| 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 NOTICE OF INTENTION TO U Operator Enduring Resources IV, LLC Address 200 Energy Court, Farmington N | State of Energy Minerals Oil Conser 1220 South Santa Fe TILIZE AUTOM | New Mex and Natura vation Di St. France, NM 873 IATIC C | kico al Resourc vision cis Dr. 505 USTODY | DEC 2 6 2 DISTRICT TRANSFER | Revised 2018 AC EQUIPME | Form C-106 August 1, 2011 C- 38 CT Permit No. |
|---|--|--|---|--------------------------------------|----------------------------------|--|
| Lease(s) to be served by this ACT Unit:N | MNM-135218X (W | V Escavada | Unit) | | | - |
| Pool(s) to be served by this ACT Unit | Escavada W; Mar | ncos (9822. | 5) | | | |
| Location of ACT System: Unit <u>M</u> Order No. authorizing commingling between leas | Section <u>17</u> es if more than one | Tease is to l | ownship be served b | 22N y this system. | Range | <u>7W</u> |
| <u>R-14100-A</u> Order No, authorizing commingling between poo | ls if more than one i | Date | 11/30/ e served by | 2017 this system | | |
| erder rie autorizing commigning between poo | | | e serveu oy | uns system | | |
| <u>N/A</u> | | | Da | te <u>N/A</u> | | |
| Authorized transporter of oil from this system | Enduring Reso | ources IV, I | LLC | | | |
| Transporter's address200 Energy Co | ourt, Farmington NN | M 87401 | | | | |
| 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 B. Providing adequate available capacity to receive production as required by 19.15.18.15.C(8) NMAC If "A" above is checked, will flowing wells be shut-in at the header manifold or at the wellhead? NA Maximum well-head shut-in pressure N/A | | | | | | |
| If "B" above is checked, how much storage capac | ity is available aboy | ve the norm | al high wo | rking level of the | | |
| surge tank <u>150</u> What is the normal maximum unattended time of What device will be used for measuring oil in this CHECK ONE: Positive displacement me Positive volume metering | BBLS. lease operation? ACT unit? eter g chamber | Sixtee | en (16) Weir-typ Other; des | e measuring vess | el s Meter | Hours. |
| Remarks:This LACT will be selling to pr | peline. | | | | | |
| OPERATOR: I hereby certify above information is true and comy knowledge and subject ACT system will be in operated in accordance with Rule 19.15.18.15 N this Form C-106 does not eliminate necessity of an approver running any off or gas from this system. Signature Printed Name & Title Lacey Granillo Permit E-mail Address Igranillo@enduringresources.com | mplete to best of nstalled and MAC. Approval of ed C-104 prior to Specialist | OIL CO Approve Title: Date: | DNSERV d by: <u></u> De / / 3 / | Prand Fre puty Oil & G Distric | VISION | otor, |

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 AUTOMATIC CUSTODY TRANSFER EQUIPMENT W ESCAVADA UNIT 305H & 306H, PIPELINE LACT UNIT

WELLS TO BE SERVED BY PIPELINE LACT UNIT:

- W Escavada Unit 305H / API #30-043-21309/ UNIT M Sec. 17, T22N, R7W, NMPM
- W Escavada Unit 306H / API #30-043-21313/ UNIT M Sec. 17, T22N, R7W, 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.

• Summary is attached to Form C-106 Notice of Intent to Utilize Automatic Custody Transfer Equipment

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 a manual tank sale. It is proved per BLM Onshore Order #4 <u>Measurement of Oil</u> and API MPMS Chapter 4 <u>Proving Systems</u>; 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 communicates 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 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 <u>Measurement of Oil</u> and API MPMS Chapter 4 <u>Proving Systems</u>; 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 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 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 $1\frac{1}{2}$ 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 <u>Measurement of Oil</u> and API MPMS Chapter 4 <u>Proving Systems</u>; 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 semiannual 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 <u>Measurement of Oil</u> and API MPMS Chapter 4 <u>Proving Systems</u>; 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 semiannual 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.



| 34 | 35 23N 8W | 36 Z3N 87 | ML N231 | 32 23N 1 | 33 7 W | 34 |
|----|--------------|-----------|--|------------------|-----------|------------------------------------|
| | 22N 8W | 7 | | 22N 1 | 7 VV | |
| 03 | 02 | 01 | 06 | 05 | 04 | 03 |
| 10 | 11 | San Juan | Sandoval | -08 | 09 | 10 |
| 15 | 14 | 13 | 3061H 3051H | 17 | 16 | 15 |
| 22 | 23 | 24 Wes | ¹⁹ st Escavada MNM 135218 | 20 Unit 3X | 21 | 22 |
| 27 | 26 | 25 N8 N2Z | 22N 7W | 29 | 28 | 27 |
| 34 | 35 | 36 | 31 | 0 0.5 | 1 1.5 | ² Miles ₄ |

| ۰ | Point of Entry | Section |
|---|----------------|---------------|
| | Laterals | Township |
| | Pad | County Line |
| | | Approved Unit |

WEU 305 Pad

Lease Plat Map

San Juan and Sandoval Counties, NM

Scale (absolute) -1:50,000



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

16

I ONG:

(RECORD)

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Drive

Submit one copy to Appropriate District Office

AMENDED REPORT

110

Santa Fe. NM 87505 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number ²Pool Code Pool Name 143-2130 98225 ESCAVADA W: MANCOS Property Code Property Name Well Number 321258 W ESCAVADA UNIT 305H OGRID No Elevation "Operator Name ENDURING RESOURCES, LLC 372286 6805 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 M 17 22N 7W 497 SOUTH 220 WEST SANDOVAL 11 Bottom Hole Location If Different From Surface UL or lat na Section Township Range Lot Idn Feet from the North/South line Feet from the County East/West line Ι 12 22N 2301 8W SOUTH 570 EAST SAN JUAN 12 Dedicated Acres ¹³ Joint or Infill 14 Consolidation Code ¹⁵ Order No. NE/4 SE/4 -Section 12 R-14100 481.94 NE/4 SE/4, SE/4 NE/4 W/2 NE/4, NE/4 NW/4, -Section 18 W/2 SW/4, SE/4 SW/4 - Section 17 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION W/2 SW/4, SE/4 SW/4 - Section 7 UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION (RECORD) SB9 *54 W 2628.12 · Kg K (RECORD) NB9 *58 W 2638.02 · (RECORD) N89 *58 W 2612.94 (RECORD) N89 *35 W 2612.94 NB9 *08 '38 'W 2631.31' (MEASURED) N89 *17 51 W 2629.31 (MEASURED) N89 °09 '08 "W 2612.16 ' (MEASURED) NB8 *44 '48 'W 2613.20' (MEASURED) END-OF-LATERAL OPERATOR CERTIFICATION 40 ¹² OPERATUR 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 drail this well at this location pursuant to a contract with an owner of such a mineral are working interest or to a voluntary pooling agreement or a computing pooling order hereboting entered by die division. (MEASURED) 24 53 "E 2656.01 2301' FSL 570' FEL SEC 12, T22N, R8W LAT: 36.153234 "N 84 LOT (MEASURED) 9'19"E 2642.4 1 2655. CORD) 2642 .3 (ORD) LONG: 107.625970 *W DATUM: NAD1927 395 E 12 E LAT; 36.153249 "N .ONG: 107.626579 "W DATUM: NAD1983 65. LOT So NO LOV 20 570 100 12 8 330 121 (MEASURED) (MEASURED) 1 30 °E 2641.37 NO \$58 23 E 2630.92 NO "10 E 2631.42" (RECORD) LOT 2642 .: CORD) 3 Name (MEASURED) N89 "10 '17 "W 2647.38 Tanto . Crowing Repuestion 2301 шШ 2 10. N89 *59 W 2648.58 (RECORD) (RECORD) WEST 2628.12 S SURVEYOR CERTIFICATION NO1 4 (MEASURED) 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. N89 °11 '44 "W 2627.79 (MEASURED) N89 *11 '28 'W 2613.47' N89 *59 W 2614.26 (RECORD) (MEASURED) N89 *17 '33 'W 2638.60 ' NAR OLO POINT-OF-ENTRY S89 *53 W 2637.36 (RECORD) R LOT .88. 27 POINT-OF-ENTRY 330° FSL 1419° FWL SEC 17, T22N, R7W LAT: 36.133196°N LONG: 107.601483°W DATUM: NAD1927 2632. "DA IOFIIS Date Revised: NOVEMBER 16, 2018 Survey Date: OCTOBER 7, 2015 "51'14'E 2633. 1 2651.E 2652. 2652. URED) "02 E (REC "09 W 201"E Signature and Seal of Professional Surveyor LAT: 36.133211 °N LONG: 107.602091 °W LOT 1. 0F. NO SON C. EDWARDS MEXICO NO DATUM: NAD1983 9 I.E.W 18 13 17 SURFACE 497' FSL 220' FWL SEC 17, T22N, R7W LAT: 36.133713 *N LONG: 107.605539 *W DATUM: NAD1927 78 LOT (MEASURED) REGISTER SCHLEYOR 74 (URED) 2632. N01 *14 '33 'E 2645.89' 15269 3 12 'E 2632.7 (RECORD) NO "26 E 2645.28 (RECORD) (MEASU) Sao AROFESSIONAL 20. De de la 55 LAT: 36.133728 °N LONG: 107.606147 °W LOT 20 220' 9 1 DATUM: NAD1983 1419 JASON 330 DWARDS (MEASURED) N89 "28 51 "W 2639,56" (MEASURED) (MEASURED) 497 (MEASURED) N88 *51 28 W 2645.82 (MEAJONED) N88 *48 13 W 2607.06 N89 *39 W 2607.66 ((RECORD) N88 "09 58 W 2605.06 Certificate Number 15269 S89 *43 W 2640.00 N89 "39 W 2647.26" (RECORD)

N88 *56 W 2606.67 (RECORD)

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

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State of New Mexico Energy, Minerals & Natural Resources Department

Submit one copy to Appropriate District Office

AMENDED REPORT

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





Enduring Resources IV, LLC's W Escavada Unit 305H Well Pad Facility Diagram Section 17, T22N, R7W, NMPM Sandoval County, New Mexico

X

- - - -

Lacey Granillo

From: Sent: To: Cc: Subject: Andrea Felix Wednesday, December 26, 2018 6:44 AM Lacey Granillo Casey Haga Re: W Escavada Unit 305H C-106 Letter From Transporter

Lacey,

I approved the use of the W Escavada Unit 305H Pad Pipeline Transfer LACT as described below.

Thank you,

Andrea Felix Regulatory Manager Enduring Resources

Sent from my iPhone

On Dec 26, 2018, at 6:41 AM, Lacey Granillo <LGranillo@enduringresources.com > wrote:

Andrea,

As part of Enduring Resources IV, LLC's (Enduring) W Escavada Unit 305H Pad Pipeline Transfer LACT Unit C-106 LACT application to the NMOCD Aztec office, Enduring needs an approved letter from transporter. For this particular LACT unit, Enduring will be the transporter of product downstream of the LACT unit to an existing tie-in to Andeavor. This LACT Unit will be the official measurement point for sales with a Coriolis check meter downstream at tie-in for verification and pipeline monitoring. Does Enduring approve of utilizing a LACT unit on the W Escavada Unit 305H Pad as the measurement point for sales for the below listed wells and transporting their own product downstream to tie-in? Pipeline Transfer LACT equipment for the below listed wells will be located on Enduring's W Escavada Unit 305H pad. LACT will be proved per regulatory requirements.

WELLS TO BE SERVED BY PIPELINE LACT UNIT:

- W Escavada Unit 305H / API #30-043-21309/ UNIT M Sec. 17, T22N, R7W, NMPM
- W Escavada Unit 306H / API #30-043-21313/ UNIT M Sec. 17, T22N, R7W, NMPM

Thank you,

Lacey Gravillo Permitting Specialist Enduring Resources 200 Energy Ct Farmington NM 87401 (O) 505-636-9743 (C) 505-947-1704 Igranillo@enduringresources.com <image001.jpg>