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ODA-0004
6763

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MF113599

State Lease	Control	Base File	County
MF113599	07-032285	143965	CULBERSON
MF113599	07-032800	135674	CULBERSON
MF113599	07-033104	135679	CULBERSON

Survey	PUBLIC SCHOOL LAND	
Block	111, 113, 114	
Block Name		
Township		
Section/Tract	5, 19, 24	
Land Part		
Part Description		
Acres	1423.7 GROSS / 1067.775 NET	
Depth Below	Depth Above	Depth Other

Name	LEGEND NATURAL GAS IV, LP	
Lease Date	7/29/2011	
Primary Term	3 yrs	
Bonus (\$)	\$1,067,775.00	
Rental (\$)	\$0.00	
Lease Royalty	0.1250	

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CONTENTS OF FILE NO. MF 113599

1. RAL Review Sheet	10/10/11	scanned PT 7-11-2019
2. Lease	7/29/11	9. Recon Billing 8/16/2021
3. Cover Letter, Bonus, and Fees	9/30/11	Scanned TG 8-18-21
4. Final Letter	6/6/12	See MF111132 #44 Surface Damage Pmt
5. Rental	9/18/12	Scanned W 11-3-2021
Scanned sm 2/22/13		See MF111132 #45
6. Rental Payment - 3rd year	06/28/2013	Surface Damage 3-11-22
Scanned sm 7/15/13		Scanned TG 3/14/2022
See MF113061 #7 for Assignment 8671		See MF111133 #47 Division Order
See MF111132 #13 for Assignment #8979		scanned PT 1-26-2023
See #9 in M-112402 for the		See MF111132 #46. Clarification
Horseshoe Springs State Unit #6763		And Correction of Amended
Scanned PT 9-18-14		Unit Agreement #06763
See MF111132 #15 for Assignment #9198		Horseshoe Springs State Unit 4/24/23
Scanned PT 1-12-15		scanned PT 4-25-2023
See MF111132 #15 for Assignment #9198		See MF111132 #47
See ODA-0004 see Unit 6763		Surface Damage 5/12/23
scanned PT 2-8-16		scanned PT 5-23-2023
See #27 in M-111132 for 2017 Plan of Dev. For		See MF111132 #48 Recorded Copy
Horseshoe Springs State Unit ODA #4		Clarification And Correction of Amended
Also See #s 17-25 in M-111132 for info ODA #4		Unit Agreement #06763 Horseshoe
scanned PT 3-27-17		Springs State Unit 6/7/23
7. Division Order	8-23-17	scanned PT 6-14-2023
Scanned W 9-19-2017		See MF111132 #50- Designation
8. Commingling Approval 3/27/2018		of Retained Tract Horseshoe
scanned PT 4-3-2018		Springs State Unit ODA #4
See #s 34 & 37 in M-111132 for the 2018		scanned W 2-27-2024
Plan of Dev. & the 2nd Amd to the		
Horseshoe Springs State Unit ODA #4		
scanned PT 6-1-2018		
See #41 in M-111132 for the 2019 Plan of		
Dev. For the Horseshoe Springs State Unit		

RAL REVIEW SHEET

Transaction # 7470

Geologist:

Lessor: Roddy L. Harrison

Lease Date: 7/29/2011

UL ☒

Lessee: Legend Natural Gas

Gross Acres: 1423.7

Net Acres: 1067.775

LEASE DESCRIPTION

County	PIN#	Base File No	Part	Sec.	Block	Twp	Survey	Abst#
CULBERSON	07-033104	135679	all	24	114	00	PUBLIC SCHOOL LAND	5127
CULBERSON	07-032800	135674	all	19	113	00	PUBLIC SCHOOL LAND	5122
CULBERSON	07-032285	143965	all	5	111	00	PUBLIC SCHOOL LAND	6398

TERMS OFFERED

Primary Term: 3 years

Bonus/Acre: \$2,000.00

Rental/Acre: \$1.00

Royalty: 1/4

TERMS RECOMMENDED

Primary Term: 3 years

Bonus/Acre: \$2,000.00

Rental/Acre: \$1.00

Royalty: 1/4

COMPARISONS

MF #	Lessee	Date	Term	Bonus/Ac.	Rental/Ac.	Royalty	Distance
MF111134	Legend Natural Gas IV, LP	5/25/2010	5 years	\$423.00	\$1.00	1/4	Last Lease
Pending	Clay Johnson	7-20-11	5 Yrs	\$1300.00	\$1.00	1/4	Adjacent NE

Comments: 180 day continuous drilling starts at the end of the primary term

Approved: W 10/10/11

RELINQUISHMENT ACT LEASE APPLICATION

Texas General Land Office

Jerry Patterson, Commissioner

TO: Jerry Patterson, Commissioner
Larry Laine, Chief Clerk
Bill Warnick, General Counsel
Louis Renaud, Deputy Commissioner

DATE: 10-Oct-11

FROM: Robert Hatter, Director of Mineral Leasing
Tracey Throckmorton, Geoscience Manager

Applicant:	Legend Natural Gas	County:	CULBERSON
Prim. Term:	3 years	Bonus/Acre	\$2,000.00
Royalty:	1/4	Rental/Acre	\$1.00

Consideration

Recommended: mt Date: 10/10/11

Not Recommended: _____

Comments: 180 day continuous drilling starts at the end of the primary term

☒ Lease Form

Recommended: TCM Date: 10/2/11

Not Recommended: _____

Comments:

Louis Renaud, Deputy Commissioner Date: 10-20-11

Recommended: CLR

Not Recommended: _____

Bill Warnick, General Counsel

Date: 10/26/11

Recommended: WW

Not Recommended: _____

Larry Laine, Chief Clerk

Date: 10/26/11

Approved: LL

Not Approved: _____

Jerry Patterson, Commissioner

Date: 10/27/2011

Approved: Jerry E. Patterson

Not Approved: _____

File No. 113599

RAL Rouse Sheet

Date Filed: 10/10/11

Jerry E. Patterson, Commissioner

By Git

MT-113599A

#67194

OIL AND GAS LEASE

THIS AGREEMENT is made and entered into this 29th day of July, 2011, between the State of Texas, acting by and through its agent, **RODDY L. HARRISON, TRUSTEE OF THE HARRISON TRUST UNDER TRUST INDENTURE DATED 04/25/96, AS AMENDED**, P.O. Box 1908, Pecos, Texas 79772

said agent

(Give Permanent Address)

herein referred to as the owner of the soil (whether one or more), and **LEGEND NATURAL GAS IV, LP**
of 410 W. Grand Parkway South, Suite 400
Katy, Texas 77494

(Give Permanent Address)

hereinafter called Lessee.

1. GRANTING CLAUSE For and in consideration of the amounts stated below and of the covenants and agreements to be paid, kept and performed by Lessee under this lease, the State of Texas acting by and through the owner of the soil, hereby grants, leases and lets unto Lessee, for the sole and only purpose of prospecting and drilling for and producing oil and gas, laying pipe lines, building tanks, storing oil and building power Stations, telephone lines and other Structures thereon, to produce, save, take care of, treat and transport said products of the lease, the following lands situated in Culberson County, State of Texas, to-wit:

Block 114, Public School Land Survey
Section 24: All

Block 111, Public School Land Survey
Section 5: N/143.7 acres

Block 113, Public School Land Survey
Section 19: All

Containing 1,423.70 acres, more or less. The bonus consideration paid for this lease is as follows:

To the State of Texas: One Million Sixty-seven Thousand Seven Hundred Seventy-five and No/100-----
Dollars (\$ 1,067,775.00)

To the owner of the soil: One Million Sixty-seven Thousand Seven Hundred Seventy-five and No/100-----
Dollars (\$ 1,067,775.00)

Total bonus consideration: Two Million One Hundred Thirty-five Thousand Five Hundred Fifty and No/100-----
Dollars (\$ 2,135,550.00)

The total bonus consideration paid represents a bonus of Two Thousand and No/100-----
Dollars (\$ 2,000.00) per acre, on 1,067.775 net acres.

2. TERM. Subject to the other provisions in this lease, this lease shall be for a term of Three (3) years from this date (herein called primary term") and as long thereafter as oil and gas, or either of them, is produced in paying quantities from said land. As used in this lease, the term "produced in paying quantities" means that the receipts from the sale or other authorized commercial use of the substance(s) covered exceed out of pocket operational expenses for the six months last past.

3. DELAY RENTALS. If no well is commenced on the leased premises on or before one (1) year from this date, this lease shall terminate, unless on or before such anniversary date Lessee shall pay or tender to the owner of the soil or to his credit in the Pay direct to Lessor at the above address Bank, at, or its successors (which shall continue as the depository regardless of changes in the ownership of said land), the amount specified below; in addition, Lessee shall pay or tender to the COMMISSIONER OF THE GENERAL LAND OFFICE OF THE STATE OF TEXAS, AT AUSTIN, TEXAS, a like sum on or before said date. Payments under this paragraph shall operate as a rental and shall cover the privilege of deferring the commencement of a well for one (1) year from said date. Payments under this paragraph shall be in the following amounts:

To the owner of the soil: Five Hundred Thirty-three and 89/100-----
Dollars (\$ 533.89)

To the State of Texas: Five Hundred Thirty-three and 89/100-----
Dollars (\$ 533.89)

Total Rental: One Thousand Sixty-seven and 78/100-----
Dollars (\$ 1,067.78)

11006

- 1 -

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CULBERSON COUNTY, TEXAS

BY [Signature] DEPUTY



In a like manner and upon like payments or tenders annually, the commencement of a well may be further deferred for successive periods of one (1) year each during the primary term. All payments or tenders of rental to the owner of the soil may be made by check or sight draft of Lessee, or any assignee of this lease, and may be delivered on or before the rental paying date. If the bank designated in this paragraph (or its successor bank) should cease to exist, suspend business, liquidate, fail or be succeeded by another bank, or for any reason fail or refuse to accept rental, Lessee shall not be held in default for failure to make such payments or tenders of rental until thirty (30) days after the owner of the soil shall deliver to Lessee a proper recordable instrument naming another bank as agent to receive such payments or tenders.

4. **PRODUCTION ROYALTIES** Upon production of oil and/or gas, Lessee agrees to pay or cause to be paid one-half (1/2) of the royalty provided for in this lease to the Commissioner of the General Land Office of the State of Texas, at Austin, Texas, and one-half (1/2) of such royalty to the owner of the soil:

(A) **OIL.** Royalty payable on oil, which is defined as including all hydrocarbons produced in a liquid form at the mouth of the well and also as all condensate, distillate, and other liquid hydrocarbons recovered from oil or gas run through a separator or other equipment, as hereinafter provided, shall be 1/4th part of the gross production or the market value thereof, at the option of the owner of the soil or the Commissioner of the General Land Office, such value to be determined by 1) the highest posted price, plus premium, if any, offered or paid for oil, condensate, distillate, or other liquid hydrocarbons, respectively, of a like type and gravity in the general area where produced and when run, or 2) the highest market price thereof offered or paid in the general area where produced and when run, or 3) the gross proceeds of the sale thereof, whichever is the greater. Lessee agrees that before any gas produced from the leased premises is sold, used or processed in a plant, it will be run free of cost to the royalty owners through an adequate oil and gas separator of conventional type, or other equipment at least as efficient, so that all liquid hydrocarbons recoverable from the gas by such means will be recovered. The requirement that such gas be run through a separator or other equipment may be waived in writing by the royalty owners upon such terms and conditions as they prescribe.

(B) **NON PROCESSED GAS.** Royalty on any gas (including flared gas), which is defined as all hydrocarbons and gaseous substances not defined as oil in subparagraph (A) above, produced from any well on said land (except as provided herein with respect to gas processed in a plant for the extraction of gasoline, liquid hydrocarbons or other products) shall be 1/4th part of the gross production or the market value thereof, at the option of the owner of the soil or the Commissioner of the General Land Office, such value to be based on the highest market price paid or offered for gas of comparable quality in the general area where produced and when run, or the gross price paid or offered to the producer, whichever is the greater; provided that the maximum pressure base in measuring the gas under this lease shall not at any time exceed 14.65 pounds per square inch absolute, and the standard base temperature shall be sixty (60) degrees Fahrenheit, correction to be made for pressure according to Boyle's Law, and for specific gravity according to tests made by the Balance Method or by the most approved method of testing being used by the industry at the time of testing.

(C) **PROCESSED GAS.** Royalty on any gas processed in a gasoline plant or other plant for the recovery of gasoline or other liquid hydrocarbons shall be 1/4th part of the residue gas and the liquid hydrocarbons extracted or the market value thereof, at the option of the owner of the soil or the Commissioner of the General Land Office. All royalties due herein shall be based on one hundred percent (100%) of the total plant production of residue gas attributable to gas produced from this lease, and on fifty percent (50%), or that percent accruing to Lessee, whichever is the greater, of the total plant production of liquid hydrocarbons attributable to the gas produced from this lease; provided that if liquid hydrocarbons are recovered from gas processed in a plant in which Lessee (or its parent, subsidiary or affiliate) owns an interest, then the percentage applicable to liquid hydrocarbons shall be fifty percent (50%) or the highest percent accruing to a third party processing gas through such plant under a processing agreement negotiated at arm's length (or if there is no such third party, the highest percent then being specified in processing agreements or contracts in the industry), whichever is the greater. The respective royalties on residue gas and on liquid hydrocarbons shall be determined by 1) the highest market price paid or offered for any gas (or liquid hydrocarbons) of comparable quality in the general area, or 2) the gross price paid or offered for such residue gas (or the weighted average gross selling price for the respective grades of liquid hydrocarbons), whichever is the greater. In no event, however, shall the royalties payable under this paragraph be less than the royalties which would have been due had the gas not been processed.

(D) **OTHER PRODUCTS.** Royalty on carbon black, sulphur or any other products produced or manufactured from gas (excepting liquid hydrocarbons) whether said gas be casinghead, "dry," or any other gas, by fractionating, burning or any other processing shall be 1/4th part of the gross production of such products, or the market value thereof, at the option of the owner of the soil or the Commissioner of the General Land Office, such market value to be determined as follows: 1) on the basis of the highest market price of each product for the same month in which such product is produced, or 2) on the basis of the average gross sale price of each product for the same month in which such products are produced; whichever is the greater.

5. **MINIMUM ROYALTY.** During any year after the expiration of the primary term of this lease, if this lease is maintained by production, the royalties paid under this lease in no event shall be less than an amount equal to the total annual delay rental herein provided; otherwise, there shall be due and payable on or before the last day of the month succeeding the anniversary date of this lease a sum equal to the total annual rental less the amount of royalties paid during the preceding year. If Paragraph 3 of this lease does not specify a delay rental amount, then for the purposes of this paragraph, the delay rental amount shall be one dollar (\$1.00) per acre.

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CULBERSON COUNTY, TEXAS
BY [Signature] DEPUTY

77.00.6

6. ROYALTY IN KIND. Notwithstanding any other provision in this lease, at any time or from time to time, the owner of the soil or the Commissioner of the General Land Office may, at the option of either, upon not less than sixty (60) days notice to the holder of the lease, require that the payment of any royalties accruing to such royalty owner under this lease be made in kind. The owner of the soil's or the Commissioner of the General Land Office's right to take its royalty in kind shall not diminish or negate the owner of the soil's or the Commissioner of the General Land Office's rights or Lessee's obligations, whether express or implied, under this lease.

7. NO DEDUCTIONS. Lessee agrees that all royalties accruing under this lease (including those paid in kind) shall be without deduction for the cost of producing, gathering, storing, separating, treating, dehydrating, compressing, processing, transporting, and otherwise making the oil, gas and other products hereunder ready for sale or use. Lessee agrees to compute and pay royalties on the gross value received, including any reimbursements for severance taxes and production related costs.

8. PLANT FUEL AND RECYCLED GAS. No royalty shall be payable on any gas as may represent this lease's proportionate share of any fuel used to process gas produced hereunder in any processing plant. Notwithstanding any other provision of this lease, and subject to the written consent of the owner of the soil and the Commissioner of the General Land Office, Lessee may recycle gas for gas lift purposes on the leased premises or for injection into any oil or gas producing formation underlying the leased premises after the liquid hydrocarbons contained in the gas have been removed; no royalties shall be payable on the recycled gas until it is produced and sold or used by Lessee in a manner which entitles the royalty owners to a royalty under this lease.

9. ROYALTY PAYMENTS AND REPORTS. All royalties not taken in kind shall be paid to the Commissioner of the General Land Office at Austin, Texas, in the following manner:

Payment of royalty on production of oil and gas shall be as provided in the rules set forth in the Texas Register. Rules currently provide that royalty on oil is due and must be received in the General Land Office on or before the 5th day of the second month succeeding the month of production, and royalty on gas is due and must be received in the General Land Office on or before the 15th day of the second month succeeding the month of production, accompanied by the affidavit of the owner, manager or other authorized agent, completed in the form and manner prescribed by the General Land Office and showing the gross amount and disposition of all oil and gas produced and the market value of the oil and gas, together with a copy of all documents, records or reports confirming the gross production, disposition and market value including gas meter readings, pipeline receipts, gas line receipts and other checks or memoranda of amount produced and put into pipelines, tanks, or pools and gas lines or gas storage, and any other reports or records which the General Land Office may require to verify the gross production, disposition and market value. In all cases the authority of a manager or agent to act for the Lessee herein must be filed in the General Land Office. Each royalty payment shall be accompanied by a check stub, schedule, summary or other remittance advice showing by the assigned General Land Office lease number the amount of royalty being paid on each lease. If Lessee pays his royalty on or before thirty (30) days after the royalty payment was due, then Lessee owes a penalty of 5% on the royalty or \$25.00, whichever is greater. A royalty payment which is over thirty (30) days late shall accrue a penalty of 10% of the royalty due or \$25.00 whichever is greater. In addition to a penalty, royalties shall accrue interest at a rate of 12% per year, such interest will begin accruing when the royalty is sixty (60) days overdue. Affidavits and supporting documents which are not filed when due shall incur a penalty in an amount set by the General Land Office administrative rule which is effective on the date when the affidavits or supporting documents were due. The Lessee shall bear all responsibility for paying or causing royalties to be paid as prescribed by the due date provided herein. Payment of the delinquency penalty shall in no way operate to prohibit the State's right of forfeiture as provided by law nor act to postpone the date on which royalties were originally due. The above penalty provisions shall not apply in cases of title dispute as to the State's portion of the royalty or to that portion of the royalty in dispute as to fair market value.

10. (A) RESERVES, CONTRACTS AND OTHER RECORDS. Lessee shall annually furnish the Commissioner of the General Land Office with its best possible estimate of oil and gas reserves underlying this lease or allocable to this lease and shall furnish said Commissioner with copies of all contracts under which gas is sold or processed and all subsequent agreements and amendments to such contracts within thirty (30) days after entering into or making such contracts, agreements or amendments. Such contracts and agreements when received by the General Land Office shall be held in confidence by the General Land Office unless otherwise authorized by Lessee. All other contracts and records pertaining to the production, transportation, sale and marketing of the oil and gas produced on said premises, including the books and accounts, receipts and discharges of all wells, tanks, pools, meters, and pipelines shall at all times be subject to inspection and examination by the Commissioner of the General Land Office, the Attorney General, the Governor, or the representative of any of them.

(B) PERMITS, DRILLING RECORDS. Written notice of all operations on this lease shall be submitted to the Commissioner of the General Land Office by Lessee or operator five (5) days before spud date, workover, re-entry, temporary abandonment or plug and abandonment of any well or wells. Such written notice to the General Land Office shall include copies of Railroad Commission forms for application to drill. Copies of well tests, completion reports and plugging reports shall be supplied to the General Land Office at the time they are filed with the Texas Railroad Commission. All applications, permits, reports or other filings that reference this lease or any specific well on the leased premises and that are submitted to the Texas Railroad Commission or any other governmental agency shall include the word "State" in the title. Additionally, in accordance with Railroad Commission rules, any signage on the leased premises for the purpose of identifying wells, tank batteries or other associated improvements to the land must also include the word "State." Lessee shall supply the General Land Office with any records, memoranda, accounts, reports, cuttings and cores, or other information relative to the operation of the above described premises, which may be requested by the General Land Office, in addition to those herein expressly provided for. Lessee shall have an electrical and/or radioactivity survey made on the bore-hole section, from the base of the surface casing to the total depth of well, of all wells drilled on the above described premises and shall transmit a true copy of the log of each survey on each well to the General Land Office within fifteen (15) days after the making of said survey.

11.00.00

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(C) PENALTIES. Lessee shall incur a penalty whenever reports, documents or other materials are not filed in the General Land Office when due. The penalty for late filing shall be set by the General Land Office administrative rule which is effective on the date when the materials were due in the General Land Office.

11. DRY HOLE/CESSATION OF PRODUCTION DURING PRIMARY TERM. If, during the primary term hereof and prior to discovery and production of oil or gas on said land, Lessee should drill a dry hole or holes thereon, or if during the primary term hereof and after the discovery and actual production of oil or gas from the leased premises such production thereof should cease from any cause, this lease shall not terminate if on or before the expiration of sixty (60) days from date of completion of said dry hole or cessation of production Lessee commences additional drilling or reworking operations thereon, or pays or tenders the next annual delay rental in the same manner as provided in this lease. If, during the last year of the primary term or within sixty (60) days prior thereto, a dry hole be completed and abandoned, or the production of oil or gas should cease for any cause, Lessee's rights shall remain in full force and effect without further operations until the expiration of the primary term; and if Lessee has not resumed production in paying quantities at the expiration of the primary term, Lessee may maintain this lease by conducting additional drilling or reworking operations pursuant to Paragraph 13, using the expiration of the primary term as the date of cessation of production under Paragraph 13. Should the first well or any subsequent well drilled on the above described land be completed as a shut-in oil or gas well within the primary term hereof, Lessee may resume payment of the annual rental in the same manner as provided herein on or before the rental paying date following the expiration of sixty (60) days from the date of completion of such shut-in oil or gas well and upon the failure to make such payment, this lease shall ipso facto terminate. If at the expiration of the primary term or any time thereafter a shut-in oil or gas well is located on the leased premises, payments may be made in accordance with the shut-in provisions hereof.

12. DRILLING AND REWORKING AT EXPIRATION OF PRIMARY TERM. If, at the expiration of the primary term, neither oil nor gas is being produced on said land, but Lessee is then engaged in drilling or reworking operations thereon, this lease shall remain in force so long as operations on said well or for drilling or reworking of any additional well are prosecuted in good faith and in workmanlike manner without interruptions totaling more than sixty (60) days during any one such operation, and if they result in the production of oil and/or gas, so long thereafter as oil and/or gas is produced in paying quantities from said land, or payment of shut-in oil or gas well royalties or compensatory royalties is made as provided in this lease.

13. CESSATION, DRILLING, AND REWORKING. If, after the expiration of the primary term, production of oil or gas from the leased premises, after once obtained, should cease from any cause, this lease shall not terminate if Lessee commences additional drilling or reworking operations within sixty (60) days after such cessation, and this lease shall remain in full force and effect for so long as such operations continue in good faith and in workmanlike manner without interruptions totaling more than sixty (60) days. If such drilling or reworking operations result in the production of oil or gas, the lease shall remain in full force and effect for so long as oil or gas is produced from the leased premises in paying quantities or payment of shut-in oil or gas well royalties or payment of compensatory royalties is made as provided herein or as provided by law. If the drilling or reworking operations result in the completion of a well as a dry hole, the lease will not terminate if the Lessee commences additional drilling or reworking operations within sixty (60) days after the completion of the well as a dry hole, and this lease shall remain in effect so long as Lessee continues drilling or reworking operations in good faith and in a workmanlike manner without interruptions totaling more than sixty (60) days. Lessee shall give written notice to the General Land Office within thirty (30) days of any cessation of production.

14. SHUT-IN ROYALTIES. For purposes of this paragraph, "well" means any well that has been assigned a well number by the state agency having jurisdiction over the production of oil and gas. If, at any time after the expiration of the primary term of a lease that, until being shut in, was being maintained in force and effect, a well capable of producing oil or gas in paying quantities is located on the leased premises, but oil or gas is not being produced for lack of suitable production facilities or lack of a suitable market, then Lessee may pay as a shut-in oil or gas royalty an amount equal to double the annual rental provided in the lease, but not less than \$1,200 a year for each well capable of producing oil or gas in paying quantities. If Paragraph 3 of this lease does not specify a delay rental amount, then for the purposes of this paragraph, the delay rental amount shall be one dollar (\$1.00) per acre. To be effective, each initial shut-in oil or gas royalty must be paid on or before: (1) the expiration of the primary term, (2) 60 days after the Lessee ceases to produce oil or gas from the leased premises, or (3) 60 days after Lessee completes a drilling or reworking operation in accordance with the lease provisions; whichever date is latest. Such payment shall be made one-half (1/2) to the Commissioner of the General Land Office and one-half (1/2) to the owner of the soil. If the shut-in oil or gas royalty is paid, the lease shall be considered to be a producing lease and the payment shall extend the term of the lease for a period of one year from the end of the primary term, or from the first day of the month following the month in which production ceased, and, after that, if no suitable production facilities or suitable market for the oil or gas exists, Lessee may extend the lease for four more successive periods of one (1) year by paying the same amount each year on or before the expiration of each shut-in year.

15. COMPENSATORY ROYALTIES. If, during the period the lease is kept in effect by payment of the shut-in oil or gas royalty, oil or gas is sold and delivered in paying quantities from a well located within one thousand (1,000) feet of the leased premises and completed in the same producing reservoir, or in any case in which drainage is occurring, the right to continue to maintain the lease by paying the shut-in oil or gas royalty shall cease, but the lease shall remain effective for the remainder of the year for which the royalty has been paid. The Lessee may maintain the lease for four more successive years by Lessee paying compensatory royalty at the royalty rate provided in the lease of the market value of production from the well causing the drainage or which is completed in the same producing reservoir and within one thousand (1,000) feet of the leased premises. The compensatory royalty is to be paid monthly, one-half (1/2) to the Commissioner of the General Land Office and one-half (1/2) to the owner of the soil, beginning on or before the last day of the month following the month in which the oil or gas is produced from the well causing the drainage or that is completed in the same producing reservoir and located within one thousand (1,000) feet of the leased premises. If the compensatory royalty paid in any 12-month period is in an amount less than the annual shut-in oil or gas royalty, Lessee shall pay an amount equal to the difference within thirty (30) days from the end of the 12-month period. Compensatory royalty payments

11-05-11

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which are not timely paid will accrue penalty and interest in accordance with Paragraph 9 of this lease. None of these provisions will relieve Lessee of the obligation of reasonable development nor the obligation to drill offset wells as provided in Texas Natural Resources Code 52.173; however, at the determination of the Commissioner, and with the Commissioner's written approval, the payment of compensatory royalties can satisfy the obligation to drill offset wells.

16. **RETAINED ACREAGE.** Notwithstanding any provision of this lease to the contrary, after a well producing or capable of producing oil or gas has been completed on the leased premises, Lessee shall exercise the diligence of a reasonably prudent operator in drilling such additional well or wells as may be reasonably necessary for the proper development of the leased premises and in marketing the production thereon.

(A) **VERTICAL.** In the event this lease is in force and effect two (2) years after the expiration date of the primary or extended term it shall then terminate as to all of the leased premises, EXCEPT (1) 40 acres surrounding each oil well capable of producing in paying quantities and 320 acres surrounding each gas well capable of producing in paying quantities (including a shut-in oil or gas well as provided in Paragraph 14 hereof), or a well upon which Lessee is then engaged in continuous drilling or reworking operations, or (2) the number of acres included in a producing pooled unit pursuant to Texas Natural Resources Code 52.151-52.153, or (3) such greater or lesser number of acres as may then be allocated for production purposes to a proration unit for each such producing well under the rules and regulations of the Railroad Commission of Texas, or any successor agency, or other governmental authority having jurisdiction. If at any time after the effective date of the partial termination provisions hereof, the applicable field rules are changed or the well or wells located thereon are reclassified so that less acreage is thereafter allocated to said well or wells for production purposes, this lease shall thereupon terminate as to all acreage not thereafter allocated to said well or wells for production purposes. Notwithstanding the termination of this lease as to a portion of the lands covered hereby, Lessee shall nevertheless continue to have the right of ingress to and egress from the lands still subject to this lease for all purposes described in Paragraph 1 hereof, together with easements and right-of-ways for existing roads, existing pipelines and other existing facilities on, over and across all the lands described in Paragraph 1 hereof ("the retained lands"), for access to and from the retained lands and for the gathering or transportation of oil, gas and other minerals produced from the retained lands.

(B) **HORIZONTAL.** In the event this lease is in force and effect two (2) years after the expiration date of the primary or extended term it shall further terminate as to all depths below 100 feet below the total depth drilled (hereinafter "deeper depths") in each well located on acreage retained in Paragraph 16(A) above, unless on or before two (2) years after the primary or extended term Lessee pays an amount equal to one-half (1/2) of the bonus originally paid as consideration for this lease (as specified on page 1 hereof). If such amount is paid, this lease shall be in force and effect as to such deeper depths, and said termination shall be delayed for an additional period of two (2) years and so long thereafter as oil or gas is produced in paying quantities from such deeper depths covered by this lease.

(C) **IDENTIFICATION AND FILING.** The surface acreage retained hereunder as to each well shall, as nearly as practical, be in the form of a square with the well located in the center thereof, or such other shape as may be approved by the Commissioner of the General Land Office. Within thirty (30) days after partial termination of this lease as provided herein, Lessee shall execute and record a release or releases containing a satisfactory legal description of the acreage and/or depths not retained hereunder. The recorded release, or a certified copy of same, shall be filed in the General Land Office, accompanied by the filing fee prescribed by the General Land Office rules in effect on the date the release is filed. If Lessee fails or refuses to execute and record such release or releases within ninety (90) days after being requested to do so by the General Land Office, then the Commissioner at his sole discretion may designate by written instrument the acreage and/or depths to be released hereunder and record such instrument at Lessee's expense in the county or counties where the lease is located and in the official records of the General Land Office and such designation shall be binding upon Lessee for all purposes.

17. **OFFSET WELLS.** Neither the bonus, delay rentals, nor royalties paid, or to be paid, under this lease shall relieve Lessee of his obligation to protect the oil and gas under the above-described land from being drained. Lessee, sublessee, receiver or other agent in control of the leased premises shall drill as many wells as the facts may justify and shall use appropriate means and drill to a depth necessary to prevent undue drainage of oil and gas from the leased premises. In addition, if oil and/or gas should be produced in commercial quantities within 1,000 feet of the leased premises, or in any case where the leased premises is being drained by production of oil or gas, the Lessee, sublessee, receiver or other agent in control of the leased premises shall in good faith begin the drilling of a well or wells upon the leased premises within 100 days after the draining well or wells or the well or wells completed within 1,000 feet of the leased premises start producing in commercial quantities and shall prosecute such drilling with diligence. Failure to satisfy the statutory offset obligation may subject this lease and the owner of the soil's agency rights to forfeiture. Only upon the determination of the Commissioner of the General Land Office and with his written approval may the payment of compensatory royalty under applicable statutory parameters satisfy the obligation to drill an offset well or wells required under this paragraph.

18. **FORCE MAJEURE.** If, after a good faith effort, Lessee is prevented from complying with any express or implied covenant of this lease, from conducting drilling operations on the leased premises, or from producing oil or gas from the leased premises by reason of war, rebellion, riots, strikes, acts of God, or any valid order, rule or regulation of government authority, then while so prevented, Lessee's obligation to comply with such covenant shall be suspended and Lessee shall not be liable for damages for failure to comply with such covenants; additionally, this lease shall be extended while Lessee is prevented, by any such cause, from conducting drilling and reworking operations or from producing oil or gas from the leased premises. However, nothing in this paragraph shall suspend the payment of delay rentals in order to maintain this lease in effect during the primary term in the absence of such drilling or reworking operations or production of oil or gas.

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CULBERSON COUNTY, TEXAS
BY [Signature] DEPUTY



19. **WARRANTY CLAUSE.** The owner of the soil warrants and agrees to defend title to the leased premises. If the owner of the soil defaults in payments owed on the leased premises, then Lessee may redeem the rights of the owner of the soil in the leased premises by paying any mortgage, taxes or other liens on the leased premises. If Lessee makes payments on behalf of the owner of the soil under this paragraph, Lessee may recover the cost of these payments from the rental and royalties due the owner of the soil.

20. (A) **PROPORTIONATE REDUCTION CLAUSE.** If the owner of the soil owns less than the entire undivided surface estate in the above described land, whether or not Lessee's interest is specified herein, then the royalties and rental herein provided to be paid to the owner of the soil shall be paid to him in the proportion which his interest bears to the entire undivided surface estate and the royalties and rental herein provided to be paid to the Commissioner of the General Land Office of the State of Texas shall be likewise proportionately reduced. However, before Lessee adjusts the royalty or rental due to the Commissioner of the General Land Office, Lessee or his authorized representative must submit to the Commissioner of the General Land Office a written statement which explains the discrepancy between the interest purportedly leased under this lease and the actual interest owned by the owner of the soil. The Commissioner of the General Land Office shall be paid the value of the whole production allocable to any undivided interest not covered by a lease, less the proportionate development and production cost allocable to such undivided interest. However, in no event shall the Commissioner of the General Land Office receive as a royalty on the gross production allocable to the undivided interest not leased an amount less than the value of one-sixteenth (1/16) of such gross production.

(B) **REDUCTION OF PAYMENTS.** If, during the primary term, a portion of the land covered by this lease is included within the boundaries of a pooled unit that has been approved by the School Land Board and the owner of the soil in accordance with Natural Resources Code Sections 52.151-52.154, or if at any time after the expiration of the primary term or the extended term, this lease covers a lesser number of acres than the total amount described herein, payments that are made on a per acre basis hereunder shall be reduced according to the number of acres pooled, released, surrendered, or otherwise severed, so that payments determined on a per acre basis under the terms of this lease during the primary term shall be calculated based upon the number of acres outside the boundaries of a pooled unit, or, if after the expiration of the primary term, the number of acres actually retained and covered by this lease.

21. **USE OF WATER.** Lessee shall have the right to use water produced on said land necessary for operations under this lease except water from wells or tanks of the owner of the soil; provided, however, Lessee shall not use potable water or water suitable for livestock or irrigation purposes for watertlood operations without the prior consent of the owner of the soil.

22. **AUTHORIZED DAMAGES.** Lessee shall pay the owner of the soil for damages caused by its operations to all personal property, improvements, livestock and crops on said land.

23. **PIPELINE DEPTH.** When requested by the owner of the soil, Lessee shall bury its pipelines below plow depth.

24. **WELL LOCATION LIMIT.** No well shall be drilled nearer than two hundred (200) feet to any house or barn now on said premises without the written consent of the owner of the soil.

25. **POLLUTION.** In developing this area, Lessee shall use the highest degree of care and all proper safeguards to prevent pollution. Without limiting the foregoing, pollution of coastal wetlands, natural waterways, rivers and impounded water shall be prevented by the use of containment facilities sufficient to prevent spillage, seepage or ground water contamination. In the event of pollution, Lessee shall use all means at its disposal to recapture all escaped hydrocarbons or other pollutant and shall be responsible for all damage to public and private properties. Lessee shall build and maintain fences around its slush, sump, and drainage pits and tank batteries so as to protect livestock against loss, damage or injury; and upon completion or abandonment of any well or wells, Lessee shall fill and level all slush pits and cellars and completely clean up the drilling site of all rubbish thereon. Lessee shall, while conducting operations on the leased premises, keep said premises free of all rubbish, cans, bottles, paper cups or garbage, and upon completion of operations shall restore the surface of the land to as near its original condition and contours as is practicable. Tanks and equipment will be kept painted and presentable.

26. **REMOVAL OF EQUIPMENT.** Subject to limitations in this paragraph, Lessee shall have the right to remove machinery and fixtures placed by Lessee on the leased premises, including the right to draw and remove casing, within one hundred twenty (120) days after the expiration or the termination of this lease unless the owner of the soil grants Lessee an extension of this 120-day period. However, Lessee may not remove casing from any well capable of producing oil and gas in paying quantities. Additionally, Lessee may not draw and remove casing until after thirty (30) days written notice to the Commissioner of the General Land Office and to the owner of the soil. The owner of the soil shall become the owner of any machinery, fixtures, or casing which are not timely removed by Lessee under the terms of this paragraph.

27. (A) **ASSIGNMENTS.** Under the conditions contained in this paragraph and Paragraph 29 of this lease, the rights and estates of either party to this lease may be assigned, in whole or in part, and the provisions of this lease shall extend to and be binding upon their heirs, devisees, legal representatives, successors and assigns. However, a change or division in ownership of the land, rentals, or royalties will not enlarge the obligations of Lessee, diminish the rights, privileges and estates of Lessee, impair the effectiveness of any payment made by Lessee or impair the effectiveness of any act performed by Lessee. And no change or division in ownership of the land, rentals, or royalties shall bind Lessee for any purpose until thirty (30) days after the owner of the soil (or his heirs, devisees, legal representatives or assigns) furnishes the Lessee with satisfactory written evidence of the change in ownership, including the original recorded muniments of title (or a certified copy of such original) when the ownership changed because of a conveyance. A total or partial assignment of this lease shall, to the extent of the interest assigned, relieve and discharge Lessee of all subsequent obligations under this lease. If this lease is assigned in its entirety as to only part of the acreage, the right and option to pay rentals shall be apportioned as between the several owners ratably, according to the area of each, and failure by one or more of them to

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pay his share of the rental shall not affect this lease on the part of the land upon which pro rata rentals are timely paid or tendered; however, if the assignor or assignee does not file a certified copy of such assignment in the General Land Office before the next rental paying date, the entire lease shall terminate for failure to pay the entire rental due under Paragraph 3. Every assignee shall succeed to all rights and be subject to all obligations, liabilities, and penalties owed to the State by the original lessee or any prior assignee of the lease, including any liabilities to the State for unpaid royalties.

(B) **ASSIGNMENT LIMITATION.** Notwithstanding any provision in Paragraph 27(a), if the owner of the soil acquires this lease in whole or in part by assignment without the prior written approval of the Commissioner of the General Land Office, this lease is void as of the time of assignment and the agency power of the owner may be forfeited by the Commissioner. An assignment will be treated as if it were made to the owner of the soil if the assignee is:

- (1) a nominee of the owner of the soil;
- (2) a corporation or subsidiary in which the owner of the soil is a principal stockholder or is an employee of such a corporation or subsidiary;
- (3) a partnership in which the owner of the soil is a partner or is an employee of such a partnership;
- (4) a principal stockholder or employee of the corporation which is the owner of the soil;
- (5) a partner or employee in a partnership which is the owner of the soil;
- (6) a fiduciary for the owner of the soil; including but not limited to a guardian, trustee, executor, administrator, receiver, or conservator for the owner of the soil; or
- (7) a family member of the owner of the soil or related to the owner of the soil by marriage, blood, or adoption.

28. **RELEASES.** Under the conditions contained in this paragraph and Paragraph 29, Lessee may at any time execute and deliver to the owner of the soil and place of record a release or releases covering any portion or portions of the leased premises, and thereby surrender this lease as to such portion or portions, and be relieved of all subsequent obligations as to acreage surrendered. If any part of this lease is properly surrendered, the delay rental due under this lease shall be reduced by the proportion that the surrendered acreage bears to the acreage which was covered by this lease immediately prior to such surrender; however, such release will not relieve Lessee of any liabilities which may have accrued under this lease prior to the surrender of such acreage.

29. **FILING OF ASSIGNMENTS AND RELEASES.** If all or any part of this lease is assigned or released, such assignment or release must be recorded in the county where the land is situated, and the recorded instrument, or a copy of the recorded instrument certified by the County Clerk of the county in which the instrument is recorded, must be filed in the General Land Office within 90 days of the last execution date accompanied by the prescribed filing fee. If any such assignment is not so filed, the rights acquired under this lease shall be subject to forfeiture at the option of the Commissioner of the General Land Office.

30. **DISCLOSURE CLAUSE.** All provisions pertaining to the lease of the above-described land have been included in this instrument, including the statement of the true consideration to be paid for the execution of this lease and the rights and duties of the parties. Any collateral agreements concerning the development of oil and gas from the leased premises which are not contained in this lease render this lease invalid.

31. **FIDUCIARY DUTY.** The owner of the soil owes the State a fiduciary duty and must fully disclose any facts affecting the State's interest in the leased premises. When the interests of the owner of the soil conflict with those of the State, the owner of the soil is obligated to put the State's interests before his personal interests.

32. **FORFEITURE.** If Lessee shall fail or refuse to make the payment of any sum within thirty days after it becomes due, or if Lessee or an authorized agent should knowingly make any false return or false report concerning production or drilling, or if Lessee shall fail or refuse to drill any offset well or wells in good faith as required by law and the rules and regulations adopted by the Commissioner of the General Land Office, or if Lessee should fail to file reports in the manner required by law or fail to comply with rules and regulations promulgated by the General Land Office, the School Land Board, or the Railroad Commission, or if Lessee should refuse the proper authority access to the records pertaining to operations, or if Lessee or an authorized agent should knowingly fail or refuse to give correct information to the proper authority, or knowingly fail or refuse to furnish the General Land Office a correct log of any well, or if Lessee shall knowingly violate any of the material provisions of this lease, or if this lease is assigned and the assignment is not filed in the General Land Office as required by law, the rights acquired under this lease shall be subject to forfeiture by the Commissioner, and he shall forfeit same when sufficiently informed of the facts which authorize a forfeiture, and when forfeited the area shall again be subject to lease under the terms of the Relinquishment Act. However, nothing herein shall be construed as waiving the automatic termination of this lease by operation of law or by reason of any special limitation arising hereunder. Forfeitures may be set aside and this lease and all rights thereunder reinstated before the rights of another intervene upon satisfactory evidence to the Commissioner of the General Land Office of future compliance with the provisions of the law and of this lease and the rules and regulations that may be adopted relative hereto.

33. **LIEN.** In accordance with Texas Natural Resources Code 52.136, the State shall have a first lien upon all oil and gas produced from the area covered by this lease to secure payment of all unpaid royalty and other sums of money that may become due under this lease. By acceptance of this lease, Lessee grants the State, in addition to the lien provided by Texas Natural Resources Code 52.136 and any other applicable statutory lien, an express contractual lien on and security interest in all leased minerals in and extracted from the leased premises, all proceeds which may accrue to Lessee from the sale of such leased minerals, whether such proceeds are held by Lessee or by a third party, and all fixtures on and improvements to the leased premises used in connection with the production or processing of such leased minerals in order to secure the payment of all royalties or other amounts due or to become due under this lease and to secure payment of any damages or loss that Lessor may suffer by reason of Lessee's breach of any covenant or condition of this lease, whether express or implied. This lien and security interest may be foreclosed with or without court

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ATTEST:

8-19-2011



LINDA McDONALD, COUNTY CLERK
CULBERSON COUNTY, TEXAS

BY *[Signature]* DEPUTY

proceedings in the manner provided in the Title I, Chapter 9 of the Texas Business and Commerce Code. Lessee agrees that the Commissioner may require Lessee to execute and record such instruments as may be reasonably necessary to acknowledge, attach or perfect this lien. Lessee hereby represents that there are no prior or superior liens arising from and relating to Lessee's activities upon the above-described property or from Lessee's acquisition of this lease. Should the Commissioner at any time determine that this representation is not true, then the Commissioner may declare this lease forfeited as provided herein.

34. **POOLING.** Lessee is hereby granted the right to pool or unitize the royalty interest of the owner of the soil under this lease with any other leasehold or mineral interest for the exploration, development and production of oil or gas or either of them upon the same terms as shall be approved by the School Land Board and the Commissioner of the General Land Office for the pooling or unitizing of the interest of the State under this lease pursuant to Texas Natural Resources Code 52.151-52.153. The owner of the soil agrees that the inclusion of this provision in this lease satisfies the execution requirements stated in Texas Natural Resources Code 52.152.

35. **INDEMNITY.** Lessee hereby releases and discharges the State of Texas and the owner of the soil, their officers, employees, partners, agents, contractors, subcontractors, guests, invitees, and their respective successors and assigns, of and from all and any actions and causes of action of every nature, or other harm, including environmental harm, for which recovery of damages is sought, including, but not limited to, all losses and expenses which are caused by the activities of Lessee, its officers, employees, and agents arising out of, incidental to, or resulting from, the operations of or for Lessee on the leased premises hereunder, or that may arise out of or be occasioned by Lessee's breach of any of the terms or provisions of this Agreement, or by any other negligent or strictly liable act or omission of Lessee. Further, Lessee hereby agrees to be liable for, exonerate, indemnify, defend and hold harmless the State of Texas and the owner of the soil, their officers, employees and agents, their successors or assigns, against any and all claims, liabilities, losses, damages, actions, personal injury (including death), costs and expenses, or other harm for which recovery of damages is sought, under any theory including tort, contract, or strict liability, including attorneys' fees and other legal expenses, including those related to environmental hazards, on the leased premises or in any way related to Lessee's failure to comply with any and all environmental laws; those arising from or in any way related to Lessee's operations or any other of Lessee's activities on the leased premises; those arising from Lessee's use of the surface of the leased premises; and those that may arise out of or be occasioned by Lessee's breach of any of the terms or provisions of this Agreement or any other act or omission of Lessee, its directors, officers, employees, partners, agents, contractors, subcontractors, guests, invitees, and their respective successors and assigns. Each assignee of this Agreement, or an interest therein, agrees to be liable for, exonerate, indemnify, defend and hold harmless the State of Texas and the owner of the soil, their officers, employees, and agents in the same manner provided above in connection with the activities of Lessee, its officers, employees, and agents as described above. **EXCEPT AS OTHERWISE EXPRESSLY LIMITED HEREIN, ALL OF THE INDEMNITY OBLIGATIONS AND/OR LIABILITIES ASSUMED UNDER THE TERMS OF THIS AGREEMENT SHALL BE WITHOUT LIMITS AND WITHOUT REGARD TO THE CAUSE OR CAUSES THEREOF (EXCLUDING PRE-EXISTING CONDITIONS), STRICT LIABILITY, OR THE NEGLIGENCE OF ANY PARTY OR PARTIES (INCLUDING THE NEGLIGENCE OF THE INDENINIFIED PARTY), WHETHER SUCH NEGLIGENCE BE SOLE, JOINT, CONCURRENT, ACTIVE, OR PASSIVE.**

36. **ENVIRONMENTAL HAZARDS.** Lessee shall use the highest degree of care and all reasonable safeguards to prevent contamination or pollution of any environmental medium, including soil, surface waters, groundwater, sediments, and surface or subsurface strata, ambient air or any other environmental medium in, on, or under the leased premises, by any waste, pollutant, or contaminant. Lessee shall not bring or permit to remain on the leased premises any asbestos containing materials, explosives, toxic materials, or substances regulated as hazardous wastes, hazardous materials, hazardous substances (as the term "Hazardous Substance" is defined in the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Sections 9601, et seq.), or toxic substances under any federal, state, or local law or regulation ("Hazardous Materials"), except ordinary products commonly used in connection with oil and gas exploration and development operations and stored in the usual manner and quantities. **LESSEE'S VIOLATION OF THE FOREGOING PROHIBITION SHALL CONSTITUTE A MATERIAL BREACH AND DEFAULT HEREUNDER AND LESSEE SHALL INDEMNIFY, HOLD HARMLESS AND DEFEND THE STATE OF TEXAS AND THE OWNER OF THE SOIL FROM AND AGAINST ANY CLAIMS, DAMAGES, JUDGMENTS, PENALTIES, LIABILITIES, AND COSTS (INCLUDING REASONABLE ATTORNEYS' FEES AND COURT COSTS) CAUSED BY OR ARISING OUT OF (I) A VIOLATION OF THE FOREGOING PROHIBITION OR (II) THE PRESENCE, RELEASE, OR DISPOSAL OF ANY HAZARDOUS MATERIALS ON, UNDER, OR ABOUT THE LEASED PREMISES DURING LESSEE'S OCCUPANCY OR CONTROL OF THE LEASED PREMISES. LESSEE SHALL CLEAN UP, REMOVE, REMEDY AND REPAIR ANY SOIL OR GROUND WATER CONTAMINATION AND DAMAGE CAUSED BY THE PRESENCE OR RELEASE OF ANY HAZARDOUS MATERIALS IN, ON, UNDER, OR ABOUT THE LEASED PREMISES DURING LESSEE'S OCCUPANCY OF THE LEASED PREMISES IN CONFORMANCE WITH THE REQUIREMENTS OF APPLICABLE LAW. THIS INDEMNIFICATION AND ASSUMPTION SHALL APPLY, BUT IS NOT LIMITED TO, LIABILITY FOR RESPONSE ACTIONS UNDERTAKEN PURSUANT TO CERCLA OR ANY OTHER ENVIRONMENTAL LAW OR REGULATION. LESSEE SHALL IMMEDIATELY GIVE THE STATE OF TEXAS AND THE OWNER OF THE SOIL WRITTEN NOTICE OF ANY BREACH OR SUSPECTED BREACH OF THIS PARAGRAPH, UPON LEARNING OF THE PRESENCE OF ANY HAZARDOUS MATERIALS, OR UPON RECEIVING A NOTICE FROM ANY GOVERNMENTAL AGENCY PERTAINING TO HAZARDOUS MATERIALS WHICH MAY AFFECT THE LEASED PREMISES. THE OBLIGATIONS OF LESSEE HEREUNDER SHALL SURVIVE THE EXPIRATION OR EARLIER TERMINATION, FOR ANY REASON, OF THIS AGREEMENT.**

37. **APPLICABLE LAW.** This lease is issued under the provisions of Texas Natural Resources Code 52.171 through 52.190, commonly known as the Relinquishment Act, and other applicable statutes and amendments thereto, and if any provision in this lease does not conform to these statutes, the statutes will prevail over any nonconforming lease provisions.

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ATTEST: 8-19-2011
LINDA McDONALD, COUNTY CLERK
CULBERSON COUNTY, TEXAS
BY [Signature] DEPUTY



38. EXECUTION. This oil and gas lease must be signed and acknowledged by the Lessee before it is filed of record in the county records and in the General Land Office of the State of Texas. Once the filing requirements found in Paragraph 39 of this lease have been satisfied, the effective date of this lease shall be the date found on Page 1.

39. LEASE FILING. Pursuant to Chapter 9 of the Texas Business and Commerce Code, this lease must be filed of record in the office of the County Clerk in any county in which all or any part of the leased premises is located, and certified copies thereof must be filed in the General Land Office. This lease is not effective until a certified copy of this lease (which is made and certified by the County Clerk from his records) is filed in the General Land Office in accordance with Texas Natural Resources Code 52.183. Additionally, this lease shall not be binding upon the State unless it recites the actual and true consideration paid or promised for execution of this lease. The bonus due the State and the prescribed filing fee shall accompany such certified copy to the General Land Office.

40. See attached Exhibit "A" for additional provisions.

LEGEND NATURAL GAS IV, LP

Carl Wimberley
Carl Wimberley, Vice President

Date: 8/5/2011

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ATTEST: 8-19-2011



LINDA McDONALD, COUNTY CLERK
CULBERSON COUNTY, TEXAS
BY [Signature] DEF

STATE OF TEXAS

STATE OF TEXAS

BY: [Signature]
Individually and as agent for the State of Texas
Roddy L. Harrison, Trustee of the Harrison Trust
Under Trust Indenture dated 04/25/96, as amended

BY: _____
Individually and as agent for the State of Texas

DATE: 7-29-11

DATE: _____

STATE OF TEXAS

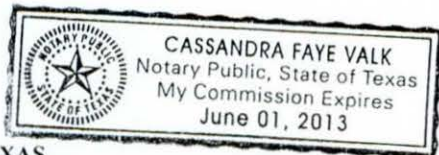
(CORPORATE ACKNOWLEDGMENT)

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared Carl Wimberley known to me to be the person whose name is subscribed to the foregoing instrument, as Vice President of Legend Natural Gas IV, LP, a Delaware limited partnership, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity stated, and as the act and deed of said partnership.

Given under my hand and seal of office this 5th day of August, 2011.

Cassandra Faye Valk
Notary Public in and for the State of TEXAS



STATE OF TEXAS

(INDIVIDUAL ACKNOWLEDGMENT)

COUNTY OF REEVES

Before me, the undersigned authority, on this day personally appeared Roddy L. Harrison, Trustee of the Harrison Trust Under Trust Indenture dated 04/25/96, as amended known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that they executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 29 day of July, 2011.

Clay Johnson
Notary Public in and for the State of TEXAS

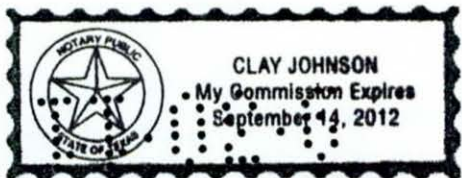


EXHIBIT "A"

ATTACHED TO AND MADE PART OF THAT CERTAIN OIL AND GAS LEASE
DATED AUGUST 1, 2011, BY AND BETWEEN THE STATE OF TEXAS, ACTING BY AND
THROUGH ITS AGENT, RODDY L. HARRISON, TRUSTEE OF THE HARRISON TRUST UNDER TRUST
INDENTURE DATED 014/25/96, AS AMENDED, AS LESSOR, AND
LEGEND NATURAL GAS IV, LP, AS LESSEE

***The provisions of this Exhibit shall prevail and control over any inconsistent language
contained in the foregoing provisions of said lease.***

41. Lessor has advised that certain, specific, individual(s) shall not be allowed access to the lands herein described. Lessee hereby agrees to restrict access to the specific individual(s) defined by Lessee. Lessor agrees to deliver by written request notice to Lessee of the specific individual(s) to be denied access.

42. At the end of the primary term, this lease shall terminate as to all of the above described land, except as to each proration unit allocated for production allowable purposes under the rules and regulations of the Railroad Commission of the State of Texas, or other governmental authority having jurisdiction to each well producing oil and/or gas in commercial quantities, and as to each such proration unit, as to all depths 100 feet below the base of the deepest formation from which such production is being obtained on such proration unit unless Lessee commences that actual drilling of an additional well within one hundred eighty (180) days of the last to occur of (i) the expiration of the primary term (only if a well was completed prior to the expiration of the primary term) or, (ii) the date that any well actually being drilling at the expiration of the primary term is completed as a well capable or producing oil and/or gas in commercial quantities or as a dry hole, and thereafter Lessee shall continuously develop the above described land with no more than one hundred eighty days elapsing between the date one well is completed as a well capable of producing oil and/or gas in commercial quantities or as a dry hole and the date the actual drilling of the next succeeding well commences, until said land has been drilled to the density necessary to obtain the maximum production allowable per well under the rules and regulations of the Railroad Commission of Texas, or other governmental authority having jurisdiction. Upon the cessation of such continuous development, this lease shall terminate except as to each proration unit allocated as aforesaid upon which a well is producing oil and/or gas in commercial quantities. At the end of the primary term or the date that this lease shall expire as to any part hereon, whichever is later, Lessee shall select and designate a producing unit around each producing oil and gas well. The acres in each unit are to be limited to or expanded to conform with the minimum area provided for or established directly or indirectly, in the applicable rules and regulations of the regulatory authority having jurisdiction of the premises with reference to the spacing of wells or the size of producing wells. A well shall be deemed to have been completed on the first to occur of (i) the date the completion or plugging report required by the Railroad Commission of the State of Texas or other governmental authority having jurisdiction is filed, or, (ii) thirty (30) days after the completion rig that drilled the relevant well is released from the well location.

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ATTEST: 8-19-2011
LINDA McDONALD, COUNTY CLERK
CULBERSON COUNTY, TEXAS
BY [Signature] DEPUTY



File No. 113599
Loose
Date Filed: 7/29/11
Jerry E. Patterson, Commissioner
By GL

67194

"FILED FOR RECORD"
AT 3:34 O'CLOCK P M.

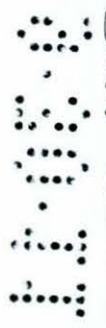
Aug. 18, 2011

Linda McDonald
County Clerk, Culberson County, Tx
BY Linda McDonald DEPUTY

THE STATE OF TEXAS

COUNTY OF CULBERSON I, Linda McDonald, Clerk of the County Court in and for said County and State, do hereby certify that the foregoing is a true and correct copy of Dr Gas Loose dated 8-5-2011
filed for record in my office this 18 day of Aug
at 3:43 P M, under Clerk's File No. 67194 to be recorded in the Dr Gas Records of Culberson County, Texas.

TO CERTIFY WHICH, Witness my hand and seal at Van Horn this 18 day of Aug, 2011
By Linda McDonald Deputy LINDA McDONALD, COUNTY CLERK
CULBERSON COUNTY, TEXAS



Legend Natural Gas IV, LP

410 W. Grand Parkway South, Suite 400 • Katy, TX 77494 • (281) 644-5900

CHECK NO.

002319

1109-AP-3813 09/26/11 CKR092611 8921925.00 0.00 8921925.00
Harrison Ranch Culberson County Leases Blk 113, Sections: 8, 9, 10,
13, 14, 15, 16, 19, 20, 21, 22, 24 Blk 114, Sections: 12, 13, 22, 23,
24 Blk 111, Sections: 1, 4, 5

12701305

CLAY JOHNSON

General Land Office - State of Texas

15067

9/26/2011

225.00

Need \$100.00
Process

25.00 film

121

12701304

MF 113599

1109

FIRST NATIONAL CH Filing Fees-Harrison-Legend

225.00

1161 Texas General Land Office

09/29/11

8,921,925.00

BOLO-100

Donor

\$1,067,775.00

2

3/2

Clay Johnson Oil & Gas Properties

203 WEST WALL, SUITE 202* MIDLAND, TEXAS 79701 *(432) 684-4110* FAX (432) 684-5166



AAPL-CPL

September 26, 2011

GENERAL LAND OFFICE

Stephen F. Austin Bldg.
1700 North Congress Ave.
Austin, TX 78701

Attn: Mr. Drew Reid

Re: Relinquishment Act Lease Culberson
County, Texas

Dear Drew:

Find enclosed for your files and further handling a certified file stamped copy of the following described Relinquishment Act Oil and Gas Lease:

- 1) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67190, Culberson County, Texas.

Oil and Gas Lease covers All of Section 8 and 9, Block 113, Public School Land Survey, Save and Except that Portion of Bexar Preemption Survey 199, lying within the boundaries of Section 8 and 9, (840.00 net acres).

States 1/2 Bonus: \$ 840,000.00

- 2) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67191, Culberson County, Texas.

Oil and Gas Lease covers:

Block 113, Public School Land Survey

Section 10: All

Section 16: All

(960.00 net acres)

States 1/2 Bonus: \$ 960,000.00

- 3) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as Amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67192, Culberson County, Texas.

Oil and Gas Lease covers:

Block 114, Public School Land Survey

Section 12: All

Section 13: All

(960.00 net acres)

States 1/2 Bonus: \$ 960,000.00

- 4) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as Amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 61793, Culberson County, Texas.

Oil and Gas Lease covers:

Block 114, Public School Land Survey

Section 22: All

Section 23: All

(960.00 net acres)

States 1/2 Bonus: \$ 960,000.00

- 5) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as Amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67194, Culberson County, Texas.

Oil and Gas Lease covers:

Block 114, Public School Land Survey

Section 24: All

Block 113, Public School Land Survey

Section 19: All

MF-113599

Block 111, Public School Land Survey

Section 5: N/143.7 acres

(1,067.775 net acres)

States 1/2 Bonus: \$ 1,067,775.00

- 6) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as Amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67195, Culberson County, Texas.

Oil and Gas Lease covers:

Block 113, Public School Land Survey

Section 20: All

Section 21: All

Block 111, Public School Land Survey

Section 4: N/392.2 acres

(1,254.15 net acres)

States 1/2 Bonus: \$ 1,254,150.00

- 7) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as Amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67196, Culberson County, Texas.

Oil and Gas Lease covers:

Block 113, Public School Land Survey

Section 15: All

Section 22: All

(960.00 net acres)

States 1/2 Bonus: \$ 960,000.00

- 8) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as Amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67197, Culberson County, Texas.

Oil and Gas Lease covers:

Block 113, Public School Land Survey

Section 24: All

Block 11, Public School Land Survey

Section 1: All

(960.00 net acres)

States 1/2 Bonus: \$ 960,000.00

- 9) Oil and Gas Lease dated July 29, 2011, by and between The State of Texas, acting by and through its agent, Roddy L. Harrison, Trustee of the Harrison Trust under Trust Indenture dated 4-25-96, as Amended, as Lessor and Legend Natural Gas IV, LP, as Lessee, File Stamp 67198, Culberson County, Texas.

Oil and Gas Lease covers:

Block 113, Public School Land Survey

Section 13: All

Section 14: All

(960.00 net acres)

States 1/2 Bonus: \$ 960,000.00

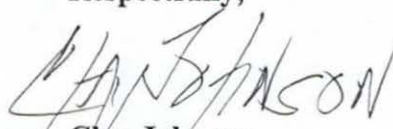
STATES TOTAL 1/2 BONUS FOR ALL NINE LEASES: \$ 8,921,925.00

Above I have broken out what each lease covers and the State of Texas' 1/2 Bonus that they are to receive under each Oil and Gas Lease.

Please find enclosed, a payment for the State's 1/2 bonus due for the first 3 years for the above nine (9) Oil and Gas Leases in the amount of \$8,921,925.00.

To cover the required filing fees for handling this matter find enclosed Clay Johnson Check in the amount of \$225.00 made payable to the order of General Land Office – State of Texas.

Respectfully,



Clay Johnson

WCJ/cj

Enclosures:

File No. 113599

Cover Letter @ Bonds @ Fees

Date Filed: 9/30/11

Jerry E. Patterson, Commissioner

By 014

TEXAS



GENERAL LAND OFFICE

JERRY PATTERSON, COMMISSIONER

June 6, 2012

Carl Wimberly
Legend Natural Gas IV, LP
410 W. Grand Parkway South, Suite 400
Katy, Texas 77494

Re: **State Lease MF 113599A**

RAL Lease dated July 29, 2011 recorded File 67194, covering Sec. 24, Blk 114, Sec. 19, Blk. 113, N/143.7 ac Sec. 5, Blk. 111, PSL Survey, Culberson County, TX, Harrison Trust, agent for State of Texas, Lessor

Dear Mr. Wimberly:

The certified copy of the Relinquishment Act lease covering the above referenced tract has been approved and filed in our records under Mineral File numbers **MF-113599A**. **Please refer to this lease number when making payments to the State and in all future correspondence concerning the lease. Failure to include the mineral file number may delay processing of any payments towards the lease.**

There are several contractual and statutory responsibilities for the Lessee which are material provisions of the lease as outlined in the agreement such as Section 10(B) which requires submission of written notice for all drilling, production and related activities. When forms are filed with the Texas Railroad Commission, they are required to be submitted to the General Land Office as well. Examples are W-1, Application to Drill; W-2, Oil Well Completion Report and Log; G-1, Gas Well Completion Report and Log; W-3, Plugging Report; G-5, Gas Well Classification Report; G-10, Gas Well Status Report; W-10, Oil Well Status Report; W-12, Inclination Report; electric logs; directional surveys.

Chapter 52 of the Texas Natural Resources Codes specifies that the surface owner's right to receive a portion of the revenues generated by the lease shall be in lieu of all damages to the soil. Therefore, any payments made for surface use or damages other than the authorized damages set out in the lease form must be shared equally with the state.

Of your remittance of \$8,921,925.00, \$1,067,775.00 has been applied to the State's portion of the cash bonus. In addition, we are in receipt of the filing fee. However, we are not in receipt of the \$100 processing fee, which we request you send as soon as possible.

Sincerely yours,

Drew Reid
Mineral Leasing, Energy Resources
(512) 475-1534
drew.reid@glo.texas.gov

Stephen F. Austin Building • 1700 North Congress Avenue • Austin, Texas 78701-1495

Post Office Box 12873 • Austin, Texas 78711-2873

512-463-5001 • 800-998-4GLO

www.glo.state.tx.us

File No. 113599

Find Letter

Date Filed: 6/6/12

Jerry E. Patterson, Commissioner

By GL

PETROHAWK ENERGY CORPORATION

1000 LOUISIANA STREET, SUITE 5600 • HOUSTON, TX 77002 832-204-2787

CHECK NO.

104029

REFERENCE	INVOICE DATE	INVOICE NO.	INVOICE AMT.	PRIOR PAYMENT	DISCOUNT	AMOUNT PAID
KCS07JUN2012- LAND2	6/4/12 DELAY RENTAL	1025 TX1703-048	533.89 MF 113599			533.89
					12713027	
					COPY	
VENDOR				CHECK DATE	TOTAL	
437294 COMMISSIONER OF THE TEXAS				06/08/12		\$533.89

71019 121

PETROHAWK ENERGY CORPORATION

1000 LOUISIANA STREET, SUITE 5600 • HOUSTON, TX 77002 832-204-2787

CHECK NO.

104029

REFERENCE	INVOICE DATE	INVOICE NO.	INVOICE AMT.	PRIOR PAYMENT	DISCOUNT	AMOUNT PAID
KCS07JUN2012- LAND2	6/4/12 DELAY RENTAL	1025 TX1703-048	533.89			533.89
MF 113599						
						12713027
						RECEIVED JUN 18 2012
					121	
VENDOR				CHECK DATE	TOTAL	\$533.89
437294 COMMISSIONER OF THE TEXAS				06/08/12		

BOLO-200

WARNING: DO NOT ACCEPT THIS DOCUMENT UNLESS YOU CAN SEE A WATERMARK.

PETROHAWK ENERGY CORPORATIONACCOUNTS PAYABLE DISBURSEMENT ACCOUNT
1000 LOUISIANA STREET, SUITE 5600
HOUSTON, TX 77002
832-204-2787

Bank of America

64-1278/611 GA

DATE
06/08/12

104029

12713027

PAY Five Hundred Thirty-Three Dollars And Eighty-Nine Cents***

AMOUNT \$*****533.89

TO THE
ORDER
OFCOMMISSIONER OF THE TEXAS
GENERAL LAND OFFICE
1700 N CONGRESS AVE
STEPHEN F AUSTIN STATE OFFICE BUILDING
AUSTIN, TX 78701 USA

VOID AFTER 180 DAYS





June 11, 2012

Commissioner of the Texas
General Land Office
1700 North Congress Avenue
Stephen F. Austin State Office Bldg.
Austin, TX 78701

Re: Annual Delay Rental
State of Texas Lease
Recorded: Bk. 106, Pg. 540
Culberson County, Texas

Gentlemen:

Enclosed please find check #104029 in the amount of \$533.89 to cover annual delay rental for above captioned agreement. I kindly request that you acknowledge receipt of this payment by signing and dating in the spaces provided below and return in the provided envelope.

Thank you for your attention to this matter. Should you have any questions, I can be contacted at (918) 497-4536.

Sincerely,

Theresa Skelton
Lease Analyst

Enclosures

JUN 18 2012
ABOVE PAYMENT IS ACKNOWLEDGED ON
THIS _____, DAY OF _____, 2012

By: RENTAL PAYMENT

Lease TX1703-048/004



0000000000

File No. 113599

Rental

Date Filed: 06/18/12

Jerry E. Patterson, Commissioner

By

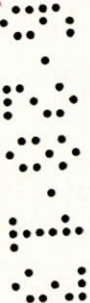
[Signature]

PETROHAWK ENERGY CORPORATION

163990

1360 POST OAK BLVD., SUITE 1900CT • HOUSTON, TX 77056 inquiry@bhpbilliton.com

CHECK NO.

REFERENCE	INVOICE DATE	INVOICE NO.	INVOICE AMT.	PRIOR PAYMENT	DISCOUNT	AMOUNT PAID
EPL10JUN2013L AND-2	6/3/13 NORTH REEVES PROSPECT	1738 TX1703-048-004 MF113599	533.89 	13713062		+ 533.89 12/ 
437294 COMMISSIONER OF THE TEXAS GENERAL LAND OFFICE				CHECK DATE 06/11/13	TOTAL	\$533.89

PETROHAWK ENERGY CORPORATION

163990

1360 POST OAK BLVD., SUITE 1900CT • HOUSTON, TX 77056 inquiry@bhpbilliton.com

CHECK NO.

REFERENCE	INVOICE DATE	INVOICE NO.	INVOICE AMT.	PRIOR PAYMENT	DISCOUNT	AMOUNT PAID
*EPL10JUN2013L AND-2	6/3/13 NORTH REEVES PROSPECT	1738 TX1703-048-004 MF113599	533.89	13713062		+ 533.89 121
437294 COMMISSIONER OF THE TEXAS GENERAL LAND OFFICE				CHECK DATE 06/11/13	TOTAL	\$533.89

BOLO-200

WARNING: DO NOT ACCEPT THIS DOCUMENT UNLESS YOU CAN SEE A WATERMARK.

PETROHAWK ENERGY CORPORATION

ACCOUNTS PAYABLE DISBURSEMENT ACCOUNT

1360 POST OAK BLVD., SUITE 1900CT

HOUSTON, TX 77056

inquiry@bhpbilliton.com



DATE

06/11/13

163990

13713062

PAY Five Hundred Thirty-Three Dollars And Eighty-Nine Cents***

AMOUNT

\$*****533.89

TO THE
ORDER
OF

COMMISSIONER OF THE TEXAS GENERAL LAND OFFICE
ATTENTION MINERAL LEASING
1700 N CONGRESS AVE
AUSTIN, TX 78701 USA

VOID AFTER 180 DAYS

John A. Sumner

163990

Check Receipt

Check No.: 163990

Check Date: 6/11/2013

Period Covered:

7/29/2013-7/29/2014

Payment Type: DELAY RENTAL

Payment Amount: \$533.89

Lease Number: TX1703-048-004

Original Lessor: STATE OF TEXAS ET AL

Lease Effective Date: 7/29/2011

Recording Information: FILE#67194 B106 P540

State: TX

County: CULBERSON

Check Remarks:

MF113599. SEC 24, BLK 114. SEC 19, BLK 113. SEC 5, BLK 111 - PSL SVY, CULBERSON CO. TX. ANNUAL DELAY RENTAL



resourcing the future

BHP BILLITON PETROLEUM (FAYETTEVILLE)
ATTN LAND ADMINISTRATION
1360 POST OAK BLVD STE 150
HOUSTON, TX 77056

Owner Relations:

1-877-311-1443

For the Credit of:

(BA#): 437294-1

Payment Amount: \$533.89

Owner:

Address:

COMMISSIONER OF THE TEXAS GENERAL LAND
OFFICE
1700 N CONGRESS AVE STEPHEN F AUSTIN STATE
AUSTIN, TX 78701

IMPORTANT

PLEASE SIGN AND RETURN

Date Received

06/28/2013

Sign Here

[Signature] for GLO

By

Title



File No. MF113599

⑥

Rental Payment - 3rd year

Date Filed: 06/28/2013

Jerry E. Patterson, Commissioner

By alop

05073

MF 111132
MF 113599 ✓
DIVISION ORDER



Date: 6/19/2017

To: BHP Billiton Petroleum
Land Administration
P O Box 22719
Houston, TX 77227-9927
(877) 311- 1443

Issue Date: 6/19/2017
Property Name: HS STATE 114-24 1H
Property #: P1M815/00501 109- 33031
Production: ALL PRODUCTS
Operator: BHP BILLITON PETROLEUM (TXLA OPERATING)
Legal Description: PSL ABST/ID# 5127 Grantee Blk 114 Sec 24 CULBERSON COUNTY/PARISH,
TEXAS (652.52 ACRES)

CREDIT TO

Owner # 80113945
STATE OF TEXAS GLO
1700 N CONGRESS AVE NO 640
AUSTIN TX 78701-1495

Decimal	Type	Status	Reason	Start Date
0.03125000	RI	PAY		5/1/2017
0.09375000	RI	PAY		5/1/2017



TEXAS GENERAL LAND OFFICE
GEORGE P. BUSH, COMMISSIONER

August 23, 2017

Broderick Brown
Division Order Analyst
BHP Billiton Petroleum
P O BOX 22719
Houston, TX 77227-9927

Re: State Lease Nos. MF111132 and MF113599 HS State 114-24 1H

Dear Mr. Brown:

The Texas General Land Office (GLO) has received your Division Order for the referenced unit. This Division Order has been filed in the appropriate mineral file.

The payment of royalties attributable to state-owned mineral and royalty interests is set by contract and applicable statutes and rules. The execution of division orders may, in some cases, affect the manner in which such payments are made or calculated. Therefore, Title 31, §9.32, of the Texas Administrative Code specifies that GLO staff cannot execute a division order or bind the state to any terms contained within it.

Subject to applicable state law and the state's right to take its production in-kind, the GLO acquiesces to the sale of oil and gas in accordance with the terms and conditions set out in the oil and gas leases. If you have questions concerning this matter, please feel free to e-mail me at the address below my signature.

We look forward to being put on pay status as soon as you are able to set up the wells in our RRAC system.

Thank you,

Vivian Hernandez
Landman, Energy Resources
512-475-0428
512-475-1543 (fax)
vivian.hernandez@glo.texas.gov

File No. MF113599

County

Division Order

Date Filed: 8-23-2017

By V.H. George P. Bush, Commissioner



TEXAS GENERAL LAND OFFICE
GEORGE P. BUSH, COMMISSIONER

March 27, 2018

CERTIFIED MAIL: 7016 2070 0000 7391 9981

Ms. Nicole Vail
Regulatory Specialist
BHP Billiton
1500 Post Oak Blvd.
Houston, TX 77056

RE: Application to Surface Commingle Oil and Gas Production from State Mineral Leases MF111132, MF113597, and MF113599 (HS State 114-13X12, HS State 114-24) in Conjunction with Railroad Commission of Texas Commingling Permit Pending in Culberson County, Texas

Dear Ms. Vail

The Texas General Land Office (GLO) has received your application dated April 12, 2017 as revised on February 20, 2018 and March 8, 2018 to surface commingle oil and gas production from and to utilize gas lift with off-lease gas on the above State Mineral Leases. GLO staff have performed an administrative and technical review of your application.

On the condition that BHP Billiton first satisfies all of the requirements set out in #1 - #13 on p.1 - 3 of this letter, then, in that event, the application is approved.

1. Per 31 Texas Administrative Code (TAC) §9.35(a)(2), all fluids produced from the wells to be commingled must flow "through oil and gas separators of ample capacity and in good working order...before sale or surface commingling with production from any other lease and/or pooled unit". Gross production shall be measured by single-phase oil, gas, and water meters installed at the separator outlets prior to sale or surface commingling.

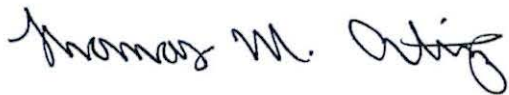
2. Per 31 TAC §9.35(a)(2), you are required to conduct all measurement “in accordance with the American Gas Association (AGA) standards and all applicable chapters of the American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS)”. Measurement shall be conducted, per those standards, for both the quantity and quality of all fluid streams.
3. Sampling frequency shall be equal to or greater than the recommendation in MPMS 20.1 §1.11.3, as required for accurate allocation. Samples shall be taken at the outlets of each first separator stage, at each gas lift supply and distribution meter, and at all points of custody transfer. Industry standard laboratory analysis shall be performed on each sample, with sampling and analysis performed in compliance with MPMS 8.1, 8.2, 9.1, 14.1 and any other applicable chapters.
4. Meter proving, testing and calibration plans as required per MPMS 20.2 §5, §6.5.1, §7.5.1 and §7.5.3 shall be made available to GLO staff for inspection upon request.
5. All lease oil and gas production royalties shall be due based upon the terms in your lease, and royalty payments shall be made per 31 TAC §9.51. Note that royalty is also due on all non-sales hydrocarbon dispositions (e.g. flare, fuel, instrument, lift, and vent gas).
6. Processed gas allocation factors shall be calculated on a mass (molecular) balance basis, i.e. each processed gas component shall be allocated individually in accordance with the requirements in MPMS 20.1 §1.15.3. Non-processed gas allocation factors shall be calculated on an energy balance basis.
7. You shall retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas sample/stream analysis reports, shrinkage/flash calculation reports, and any other documents within the scope of this commingling approval for a period of at least seven (7) years after creation of each document.
8. You shall obtain permission from GLO before making any changes to the flow process or metering scheme, adding leases or wells to the list of those being commingled, or making any other material change to the commingling application as approved by this letter.
9. You shall obtain approval of your pending surface commingling permit application from the Railroad Commission of Texas, if applicable, and provide GLO with a copy within ten days of its approval.
10. You shall calculate all allocation factors on a proportional basis, i.e. gross (metered) lease production divided by gross (metered) commingled production. You shall not allocate by difference. The term production as used in this condition shall be defined as appropriate (i.e. volume, mass, energy) for each allocated phase (e.g. see Condition 6).

11. In cases where oil is not sold every month—which cases must be consistent with 31 TAC §9.51, the gross production ratios used to calculate oil allocation factors, which factors must be consistent with Condition 10, shall be based on the accumulated gross production from each lease between the current and most recent sales dates.
12. You shall continuously meter the gas lift supply to each well and the gas that passes through any other gas lift supply and distribution meter.
13. You shall account for the presence of any lift and/or buyback gas that is produced along with in situ reservoir gas at the allocation meters when calculating gas allocation factors: this accounting shall be by mass balance (processed gas components) and by energy balance (non-processed gas) as appropriate (see also Condition 6).

Please be advised that you have an ongoing obligation to maintain compliance with these standards and conditions. GLO staff will verify compliance during periodic financial audits, which will include, but are not limited to, independent allocation verification studies. GLO reserves the right to validate or question your measurement and detailed allocation methodology based on our own analysis.

If you have further questions, please feel free to contact me at tom.ortiz@glo.texas.gov or 512-463-5296.

Sincerely



Thomas Manuel Ortiz, Ph.D., P.E.
Petroleum Engineer

TMO/tmo

cc: Dale Sump, Director of Minerals Audit

File No. MF 113599

Culberson County

Commingling Approval

Date Filed: 3/27/2018

By George P. Bush, Commissioner
Thomas M. Atty



Texas General Land Office

Reconciliation Billing

George P. Bush, Commissioner

PO Box 12873
Austin, TX 78711-2873
(800) 998-4456
8:00 - 5:00 M-F

BPX Operating Company
Attn: Patty Burg
Office: WM11 6025-1
15377 Memorial Drive
Houston, TX 77079-4101

Billing Date: 5/5/2021
Billing Due Date: 6/4/2021
Customer Number: C000046383

Invoice	Mineral File	Gas Royalty	Oil Royalty	Penalty	Interest	Total Due
21I00715	MF113599	\$0.00	\$1,000.22	\$224.01	\$96.78	\$1,321.01
Total Due		\$0.00	\$1,000.22	\$224.01	\$96.78	\$1,321.01

Penalty and interest have been calculated thru 5/31/2021. Payment remitted after 5/31/2021 will result in additional penalty and interest charges.

Charlton, Andrea M (512) 463-5190 or Andrea.Charlton@GLO.TEXAS.GOV

NOTICE

- Please update GLO1 and GLO2 production reports to correct volumes.
- Please do not update GLO3 report to include billed royalty, penalty or interest. This receivable has already been recorded.
- For questions regarding this invoice, email us at glo123@glo.texas.gov.

This notice does not constitute an Audit Billing Notice as defined in Section 52.135 of the Texas Natural Resources Code and, consequently, does not preclude the TGLO from conducting further examinations of these leases, time periods or issues.

Detach and return with payment

Reconciliation Billing

BPX Operating Company

Billing Date: 5/5/2021

Billing Due Date: 6/4/2021

Customer Number: C000046383

Remit Payment To:

Texas General Land Office

PO Box 12873

Austin, TX 78711-2873

Invoice	Mineral File	Gas Royalty	Oil Royalty	Penalty	Interest	Total Due
21I00715	MF113599	\$0.00	\$1,000.22	\$224.01	\$96.78	\$1,321.01
Total Due		\$0.00	\$1,000.22	\$224.01	\$96.78	\$1,321.01
Amt. Paid						

Customer ID: C000046383
 Invoice Number: MF113599
 GLO Lease: BPX OPERATING COMPANY
 GLO Review: SEPT 2019 Through AUG 2020
 Review Period: P&I Calculation Date: 5/31/2021
 Royalty Rate: 12.50%

Category: Oil
 Auditor/AE: Acharito
 Billing Date: 5/31/2021

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Month / Year	RRC Number	Gas/Oil Volume	Tract Participants	Price	BTU	Gross Value	Royalty Due	Royalty Paid	Additional Roy	Number of Days	Interest Rate For	Penalty Rate For	Interest Rate From	Revenue Due
Sep-19	08-283884	37	1,000,000,000	52.977110	1,000,000	\$1,957.93	\$244.74	\$0.00	\$244.74	573	6.50%	\$25.00	\$22.40	\$282.14
Oct-19	08-283884	(78)	1,000,000,000	48.181920	1,000,000	(\$3,758.19)	(\$469.77)	\$0.00	(\$469.77)	543	6.50%	\$0.00	\$0.00	(\$469.77)
Nov-19	08-283884	18	1,000,000,000	53.706930	1,000,000	\$966.72	\$120.84	\$0.00	\$120.84	512	5.75%	\$25.00	\$8.62	\$154.46
Dec-19	08-283884	45	1,000,000,000	56.881970	1,000,000	\$2,559.69	\$319.96	\$0.00	\$319.96	481	5.75%	\$32.00	\$21.27	\$373.23
Jan-20	08-283884	34	1,000,000,000	54.486040	1,000,000	\$1,852.53	\$231.57	\$0.00	\$231.57	452	5.75%	\$25.00	\$14.34	\$270.91
Feb-20	08-283884	71	1,000,000,000	47.334170	1,000,000	\$3,360.73	\$420.09	\$0.00	\$420.09	421	5.75%	\$42.01	\$23.96	\$486.06
Mar-20	08-283884	20	1,000,000,000	27.590000	1,000,000	\$551.80	\$68.98	\$0.00	\$68.98	391	5.75%	\$25.00	\$3.61	\$97.59
May-20	08-283884	19	1,000,000,000	14.213420	1,000,000	\$270.05	\$33.76	\$0.00	\$33.76	330	5.75%	\$25.00	\$1.44	\$60.20
Jun-20	08-283884	7	1,000,000,000	34.339160	1,000,000	\$240.37	\$30.05	\$0.00	\$30.05	299	5.75%	\$25.00	\$1.14	\$56.19
TOTALS		173				\$5,001.64	\$1,000.22	\$0.00	\$1,000.22			\$224.01	\$86.78	\$1,321.01

ATTENTION: Patty Burg
 E-MAIL: Patty.Burg@bpx.com

COMMENTS: SALES VOLUMES REPORTED TO THE GLO WERE COMPARED TO THE SALES VOLUMES REPORTED TO THE RRC.

IT HAS BEEN DETERMINED THAT THE SALES VOLUMES HAVE BEEN UNDER PAID.

COLUMN (3) RRC VOLUME - REPRESENTS UNDER REPORTED SALES VOLUMES TO THE GLO FROM RRC WELL ID# 08-283884

COLUMN (5) PRICE - TAKEN FROM PRODUCTION ROYALTY REPORTS SUBMITTED TO THE TEXAS GENERAL LAND OFFICE

COLUMN (13)(14)(15) PLEASE GO TO THIS WEB SITE FOR EXPLANATION OF PENALTY AND INTEREST ASSESSMENT:

<http://www.glo.texas.gov/energy-business/oil-gas/rac/forms/penalty-interest-assessment-rules.pdf>

NOTE 1: PLEASE REMIT PAYMENT OF THIS INVOICE SEPARATELY FROM REGULAR ROYALTY PAYMENTS. THE PREFERRED METHOD OF PAYMENT IS BY CHECK ACCOMPANIED WITH THE BOTTOM HALF OF THE ATTACHED INVOICE. IF PAYMENT IS MADE THROUGH ACH DEBIT, SEND AN EMAIL TO account.services@glo.texas.gov NOTING YOUR COMPANY NAME, CUSTOMER ID, INVOICE NUMBER, REMITTANCE DATE AND AMOUNT OF PAYMENT.

File No. MF 113599 9

County

Recon Billings

Date Filed: 8/16/2021

George F. Bush, Commissioner

By

VP