

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit or CA/Agreement, Name and/or No. Multiple--See Attached
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator DEVON ENERGY PRODUCTION COMPANY Contact: ERIN WORKMAN Email: Erin.workman@dvn.com	8. Well Name and No. Multiple--See Attached
3a. Address 333 WEST SHERIDAN AVENUE OKLAHOMA, OK 73102	3b. Phone No. (include area code) Ph: 405-552-7970	9. API Well No. Multiple--See Attached
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Multiple--See Attached		10. Field and Pool or Exploratory Area Multiple--See Attached
		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Surface Commingling
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Devon Energy Production Company, LP respectfully requests approval of a surface commingle\Off-Lease Measurement, Sales, & Storage for the following wells:

Aquila 22 Fed Com 1H
Sec. 22, T29S, R31E (NENE)
30-015-40627
Lusk; Bone Spring, West
NMLC0070242A, NMNM44594, CA-NMNM131438

Aquila 22 Fed 2H
Sec. 22, T29S, R31E (NENE)
30-015-40755

RECEIVED

NOV 05 2019

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #485895 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION COMPANY LP, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 10/01/2019 (20PP0007SE)	
Name (Printed/Typed) ERIN WORKMAN	Title REGULATORY COMPLIANCE PROF.
Signature (Electronic Submission)	Date 10/01/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By DYLAN ROSSMANGO	Title PETROLEUM ENGINEER	Date 10/29/2019
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

RWP11-5-19

Additional data for EC transaction #485895 that would not fit on the form

5. Lease Serial No., continued

NMNM0107697
NMNM44594

7. If Unit or CA/Agreement, Name and No., continued

NMNM131438
NMNM133115
NMNM133174

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM131438	NMNM44594	AQUILA 22 FED COM 1H	30-015-40627-00-S1	Sec 22 T19S R31E NENE 990FNL 50FEL
NMNM133174	NMNM92767	AQUILA 22 FED COM 4H	30-015-41159-00-S1	Sec 22 T19S R31E NESE 2140FSL 225FEL
NMNM133115	NMNM0107697	ANTARES 23 FED COM 1H	30-015-41105-00-S1	Sec 23 T19S R31E NWNW 1030FNL 225FWL
NMNM44594	NMNM44594	AQUILA 22 FED 2H	30-015-40755-00-S1	Sec 22 T19S R31E NENE 1040FNL 50FEL
NMNM0107697	NMNM0107697	ANTARES 23 FEDERAL 2H	30-015-41106-00-S1	Sec 23 T19S R31E NWNW 1080FNL 225FWL

10. Field and Pool, continued

W LUSK

32. Additional remarks, continued

Lusk; Bone Spring, West
NMNM44594

Aquila 22 Fed Com 4H
Sec. 22, T29S, R31E (NENE)
30-015-41159
Lusk; Bone Spring, West
NMNM44594, NM92767, CA-NMNM133174

Antares 23 Fed Com 1H
Sec. 23, T19S, R31E (NWNW)
30-015-41105
Lusk; Bone Spring, West
NMNM112274, NMNM09003, NMNM0107697, CA-NMNM133115

Antares 23 Fed 2H
Sec. 23, T19S, R31E (NWNW)
30-015-41106
Lusk; Bone Spring, West
NMNM0107697

The central tank battery is located on the shared pad for the Aquila 22 Fed Com 1H and Aquila 22 Fed 2H located in NENE, Sec. 22-T19S-R31E. The production from the Aquila 22 Fed Com 1H, Aquila 22 Fed Com 4H, and the Antares 23 Fed Com 1H will each have their own designated three phase separator with Coriolis to meter the oil, flow meter to meter the water, and gas allocation meter to meter the gas. The Antares 23 Fed 2H & Aquila 22 Fed 2H will flow through their own respective, individual production trains. Each well will utilize a production separator and heater/treater with individual oil and gas measurement meters. VRU will be allocated back to each well utilizing a percentage of each wells monthly oil production.

The Aquila 22 Federal Battery will have four oil tanks that all five wells will utilize, and they have a common DCP CDP #13135416 which is located on the northeast corner of the facility. The oil, gas, and water volumes from all wells (Antares 23 Fed 2H, Aquila 22 Fed 2H, Aquila 22 Fed Com 1H, Aquila 22 Fed Com 4H, and the Antares 23 Fed Com 1H) will be determined using individual three-phase separator measurements.

Working, royalty, and overriding interest owners are not identical and will be notified of this proposal via certified mail.

ATTACHMENTS: DELIVERABLES

APPLICATION FOR A CENTRAL TANK BATTERY, LEASE COMMINGLE, OFF LEASE MEASUREMENT, SALES, & STORAGE

Central Tank Battery Proposal for the Antares and Aquila Wells:

Devon Energy Production Company, LP is requesting approval for the VRU Commingle, for the following wells:

Federal Lease NMLC 0070242A (12.5%), NM44594 (SCH. B 12.5-25%), CA NM131438

Well Name	Location	API #	Pool 41480	BOPD	MCFPD
Aquila 22 Fed Com 1H	NENE Sec. 22-T19S-R31E	30-015-40627	Lusk; Bone Spring; West	14	64

Federal Lease: NM44594 (SCH. B 12.5-25%)

Well Name	Location	API #	Pool 41480	BOPD	MCFPD
Aquila 22 Fed 2H	NENE Sec. 22-T19S-R31E	30-015-40755	Lusk; Bone Spring; West	16	19

Federal Lease: NM44594 (SCH. B 12.5-25%), NM 92767 (16 2/3%) CA NM133174

Well Name	Location	API #	Pool 41480	BOPD	MCFPD
Aquila 22 Fed Com 4H	NESE Sec. 22-T19S-R31E	30-015-41159	Lusk; Bone Spring; West	35	49

Federal Lease: NM112274 (12.5%), NM09003 (12.5%), NM0107697 (Step Rate (Sch. B 12.5% -25%) CA NM133115

Well Name	Location	API #	Pool 41480	BOPD	MCFPD
Antares 23 Fed Com 1H	NWNW Sec. 23-T19S-31E	30-015-41105	Lusk; Bone Spring; West	31	74

Federal Lease: NMNM 0107697 (Step Rate (Sch. B: 12.5% -25%))

Well Name	Location	API #	Pool 41480	BOPD	MCFPD
Antares 23 Fed 2H	NWNW Sec. 23-T19S-31E	30-015-41106	Lusk; Bone Spring; West	29	38

These wells are involved in a schedule B lease, with calculations on a per well per day basis, these wells have not produced at a 50 BOPD or 5000 MCFPD, so they will pay at a 12.5% royalty.

Attached is a map displays the federal leases and well locations in Section 22 & 23 -T19S-R31E.

Oil & Gas metering:

The central tank battery is located on the shared pad for the Aquila 22 Fed Com 1H and Aquila 22 Fed 2H located in NENE, Sec. 22-T19S-R31E. The production from the Aquila 22 Fed Com 1H, Aquila 22 Fed Com 4H, and the Antares 23 Fed Com 1H will each have their own designated three phase separator with Coriolis to meter the oil, flow meter to meter the water, and gas allocation meter to meter the gas. The Antares 23 Fed 2H & Aquila 22 Fed 2H will flow through their own respective, individual production trains. Each well will utilize a production separator and heater/treater with individual oil and gas measurement meters. VRU gas will be comingled and allocated back to each well utilizing a percentage of each wells monthly oil production.

The Aquila 22 Federal Battery will have four oil tanks that all five wells will utilize, and they have a common DCP CDP #13135416 ^(not the FMP) which is located on the northeast corner of the facility. The oil, gas, and water volumes from all wells the Antares 23 Fed 2H, Aquila 22 Fed 2H, Aquila 22 Fed Com 1H, Aquila 22 Fed Com 4H, and the Antares 23 Fed Com 1H will be determined using individual three-phase separator measurements.

The Antares 23 Fed 2H production flows to a three phase test separator, where after separation gas is routed to the gas test meter #677-49-106, then to the DCP CDP #1315416 located on location. Produced water and oil are separated, the oil is then metered with a Coriolis meter (Number will be provided upon receipt) and water is metered using a turbine meter. The oil then flows into a test or production heater where it is combined with the other wells oil then into the oil production line and flows to one of the 500 bbl tanks. The water from this well flows to the 500 bbl. produced water tank, along with the water from the other wells.

The Aquila 22 Fed 2H production flows to a three phase test separator, where after separation gas is routed to the gas test meter (Number will be provided upon receipt), then to the DCP CDP #1315416 located on location. Produced water and oil are separated, the oil is then metered with a Motion Coriolis meter (Number will be provided upon receipt) and water is metered using a turbine meter. The oil then flows into a test or production heater where it is combined with the other wells

oil then into the oil production line and flows to one of the 500 bbl tanks. The water from this well flows to the 500 bbl. produced water tank, along with the water from the other wells.

Aquila 22 Fed Com 1H production flows to a designated three-phase separator, where after separation gas is routed to the gas allocation meter #677-49-106, combines with gas from the heater\treater, the Aquilla 22 Fed Com 4H gas allocation meter and the Antares 23 Fed Com 1H gas allocation meter then flows to the designated FMP #(will be provided upon receipt) and subsequently sold to DCP #13135416. Produced water and oil are separated, the oil is then metered with a Coriolis meter S/N 147932026. Flows into the heater\treater, then into an oil production line where it is combined with the other wells oil and flows to one of the 500 bbl. The water is metered using a turbine meter, flows to the 500 bbl. produced water tank, along with the water from the other wells.

Aquila 22 Fed Com 4H production flows to a designated three-phase separator, where after separation gas is routed to the gas allocation meter #677-49-091, combines with gas from the heater\treater, the Aquilla 22 Fed Com 1H gas allocation meter and the Antares 23 Fed Com 1H gas allocation meter then flows to the designated FMP #(will be provided upon receipt) and subsequently sold to DCP #13135416. Produced water and oil are separated, the oil is then metered with a Coriolis meter S/N 14371123. Flows into the heater\treater, then into an oil production line where it is combined with the other wells oil and flows to one of the 500 bbl. The water is metered using a turbine meter, flows to the 500 bbl. produced water tank, along with the water from the other wells.

Antares 23 Fed Com 1H production flows to a designated three-phase separator, where after separation gas is routed to the gas allocation meter #677-49-114, combines with gas from the heater\treater, the Aquilla 22 Fed Com 1H gas allocation meter and the Aquila 22 Fed Com 4H gas allocation meter then flows to the designated FMP #(will be provided upon receipt) and subsequently sold to DCP #13135416. Produced water and oil are separated, the oil is then metered with a Coriolis meter S/N 14399600. Flows into the heater\treater, then into an oil production line where it is combined with the other wells oil and flows to one of the 500 bbl. The water is metered using a turbine meter, flows to the 500 bbl. produced water tank, along with the water from the other wells.

Royalties paid for	OIL	GAS
Aquila 22 Fed 2H	Off of 3Ph	FMP: (off 3Ph) plus allocated VRU & HT
Antares 23 Fed 2H	Off of 3Ph	FMP: (off 3Ph) plus allocated VRU & HT
Antares 23 Fed Com 1	Off of 3Ph	FMP: (off 3Ph) plus allocated VRU & HT
Aquila 22 Fed Com 1H	Off of 3Ph	FMP: (off 3Ph) plus allocated VRU & HT
Aquila 22 Fed Com 4	Off of 3Ph	FMP: (off 3Ph) plus allocated VRU & HT

Devon will continue to operate and maintain the Coriolis Meters per BLM applicable regulations, notwithstanding further guidance from the local BLM in regard to proving the Coriolis Meters to meet applicable BLM standards. These meters will be calibrated on a regular basis per API, NMOCD, and BLM specifications. The BLM & OCD will be notified of any future changes in the facilities.

Process and Flow Descriptions:

The flow of produced fluids is shown in detail on the enclosed facility diagram, along with a description of each vessel and map which shows the lease boundaries, communization agreement boundaries, and location of wells, facility, and gas sales meter. The proposed commingling is appropriate based on the BLM's guidance in IM 2013-152. The proposed commingling will maximize the ultimate recovery of oil and/or gas from the federal leases and will reduce environmental impacts by minimizing surface disturbance and emissions. The proposed commingling will reduce operating expenses, as well as, not adversely affect federal royalty income, production accountability, or the distribution of royalty.

Devon Energy Production Company, LP understands the requested approval will not constitute the granting of any right-of-way or construction rights not granted by the lease instrument. ROW #72772, #121785, & 118281.

Working, royalty, and overriding interest owners have been notified of this proposal via certified mail (see attached).

Aquila 22 Fed Com#1H
API #30-015-40627 NMNM044594
NE/4 NE/4 S22 T19S R31E
990' FNL & 50' FEL
Eddy County, N.M.

Production System: OPEN

- 1) Oil sales by tank gauge to tank truck.
2) Seal requirements:

A. Production Phase: On all Tanks.

- (1) All valves 5 sealed closed.

Sales Phase: On Tank being hauled.

- (1) Valve 1 sealed closed. ☒ 1
(2) Valve 3 sealed closed. ☒ 2
(3) Valve 4 sealed closed. ☒ 3
(4) Valve 5 sealed closed. ☒ 4
(5) Misc. Valves: Plugged or otherwise inaccessible.
NOTE: Valve 2 is either a test or roll line
If there is a valve 2 it will be sealed closed. ☒ 5

Ledger for Site Diagram

- Valve #1: Production Line ☒ 1
Valve #2: Test or Roll line ☒ 2
Valve #3: Equalizer Line ☒ 3
Valve #4: Circ./Drain Line ☒ 4
Valve #5: Sales Line ☒ 5
Valve #6: BS&W Load Line ☒ 6

Buried Lines:

Firewall: ☒ Firewall

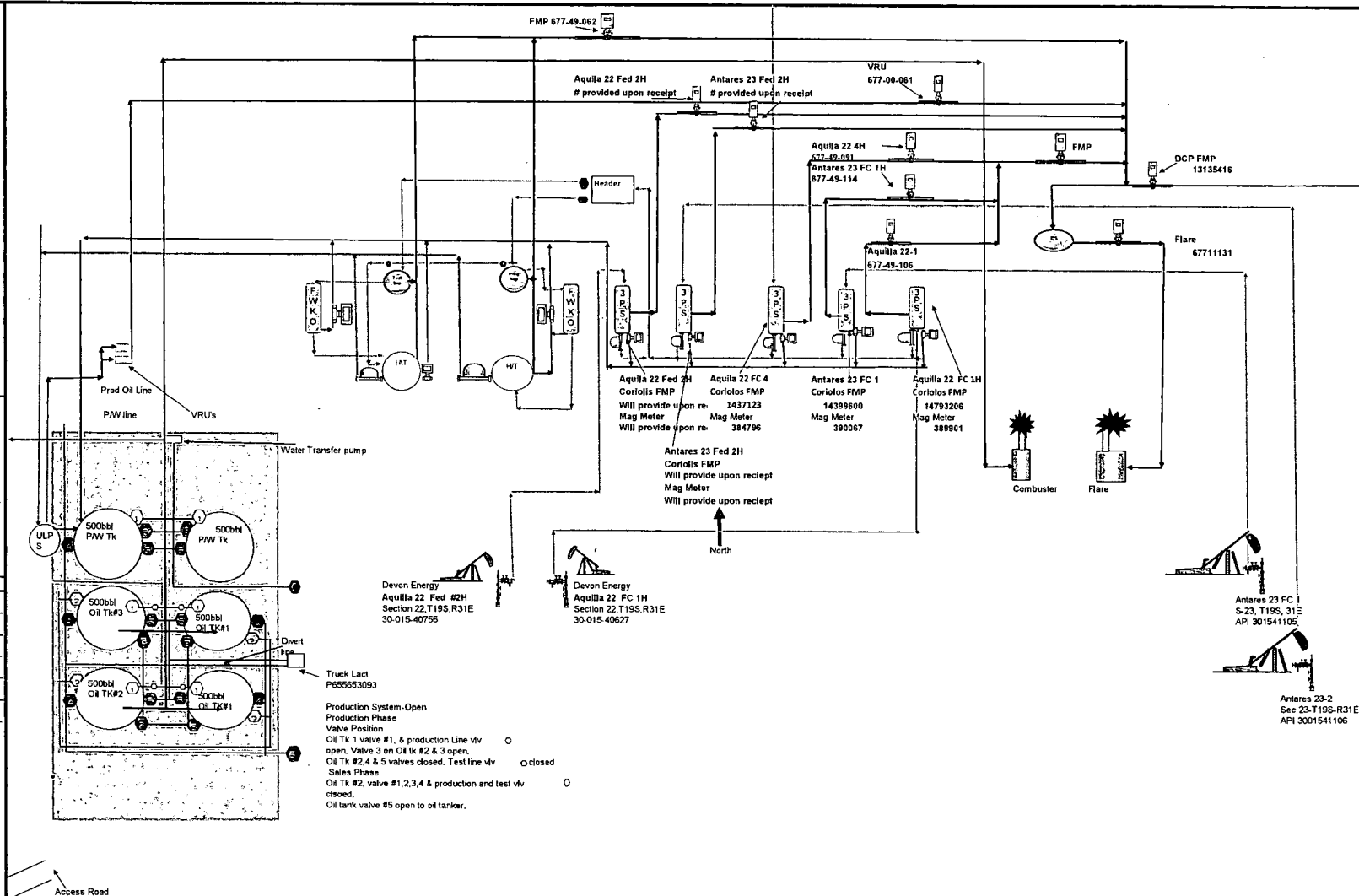
Wellhead: ☒ Wellhead

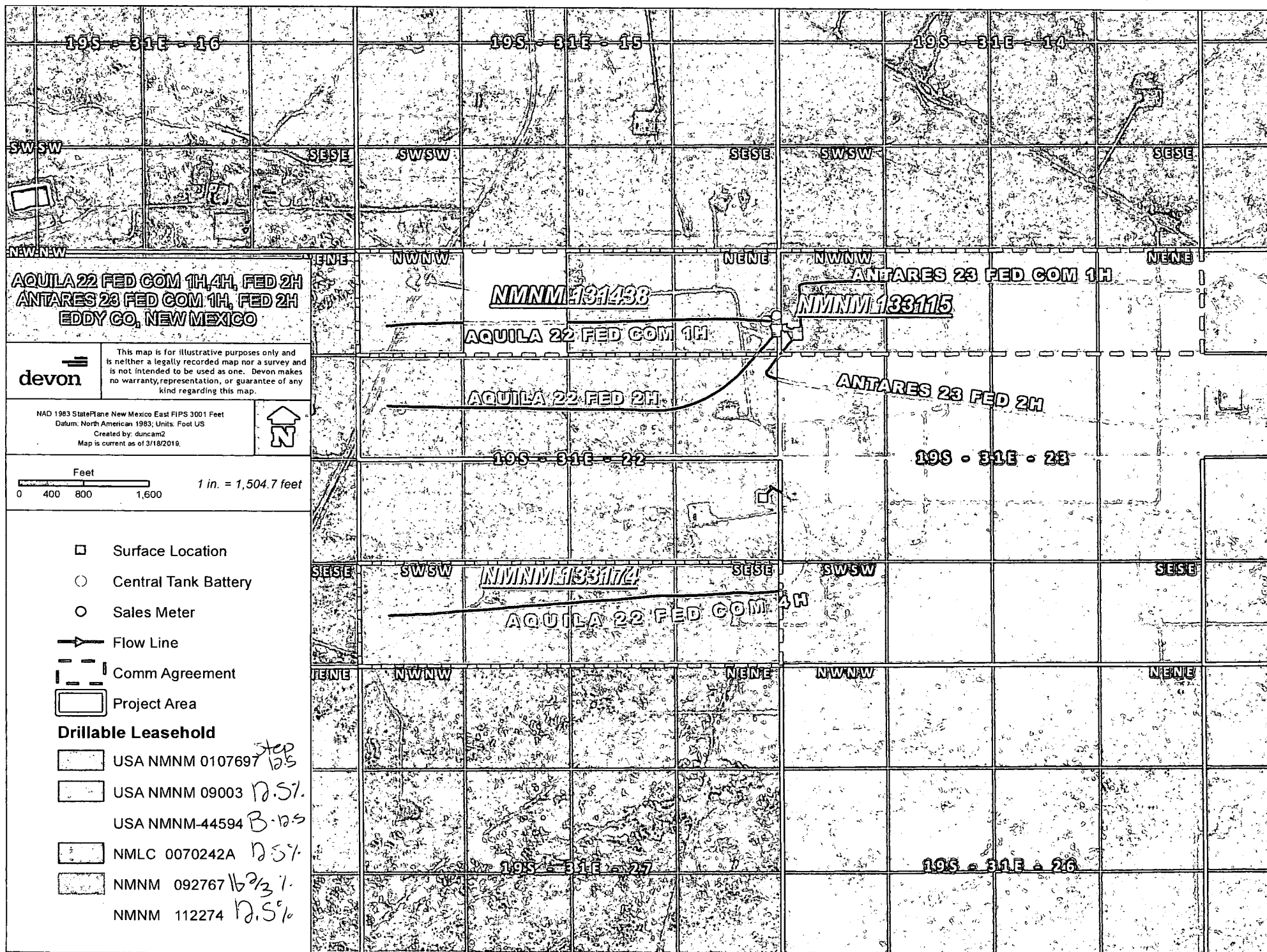
Stak-pak: ☒ Stak-pak

Production line: ☒ Production line

Water line: ☒ Water line

Gas Meter: ☒ Gas Meter





DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

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01 02-25-1920;041STAT0437;30USC226
Case Type 311111: O&G LSE NONCOMP PUB LAND
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres:
120.000

Serial Number
NMNM 0009003

						Serial Number: NMNM-- 0 009003	
Name & Address				Int Rel	% Interest		
TRAVCO RESOURCES LLC	PO BOX 1708	HOBBS	NM 88241	OPERATING RIGHTS	0.000000000		
ANGLE DON	510 W TEXAS AVE	ARTESIA	NM 88210	LESSEE	50.000000000		
ANGLE GLADYS	510 W TEXAS AVE	ARTESIA	NM 88210	LESSEE	50.000000000		
DEVON ENERGY PROD CO LP	333 W SHERIDAN AVE	OKLAHOMA CITY OK	731025010	OPERATING RIGHTS	0.000000000		
COG OPERATING LLC	600 W ILLINOIS AVE	MIDLAND	TX 797014882	OPERATING RIGHTS	0.000000000		
WATSON OIL & GAS LLC	1501 N GRIMES ST	HOBBS	NM 882403719	OPERATING RIGHTS	0.000000000		
FONAY OIL & GAS LLC	5333 N BAGGETT ST	HOBBS	NM 882429703	OPERATING RIGHTS	0.000000000		
MARBOB ENERGY CORP	PO BOX 227	ARTESIA	NM 882110227	OPERATING RIGHTS	0.000000000		

									Serial Number: NMNM-- 0 009003	
Mer	Twp	Rng	Sec	SType	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
23	0190S	0310E	013	ALIQ			W2SW;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	023	ALIQ			NENW;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands							Serial Number: NMNM-- 0 009003		
23	0190S	0310E	705	FF	01	SWNE,ASGN;	PECOS DISTRICT OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	713	FF		N2NE,SENE,SW,ASGN;	PECOS DISTRICT OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	714	FF		N2NE,ASGN;	PECOS DISTRICT OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	715	FF		NE,ASGN;	PECOS DISTRICT OFFICE	EDDY	BUREAU OF LAND MGMT

				Serial Number: NMNM-- 0 009003	
Act Date	Act Code	Action Txt	Action Remarks	Pending Off	
09/02/1952	387	CASE ESTABLISHED			
11/26/1952	888	DRAWING HELD			
04/01/1953	237	LEASE ISSUED			
04/01/1953	496	FUND CODE	05;145003		
04/01/1953	530	RLTY RATE - 12 1/2%			
04/01/1953	868	EFFECTIVE DATE			
01/01/1954	570	CASE SEGREGATED BY ASGN	INTO NMNM09003-A;		

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BUREAU OF LAND MANAGEMENT
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01 02-25-1920;041STAT0437;30USC181ETSEQ
Case Type 312011: O&G LSE COMP PUBLIC
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres:
520.000

Serial Number
NMNM 044594

						Serial Number: NMNM-- - 044594	
Name & Address						Int Rel	% Interest
SHACKELFORD OIL CO	3510 N A ST BLDG B # 100	MIDLAND	TX	797055428	OPERATING RIGHTS		0.000000000
WPX ENERGY PERMIAN LLC	3500 ONE WILLIAMS CTR	TULSA	OK	741720135	OPERATING RIGHTS		0.000000000
CHASE OIL CORP	PO BOX 1767	ARTESIA	NM	882111767	OPERATING RIGHTS		0.000000000
MARBOB ENERGY CORP	PO BOX 227	ARTESIA	NM	882110227	OPERATING RIGHTS		0.000000000
COG OPERATING LLC	600 W ILLINOIS AVE	MIDLAND	TX	797014882	OPERATING RIGHTS		0.000000000
TANDEM ENERGY CORP	2700 POST OAK BLVD STE 1000	HOUSTON	TX	770565778	OPERATING RIGHTS		0.000000000
DEVON ENERGY PROD CO LP	333 W SHERIDAN AVE	OKLAHOMA CITY	OK	731025010	LESSEE		100.000000000

										Serial Number: NMNM-- - 044594	
Mer	Twp	Rng	Sec	S	Type	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
23	0190S	0310E	022	ALIQ				E2,W2NW,SEnw,E2SW;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

Serial Number: NMNM-- - 044594

				Serial Number: NMNM-- - 044594	
Act Date	Act Code	Action Txt	Action Remarks	Pending Off	
02/23/1981	387	CASE ESTABLISHED	PARCEL #3		
02/24/1981	196	BID ACCEPTED			
04/29/1981	237	LEASE ISSUED			
05/01/1981	496	FUND CODE	05;145003		
05/01/1981	532	RLTY RATE 12.5-25% SCH B			
05/01/1981	868	EFFECTIVE DATE			
04/05/1982	111	RENTAL RECEIVED	\$1040.00;1YR/82-83		
03/04/1983	111	RENTAL RECEIVED	\$1040.00;1YR/83-84		
03/11/1983	140	ASGN FILED	COQUINA/SANTA FE ENE		
05/05/1983	139	ASGN APPROVED	EFF 04/01/83;		
04/16/1984	111	RENTAL RECEIVED	\$0;84-85		
04/03/1985	932	TRF OPER RGTS FILED			
04/08/1985	111	RENTAL RECEIVED	\$0;85-86		
03/26/1986	650	HELD BY PROD - ACTUAL			

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DEPARTMENT OF THE INTERIOR
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CASE RECORDATION
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01 02-25-1920;041STAT0437;30USC226

Case Type 311111: O&G LSE NONCOMP PUB LAND

Commodity 459: OIL & GAS

Case Disposition: AUTHORIZED

Total Acres:
40.000

Serial Number
NMLC 0070242A

					Serial Number: NMLC-- 0 070242A	
Name & Address					Int Rel	% Interest
MARBOB ENERGY CORP	PO BOX 227	ARTESIA	NM	882110227	OPERATING RIGHTS	0.000000000
GARRETT JERRY	3801 BEDFORD	MIDLAND	TX	79703	OPERATING RIGHTS	0.000000000
KEFFLER DONNA	2312 DENGAR	MIDLAND	TX	79705	OPERATING RIGHTS	0.000000000
MACK ENERGY CORP	PO BOX 960	ARTESIA	NM	88211	OPERATING RIGHTS	0.000000000
KEFFLER JOHN	2312 DENGAR	MIDLAND	TX	79705	OPERATING RIGHTS	0.000000000
LEDBETTER RODNEY	1708 NORTHRUP	MIDLAND	TX	79705	OPERATING RIGHTS	0.000000000
CONOCOPHILLIPS CO	PO BOX 7500	BARTLESVILLE	OK	740057500	LESSEE	50.000000000
COG OPERATING LLC	600 W ILLINOIS AVE	MIDLAND	TX	797014882	OPERATING RIGHTS	0.000000000
TANDEM ENERGY CORP	2700 POST OAK BLVD STE 1000	HOUSTON	TX	770565778	OPERATING RIGHTS	0.000000000
MACK C CHASE TRUSTEE	PO BOX 693	ARTESIA	NM	88210	OPERATING RIGHTS	0.000000000
LYNX PETRO CONSULTANTS INC	PO BOX 1708	HOBBS	NM	882411708	LESSEE	50.000000000
AARON JO ANN	PO BOX 4572	MIDLAND	TX	79704	OPERATING RIGHTS	0.000000000

							Serial Number: NMLC-- 0 070242A	
Mer	Twp	Rng	Sec	SType	Nr	Suff Subdivision	District/ Field Office	County
23	0190S	0310E	022	ALIQ		NENW;	CARLSBAD FIELD OFFICE	EDDY
							Mgmt Agency	
							BUREAU OF LAND MGMT	

Relinquished/Withdrawn Lands

Serial Number: NMLC-- 0 070242A

				Serial Number: NMLC-- 0 070242A	
Act Date	Act Code	Action Txt	Action Remarks	Pending Off	
04/30/1951	387	CASE ESTABLISHED			
05/01/1951	496	FUND CODE	05;145003		
05/01/1951	530	RLTY RATE - 12 1/2%			
05/01/1951	868	EFFECTIVE DATE			
04/01/1961	898	ASGN EFFECTIVE			
04/27/1961	553	CASE CREATED BY ASGN	OUT OF NMLC070242;		
05/03/1963	510	KMA CLASSIFIED			
05/03/1963	650	HELD BY PROD - ACTUAL	/1/		

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01 12-22-1987;101STAT1330;30USC181 ET SEQ
Case Type 312021: O&G LSE COMP PD -1987
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres:
120.000

Serial Number
NMNM 092767

						Serial Number: NMNM-- - 092767	
Name & Address						Int Rel	% Interest
TRAVCO RESOURCES LLC	PO BOX 1708	HOBBS	NM	88241	OPERATING RIGHTS		0.000000000
DEVON ENERGY PROD CO LP	333 W SHERIDAN AVE	OKLAHOMA CITY OK		731025010	OPERATING RIGHTS		0.000000000
LYNX PETRO CONSULTANTS INC	PO BOX 1708	HOBBS	NM	882411708	LESSEE		100.000000000
WATSON OIL & GAS LLC	1501 N GRIMES ST	HOBBS	NM	882403719	OPERATING RIGHTS		0.000000000
FONAY OIL & GAS LLC	5333 N BAGGETT ST	HOBBS	NM	882429703	OPERATING RIGHTS		0.000000000

									Serial Number: NMNM-- - 092767		
Mer	Twp	Rng	Sec	S	Type	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
23	0190S	0310E	022	ALIQ				W2SW;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	028	ALIQ				SENE;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

Serial Number: NMNM-- - 092767

				Serial Number: NMNM-- - 092767	
Act Date	Act Code	Action Txt	Action Remarks	Pending Off	
01/18/1994	387	CASE ESTABLISHED	9401079		
01/19/1994	191	SALE HELD			
01/19/1994	267	BID RECEIVED	\$37800.00;		
01/19/1994	392	MONIES RECEIVED	\$240.00;		
02/02/1994	392	MONIES RECEIVED	\$37560.00;		
02/08/1994	237	LEASE ISSUED			
02/08/1994	974	AUTOMATED RECORD VERIF	LO/MV		
02/24/1994	111	RENTAL RECEIVED	\$180.00;21/MULTIPLE		
03/01/1994	496	FUND CODE	05;145003		
03/01/1994	868	EFFECTIVE DATE			
03/11/1994	600	RECORDS NOTED			
03/28/1994	963	CASE MICROFILMED/SCANNED			
09/12/1994	974	AUTOMATED RECORD VERIF	GSB		
03/01/1995	531	RLTY RATE - 16 2/3%	/A/		
06/29/1995	791	TERMINAT'N NOTICE ISSUED	CLASS II		

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
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Serial Number: NMNM-- 0 107697

Mer	Twp	Rng	Sec	SType	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
23	0190S	0310E	023	ALIQ			E2,S2NW,SW;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	024	ALIQ			W2NE,W2;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	025	ALL			ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0310E	026	ALL			ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0190S	0320E	030	LOTS			1,2;	CARLSBAD FIELD OFFICE	LEA	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

Serial Number: NMNM-- 0 107697

Serial Number: NMNM-- 0 107697

Act Date	Act Code	Action Txt	Action Remarks	Pending Off
12/31/1939	387	CASE ESTABLISHED		
01/01/1940	496	FUND CODE	05;145003	
01/01/1940	533	RLTY STEP 12.5-32%	/A/	
01/01/1940	868	EFFECTIVE DATE		
01/04/1946	102	NOTICE SENT-PROD STATUS		
01/04/1946	246	LEASE COMMITTED TO CA	LUSK UNIT	
01/04/1946	660	MEMO OF 1ST PROD-ALLOC		
05/17/1960	102	NOTICE SENT-PROD STATUS		
05/17/1960	209	CASE CREATED BY SEGR	OUT OF NMLC029358;	
06/07/1960	658	MEMO OF 1ST PROD-ACTUAL		
11/20/1962	246	LEASE COMMITTED TO CA	SW-117 TERM	
12/12/1962	246	LEASE COMMITTED TO CA	SW-71 TERM	
10/21/1963	500	GEOGRAPHIC NAME	WEST LUSK FLD;	
10/21/1963	510	KMA CLASSIFIED		
10/21/1963	650	HELD BY PROD - ACTUAL	/1/	
10/21/1963	658	MEMO OF 1ST PROD-ACTUAL	/1/JONES-FEDERAL #1;	
09/02/1964	246	LEASE COMMITTED TO CA	SW-271	
12/01/1964	512	KMA EXPANDED		
09/15/1967	522	CA TERMINATED	SW-321	
03/31/1968	522	CA TERMINATED	SW-117	
03/31/1972	522	CA TERMINATED	SW-71	
10/24/1979	940	NAME CHANGE RECOGNIZED	CONTL OIL/CONOCO INC	
06/17/1981	932	TRF OPER RGTS FILED	(1)	
06/17/1981	932	TRF OPER RGTS FILED	(2)	
09/16/1981	932	TRF OPER RGTS FILED		
02/01/1982	246	LEASE COMMITTED TO CA	NMNM94489;	
02/01/1982	660	MEMO OF 1ST PROD-ALLOC	/2/NMNM94489;	

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

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01 12-22-1987;101STAT1330;30USC181 ET SEQ
Case Type 312021: O&G LSE COMP PD -1987
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres:
40.000

Serial Number
NMNM 112274

Serial Number: NMNM-- 112274

Name & Address	Int Rel	% Interest
COG OPERATING LLC 600 W ILLINOIS AVE MIDLAND TX 797014882	LESSEE	95.000000000
CONCHO OIL & GAS LLC 600 W ILLINOIS AVE MIDLAND TX 797014882	LESSEE	5.000000000

Serial Number: NMNM-- 112274

Mer Twp Rng	Sec SType	Nr	Suff Subdivision	District/ Field Office	County	Mgmt Agency
23 0190S 0310E	023 ALIQ		NWNW;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

Serial Number: NMNM-- 112274

Serial Number: NMNM-- 112274

Act Date	Act Code	Action Txt	Action Remarks	Pending Off
07/20/2004	299	PROTEST FILED		
07/20/2004	387	CASE ESTABLISHED	200407-034;	
07/21/2004	191	SALE HELD		
07/21/2004	267	BID RECEIVED	\$30000.00;	
09/23/2004	237	LEASE ISSUED		
09/23/2004	298	PROTEST DISMISSED		
09/23/2004	974	AUTOMATED RECORD VERIF	GSB	
10/01/2004	496	FUND CODE	05;145003	
10/01/2004	530	RLTY RATE - 12 1/2%		
10/01/2004	868	EFFECTIVE DATE		
11/23/2004	963	CASE MICROFILMED/SCANNED		
04/18/2011	140	ASGN FILED	MARBOB EN/COG OPERA;1	
08/11/2011	139	ASGN APPROVED	EFF 05/01/2011;	
08/11/2011	974	AUTOMATED RECORD VERIF	JS	
12/01/2013	246	LEASE COMMITTED TO CA	NMNM133115	
12/24/2013	651	HELD BY PROD - ALLOCATED	/1/	
12/24/2013	660	MEMO OF 1ST PROD-ALLOC	/1/NMNM133115;	
08/11/2014	643	PRODUCTION DETERMINATION	/1/	

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

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01 02-25-1920;041STAT0437;30USC181
Case Type 318310: O&G COMMUNITIZATION AGRMT
Commodity 410: NATURAL GAS
Case Disposition: AUTHORIZED

Total Acres:
160.000

Serial Number
NMNM 131438

Serial Number: NMNM-- 131438

Name & Address					Int Rel	% Interest
BLM CARLSBAD FO	620 E GREENE ST	CARLSBAD	NM	88220	OFFICE OF RECORD	0.000000000
DEVON ENERGY PROD CO LP	333 W SHERIDAN AVE	OKLAHOMA CITY	OK	731025010	OPERATOR	100.000000000

Serial Number: NMNM-- 131438

Mer	Twp	Rng	Sec	SType	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
23	0190S	0310E	022	ALIQ			N2N2;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

Serial Number: NMNM-- 131438

Serial Number: NMNM-- 131438

Act Date	Act Code	Action Txt	Action Remarks	Pending Off
05/01/2013	387	CASE ESTABLISHED		
05/01/2013	516	FORMATION	BONE SPRING;	
05/01/2013	526	ACRES-FED INT 100%	160; 100%	
05/01/2013	868	EFFECTIVE DATE	30-15-40627;	
05/03/2013	643	PRODUCTION DETERMINATION		
05/03/2013	654	AGRMT PRODUCING	/1/	
10/25/2013	658	MEMO OF 1ST PROD-ACTUAL	/1/	
11/01/2013	334	AGRMT APPROVED	/1/	

Serial Number: NMNM-- 131438

Line Number	Remark Text				
0001	RECAPITULATION EFFECTIVE 05/01/2013				
0002	TR#	LEASE SERIAL#	AC COMMITTED	%INTEREST	
0003	1	NM044594	80.00	50.00	B-12.5%
0004	2	LC070242A	40.00	25.00	12.5%
0005	3	NM044594	40.00	25.00	B-12.5%
0006	TOTAL		160.00	100.00	

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

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01 02-25-1920;041STAT0437;30USC181

Case Type 318310: O&G COMMUNITIZATION AGRMT

Commodity 459: OIL & GAS

Case Disposition: AUTHORIZED

Total Acres:
160.000

Serial Number

NMNM 133115

Serial Number: NMNM-- 133115

Name & Address	Int Rel	% Interest
BLM CARLSBAD FO 620 E GREENE ST CARLSBAD NM 88220	OFFICE OF RECORD	0.000000000
DEVON ENERGY PROD CO LP 333 W SHERIDAN AVE OKLAHOMA CITY OK 731025010	OPERATOR	100.000000000

Serial Number: NMNM-- 133115

Mer	Twp	Rng	Sec	S	Type	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
23	0190S	0310E	023		ALIQ			N2N2;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

Serial Number: NMNM-- 133115

Serial Number: NMNM-- 133115

Act Date	Act Code	Action Txt	Action Remarks	Pending Off
12/01/2013	387	CASE ESTABLISHED		
12/01/2013	516	FORMATION	BONE SPRING	
12/01/2013	526	ACRES-FED INT 100%	160; 100%	
12/01/2013	868	EFFECTIVE DATE	3001541105	
12/24/2013	654	AGRMT PRODUCING	/1/	
08/11/2014	643	PRODUCTION DETERMINATION	/1/	
08/11/2014	658	MEMO OF 1ST PROD-ACTUAL	/1/	

Serial Number: NMNM-- 133115

Line Number	Remark Text
0001	RECAPITULATION EFFECTIVE 12/01/2013
0002	TR# LEASE# AC COMMITTED %INT
0003	1 NMNM0107697 80 50
0004	2 NMNM09003 40 25
0005	3 NMNM112274 40 25
0006	TOTAL 160 100

Step 12.5%
12.5%
12.5%

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

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01 02-25-1920;041STAT0437;30USC181
Case Type 318310: O&G COMMUNITIZATION AGRMT
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres:
160.000

Serial Number
NMNM 133174

Serial Number: NMNM-- 133174

Name & Address	Int Rel	% Interest
BLM CARLSBAD FO 620 E GREENE ST CARLSBAD NM 88220	OFFICE OF RECORD	0.000000000
DEVON ENERGY CORP 333 W SHERIDAN AVE OKLAHOMA CITY OK 731025010	OPERATOR	100.000000000

Serial Number: NMNM-- 133174

Mer Twp Rng	Sec	SType	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
23	0190S	0310E	022	ALIQ	S2S2;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Relinquished/Withdrawn Lands

Serial Number: NMNM-- 133174

Serial Number: NMNM-- 133174

Act Date	Act Code	Action Txt	Action Remarks	Pending Off
09/01/2013	387	CASE ESTABLISHED		
09/01/2013	516	FORMATION	BONE SPRING	
09/01/2013	526	ACRES-FED INT 100%	160; 100%	
09/01/2013	868	EFFECTIVE DATE	3001541159	
10/09/2013	654	AGRMT PRODUCING	/1/	
10/09/2013	658	MEMO OF 1ST PROD-ACTUAL	/1/MEMO8/25/14	
08/25/2014	643	PRODUCTION DETERMINATION	/1/	

Serial Number: NMNM-- 133174

Line Number	Remark Text
0001	RECAPITULATION EFFECTIVE 9/1/13
0002	TR# AC COMMITTED % INT
0003	1 NMNM044594 120 75
0004	2 NMNM092767 40 25
0005	TOTAL 160 100

B - 12.5%
16 2/3

Lease	Years	Date	Sum of Oil Prod	Sum of Gas Prod	Days in Month	Count of Wells	Days in Month * Count of Wells	Bbls/Well/Day	MCF/Well/Day
44594	2018	Jan	355	1,137	31	6	186	1.91	6.11
		Feb	1,757	3,458	28	6	168	10.46	20.58
		Mar	1,816	6,341	31	6	186	9.76	34.09
		Apr	1,809	6,054	30	6	180	10.05	33.63
		May	1,323	5,159	31	6	186	7.11	27.74
		Jun	407	1,909	30	6	180	2.26	10.61
		Jul	1,386	4,895	31	6	186	7.45	26.32
		Aug	1,471	5,108	31	6	186	7.91	27.46
		Sep	1,156	4,760	30	6	180	6.42	26.44
		Oct	1,204	4,792	31	6	186	6.47	25.76
		Nov	1,277	4,709	30	6	180	7.09	26.16
		Dec	1,671	4,028	31	6	186	8.98	21.66
	2019	Jan	1,328	3,043	30	6	180	7.38	16.91
		Feb	1,773	2,906	29	6	174	10.19	16.70
107697	2018	Jan	4,926	12,530	31	8	248	19.86	50.52
		Feb	5,976	14,679	28	8	224	26.68	65.53
		Mar	3,590	7,692	31	8	248	14.48	31.02
		Apr	4,646	8,810	30	8	240	19.36	36.71
		May	6,275	14,791	31	8	248	25.30	59.64
		Jun	6,171	14,933	30	8	240	25.71	62.22
		Jul	5,345	13,069	31	8	248	21.55	52.70
		Aug	7,126	17,983	31	8	248	28.74	72.51
		Sep	6,409	18,011	30	8	240	26.70	75.05
		Oct	5,925	17,674	31	8	248	23.89	71.27
		Nov	5,069	11,834	30	8	240	21.12	49.31
		Dec	5,440	14,362	31	8	248	21.94	57.91
	2019	Jan	6,270	16,471	30	8	240	26.13	68.63
		Feb	5,058	13,587	29	8	232	21.80	58.56

**Bureau of Land Management
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972**

**Conditions of Approval
Off-Lease Storage and CA/Lease/Pool Commingling of
Measurement and Sales of Vapor Gas**

**Devon Energy Production Com
Aquila 22 Fed Com 1H, 4H; Aquila 22 Fed 2H
Antares 23 Fed Com 1H; Antares 23 Fed 2H
Leases: NMNM09003, NMNM44594, NMLC070242A, NMNM092767,
NMNM0107697, NMNM112274
CAs: NMNM131438, NMNM133115, NMNM133174**

Approval of comingling of measurement and sales of production is subject to the following conditions of approval:

1. This approval is subject to like approval by the New Mexico Oil Conservation Division.
2. This agency shall be notified of any spill or discharge as required by NTL-3A.
3. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
4. Off-lease measurement, storage and sales from sources in this package are approved. This does not constitute a right-of-way approval for any off-lease operations. Within 30 days, an application for right-of-way approval shall be submitted to the CFO realty department, if not already done.
5. All oil and gas subject to royalty shall be measured and reported to ONRR as described in this package, unless otherwise approved by an Authorized Officer. Aside from exceptions listed in 43 CFR 3179, all flared/vented gas volumes are royalty bearing and shall be reported on OGOR "B" as disposition code "33" for royalty-bearing flared gas and disposition code 63 for royalty-bearing vented gas.
6. This agency shall be notified of any change in sales method or location of the sales point.
7. Additional wells require a new and updated comingling application.
8. Submit all meter numbers upon installation via 3160-5 Sundry Notice Subsequent Report. Include an updated facility diagram with those meter numbers.
9. This approval does not authorize bypasses around any allocation meter or metering separator, this is to include the use of headers to divert production to production equipment other than the approved measurement points.
10. VRU gas will be gathered and measured then allocated back to each well based on oil production as per attached write-up. A VRU is also approved with this application. Gas vapors normally would be flared.
11. Approval for combining production from various sources, as well as off-lease operations, is a privilege which is granted to lessees for the purpose of aiding conservation and extending the

economic life of leases. Applicants should be cognizant that failure to operate in accordance with the provisions outlined in the Authorized Officer's conditions of approval and/or subsequent stipulations or modifications will subject such approval to revocations.

Lease NMNM44594 (Step-scale @ 12.5% RR):

Aquila 22 Fed 2H 3001540755 Lusk; Bone Spring

Lease NMNM0107697 (Step-scale @ 12.5% RR):

Antares 23 Fed 2H 3001541106 Lusk; Bone Spring

CA NMNM131438 (100% Fed):

75% NMNM44594 (Step-scale @ 12.5% RR)

25% NMLC070242A (12.5% RR)

Aquila 22 Fed Com 1H 3001540627 Lusk; Bone Spring

CA NMNM133115 (100% Fed):

50% NMNMNMNM0107697 (Step-scale @ 12.5% RR)

25% NMNM09003 (12.5% RR)

25% NMNM112274 (12.5% RR)

Antares 23 Fed Com 1H 3001541105 Lusk; Bone Spring

CA NMNM133174 (100% Fed):

75% NMNM44594 (Step-scale @ 12.5% RR)

25% NMLC092767 (16.67% RR)

Aquila 22 Fed Com 4H 3001541159 Lusk; Bone Spring

10/29/2019