Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANGEMENT

FORM APPROVED OMB No. 1004-0135

| | | OM | 3 No. | 1004 | -0135 | |
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| xpires | Novembe | er 30, 200 | 00 | | | |
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| Oil Well X Gas Well | Other | | | , O | 11/2 | <u> </u> | | y LS 4 |
| • | Attn. Man. | Contou | \(\frac{1}{2}\) | JAN 20 | nr o | 9. APIV | | E-07047 |
| | Attn: Mary | | Vo (include a | DI | | CIP Field an | | |
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| | | y Description) | | 11 14111 10-10- | § - E | 1.73/ | | |
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| 12. CHECK | APPROPRIAT | E BOX(ES) TO | INDICATE N | NATURE OR N | OTICE, R | EPORT, OR C | THER DATA | \ \ |
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| | Asidira | | Doomon | ITE | | | me) | ☐ Water shut-Off |
| <u>ല</u> | l | | • | | 1 | | ilie) | Well Integrity |
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| I Final Abandonment Notice | | _ | | | | | | , Abandon |
| | | ~ _ | - | Y Y | 1 | - | nniete & Do | wnhole Commingle |
| BP America Production Comp production Downhole with the Production is proposed to be Pictured Cliffs and Mesaverde commingled well. The balance for the Pictured Cliffs & Mesav The interest owners are identi- commingling approval. Commingling Production Dow | any request period allocated base Pools. This e of the producerde Pools cal between the producer | permission to nco Mesaver sed on the su s production uction will be these three P subject well | o complete to de & Blanco ubtraction me shall serve a e attributed from the pro | the subject we could be subject who south Picture ethod using as a base for the Chacra ore, no additional country and the country ore, no additional country or additional co | vell into the project production of the project of the production | he Otero Chas production ected future ion subtractioned are the future fitting the future in the future in the future in the future is respectively. | as per the decline for ed from the uture produ equired price | attached procedure. production from the total production for the ction decline estimates or to downhole |
| 14. I hereby certify that the foregoing is | s true and corre | -4 | T | S OF APE | PROVA | .1 | | |
| Name (Printed/typed) | Mary Corley | Adhe | | | | · | Regulatory | Analyst |
| Man (rimed types) | | | | | | Centor | | |
| Signature /////Wy // | uer | | | 3.1 | . A. S | na jego na sa | 12/14/200 | |
| | // THIS | SPACE FO | R FEDERA | L OR STAT | E OFFIC | E USE | | |
| Approved by Mark Ha | best_ | | . — — Ti | tle PETE | ENG | D | ate //3 | 106 |
| that the applicant holds legal or equitable title to | those rights in the | | hich would | ffice ${\cal S}$ | LM- | FFN | | |
| | | n 1212, make i | | | ingly and v | willfully to ma | ke to any depa | artment or agency of the |

United States any false, fictitious or fraudulent statements or representations as to any matter witin its jurisdiction.

Storey LS 4 Recompletion to Chacra & DHC With Mesaverde & Pictured Cliffs Dec 12, 2005

Procedure:

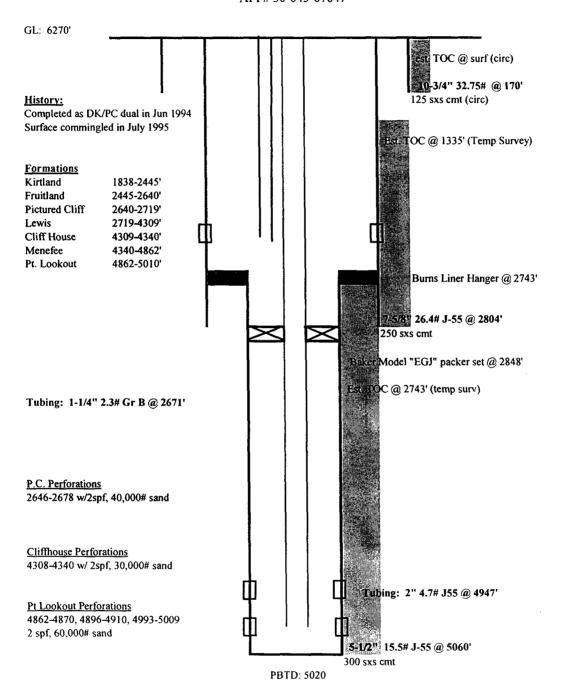
- 1. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting, critical location, check anchors. Check ID wellhead, if earth pit is required have One Call made 48 hours prior to digging.
- 2. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and Scheduling to ready location for rig.
- 3. RU slickline unit or wireline unit. Pressure test lubricator and equipment. RIH and set two barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation in tubing strings.
- 4. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.
- 5. MIRU workover rig. LO/TO all necessary equipment including but not limited to: meter run, Automation, Separators and water lines.
- 6. Blow down well. Kill with 2% KCL water ONLY if necessary.
- 7. Check all casing strings to ensure no pressure exist on any annulus. The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.
- 8. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi above BHP. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
- 9. Install stripping rubber.
- 10. TOH and LD 1-1/4" production tubing currently set at 2671'. Using approved "Under Balance Well Control Tripping Procedure".
- 11. TOH w/ Baker EGJ packer set at 2848' and 2" production tubing currently set at 4947'. Using approved "Under Balance Well Control Tripping Procedure".
- 12. TIH w/ scraper for 5-1/2". Check the distance between the top of the blind rams and the length of the bottom hole assembly that is being run. If the BHA is too long then the well has to be top killed and monitored prior to opening bind rams. RIH to PBTD at 5,020'. POOH.
- 13. Set bridge plug at 4,100'. Fill casing to PC (2640') w/ approximately 40 bbl of 2%KCl.

- 14. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from CIBP to TOL at 2743'. If TOC is below ---', contact engineer to discuss need for remedial cement squeeze.
- 15. If cement work is required, contact the appropriate NMOCD and/or BLM authorities to notify them of the work. The BLM: 505-599-8907 and NMOCD: 505-334-6178
- 16. TIH w/ workstring and blow well dry.
- 17. Prepare for explosive operations. Follow Schlumberger Explosive SOP including radio silence, suspension of welding operations, and isolation of electrical devices from the work area. Perform Pre-job Safety Meeting to review JSA and procedures. Meeting should address the VDR (vehicle data recorder) System that Bp people have installed on their vehicles. They must be shut off at the 300 foot sign by hitting 00 and then the enter button, and then wait for about 5 minutes for the unit to turn off. When the green light goes out, call the control center at 326-9475. This number is on a pickup list in the Optimizer room and should be your first point of contact followed by the front desk then the weekend pager. Verify the unit is not transmitting. You then can drive to location and park, but do not to exceed 10 Miles/hr. Note: 20 MPH will turn unit back on. If someone has On Star on their vehicle they cannot enter closer than 300 foot. On Star cannot be turned off. PLEASE take special caution. This is in conjunction with all cell phones, pagers, radios and any electronic devise that transmits a signal.
- 18. RIH with 3-1/8" casing guns w/lubricator. Perforate Chacra formation
- 19. RIH w/ packer and 3-1/2" frac string. Set packer.
- 20. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures, less than 5,000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
- 21. Flowback frac immediately. Flow well through choke manifold on ¼", ½" and ¾" chokes increasing drawdown until well dies or stabilizes. This is to aid in reducing sand flowback. Recommend 8 hours of flow for each choke size.
- 22. TOH w/packer and 3-1/2" work string.
- 23. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 5-1/2" casing. Cleanout fill to top of BP set at 4,100'.
- 24. RIH w/ packer and 3 ½" string and set packer. Perform well test on Chacra document well test in DIMS. Notify Marey Corely in Houston of well test in order for the C-104 to be filed.
- 25. Cleanout fill and BP set at 4,100'. Cleanout to PBTD at 5,020'. Blow well dry.
- 26. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).

- 27. Land 2-3/8" production tubing at +/-4,950'. Lock down hanger.
- 28. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem caused if tubing parts close to surface or above the hanger. Check all casing string for pressure. The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.
- 29. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead.
- 30. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.
- 31. RD slickline unit.
- 32. Test well for air. Return well to production and downhole tri-mingle PC, Chacra and Mesaverde.

Storey LS #4

Sec 34, T28N, R8W API # 30-045-07047



NOTES:

- 1) El Paso commingle application approved 12/3/1974.
- 2) Can't find evidence that paker or siphon string have been removed
- 3) Packer leaks

updated: 8/2/05 JG

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

District II

811 South First, Artesia, NM 88210

District [1]

1000 Rio Brazos Rd., Aztec, NM 87410

<u>District IV</u> 2040 South Pacheco, Santa Fe, NM 87505 OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, NM 87505

2005 DEC 19 PM 4 38

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | API Number 0-045-0704 | | | 1 Code 329 | | 070 | O FARMI | ro Chacra | |
|------------------------------|--------------------------|-----------------------|--------------|---------------|--|-------------------|--------------------|-------------------|------------------------------------|
| ⁴ Propert 0011 | | | • | | ⁵ Property Nam Storey LS | * | | | ⁶ Well Number 4 |
| ⁷ ogrii 0007 | | | | BP Ameri | * Operator Nan ca Productio | on Company | | | ⁹ Elevation 6260' GR |
| | | | |] | Surface I | ocation | | | |
| UL or lot no. Unit B | Section 34 | Township 28N | Range 08W | Lot Idn | Feet from 900' | North/South North | Feet from 1650' | East/West East | County San Juan |
| | _ | | 11 Botto | m Hole | Location If | Different I | From Sur | face | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from | North/South | Feet | East/West | County |
| 12 Dedicate | | ¹³ Joint o | r Infill | | 14 Consolidation (| Code | | ¹⁵ On | der No. |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD LINIT HAS BEEN APPROVED BY THE DIVISION

| NON-STANDA | RD UNIT HAS BEEN APPROVED BY THE | DIVISION |
|------------|----------------------------------|--|
| | 006 1650' | 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Mary Corley Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 12/14/2005 Date |
| | | 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. 3/19/1957 Date of Survey Signature and Seal of Professional Surveyor: On File Certificate Number |

Storey LS 4

Future Production Decline Estimate Pictured Cliffs Daily Rates

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| Jan. 10/120 | 19 | 19 | 19 | 18 | 17 | 15 | 17 | 18 | 17 | 18 | 18 | 15 | 18 | 19 | 17 | 15 | 17 | 18 | 16 | 15 | 15 | 15 | 15 | 7 |
| 71 - 41-41 | 7= | Feb-2004 | Mar-2004 | Apr-2004 | May-2004 | Jun-2004 | Jul-2004 | Aug-2004 | Sep-2004 | Oct-2004 | Nov-2004 | Dec-2004 | Jan-2005 | Feb-2005 | Mar-2005 | Apr-2005 | May-2005 | Jun-2005 | Jul-2005 | Aug-2005 | Sep-2005 | Oct-2005 | Nov-2005 | 2000 |

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| Gas Volume | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 6 | | | | | | 8 | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 |
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| Month | Jan-2007 | Feb-2007 | Mar-2007 | Apr-2007 | May-2007 | Jun-2007 | S | Aug-2007 | -200 | -20 | -20 | Dec-2007 | Feb-2008 | Mar-2008 | Apr-2008 | May-2008 | Jul-2008 | Aug-2008 | Sep-2008 | Nov-2008 | Dec-2008 | Jan-2009 | Feb-2009 | Mar-2009 | Apr-2009 | May-2009 | Jun-2009 | Jul-2009 | Aug-2009 | Sep-2009 | Oct-2009 | Nov-2009 | Dec-2009 | Jan-2010 |

Dec-2005 Jan-2006

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Future Production Decline Estimate Pictured Cliffs Daily Rates

Storey LS 4

| Gas Volume | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | _ | - | 7 | = | Ψ | - | 7 | _ | 1 | 7 | _ | - | - | - | 1 | 1 | 1 | _ | 7 | * | 1 | - |
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| Month | Feb-2016 | Mar-2016 | Apr-2016 | May-2016 | Jun-2016 | Jul-2016 | Aug-2016 | Sep-2016 | Oct-2016 | Nov-2016 | Dec-2016 | Jan-2017 | Feb-2017 | Mar-2017 | Apr-2017 | May-2017 | Jun-2017 | Jul-2017 | Aug-2017 | Sep-2017 | Oct-2017 | Nov-2017 | Dec-2017 | Jan-2018 | Feb-2018 | Mar-2018 | Apr-2018 | May-2018 | Jun-2018 | Jul-2018 | Aug-2018 | Sep-2018 | Oct-2018 | Nov-2018 | Dec-2018 | Jan-2019 |
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| Gas Volume | 3 | Mar-2013 | Apr-2013 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | Jan-2014 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | Apr-2015 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | ď |
| 45.7 | | | | May-2013 | Jun-201 | Jul-201; | Aug-201; | Sep-201; | Oct-201; | Nov-2013 | Dec-201; | ائدا | Feb-2014 | Mar-2014 | Apr-2014 | May-2014 | Jun-2014 | Jul-2014 | Aug-2014 | Sep-2014 | Oct-2014 | Nov-2014 | Dec-2014 | Jan-2015 | Feb-2015 | Mar-2015 | ~ | May-2015 | Jun-2015 | Jul-2015 | Aug-2015 | Sep-2015 | Oct-2015 | Nov-2015 | Dec-2015 | lan-2016 |

Storey LS 4

Future Production Decline Estimate

Mesaverde Daily Rates

Gas Volume

Month Jan-2004

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Apr-2004 May-2004 May-2004 Jun-2004 Jul-2004 Aug-2004 Sep-2004 Oct-2004

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Nov-2004 Jan-2005 Jan-2005 Mar-2005 May-2005 Jun-2005 Jul-2005

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31

| Gas Volume | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 |
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| Month | Jan-2007 | Feb-2007 | Mar-2007 | Apr-2007 | May-2007 | Jun-2007 | Jul-2007 | Aug-2007 | Sep-2007 | | Nov-2007 | Dec-2007 | | Feb-2008 | | Apr-2008 | ay-20 | Jul-2008 | Aug-2008 | ep-20 | Oct-2008 | Nov-2008 | 20 | | Feb-2009 | Mar-2009 | Apr-2009 | May-2009 | Jun-2009 | Jul-2009 | ģ | -200 | ct- | O | 8 | Jan-2010 |

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Dec-2005 Jan-2006

Feb-2006 Mar-2006

Apr-2006 May-2006 Jul-2006

Aug-2006

Jun-2006

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Aug-2005 Sep-2005

Oct-2005 Nov-2005

| Gas Volume | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 |
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| Month | Feb-2010 | Mar-2010 | Apr-2010 | May-2010 | Jun-2010 | Jul-2010 | Aug-2010 | Sep-2010 | Oct-2010 | Nov-2010 | Dec-2010 | Jan-2011 | Feb-2011 | Mar-2011 | Apr-2011 | May-2011 | Jun-2011 | Jul-2011 | Aug-2011 | Sep-2011 | Oct-2011 | Nov-2011 | Dec-2011 | Jan-2012 | Feb-2012 | Mar-2012 | Apr-2012 | May-2012 | Jun-2012 | Jul-2012 | Aug-2012 | Sep-2012 | Oct-2012 | Nov-2012 | Dec-2012 | Jan-2013 |

Sep-2006 Oct-2006 Nov-2006

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Storey LS 4 Future Production Decline Estimate Mesaverde Daily Rates

| • - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Gas Volume | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 |
| | | Feb-2013 | Mar-2013 | Apr-2013 | May-2013 | Jun-2013 | Jul-2013 | Aug-2013 | Sep-2013 | Oct-2013 | Nov-2013 | Dec-2013 | Jan-2014 | Feb-2014 | Mar-2014 | 201 | May-2014 | Jun-2014 | Jul-2014 | Aug-2014 | Sep-2014 | Oct-2014 | Nov-2014 | Dec-2014 | Jan-2015 | Feb-2015 | 7 | Apr-2015 | May-2015 | Jun-2015 | Jul-2015 | Aug-2015 | Sep-2015 | Oct-2015 | Nov-2015 | Dec-2015 | Jan-2016 |

| Gas Volume | 7 | 2 | 7 | 7 | 2 | 2 | 7 | 2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 5 | 5 | 2 | 2 | 2 | | | 5 | | | |
|------------|----------|----------|----------|------|----------|----------|----------|------|-----|----------|----------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|--------|----------|----------|----------|----------|
| Month | Feb-2016 | Mar-2016 | Apr-2016 | -201 | Jun-2016 | Jul-2016 | Aug-2016 | -201 | 201 | Nov-2016 | Dec-2016 | -201 | Feb-2017 | Mar-2017 | Apr-2017 | May-2017 | Jun-2017 | Jul-2017 | Aug-2017 | Sep-2017 | Oct-2017 | Nov-2017 | Dec-2017 | Jan-2018 | Feb-2018 | Mar-2018 | Apr-2018 | May-2018 | Jun-2018 | Jul-2018 | -201 | ep-201 | Oct-2018 | Nov-2018 | Dec-2018 | Jan-2019 |

District I

1625 N. French Drive, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15,

2000

District II

811 South First Street, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

Pools District IV

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE

X Single Well

__ Establish Pre-Approved

EXISTING WELLBORE

X Yes No

| BP Ame | rica | Pro | duction Company | P. O. Box 3092 | Housto | n, TX 772 | 53 | | | |
|-----------|------|-----|---------------------|-------------------|--------------|-------------|----|-------------|-------|-----|
| Operator | | | | Add | ress | | | | | |
| Storey | LS | 4 | Unit I | Section 34 T28N | , R08W | | | | San J | uan |
| Lease | | | Well No. | Unit Letter-S | ection-Towns | hip-Range | | | Coun | ty |
| OGRID No. | 000 | 778 | Property Code 00113 | 33 API No. 30-045 | -07047 | Lease Type: | X | _ Federal _ | State | Fee |

| DATA ELEMENT | UPPER ZONE | INTERMEDIATE ZONE | LOWER ZONE 1938/2 |
|--|-----------------|-------------------|----------------------|
| Pool Name | Blanco PC South | Otero Chacra | Blanco Mesaverde |
| Pool Code | 72439 | 82329 | 72319 |
| Top & Bottom of Pay Section (Perforated or Open-Hole Interval) | 2646' – 2678' | To Be Determined | 4308' – 5009' |
| Method of Production (Flowing or Artificial Lift) | Artificial Lift | Artificial Lift | Artificial Lift HORE |
| Bottomhole Pressure | 425 | 430 | 590 |
| Oil Gravity or Gas BTU (Degree API or Gas BTU) | 1246 | 1210 | 1246 |
| Producing, Shut-In or New Zone | Producing | New Zone | Producing |
| Date and Oil/Gas/Water Rates of Last Production. | Date: Rates: | Date: Rates: | Date: Rates: |
| Fixed Allocation Percentage | Oil Gas % | Oil Gas % | Oil Gas % |

ADDITIONAL DATA

| Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? | Yes X No |
|--|--|
| Are all produced fluids from all commingled zones compatible with each other? | er in the entire of the |
| | Yes_X No |
| Will commingling decrease the value of production? | e e e e e e e e e e e e e e e e e e e |
| | YesNo_X |
| 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? | YesXNo |
| NMOCD Reference Case No. applicable to this well: | منده است. این فراند این فراند |

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.