

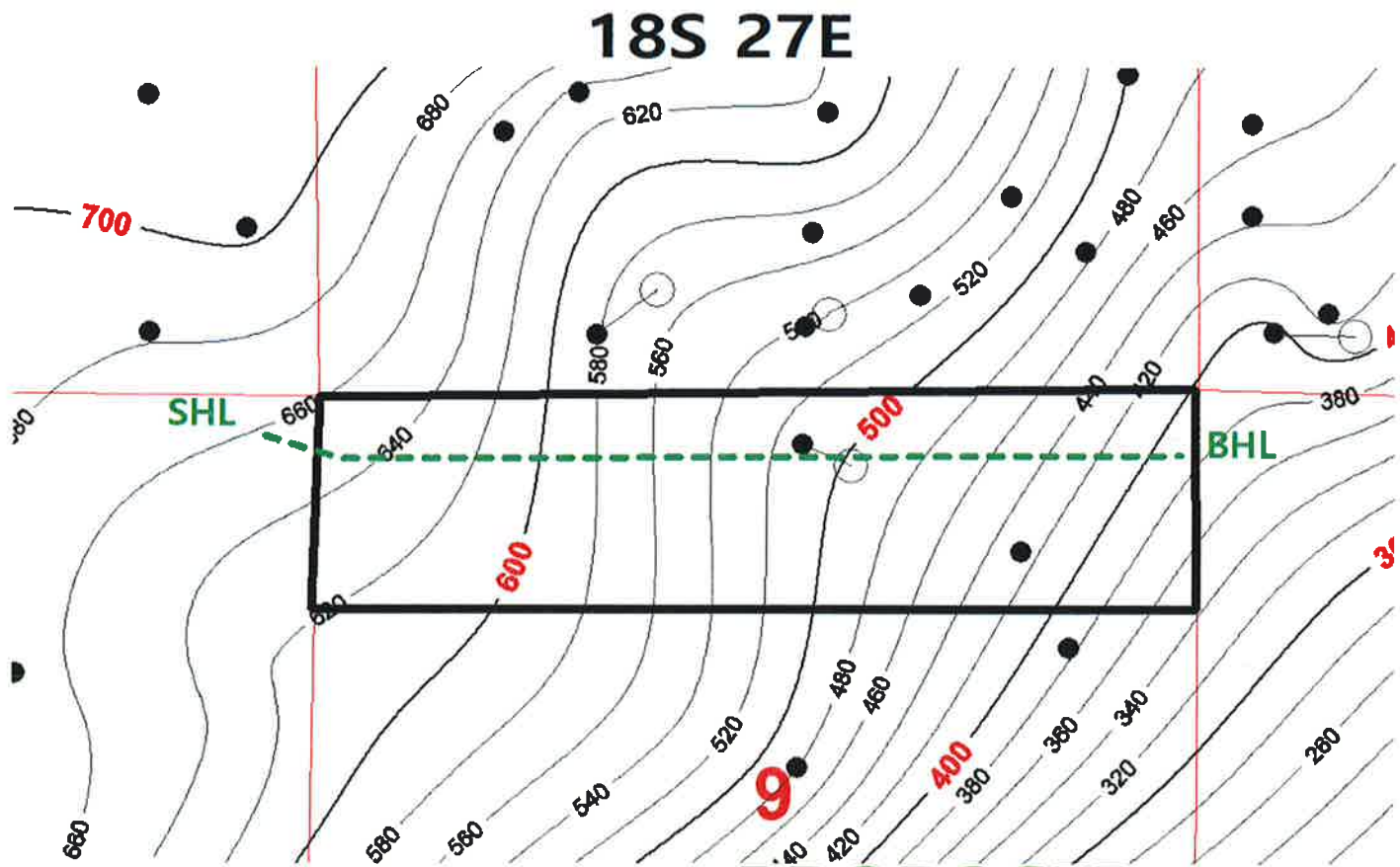
**BEFORE THE OIL CONSERVATION DIVISION
EXAMINER HEARING FEBRUARY 6, 2020**

CASE NO. 21050

*HAWK 9 FEDERAL COM 1H
HAWK 9 FEDERAL COM 2H*

EDDY COUNTY, NEW MEXICO

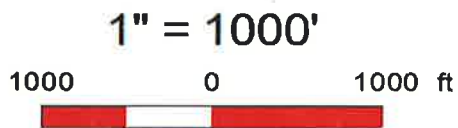




PROPOSED

HAWK 9 FEDERAL 1H

MAP LEGEND



**PRODUCING
YESO WELL**

PROPOSED UNIT

TOP YESO SS STRUCTURE

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 2
Submitted by: **Lime Rock Resources**
Hearing Date: February 06, 2020
Case No. 21050

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

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name HAWK 9 FEDERAL COM		⁶ Well Number 2H
⁷ OGRID No. 277558	⁸ Operator Name LIME ROCK RESOURCES II-A, L.P.		⁹ Elevation 3477.1

¹⁰ Surface Location

UL, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	8	18 S	27 E		387	NORTH	373	EAST	EDDY

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	18 S	27 E		820	NORTH	100	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 8
LAT. = 32.7695498°N
LONG. = 104.3091295°W
NMSP EAST (FT)
N = 643695.09
E = 548777.05

NE CORNER SEC. 8
LAT. = 32.7695301°N
LONG. = 104.2919694°W
NMSP EAST (FT)
N = 643689.57
E = 554051.59

BOTTOM OF HOLE
LAT. = 32.7673124°N
LONG. = 104.2752026°W
NMSP EAST (FT)
N = 642885.14
E = 559205.66

NE CORNER SEC. 9
LAT. = 32.7695666°N
LONG. = 104.2748572°W
NMSP EAST (FT)
N = 643705.32
E = 559311.36

S89°56'24"E 2639.38 FT S89°56'25"E 2636.52 FT N89°49'37"E 2629.54 FT N89°49'47"E 2631.62 FT

W/4 CORNER SEC. 8
LAT. = 32.7622907°N
LONG. = 104.3091424°W
NMSP EAST (FT)
N = 641057.42
E = 548773.70

373'
387'

N/4 CORNER SEC. 9
LAT. = 32.7695488°N
LONG. = 104.2834167°W
NMSP EAST (FT)
N = 643697.50
E = 556680.44

S89°45'50"W 2627.73 FT S89°57'54"W 2625.98 FT S89°58'46"W 2625.24 FT

S/4 CORNER SEC. 8
LAT. = 32.7550734°N
LONG. = 104.3096071°W
NMSP EAST (FT)
N = 638429.13
E = 5541398.24

300'16'22"W 2625.41 FT
300'16'06"W 2625.63 FT

E/4 CORNER SEC. 9
LAT. = 32.7623345°N
LONG. = 104.2749216°W
NMSP EAST (FT)
N = 641074.18
E = 559293.01

S89°45'48"W 2628.29 FT S89°45'50"W 2627.73 FT S89°57'54"W 2625.98 FT S89°58'46"W 2625.24 FT

SW CORNER SEC. 8
LAT. = 32.7550456°N
LONG. = 104.3091543°W
NMSP EAST (FT)
N = 638418.28
E = 548770.65

300'15'22"W 2632.42 FT
300'15'22"W 2632.42 FT

SE CORNER SEC. 9
LAT. = 32.7551009°N
LONG. = 104.2749845°W
NMSP EAST (FT)
N = 638442.50
E = 559275.13

HAWK 9 FEDERAL COAL 2H
ELEV. = 3477.1'
LAT. = 32.7684682°N (NAD83)
LONG. = 104.2931893°W
NMSP EAST (FT)
N = 643303.07
E = 553676.77

NOTE:
LATITUDE AND LONGITUDE COORDINATES
ARE SHOWN USING THE NORTH
AMERICAN DATUM OF 1983 (NAD83).
LISTED NEW MEXICO STATE PLANNED
COAL COORDINATES ARE GRID (NAD83)
BASED ON BEARING AND DISTANCES
USED ARE NEW MEXICO STATE PLANNED
EAST COORDINATES MODIFIED TO THE
SURFACE. VERTICAL DATUM NAVD80.

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

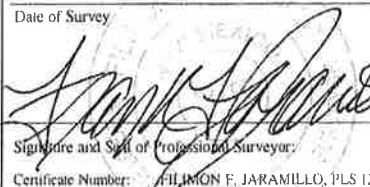
E-mail Address _____

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 12, 2019

Date of Survey _____

Signature and Seal of Professional Surveyor: 

Certificate Number: _____

FILIMON E. JARAMILLO, PLS 12797

SURVEY NO. 7035

Hawk 9 Federal Com 1H & 2H (Case No. 21048)

N/2 N/2 of Section 9-T18S-R27E

Eddy County, New Mexico

	Tract 1				Tract 2		
			9				

Ownership

Tract 1: **N/2 NW/4 of Section 9-18S-27E**
 Federal Lease #USA NM-031186

Owner	Interest
XTO Energy Inc.	100.00%

Tract 2: **N/2 NE/4 of Section 9-18S-27E**
 Federal Lease #USA NM-025604

Owner	Interest
Lime Rock Resources	50.00%
Occidental Permian Ltd.	50.00%
Total	100.00%

Unit Recapitulation

Owner	Interest
Lime Rock Resources	25.00%
Occidental Permian Ltd.	25.00%
XTO Energy Inc.	50.00%
Total	100.00%

Seeking to Compulsory Pool

14162065_v1



December 2, 2019

Via email and Fedex

Alissa Payne
Occidental Permian Limited Partnership
5 Greenway Plaza, Suite 110
Houston, TX 77046

Re: Horizontal Well Proposal
Hawk 9 Federal Com #1H
N/2 N/2 Sec 9-18S-27E
Eddy County, New Mexico

Ladies and Gentlemen:

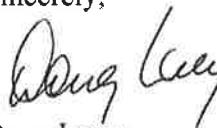
Lime Rock Resources II-A, L.P. ("LRR") proposes to drill the captioned well horizontally West to East through Units A, B, C & D in Section 9-T18S-R27E as an 8403' MD/3175' TVD Upper Yeso well. Surface location will be in Lot A of Sec 8-T18S-R27E. The well will be completed in 24 stages with a slick water frac and produced by ESP. Proposed location (subject to a final survey of the surface location) is:

Proposed surface location: 347' FNL & 373' FEL of Sec 8-T18S-R27E
Proposed Bottom Hole Location: 500' FNL & 100' FEL in Sec 9-T18S-R27E

Enclosed for your review are LRR's Authority for Expenditure ("AFE") in the 8/8ths amount of \$4,062,590 to drill and complete this well. Also enclosed is A.A.P.L. Form 610-1982 Model Form Operating Agreement ("JOA") naming LRR as Operator which will govern all operations for this well. Final forms of Exhibit "A" and "F" to the JOA will be sent after receipt of your information.

Please provide your election on the following page within thirty (30) days and if you elect to participate, also return the signed AFE to my attention at the letterhead address, via email to dlacey@limerockresources.com or by facsimile to 713-345-2197. Should you have questions of a technical nature, please contact our East Artesia Production Manager, Frank Falleri at 713-360-5714, via email at ffalleri@limerockresources.com or you may reach me at my direct number at 713-345-2147.

Sincerely,


Doug Lacey
Landman

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 4
Submitted by: Lime Rock Resources
Hearing Date: February 06, 2020
Case No. 21050

*December 2, 2019
Well Proposal
Hawk 9 Federal Com #1H
N/2 N/2 Sec 9-18S-27E
Eddy County, New Mexico*

In connection with the foregoing and the attached Authority for Expenditure, the undersigned:

_____ elects to participate in the drilling and completion of the proposed well. Please sign and return one copy of this letter and one copy of the AFE.

_____ elects not to participate in the drilling and completing of the proposed well subject to any OCD pooling order issued for the well.

Occidental Permian Limited Partnership

By: _____

Printed Name: _____

Title/Capacity: _____

Date: _____



2019 AFE Partners Approval Form

Well Name: Hawk 9 Fed 1H

API/UVI	Acquisition Name East Artesia	OGSYS WellCode	Operator Lime Rock Resources II-A, LP	County Eddy	State/Province New Mexico	Surface Legal Location
AFE Number D19103	AFE Date 11/19/2019	AFE Type Drilling	Cost Type Capital	AFE Status Routing Approvals	Total AFE Amount (Cost) 4,062,590.00	

Jobs

Job Category Drilling	Primary Job Type Drilling - AFE	Target Formation Yeso	Target Depth (ftKB) 13,480.0	Status 1 In Progress	Start Date 11/19/2019
--------------------------	------------------------------------	--------------------------	---------------------------------	-------------------------	--------------------------

Objective
This AFE provides funds in the amount of \$4,062,590 (\$1,015,647 w/LRR II 25% WI) to drill and complete the Hawk 9 Fed 1H. This well will be drilled as a horizontal Yeso well to a depth of about 8,403' MD/3,175' TVD. Hawk 9 Fed 1H will be completed in ~25 stages with a slick water frac and plug & perf method. The well will be produced by ESP

LRR Intangible Costs		
Cost Des	Code 1	Sum of AFE Amt (Cost)
Bits & Mud Motors	322	40,000.00
Bop/Wellhead Testing	322	6,100.00
Casing Crews & Equip & Tong Serv	322	15,200.00
Cement & Services	322	80,000.00
Contract Drilling-Daywork	322	200,000.00
Directional Tools & Services	322	140,000.00
Drilstring/Workstring Rental Eq	322	15,000.00
Frac Tanks	322	5,000.00
Fuel	322	28,000.00
Inspection & Testing/Misc Labr	322	8,000.00
Land/Legal/Title/Surf Damages	322	90,000.00
Location Restore/Environmental	322	28,000.00
Monitoring Equipment	322	8,500.00
Mud & Chemicals / Facility Fluids & Chemicals	322	30,000.00
Mud Logging	322	36,000.00
Office, Sewage & Misc Rentals	322	51,000.00
Offsite Disposal	322	40,000.00
Purchased Supplies	322	7,000.00
Rig Mob/Demob	322	60,000.00
Safety/Medical	322	15,000.00
Staking / Permitting / Location & Roads / Rathole / Mousehole / Anchors	322	100,000.00
Supervision - Contract	322	50,000.00
Surface Rental Equipment	322	60,000.00
Trucking & Hauling	322	73,000.00
Tubular Testing, Inspection	322	15,300.00
Water Transfer/Frac Pit	322	8,000.00
Water/Water Well	322	6,000.00
Well Control Rentals	322	5,000.00
Bits	324	45,000.00
Cased Hole Logging	324	9,000.00
Contract Geo/Paleo	324	24,750.00
Drilstring/Wrkstring Rental Eq	324	31,500.00
Frac Tanks	324	18,900.00
Fuel	324	139,500.00
Mud & Chemicals / Facility Fluids & Chemicals	324	44,955.00
Office, Sewage & Misc Rentals	324	27,900.00
Offsite Disposal	324	29,250.00
Perforating	324	171,000.00
Plugs & Packers	324	34,515.00
Prod. Well Testing Equip./Serv	324	22,500.00
Pumping Services - Hcl Acid	324	22,500.00
Safety/Medical	324	4,500.00
Service Rig / Coil Tubing / Snubbing	324	92,340.00
Slickline Work/Swabbing	324	9,000.00
Staking / Permitting / Location & Roads / Rathole / Mousehole / Anchors	324	4,500.00
Stimulation	324	1,113,000.00
Supervision - Contract	324	41,310.00
Surface Rental Equipment	324	43,200.00
Trucking & Hauling	324	18,000.00
Tubular Testing/Inspection	324	3,500.00

LRR Tangible Costs		
Cost Des	Code 1	Sum of AFE Amt (Cost)
Cementing Equipment	323	17,000.00
Conductor Casing	323	15,000.00
Surface Casing	323	35,000.00
Wellhead Equipment	323	8,000.00
Artificial Lift Equipment	325	45,000.00
Production Casing	325	170,000.00
Subsurface Equipment	325	247,500.00
Tubing	325	22,750.00
Wellhead Equipment	325	15,000.00
Total (Sum)		575,250.00



2019 AFE Partners Approval Form

Well Name: Hawk 9 Fed 1H

API/UWI	Acquisition Name East Artesia	OGSYS WellCode	Operator Lime Rock Resources II-A, LP	County Eddy	State/Province New Mexico	Surface Legal Location
AFE Number D19103	AFE Date 11/19/2019	AFE Type Drilling	Cost Type Capital	AFE Status Routing Approvals	Total AFE Amount (Cost) 4,062,590.00	

Jobs

Job Category Drilling	Primary Job Type Drilling - AFE	Target Formation Yeso	Target Depth (ftKB) 13,480.0	Status 1 In Progress	Start Date 11/19/2019
--------------------------	------------------------------------	--------------------------	---------------------------------	-------------------------	--------------------------

Objective

This AFE provides funds in the amount of \$4,062,590 (\$1,015,647 w/LRR II 25% WI) to drill and complete the Hawk 9 Fed 1H. This well will be drilled as a horizontal Yeso well to a depth of about 8,403' MD/3,175' TVD. Hawk 9 Fed 1H will be completed in ~25 stages with a slick water frac and plug & perf method. The well will be produced by ESP.

LRR Intangible Costs

Cost Desc	Code 1	Sum of AFE Amt (Cost)
Water Transfer/Frac Pit	324	76,500.00
Water/Water Well	324	189,000.00
Well Control Rentals	324	51,120.00
Total (Sum)		3,487,340.00



2019 AFE D&C Partners Approval Signature Form

Well Name: **Hawk 9 Fed 1H**

API/UWI	Acquisition Name East Artesia	OGSYS WellCode	Operator Lime Rock Resources II-A, LP	County Eddy	State/Province New Mexico	Surface Legal Location
AFE Number D19103	AFE Date 11/19/2019	AFE Type Drilling	Cost Type Capital	AFE Status Routing Approvals	Total AFE Amount (Cost) 4,062,590.00	

Jobs

Job Category Drilling	Primary Job Type Drilling - AFE	Target Formation Yeso	Target Depth (ftKB) 13,480.0	Status 1 In Progress	Start Date 11/19/2019
---------------------------------	---	---------------------------------	--	--------------------------------	---------------------------------

Objective

This AFE provides funds in the amount of \$4,062,590 (\$1,015,647 w/LRR II 25% WI) to drill and complete the Hawk 9 Fed 1H. This well will be drilled as a horizontal Yeso well to a depth of about 8,403' MD/3,175' TVD. Hawk 9 Fed 1H will be completed in ~25 stages with a slick water frac and plug & perf method. The well will be produced by ESP

Company: _____

☐ Elects TO participate in the drilling and completion of the well

☐ Elects NOT TO participate in the drilling and completion of the well

By: _____

Date: _____

Print: _____

Email: _____

Insurance Election

This AFE includes an estimate of the cost of Operator's Control of Well Insurance. Please indicate below whether or not you want to participate in this insurance:

☐ Elects to be covered under Operator's Control of Well Insurance.

☐ Elects **NOT** to be covered under Operator's Control of Well Insurance. (A copy of the participants Certificate of Insurance must accompany this election.)

Failure to indicate a specific election for insurance coverage shall constitute an election by the party to participate in the Operator's Control of Well Insurance and therefore such party shall be charged with and shall pay its proportionate share of the insurance premium relative to the proposed operation.

Well Information: Hawk 9 Fed 1H

If you are electing to participate and would like to access well data, please include an email address on the line below to receive enrollment information from PDS, our well data exchange system. If you are already enrolled in PDS and would like to access data for this well, please so indicate by including the email address associated with your PDS account.

Email: _____



December 2, 2019

Via email and Fedex

Alissa Payne
Occidental Permian Limited Partnership
5 Greenway Plaza, Suite 110
Houston, TX 77046

Re: Horizontal Well Proposal
Hawk 9 Federal Com #2H
N/2 N/2 Sec 9-18S-27E
Eddy County, New Mexico

Ladies and Gentlemen:

Lime Rock Resources II-A, L.P. ("LRR") proposes to drill the captioned well horizontally West to East through Units A, B, C & D in Section 9-T18S-R27E as an 8877' MD/3580' TVD Lower Yeso well. Surface location will be in Lot A of Sec 8-T18S-R27E. The well will be completed in 24 stages with a slick water frac and produced by ESP. Proposed location (subject to a final survey of the surface location) is:

Proposed surface location:	387' FNL & 373' FEL of Sec 8-T18S-R27E
Proposed Bottom Hole Location:	820' FNL & 100' FEL in Sec 9-T18S-R27E

Enclosed for your review are LRR's Authority for Expenditure ("AFE") in the 8/8ths amount of \$4,062,590 to drill and complete this well. Also enclosed is A.A.P.L. Form 610-1982 Model Form Operating Agreement ("JOA") naming LRR as Operator which will govern all operations for this well. Final forms of Exhibit "A" and "F" to the JOA will be sent after receipt of your information.

Please provide your election on the following page within thirty (30) days and if you elect to participate, also return the signed AFE to my attention at the letterhead address, via email to dlacey@limerockresources.com or by facsimile to 713-345-2197. Should you have questions of a technical nature, please contact our East Artesia Production Manager, Frank Falleri at 713-360-5714, via email at ffalleri@limerockresources.com or you may reach me at my direct number at 713-345-2147.

Sincerely,

A handwritten signature in dark ink, appearing to read "Doug Lacey", written over a light blue horizontal line.

Doug Lacey
Landman

*December 2, 2019
Well Proposal
Hawk 9 Federal Com #2H
N/2 N/2 Sec 9-18S-27E
Eddy County, New Mexico*

In connection with the foregoing and the attached Authority for Expenditure, the undersigned:

_____ elects to participate in the drilling and completion of the proposed well. Please sign and return one copy of this letter and one copy of the AFE.

_____ elects not to participate in the drilling and completing of the proposed well subject to any OCD pooling order issued for the well.

Occidental Permian Limited Partnership

By: _____

Printed Name: _____

Title/Capacity: _____

Date: _____



2019 AFE Partners Approval Form

Well Name: Hawk 9 Fed 2H

API/UWI	Acquisition Name East Artesia	OGSYS WellCode	Operator Lime Rock Resources II-A, LP	County Eddy	State/Province New Mexico	Surface Legal Location
AFE Number D19104	AFE Date 11/19/2019	AFE Type Drilling	Cost Type Capital	AFE Status Routing Approvals	Total AFE Amount (Cost) 4,062,590.00	

Jobs

Job Category Drilling	Primary Job Type Drilling - AFE	Target Formation Yeso	Target Depth (ftKB) 13,480.0	Status 1 In Progress	Start Date 11/19/2019
---------------------------------	---	---------------------------------	--	--------------------------------	---------------------------------

Objective
 This AFE provides funds in the amount of \$4,062,590 (\$1,015,647 w/LRR II 25% WI) to drill and complete the Hawk 9 Fed 2H. This well will be drilled as a horizontal Yeso well to a depth of about 8,877' MD/3,580' TVD. Hawk 9 Fed 2H will be completed in ~25 stages with a slick water frac and plug & perf method. The well will be produced by ESP

LRR Intangible Costs		
Cost Des	Code 1	Sum of AFE Amt (Cost)
Bits & Mud Motors	322	40,000.00
Bop/Wellhead Testing	322	6,100.00
Casing Crews & Equip & Tong Serv	322	15,200.00
Cement & Services	322	80,000.00
Contract Drilling-Daywork	322	200,000.00
Directional Tools & Services	322	140,000.00
Drilstring/Workstring Rental Eq	322	15,000.00
Frac Tanks	322	5,000.00
Fuel	322	28,000.00
Inspection & Testing/Misc Labr	322	8,000.00
Land/Legal/Title/Surf Damages	322	90,000.00
Location Restore/Environmental	322	28,000.00
Monitoring Equipment	322	8,500.00
Mud & Chemicals / Facility Fluids & Chemicals	322	30,000.00
Mud Logging	322	36,000.00
Office, Sewage & Misc Rentals	322	51,000.00
Offsite Disposal	322	40,000.00
Purchased Supplies	322	7,000.00
Rig Mob/Demob	322	60,000.00
Safety/Medical	322	15,000.00
Staking / Permitting / Location & Roads / Rathole / Mousehole / Anchors	322	100,000.00
Supervision - Contract	322	50,000.00
Surface Rental Equipment	322	60,000.00
Trucking & Hauling	322	73,000.00
Tubular Testing, Inspection	322	15,300.00
Water Transfer/Frac Pit	322	8,000.00
Water/Water Well	322	6,000.00
Well Control Rentals	322	5,000.00
Bits	324	45,000.00
Cased Hole Logging	324	9,000.00
Contract Geo/Paleo	324	24,750.00
Drilstring/Wrkstring Rental Eq	324	31,500.00
Frac Tanks	324	18,900.00
Fuel	324	139,500.00
Mud & Chemicals / Facility Fluids & Chemicals	324	44,955.00
Office, Sewage & Misc Rentals	324	27,900.00
Offsite Disposal	324	29,250.00
Perforating	324	171,000.00
Plugs & Packers	324	34,515.00
Prod Well Testing Equip./Serv	324	22,500.00
Pumping Services - Hcl Acid	324	22,500.00
Safety/Medical	324	4,500.00
Service Rig / Coil Tubing / Snubbing	324	92,340.00
Slickline Work/Swabbing	324	9,000.00
Staking / Permitting / Location & Roads / Rathole / Mousehole / Anchors	324	4,500.00
Stimulation	324	1,113,000.00
Supervision - Contract	324	41,310.00
Surface Rental Equipment	324	43,200.00
Trucking & Hauling	324	18,000.00
Tubular Testing/Inspection	324	3,500.00

LRR Tangible Costs		
Cost Des	Code 1	Sum of AFE Amt (Cost)
Cementing Equipment	323	17,000.00
Conductor Casing	323	15,000.00
Surface Casing	323	35,000.00
Wellhead Equipment	323	8,000.00
Artificial Lift Equipment	325	45,000.00
Production Casing	325	170,000.00
Subsurface Equipment	325	247,500.00
Tubing	325	22,750.00
Wellhead Equipment	325	15,000.00
Total (Sum)		575,250.00



2019 AFE Partners Approval Form

Well Name: **Hawk 9 Fed 2H**

API/UWI	Acquisition Name East Artesia	OGSYS WellCode	Operator Lime Rock Resources II-A, LP	County Eddy	State/Province New Mexico	Surface Legal Location
AFE Number D19104	AFE Date 11/19/2019	AFE Type Drilling	Cost Type Capital	AFE Status Routing Approvals	Total AFE Amount (Cost) 4,062,590.00	

Jobs

Job Category Drilling	Primary Job Type Drilling - AFE	Target Formation Yeso	Target Depth (ftKB) 13,480.0	Status 1 In Progress	Start Date 11/19/2019
---------------------------------	---	---------------------------------	--	--------------------------------	---------------------------------

Objective

This AFE provides funds in the amount of \$4,062,590 (\$1,015,647 w/LRR II 25% WI) to drill and complete the Hawk 9 Fed 2H. This well will be drilled as a horizontal Yeso well to a depth of about 8,877' MD/3,580' TVD. Hawk 9 Fed 2H will be completed in ~25 stages with a slick water frac and plug & perf method. The well will be produced by ESP.

LRR Intangible Costs		
Cost Desc	Code 1	Sum of AFE Amt (Cost)
Water Transfer/Frac Pit	324	76,500.00
Water/Water Well	324	189,000.00
Well Control Rentals	324	51,120.00
Total (Sum)		3,487,340.00



2019 AFE D&C Partners Approval Signature Form

Well Name: **Hawk 9 Fed 2H**

API/JWI	Acquisition Name East Artesia	OGSYS WellCode	Operator Lime Rock Resources II-A, LP	County Eddy	State/Province New Mexico	Surface Legal Location
AFE Number D19104	AFE Date 11/19/2019	AFE Type Drilling	Cost Type Capital	AFE Status Routing Approvals	Total AFE Amount (Cost) 4,062,590.00	

Jobs

Job Category Drilling	Primary Job Type Drilling - AFE	Target Formation Yeso	Target Depth (ftKB) 13,480.0	Status 1 In Progress	Start Date 11/19/2019
--------------------------	------------------------------------	--------------------------	---------------------------------	-------------------------	--------------------------

Objective

This AFE provides funds in the amount of \$4,062,590 (\$1,015,647 w/LRR II 25% WI) to drill and complete the Hawk 9 Fed 2H. This well will be drilled as a horizontal Yeso well to a depth of about 8,877' MD/3,580' TVD. Hawk 9 Fed 2H will be completed in ~25 stages with a slick water frac and plug & perf method. The well will be produced by ESP

Company: _____

☐ Elects TO participate in the drilling and completion of the well

☐ Elects NOT TO participate in the drilling and completion of the well

By: _____

Date: _____

Print: _____

Email: _____

Insurance Election

This AFE includes an estimate of the cost of Operator's Control of Well Insurance. Please indicate below whether or not you want to participate in this insurance:

☐ Elects to be covered under Operator's Control of Well Insurance.

☐ Elects **NOT** to be covered under Operator's Control of Well Insurance. (A copy of the participants Certificate of Insurance must accompany this election.)

Failure to indicate a specific election for insurance coverage shall constitute an election by the party to participate in the Operator's Control of Well Insurance and therefore such party shall be charged with and shall pay its proportionate share of the insurance premium relative to the proposed operation.

Well Information: Hawk 9 Fed 2H

If you are electing to participate and would like to access well data, please include an email address on the line below to receive enrollment information from PDS, our well data exchange system. If you are already enrolled in PDS and would like to access data for this well, please so indicate by including the email address associated with your PDS account.

Email: _____



January 30, 2020

Via email and Fedex

Alissa Payne
Occidental Permian Limited Partnership
5 Greenway Plaza, Suite 110
Houston, TX 77046

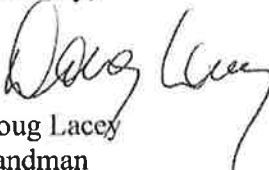
Re: Horizontal Well Proposal revision
Hawk 9 Federal Com #1H
N/2 N/2 Sec 9-18S-27E
Eddy County, New Mexico

Dear Alissa,

The subject well was proposed by the attached letter dated December 2, 2019. Based on the recent performance of three horizontal wells drilled by Lime Rock in the same area last year, Lime Rock Resources II-A, L.P. hereby amends this proposal by lowering the TVD from the Upper Yeso (Paddock @ 3175') to the Lower Yeso (Blinebry @ 3800'). All other details of the well proposal remain unchanged.

As you are aware, we are pursuing a Pooling Application and still await a response from you so please provide your election as detailed in the original well proposal or contact me. Again, should you have questions of a technical nature, please contact our East Artesia Production Manager, Frank Falleri at 713-360-5714, via email at ffalleri@limerockresources.com or you may reach me at my direct number at 713-345-2147.

Sincerely,


Doug Lacey
Landman

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 5
Submitted by: Lime Rock Resources
Hearing Date: February 06, 2020
Case No. 21050



January 30, 2020

Via email to Blair Brummell@xtoenergy.com

Blair Brummell
XTO Energy Inc.
22777 Springwoods Village Parkway
W4.5A.534
Spring, TX 77389

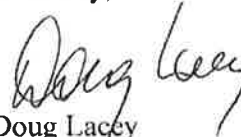
Re: Horizontal Well Proposal revision
Hawk 9 Federal Com #1H
N/2 N/2 Sec 9-18S-27E
Eddy County, New Mexico

Dear Blair,

The subject well was proposed by the attached letter dated December 2, 2019. Based on the recent performance of three horizontal wells drilled by Lime Rock in the same area last year, Lime Rock Resources II-A, L.P. hereby amends this proposal by lowering the TVD from the Upper Yeso (Paddock @ 3175') to the Lower Yeso (Blinebry @ 3800'). All other details of the well proposal remain unchanged.

As you are aware, we are pursuing a Pooling Application and still await a response from you so please provide your election as detailed in the original well proposal or contact me. Again, should you have questions of a technical nature, please contact our East Artesia Production Manager, Frank Falleri at 713-360-5714, via email at ffalleri@limerockresources.com or you may reach me at my direct number at 713-345-2147.

Sincerely,


Doug Lacey
Landman

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF LIME ROCK RESOURCES II-A, L.P.
FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 21050

AFFIDAVIT OF STAN BISHOP

Stan Bishop, of lawful age and being first duly sworn, declares as follows:

1. My name is Stan Bishop and I am employed by Lime Rock Resources ("Lime Rock") as a geologist.

2. I have not previously testified before the New Mexico Oil Conservation Division. I graduated from the University of Memphis with a Bachelor of Arts in Applied Sciences in 1974. I have worked with Lime Rock as a Geologist in the Permian Basin for 14 years and within the Oil and Gas Industry as a Geologist since 1974. I have been a member of the AAPG since the 1980's. I believe that these credentials qualify me as an expert in petroleum geology.

3. I am familiar with the application filed in this case and have conducted a geologic study of the targeted formation underlying the subject acreage.

4. Lime Rock is targeting the Blinbry interval of the Yeso formation with its proposed **Hawk 9 Federal Com 1H** and **Hawk 9 Federal Com 2H** wells.

5. **Exhibits C-1 and C-2** are the same structure map with 20' contour intervals that I prepared for the Top of the Yeso formation. Each map depicts the path of one lateral. Yeso producing wells are highlighted with black dots. Each proposed wellbore is depicted by a green hashed line. The structure map demonstrates that the formation is gently dipping to the southeast

6. **Exhibits C-1 and C-2** also contains a blue line referencing four wells penetrating the Yeso formation that I used to construct a stratigraphic cross-section from A to A'. I used these wells because they penetrate the targeted formation and have good logs. In my opinion, these wells are representative of the geology in the area.

8. In my opinion, the laydown orientation of the proposed well is appropriate to efficiently and effectively develop the subject acreage.

10. In my opinion, the granting of this application is in the best interest of conservation, the prevention of waste, and protection of correlative rights.

FURTHER AFFIAN'T SAYETH NOT.

Ann B. Biggs

Stan Bishop

STATE OF TEXAS)
)
COUNTY OF HARRIS)

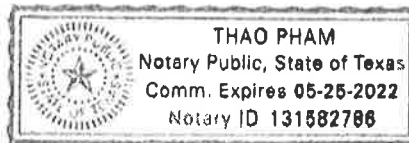
SUBSCRIBED and SWORN to before me this 4TH day of FEBRUARY 2020 by Stan Bishop.

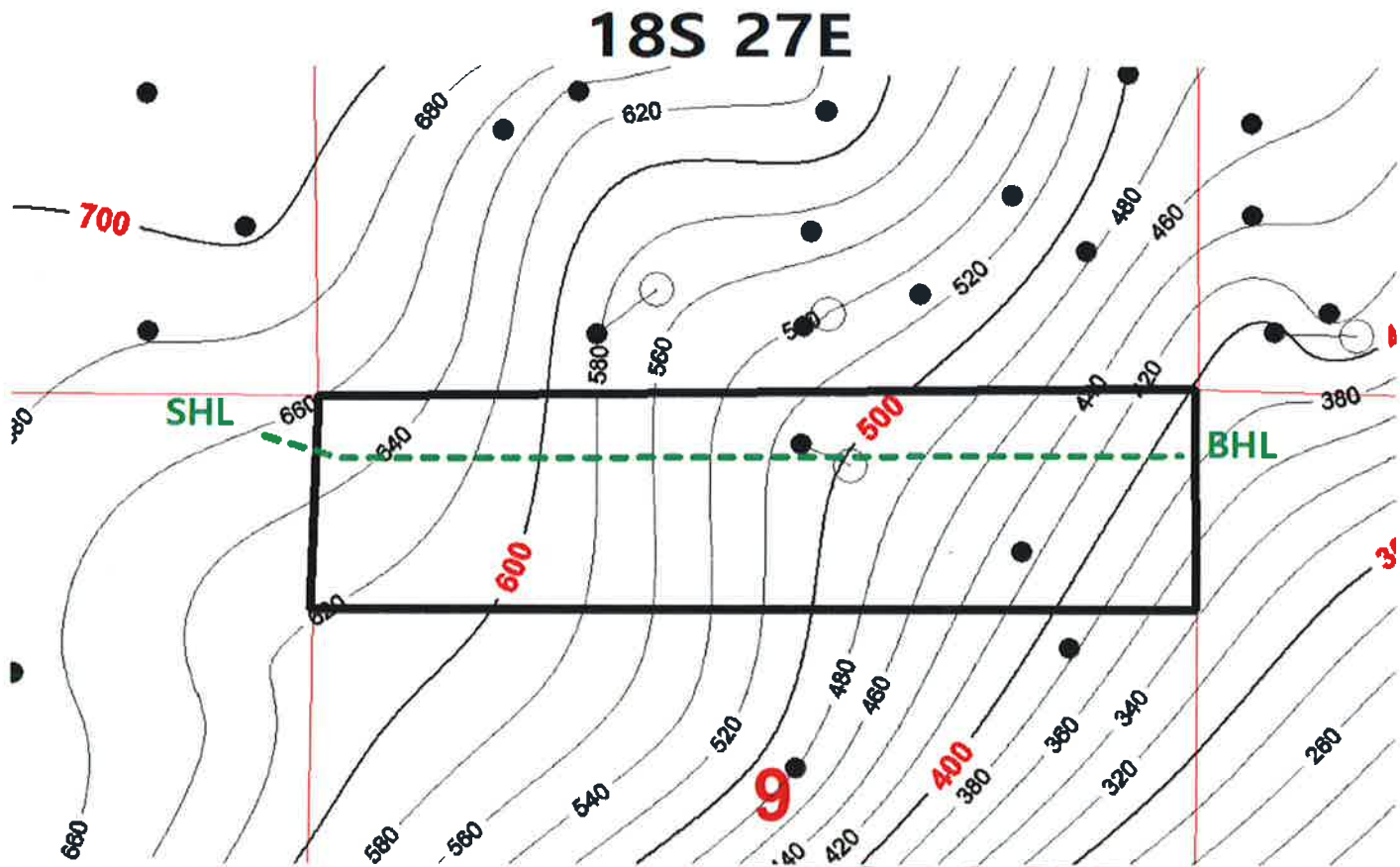


NOTARY PUBLIC

My Commission Expires:

MAY 25, 2022





PROPOSED

HAWK 9 FEDERAL 1H

MAP LEGEND



**PRODUCING
YESO WELL**

PROPOSED UNIT

TOP YESO SS STRUCTURE

HAWK9 FEDERAL 1H & 2H CROSS SECTION

Diagram illustrating the layout of four well pads (A, 98, 9A, and 9) along a north-south line. The pads are labeled with their names and coordinates. The distances between the pads are indicated by arrows and text: 3545 ft between Pad A and Pad 98, 1452 ft between Pad 98 and Pad 9A, and 1997 ft between Pad 9A and Pad 9. The diagram is oriented with North at the top.

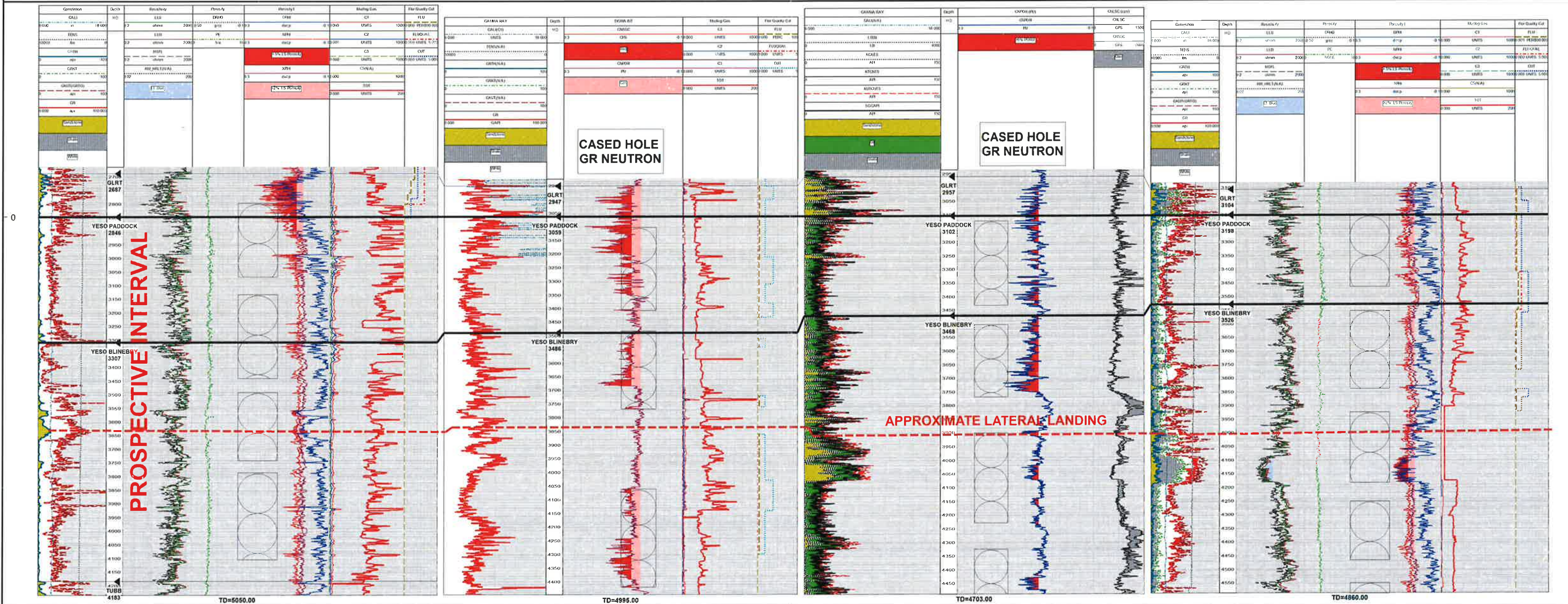
Well Pad	Coordinates	Distance (ft)
A	LIME ROCK RESOURCES COMPTON '5' P FEDERA 4 SE 950 FSL 330 FEL TWP: 18 S - Range: 27 E - Sec. 5	3545
98	LIME ROCK RESOURCES HAWK '98' FEDERAL 18 NE 470 FNL 2010 FEL TWP: 18 S - Range: 27 E - Sec. 9	1452
9A	LIME ROCK RESOURCES HAWK '9A' FEDERAL 22 NE 985 FNL 985 FEL TWP: 18 S - Range: 27 E - Sec. 9	1997
9	LIME ROCK RESOURCES MANN '3' FEDERAL 5 SW 360 FSL 850 FWL TWP: 18 S - Range: 27 E - Sec. 3	

LIME ROCK RESOURCES
COMPTON 5° P FEDERA 4
SE 950 FSL 330 FEL
TWP: 18 S - Range: 27 E - Sec. 5

LIME ROCK RESOURCES
HAWK '9B' FEDERAL 18
NE 470 FNL 2010 FEL
TWP: 18 S - Range: 27 E - Sec. 9

LIME ROCK RESOURCES
HAWK '9A' FEDERAL 22
NE 985 FNL 985 FEL
TWP: 18 S - Range: 27 E - Sec. 9

LIME ROCK RESOURCES
MANN 3rd FEDERAL 5
SW 360 FSL 850 FWL
TWP: 18 S - Range: 27 E - Sec. 3



**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF LIME ROCK
RESOURCES II-A, L.P. FOR COMPULSORY
POOLING, EDDY COUNTY, NEW MEXICO.**

CASE NO. 21050

AFFIDAVIT

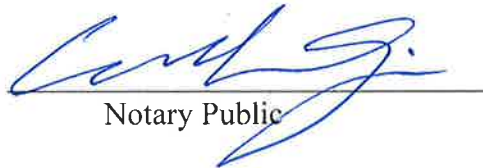
STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

Michael H. Feldewert, attorney in fact and authorized representative of Lime Rock Resources II-A, L.P., the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application has been provided under the notice letters and proof of receipts attached hereto.



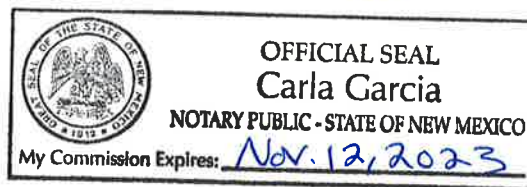
Michael H. Feldewert

SUBSCRIBED AND SWORN to before me this 5th day of February, 2020 by Michael H. Feldewert.


Notary Public

My Commission Expires:

Nov. 12, 2023





Adam G. Rankin
Phone (505) 988-4421
Fax (505) 983-6043
agrarkin@hollandhart.com

January 17, 2020

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

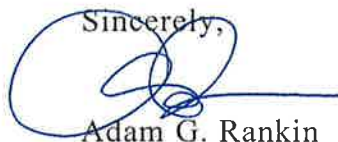
**Re: Application of Lime Rock Resources II-A, L.P. for compulsory pooling, Eddy
County, New Mexico.
Hawk 9 Federal Com 1H & 2H Wells**

Ladies & Gentlemen:

This letter is to advise you that Lime Rock Resources II-A, L.P. has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on February 6, 2020 and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/oed/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Doug Lacey at (713) 345-2147 or dlacey@limerockresources.com.

Sincerely,


Adam G. Rankin
ATTORNEY FOR LIME ROCK RESOURCES II-A,
L.P.

14026898_v1



Tracking Number	Recipient	Status
9214890194038304325894	XTO Energy Inc 22777 Springwoods Village Parkway Spring TX 77389	Delivered Signature Received
9214890194038304325900	Occidental Permian Limited Partnership 5 Greenway Plaza Suite 110 Houston TX 77046	Delivered Signature Received
9214890194038304325917	Jane Ann Hudson Davis 6770 Wolf Creek Court Rio Rancho NM 87144	Delivered Signature Received
9214890194038304325924	Joan A Hudson 660 Camino De Los Gares Apt 334 San Clemente CA 92673	Delivered Signature Received

\$5.73 x 4 = (\$ 23)



Shipment Confirmation Acceptance Notice

A. Mailer Action

Note to Mailer: The labels and volume associated to this form online, **must** match the labeled packages being presented to the USPS® employee with this form.

Lime Rock Hawk 9 Fed Com 1H, 2H
Case No. 21050
CM# 59980.0003

Shipment Date: 01/17/2020

Shipped From:

Name: HOLLAND & HART LLP (1)

Address: 110 N GUADALUPE ST # 1

City: SANTA FE

State: NM ZIP+4® 87501

Type of Mail	Volume
Priority Mail Express®*	
Priority Mail®	0
First-Class Package Service®	
Returns	
International*	
Other	4
Total	4

*Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

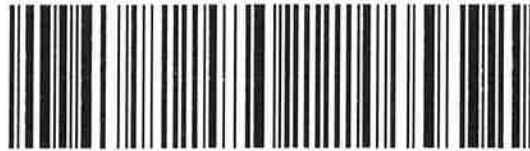
B. USPS Action

Note to RSS Clerk:

1. Home screen > Mailing/Shipping > More
2. Select Shipment Confirm
3. Scan or enter the barcode/label number from PS Form 5630
4. Confirm the volume count message by selecting Yes or No
5. Select Pay and End Visit to complete transaction

USPS EMPLOYEE: Please scan upon pickup or receipt of mail.
Leave form with customer or in customer's mail receptacle.

USPS SCAN AT ACCEPTANCE



9275 0901 1935 6200 0019 6593 66





Holland & Hart LLP (1)
110 N Guadalupe St # 1
Santa Fe NM 87501

Affix Stamp Here
(if issued as an international
certificate of mailing or for
additional copies of this receipt).
Postmark with Date of Receipt.

[illegible]