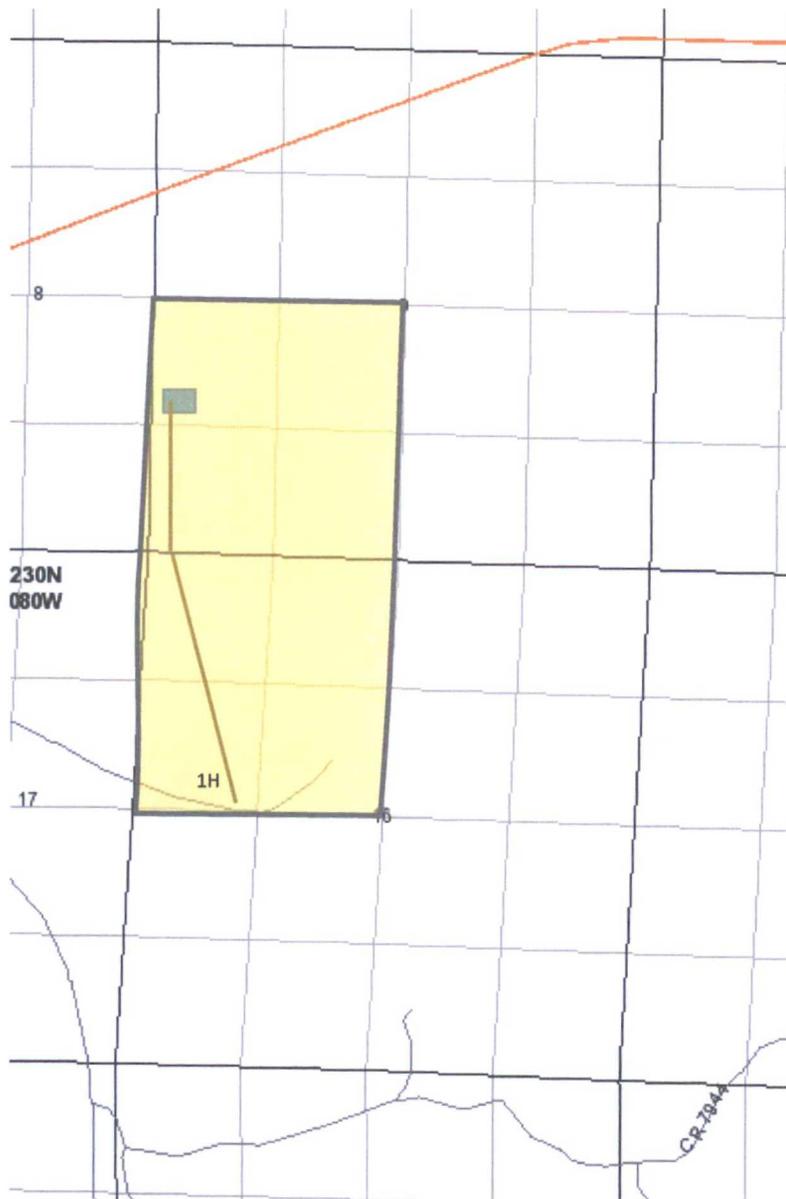
- *The Coriolis is proved per BLM Onshore Order #4 Measurement of Oil and API MPMS Chapter 4 Proving Systems; with a volumetric prover that meets the requirements set forth in Onshore Order #4. The prover is NIST traceable and water drawn on a bi-annual basis. Monthly proving will continue per the rule, unless a variance is granted by the Division. NMOCD representatives are sent the schedule to witness if desired. The temperature transmitter is verified on a semi-annual basis, unless more frequent verification is requested by the Division.*

(13) To obtain an exception to the requirement in Paragraph (12) of Subsection C of 19.15.18.15 NMAC that all measuring and recording devices be checked for accuracy once each month, either the producer or transporter may file a request with the director setting forth facts pertinent to the exception. The application shall include a history of the average factors previously obtained, both tabulated and plotted on a graph of factors versus time, showing that the particular installation has experienced no erratic drift. The applicant shall also furnish evidence that the other interested party has agreed to the exception. The director may then set the frequency for determination of the system's accuracy at the interval which the director deems prudent.

- *N/A*

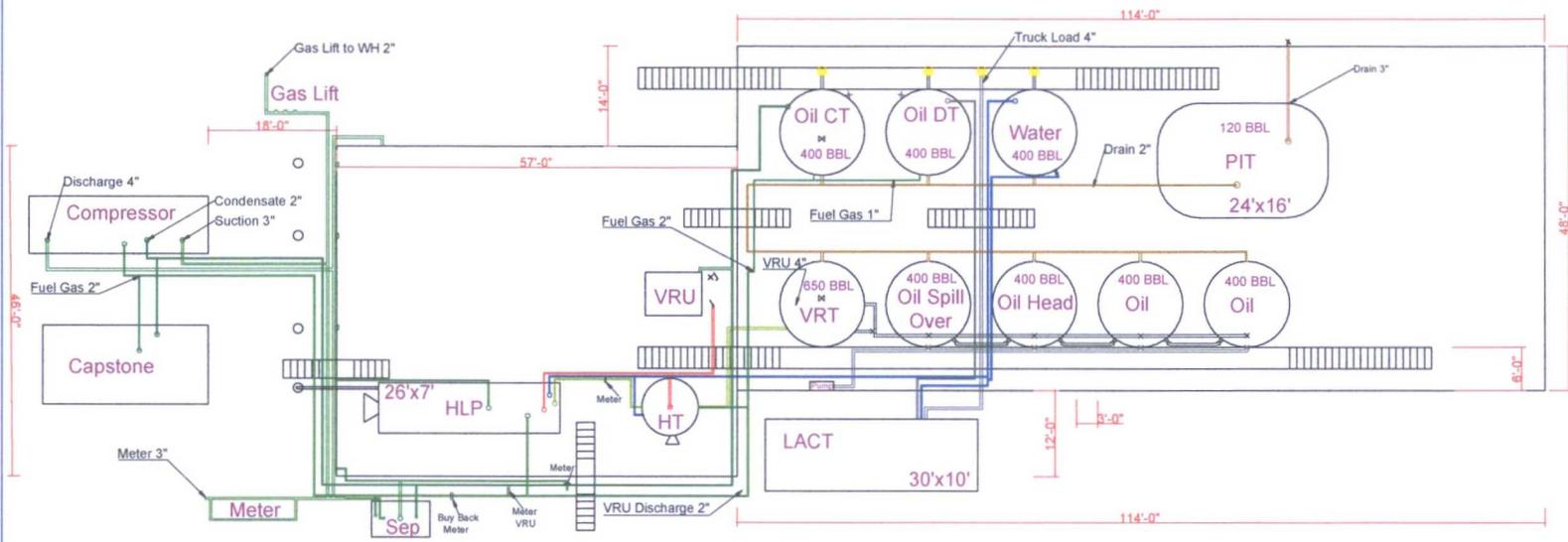
D. The division may revoke its approval of an ACT system's form C-106 if the system's operator fails to operate it in compliance with 19.15.18.15 NMAC.

[19.15.18.15 NMAC - Rp, 19.15.5.309 NMAC, 12/1/08]



LOGOS OPERATING, LLC  
 HEROS 2308 9L PAD  
 Lease Plat Map  
 San Juan County, NM

	Well Pad w/LACT Equip
	Lateral
	Approved CA



**General Notes**

- Oil Load Lines 4"
- LACT Lines 2"
- Fuel Lines 1" & 2"
- Oil Lines 2"
- Water Lines 2"
- Condensate Lines 2"
- Drain Lines 2" & 3"
- Gas Lines
- Flash Gas Lines 2"
- Oil Dump Lines 4"

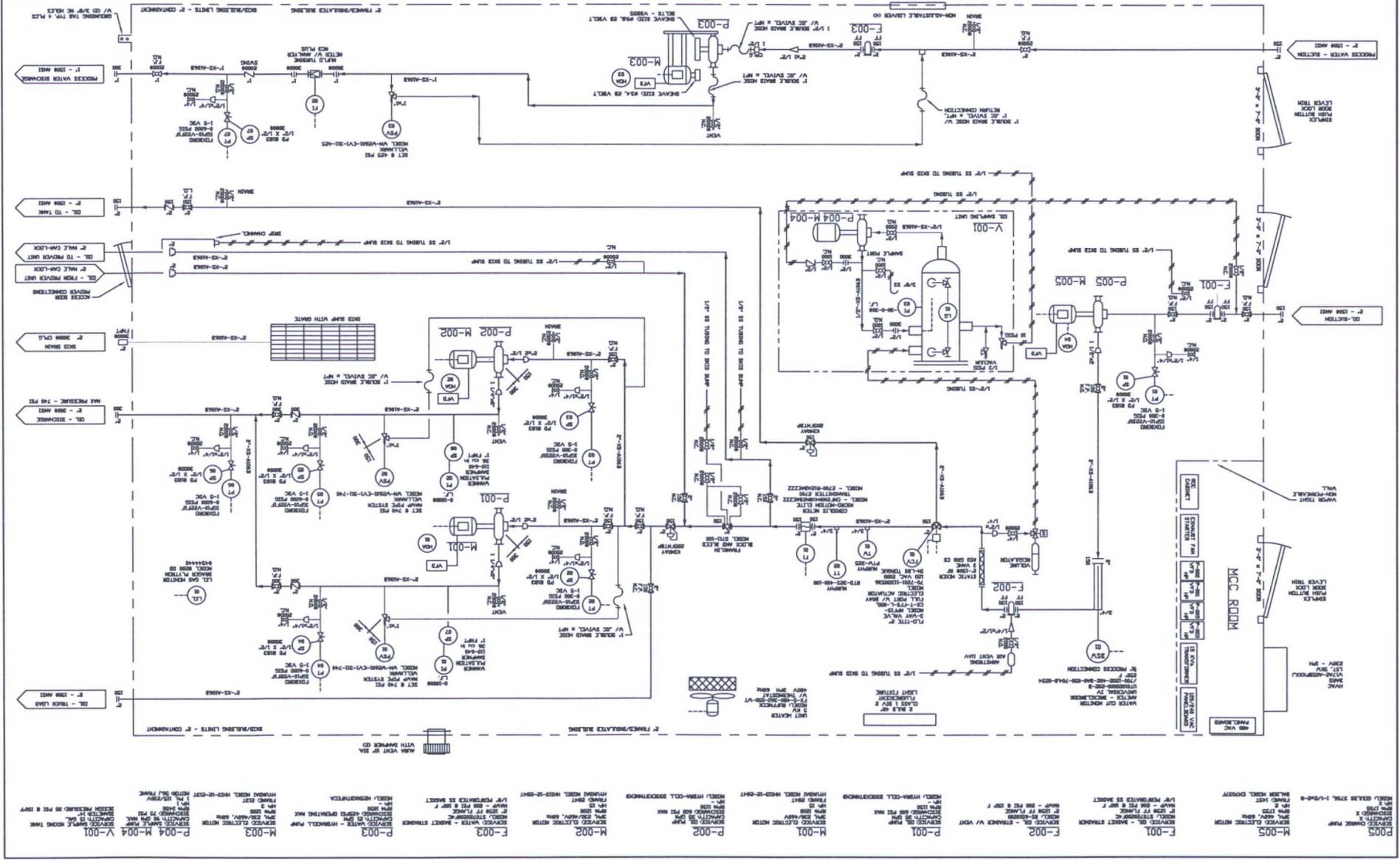
No.	Revision/Issue	Date

**Client Name and Address**  
 LOGOS RESOURCES, LLC  
 2010 Alton Place  
 Farmington, NM 87401

**Project Name and Address**  
 HEROS 2308 09L Com #1H

Project	Sheet
Date	7/7/2017
Scale	

THIS DOCUMENT CONTAINS PATENTABLE OR NON-PATENTABLE SUBJECT MATTER. THE USER AGREES TO HOLD HENRY PRODUCTION INC. AND PLUMBS AND SERVICE INC. HARMLESS IN CONNECTION WITH THE UNDERSTANDING THAT IT WILL NOT BE REPRODUCED, USED OR DISCLOSED IN ANY MANNER EXCEPT THE LIMITED PURPOSES FOR WHICH IT IS LOANED. THIS DOCUMENT SHALL BE RETURNED TO HENRY PRODUCTION INC. OR PLUMBS AND SERVICE UPON DEMAND.



- P-005 REVERSE CHECK VALVE - 1/2\"/>
- M-005 REVERSE CHECK VALVE - 1/2\"/>
- F-001 REVERSE CHECK VALVE - 1/2\"/>
- F-002 REVERSE CHECK VALVE - 1/2\"/>
- M-001 REVERSE CHECK VALVE - 1/2\"/>
- P-001 REVERSE CHECK VALVE - 1/2\"/>
- M-002 REVERSE CHECK VALVE - 1/2\"/>
- F-003 REVERSE CHECK VALVE - 1/2\"/>
- P-003 REVERSE CHECK VALVE - 1/2\"/>
- M-003 REVERSE CHECK VALVE - 1/2\"/>
- V-004 REVERSE CHECK VALVE - 1/2\"/>

## Tamra Sessions

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**From:** Ernie Johnson <ernie.johnson@whiptailmidstream.com>  
**Sent:** Friday, August 18, 2017 10:14 AM  
**To:** Tamra Sessions  
**Subject:** RE: C-106 Letter from Transporter: LOGOS Heros 2308 09L pad

Tamara,

Thank you for the update. As the manager of EHS, and Regulatory & Permitting, for Whiptail Midstream, LLC, Whiptail Midstream agrees with the plan of allowing LOGOS Resources, LLC to utilize LACT units as the sales point on our pipeline system for the below listed facilities. These LACT units will be proved per regulatory requirements.

**Heros 2308 09L PIPELINE LACT UNIT**  
**WELLS TO BE SERVED BY PIPELINE LACT UNIT:**

- Heros 2308 09L Com 1H / API #30-045-35688 / UNIT L (NW/SW) Sec. 9, T23N, R8W, NMPM

Regards,

Ernie Johnson  
HSE Manager  
Whiptail Midstream  
15 W. 6<sup>th</sup> Street, Suite 2901, Tulsa, OK 74119  
W: 918.289.2147, C: 918.949.7580  
[ernie.johnson@whiptailmidstream.com](mailto:ernie.johnson@whiptailmidstream.com)



*[From receipt to delivery, the midstream partner you count on.](#)*

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**From:** Tamra Sessions [mailto:[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)]  
**Sent:** Friday, August 18, 2017 11:12 AM  
**To:** Ernie Johnson <ernie.johnson@whiptailmidstream.com>  
**Subject:** RE: C-106 Letter from Transporter: LOGOS Heros 2308 09L pad

Sorry, Ernie, but could I have you reply again and replace Andrea's name with mine!

Tamra

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**From:** Ernie Johnson [mailto:[ernie.johnson@whiptailmidstream.com](mailto:ernie.johnson@whiptailmidstream.com)]  
**Sent:** Friday, August 18, 2017 10:09 AM  
**To:** Tamra Sessions <[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)>  
**Cc:** Kelly Maxwell <[kmaxwell@logosresourcesllc.com](mailto:kmaxwell@logosresourcesllc.com)>; Andy Pickle <[andy.pickle@whiptailmidstream.com](mailto:andy.pickle@whiptailmidstream.com)>; Jude Dysart <[jude.dysart@whiptailmidstream.com](mailto:jude.dysart@whiptailmidstream.com)>; Bob O'Neal <[bob.oneal@whiptailmidstream.com](mailto:bob.oneal@whiptailmidstream.com)>  
**Subject:** RE: C-106 Letter from Transporter: LOGOS Heros 2308 09L pad

Andrea,

Thank you for the update. As the manager of EHS, and Regulatory & Permitting, for Whiptail Midstream, LLC, Whiptail Midstream agrees with the plan of allowing LOGOS Resources, LLC to utilize LACT units as the sales point on our pipeline system for the below listed facilities. These LACT units will be proved per regulatory requirements.

**Heros 2308 09L PIPELINE LACT UNIT**  
**WELLS TO BE SERVED BY PIPELINE LACT UNIT:**

- Heros 2308 09L Com 1H / API #30-045-35688 / UNIT L (NW/SW) Sec. 9, T23N, R8W, NMPM

Regards,

Ernie Johnson  
HSE Manager  
Whiptail Midstream  
15 W. 6<sup>th</sup> Street, Suite 2901, Tulsa, OK 74119  
W: 918.289.2147, C: 918.949.7580  
[ernie.johnson@whiptailmidstream.com](mailto:ernie.johnson@whiptailmidstream.com)



*[From receipt to delivery, the midstream partner you count on.](#)*

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**From:** Tamra Sessions [<mailto:tsessions@logosresourcesllc.com>]  
**Sent:** Friday, August 18, 2017 10:52 AM  
**To:** Ernie Johnson <[ernie.johnson@whiptailmidstream.com](mailto:ernie.johnson@whiptailmidstream.com)>  
**Cc:** Kelly Maxwell <[kmaxwell@logosresourcesllc.com](mailto:kmaxwell@logosresourcesllc.com)>  
**Subject:** C-106 Letter from Transporter: LOGOS Heros 2308 09L pad

Good afternoon Ernie,

LOGOS is working on the C-106 Letter from Transporter submittal to NMOCD for Heros 2308 09L Com 1H well pad. Please reply back to this email with your approval.

LOGOS Operating, LLC is requesting approval from the transporter to utilize Pipeline Transfer LACT equipment on the Heros 2308 09L Com 1H well pad. Product from the below listed well would be produced through the LACT equipment, gathered through LOGOS pipeline, and transferred into Whiptail Midstream, LLC's (transporter) pipeline system through a check meter. Whiptail Midstream, LLC will be responsible for transporting WPX Energy Production, LLC's product to sales.

**Heros 2308 09L PIPELINE LACT UNIT**  
**WELLS TO BE SERVED BY PIPELINE LACT UNIT:**

- Heros 2308 09L Com 1H / API #30-045-35688 / UNIT L (NW/SW) Sec. 9, T23N, R8W, NMPM

Tamra Sessions  
Regulatory Specialist  
Office 505-324-4145  
[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)



DISTRICT I  
1685 N. French Dr., Hobbs, N.M. 88240  
Phone: (575) 388-8181 Fax: (575) 388-8780

DISTRICT II  
511 E. First St., Artesia, N.M. 88203  
Phone: (575) 748-1883 Fax: (575) 748-0780

DISTRICT III  
1000 Rio Bravo Rd., Ambo, N.M. 87410  
Phone: (505) 284-8178 Fax: (505) 284-8170

DISTRICT IV  
1880 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3680 Fax: (505) 476-3688

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**

<sup>1</sup> API Number 30-045-35688		<sup>2</sup> Pool Code 47540		<sup>3</sup> Pool Name NAGEEZI GALLUP	
<sup>4</sup> Property Code 317282		<sup>5</sup> Property Name HEROS 2308 09L COM			<sup>6</sup> Well Number #1H
<sup>7</sup> GRID No. 289408		<sup>8</sup> Operator Name LOGOS OPERATING, LLC			<sup>9</sup> Elevation 6916

<sup>10</sup> Surface Location

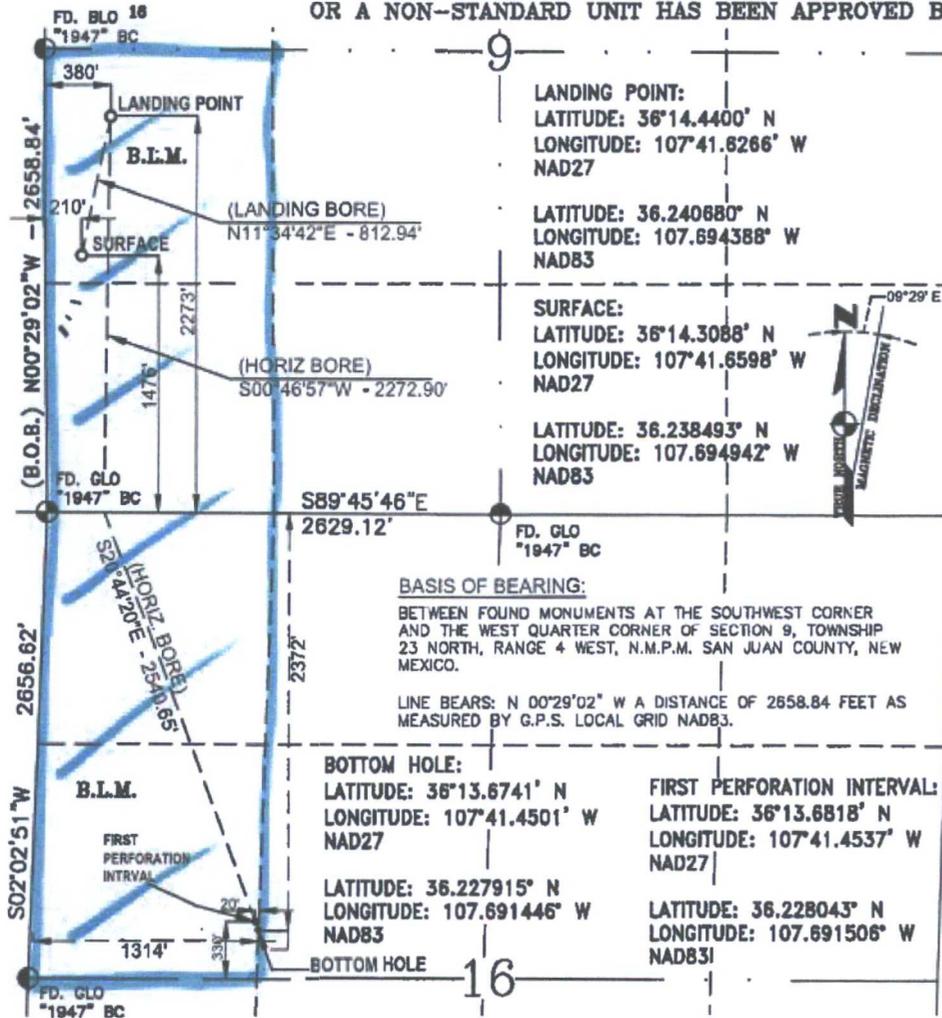
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	9	23-N	8-W		1476	SOUTH	210	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	16	23-N	8-W		2372	NORTH	1314	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 160ACRE= W/2SW/4 SEC 9 W/2NW/4 SEC 16	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

*Tamra Sessions* 5/2/17  
Signature Date  
Tamra Sessions  
Printed Name  
tsessions@logosresourcesllc.com  
E-mail Address

**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.

MAY 1, 2017  
Date of Survey



Signature and Seal of Professional Surveyor  
GLEN W. RUSSELL  
Certificate Number 15703