

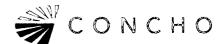
COG OPERATING LLC BOONE 16 ST COM 3H Section 9,16 & 21-21S-33E Lea County, New Mexico



BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING SEPTEMBER 14, 2017

CASE NO. 15820





DISTRICT II 811 S. FIRST ST., ARTESIA, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

State of New Mexico DISTRICT I

1825 N. FRENCE DR., HOBBS, NOT 88240

Energy, Minerals & Natural Resources Department

Phone: (876) 383-8161 Page (876) 383-0720

ONLY CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PAGE (876) 383-0720 OIL

CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Pax: (506) 334-6170

Santa Fe, New Mexico 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FR. NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

API Number	WELL L	Pool Code	AND	ACREAGE DEDICATION PLAT Pool Name			Pool Name		
Property Code		Property Name					Well Number		
	BOONE 16 STATE COM					3H			
OGRID No.	COG OPE					;		Elevation 375	
•			Surfa	ce Loca	tion				
or lot No Section	Pownship Range	Lot Idn	Foot fr	om the	North /Sc	uth line	Feet from the	Rest /West line	Cour

i	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	С	21	21-S	33-E		350	NORTH	2120	WEST	LEA

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
	С	9	21-S	33-E		200	NORTH	1980	WEST	LEA
ĺ	Dedicated Acres Joint or Infill Consolidation Code			Code Or	der No.					

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

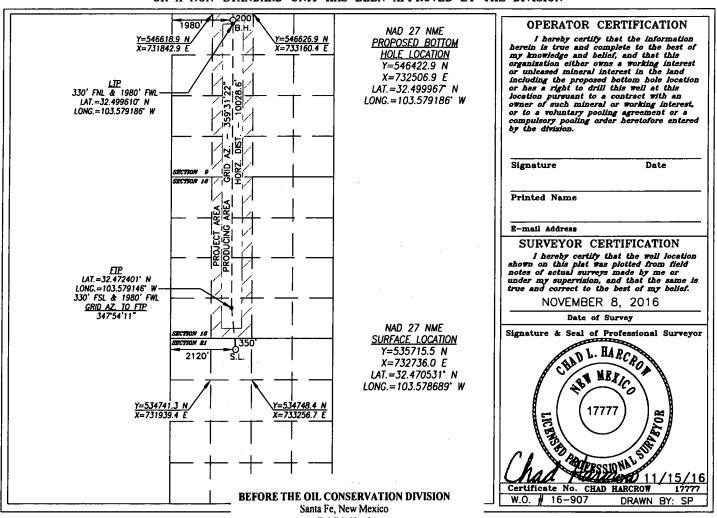


Exhibit No. 1 Submitted by: COG OPERATING, LLC Hearing Date: September 14, 2017

District J 1625 M. French Dr., Hobbs. NM 88240 Phone; (573) 393-0101 Fax: (575) 393-0720 District J 831 S. Frest St. Artesia, NM 88210 Phone; (575) 748-1283 Fax: (575) 748-9720 District JJ 1000 Rio Brazzos Rd., Aztec, NM 87410 Phone; (505) 334-6178 Fax: (505) 334-6170 District JY 1220 S. St Francis Dr., Serca Fe, NM 87805 Phone; (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oll Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

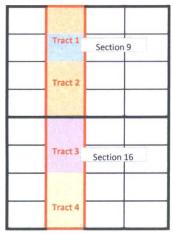
Form C-102 August 1, 2011

Permit 230677

		* *			ELL LOCAT	TON AND	ACREAGE			<u> </u>		
1. API NL		25-43553	2. Pool 0	ode 98033				3. Podl-Nan		0 92133280:WOLFC	AMP	
4. Proper	ty Coda 3974		5. Prope	rty Name BOONE 16	6 STATE COM	ı		6. Weil No.	003H	· · · · · · · · · · · · · · · · · · ·		
7. OGRIE	No. 2291	37	8. Opera	tor Mame COG OPE	RATING LLC			9. Elevation	3753			
						10. Su	riface Locatio	an				
UL - Lot	С	Section 21	Township 21S	Range	33E	ot lidn C	Feet From	350	N/S Line N	Feet From 2120	E/W Line W	County
					11. Botton	n Hole Loca	ation If Oiffere	ent From S	Surface			
JL - Lot	С	Section 9	Township 219	Range	33E Lo	t kdn C	Feet From 2	00 N	VS Line .N	Feet From 1980	E/W Line W	County
12. Đeđit	sted Ac 320.0		•	13. Joint o	or Infili		14. Consolida	ation Code			15. Ordar No.	
NO AL	LOWA	BLE WILL BE	ASSIGNED TO THE	S COMPLET	TION UNTIL À		STS HAVE BE	EN CONS	OLIDATED	OR A NON-STANDA	RD UNIT HAS BE	EN APPROVED B
					owns a working	interest or uni	leased mineral in: I with an owner o	erein is true terast in the i	end complete t land including ti	RTIFICATION to the best of my knowledge to proposed bottom hale interest, or to a voluntary p	ocalien(s) or has a rig	ht lo chill this well at thi
				1	E-Signed By:		e Kuykendall				•	
					Tifle:		luction Reporti	ng Mgr				
				Ļ	Date:	1/11:	/2017					
				,			cation ahown on the best of my b	this plat was		RTIFICATION Id notes of actual surveys	i made by me.or unde	r my cupervision, and l
					Screeyed By:	Cha	Harcrow					
					Surveyed By: Date of Survey:		d Harcrow 2016		• • • •			

COG - Boone 16 State Com 3H

E½W½ Section 9, Township 21 South, Range 33 East, N.M.P.M. E½W½ Section 16, Township 22 South, Range 33 East, N.M.P.M. Limited in depth to the Wolfcamp Formation



	Total	100.00000000
E.G.L. Resources		10.60000000
Meriwether Resources, Inc.		2.00000000
Schlagal Brothers		1.80000000
Chevron U.S.A., Inc.		1.80000000
Olive Petroleum, Inc.		1.80000000
Rubicon Oil & Gas II, LP		41.00000000
COG Operating LLC		41.00000000

	Total	100.0000000
E.G.L. Resources		33.0000000
Meriwether Resources, Inc.		2.0000000
Schlagal Brothers		5.0000000
Chevron U.S.A., Inc.		5.0000000
Olive Petroleum, Inc.		5.00000000
Rubicon Oil & Gas II, LP		25.0000000
COG Operating LLC		25.0000000

Tract 3: Section 16: E½NW¼				
COG Operating LLC	COG Operating LLC			
Rubicon Oil & Gas II LP		25.00000000%		
	Total	100.00000000%		

Rubicon Oil & Gas II LP	25.0000000009
COG Operating LLC	75.000000009

Record Title Owner Tract 1		
COG Operating LLC		100.00000000%
	Total	100.00000000%
Record Title Owner Tract 2		
COG Operating LLC		100.00000000%
	Total	100 0000000000

	100.00000000%
Total	100.00000000%
	Total

Record Title Owner Tract 4		
Rubicon Oil and Gas II, LP		100.00000000%
	Total	100.00000000%

Unit Work	ing Interes	t
COG Operating LLC		52.00000000%
Rubicon Oil & Gas II, LP		27.00000000%
E.G.L. Resources, Inc.		13.70000000%
Olive Petroleum, Inc.		2.10000000%
Chevron U.S.A., Inc.		2.10000000%
Schlagal Brothers		2.10000000%
Meriwether Resources, Inc.		1.00000000%
	Total	100.00000000%

Unmarketable Title Owners
Amarco Oil Corporation
Conoco Inc.
E. G. L. Resources, Inc.
Finwing Corporation
Lerwick 1, Ltd.
Logic, Inc.
Loro Corporation
L-T Partners
Manta Oil and Gas Corporation
Mitchell Energy Corporation
Newman Resources, LLC
Olwick Corporation
Petraitis Oil & Gas, Inc.
Printz II, LLC
Printz, Ltd.
S.E.S. Energy Ltd.
S.E.S. Oil & Gas, Inc.
Schlagal Brothers
Starck Family Oil & Gas, LLC
Starck Family, Ltd.
Traeder Limited

Uncommitted Working Interest Owners



May 4, 2017

Luke Bedrick, CPL Senior Landman COG Operating LLC One Concho Center 600 W. Illinois Avenue Midland, Texas 79701

Main: 432.683.7443 Direct: 432.686.3000 LBedrick@concho.com

Working Interest Owners - Attached Listing

Re: Well Proposal - Boone 16 State Com #3H

Section 9: E½W½ Section 16: E½W½

Township 21 South, Range 33 East, N.M.P.M.

SHL: 350' FNL & 2120" FWL, or a legal location in Unit C (Sec. 21) BHL: 200' FNL & 1980' FWL, or a legal location in Unit C (Sec. 9)

Lea County, New Mexico

Gentlemen:

COG Operating LLC (COG), as Operator, hereby proposes to drill the Boone 16 State Com #3H well as a horizontal well to a depth sufficient to adequately test the Wolfcamp formation to a TVD of approximately 11,795' and a MD of 21,600' ("Operation"). The surface location for this well is proposed at an off-lease legal location in Unit C of Sec. 21 with a bottom hole location at a legal location in Unit C of Sec. 9, Township 21 South, Range 33 East, N.M.P.M., Lea County, New Mexico. The total cost of the Operation is estimated to be \$11,773,606 and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE").

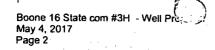
COG is proposing to drill this well under the terms of the AAPL Form 610-1989 Operating Agreement (Horizontal Mod.) The Operating Agreement covers the E½W½ of Section 9 and the E½W½ of Section 16, T21S-R33E, Lea County, New Mexico ("Contract Area") which is enclosed for your review and approval. It contains the following general provisions:

- 100% / 300% / 300% Non-consenting penalty
- \$7,000/\$700 Drilling and Producing rate
- COG named as Operator

If you do not wish to participate in the Operation, COG would like to acquire a Term Assignment of your leasehold for the following general terms:

- 3 year primary term
- Delivering a 80% NRI, proportionately reduced
- \$750 per net acre bonus consideration

The Term Assignment offer is subject to the approval of COG's management and verification of title.



If an agreement cannot be reached within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well if uncommitted at such time.

Sincerely,
COG Operating LLC

Luke Bedrick, CPL
Senior Landman
Northern Delaware Basin - East

LB:lr
Encl.

I/we hereby elect to participate in the Boone 16 State Com #3H.

I/we hereby elect not to participate in the Boone 16 State Com #3H.

Company Name:

Title:

By:

Date:

Working Interest Owners

Certified Mail 91 7199 9991 7036 0762 1820

Return Receipt Requested

Rubicon Oil & Gas II, LP 508 W. Wall, Suite 500 Midland, TX 79701

Certified Mail 91 7199 9991 7036 0762 1813

Return Receipt Requested

PBEX/E.G.L., et al 223 W. Wall Street, Suite 900 Midland, TX 79701

Certified Mail 91 7199 9991 7036 0762 1806

Return Receipt Requested

Olive Petroleum, Inc. 1004 N. Big Spring Street, #504 Midland, TX 79701

Certified Mail 91 7199 9991 7036 0762 1790

Return Receipt Requested

Chevron U.S.A. Inc. P. O. Box 730121 Dallas, TX 75373-0121

Certified Mail 91 7199 9991 7036 0762 1783

Return Receipt Requested

Schlagal Brothers 202 N. Eisenhower Midland, TX 79703

Certified Mail 91 7199 9991 7036 0762 1776

Return Receipt Requested

Meriwether Resources, Inc. 214 W. Texas Ave., Suite 1113 Midland, TX 79701

Certified Mail 91 7199 9991 7036 0762 1769

Return Receipt Requested

EOG Resources Inc. 5509 Champions Dr. Midland, TX 79703



WELL NAME:	BOONE 16 STATE COM #3H	PROSPECT NAME:	ZEUS 717049
SHL:	350' FNL and 2120' FWL (Sec. 21)	STATE & COUNTY:	New Mexico, Lea
BHL:	200' FNL and 1980' FWL (Sec. 9)	OBJECTIVE:	Drill and Complete
FORMATION:	Wolfcamp	DEPTH:	21,600
LEGAL:	Sec. 9 & 16, T21S-R33E	TVD:	11,795

INTANGIBLE COSTS		<u> Drig - Rig</u> <u>Release(D)</u>		Completion(C)		<u>Tenk Bity</u> <u>Constrcte(TB)</u>		Pmpq Equipment(PEQ)	TOTAL.
Title/Curative/Permit	201	11,000							11,000
Insurance	202	4,000							4,000
Damages/Right of Way Survey/Stake Location	203 204	5,000 6,000	303		351 352				5,000
Location/Pits/Road Expense	205	130,000	305	53,648	353	57,000	366		240,648
Driting / Completion Overhead	206	11,400				1		-	11,400
Turnkey Contract	207	0	307			-			0
Footage Contract	208	0	308						
Daywork Contract	209	641,000							841,000
Otrectional Oriting Services	210	252,000							262,000
Fust & Power	211	112,000	•	5,000	354		367		117,000
Water Bits	212 213	66,833	. 312 313	1,285,000			388 389		1,351,833
Mud & Chemicals	214	140,000	314	25,000			370		142,500
Orli Stem Test	215	0	315						0
Coring & Analysis	216	. 0							
Cement Surface	217	28,000							28,000
Cement Intermediate	218	40,000							40,000
Cement 2nd Intermediate/Production	219	80,000		· · · · · · · · · · · · · · · · · · ·		<u>'</u>			80,000
Cement Squeeze & Other (Kickoff Plug) Float Equipment & Centratizers	220 221	55,000 17,800					371		55,000
Casting Crows & Equipment	222	50,000	•						17,800 50,000
Fishing Tools & Service	223	0	323				372		0
Geologic/Engineering	224	0	324		355		373		
Contract Labor	225	5,500	325	8,200	356	54,000	374		67,700
Company Supervision	226	68,400	328	30,000	357		375		98,400
Contract Supervision	227	111,000	327	85,000	358	,	378	5,000	201,000
Testing Cesting/Tubing Mud Logging Unit	228 229	20,000	328 329	10,000		1 1	377		30,000
Logging Unit	230	38,000	. J.C.				378		0
Perforating/Wireline Services	231	4,000	331	370,000			379		374,000
Stimutation/Treating			332	3,597,000			380		3,597,000
Completion Unit			333	138,000			381	7,000	145,000
Swattbing Unit			334				382		0
Rentals-Surface	235	190,000	335	315,000	359		383	6,000	511,000
Rentals-Subsurface	238	140,000	338	75,000		<u> </u>	384		215,000
Trucking/Forkit/Rig Mobilization	237 238	140,000	337 338	20,000	360 361		385 386	5,000	165,000
Water Disposal	239	4,000	339	5,000	362	135,000	387		195,000
Plug to Abandon	240		340				307		
Seismic Analysis	241	0	341			-		·	
Miscellaneous	242	0	342				389		0
Contingency	243	51,000	343	125,000	363		390		176,000
Closed Loop & Environmental	244	198,000	344	5,000	364		388		203,000
Coli Tubing			346	285,000					285,000
Flowback Crews & Equip Offset Directional/Frac	248		347	98,000					98,000
	240		~~						
		2,757,933		6,599,348		248,000		23,000	9.626.281
TOTAL DITANGIBLES		2,757,933		6,599,348		248,000		23,000	9,626,281
TANGIBLE COSTS		2,757,633		6,599,348		248,000		23,000	
TANGIBLE COSTS Surface Cesting	401	201,000		6,599,348		248,000		23,000	201,000
TANGIBLE COSTS Surface Casing Intermediate Casing	402	201,000 671,000		6,599,348		248,000		23,000	201,000 671,000
TANGIBLE COSTS Surface Cesting Intermediate Cesting Production CestingLiner		201,000	504			248,000	E30	23,000	201,000 671,000 444,000
TANGIBLE COSTS Surface Cesting Intermediate Cesting Production Casing/Liner Tubing	402 403	201,000 671,000 444,000	504 505	43,000		246,000	530 531		201,000 671,000 444,000 43,000
TANGIBLE COSTS Surface Casing Intermediate Casing Production CasingAiner Tubing Wallned Equipment	402	201,000 671,000	504 505			246,000	530 531 506	3,000	201,000 671,000 444,000 43,000 88,000
TANGIBLE COSTS Surface Cesting Intermediate Cesting Production Casing/Liner Tubing	402 403	201,000 671,000 444,000		43,000 20,000		246,000	531		201,000 671,000 444,000 43,000
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casing/Liner Tuthing Wellbread Equipment Pumping Unit Prima Mover Rods	402 403	201,000 671,000 444,000		43,000 20,000 , 0)		244,000	531 506 507 508	3,000 100,470 45,000	201,000 671,000 444,000 43,000 58,000
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfulner Tubing Wellhead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH)	402 403	201,000 671,000 444,000		43,000 20,000 0 0			531 506 507	3,000	201,000 671,000 444,000 43,000 88,000 100,470 0 43,000 8,000
TANGIBLE COSTS Surface Cesting Intermodiate Cesting Production Cestingfulner Tubing Wallhand Equipment Pumping Unit Prime Mover Rods Rods Pranks Pranks	402 403	201,000 671,000 444,000	505	43,000 20,000 0 0	510	37,000	531 506 507 508	3,000 100,470 45,000	201,000 671,000 444,000 43,000 88,000 100,470 0 45,000 8,000 37,000
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casing/Liner Tubing Wellhead Equipment Pumping Unit Prima Mover Rods Pumps-Sub Surface (BH) Tenis Flowlines	402 403	201,000 671,000 444,000	505	43,000 20,000 0 0	511	37,000 84,000	531 506 507 508	3,000 100,470 45,000	201,000 671,000 444,000 43,000 88,000 100,470 0 45,000 8,000 37,000 84,000
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfulner Tuthing Walthead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanks Flowlines Heater Trester/Separator	402 403	201,000 671,000 444,000	505	43,000 20,000 0 0		37,000	531 506 507 508	3,000 100,470 45,000	201,000 671,000 444,000 43,000 88,000 100,470 0 45,000 8,000 37,000 84,000
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfuner Tubing Wallhead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanka Flowlines Heater Treat/Separator Electrical System	402 403	201,000 671,000 444,000 65,000	505	43,000 20,000 0 0	511	37,000 84,000	531 506 507 508	3,000 100,470 45,000	201,000 671,000 444,000 43,000 88,000 100,470 0 45,000 8,000 37,000 84,000
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casing/Liner Tubing Wellhead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tenks Flowlines Haster Treater/Separator Electrical System Packars/Anchoral/Hangers	402 403 405	201,000 671,000 444,000 85,000	505 509	43,000 20,000 0 0 0 0	511	37,000 84,000	531 506 507 508 532	3,000 100,470 45,000	201,000 671,000 444,000 88,000 100,470 0 45,000 8,000 37,000 94,000 106,000
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TANGIBLE COSTS Surface Casing Intermediate Casing Production Casing/Liner Tubing Wellhead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tenks Flowlines Haster Treater/Separator Electrical System Packans/Anchoral/Hangers Couplings/Fittings/Valves Dehydration Infection Plant/CO2 Equipment	402 403 405 414	201,000 671,000 444,000 65,000	505 509	43,000 20,000 0 0 0 0	511 512 513 515 517 518	37,000 84,000 108,000 69,000	531 506 507 508 532	3,000 100,470 45,000	201,000 671,000 444,000 88,000 100,470 0 45,000 8,000 37,000 84,000 106,000 69,000 6,000 122,600
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TANGIBLE COSTS Surface Cesting Intermediate Cesting Production CestingLiner Tubing Walthead Equipment Pumping Und Prime Mover Rods Pumps-Sub Surface (BH) Tenta Flowlines Heater Treater/Separator Electrical System Pudsars/Anchors/Hampers Couplings/Fittings/Valves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SICADA/POC	402 403 405 414 415	201,000 671,000 444,000 653,000 0 0	505 509 514	43,000 20,000 0 0 0 0	511 512 513 515 517 518 521 522	37,000 84,000 108,000 69,000 122,600	531 508 507 508 532 533 534	3,000 100,470 45,000	201,000 671,000 444,000 48,000 88,000 100,470 0 45,000 8,000 37,000 84,000 108,000 69,000 122,600 0 0
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TANGIBLE COSTS Surface Casing Intermediate Casing Production Casing/Liner Tuthing Weilfreed Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanks Flowfines Heater Treater/Separator Electrical System Pucters/Annon/Hempers Couplings/Fittings/Valves Dehydration Injection Plant/COZ Equipment Pumps-Surface Instrumentation/SCADM/POC Instrumentation/SCADM/POC Instrumentation/SCADM/POC Infiscency	402 403 405 414 415	201,000 671,000 444,000 65,000 0 0	505 509 514	43,000 20,000 0 0 0 0	511 512 513 515 517 518 521 522	37,000 84,000 108,000 69,000 122,600	531 508 507 508 532 533 534	3,000 100,470 45,000 8,000	201,000 671,000 444,000 43,000 88,000 100,470 0 45,000 8,000 108,000 6,000 108,000 6,000 122,600 0 122,600 0 122,600 0
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casing/Liner Tuthing Welfhead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hangers Couptings/Fithings/Valves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADA/POC Miscetlameous	402 403 405 414 415	201,000 671,000 444,000 65,000 0 0	505 509 514	43,000 20,000 0 0 0 0	511 512 513 515 517 518 521 522 523 524	37,000 84,000 108,000 69,000 122,600	531 506 507 508 532 533 534 529 535	3,000 100,470 45,000 8,000	201,000 671,000 444,000 88,000 100,470 0 45,000 8,000 37,000 84,000 100,000 69,000 0,000 122,600 0 12,255 4,000
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production CesingLiner Tubing Wallhead Equipment Pumping Und Prime Mover Rods Pumps-Sub Surface (BH) Tenta Flowlines Heater Treater/Separator Electrical System Puduary/Anchora/Hampers Couplings/Fittings/Valves Dehydration Injection Plant/CO2 Equipment Pharps-Surface Instrumentation/SCADA/POC Miscottaneous Miscottaneous Conthigency Meteraria/Anchora/	402 403 405 414 415	201,000 671,000 444,000 65,000 0 0	505 509 514	43,000 20,000 0 0 0 0	511 512 513 515 517 518 521 522 523 524 525	37,000 84,000 108,000 69,000 122,600	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 108,000 69,000 122,600 0 122,600 0 0 122,600 0 0 122,600
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production Cesingfulner Tubing Walfreed Equipment Pumping Und Prime Mover Rods Pumps-Sub Surface (BH) Tents Flowlines Heater Treater/Separator Bectrical System Pucture/Annchors/Hampers Couplings/Fittings/Vahves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADM/POC Miscottanoous Contingency Miscottanoous Contingency Meteral/ACT Rareas/Combustars/Emission Gas Lift/Compression TOTAL TAMGIBLES	402 403 405 414 415	201,000 671,000 444,000 65,000 0 0 0 0	505 509 514 519 520	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 12,255 0 31,000 25,000 32,600 521,633	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Casing Intermediate Casing Production CasingLiner Tubing Wellbrad Equipment Pumping Unit Prima Mover Rods Pumps-Sub Surface (BH) Tenks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hengers Couplings/Fittings/Velves Dehydration Injection PartiCO2 Equipment Pumps-Surface Instrumentation/SCADA/POC Miscottanous Contingency Metaral/ACT Reas/Combustars/Enission Gas Lift/Compression	402 403 405 414 415	201,000 671,000 444,000 65,000 0 0 0	505 509 514 519 520	43,000 20,000 0 0 0 0 6,000	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 122,600 122,600 31,000 25,000 35,000	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000	201,000 671,000 444,000 43,000 88,000 100,470 0 45,000 37,000 84,000 108,000 69,000 6,000 122,600 0 0 12,255 4,000 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production CesingLiner Tubing Wallmad Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hampers Couplings/Rithors/Hampers Injection Plant/CO2 Equipment Injection Plant/CO2 Miscettamous Contingency Meters/LACT Rithors/Combustars/Emission Gas Lift/Compression TOTAL TANGIBLES TOTAL WELL COSTS	402 403 405 414 415	201,000 971,000 444,000 85,000 0 0 0 0 1,381,000 4,138,633	505 509 514 519 520	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 4,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production Cesing/Liner Tubing Welfheed Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tenks Flowlines Heater Treater/Separator Electrical System Pacters/Anchors/Hangers Couplings/Fithings/Vahres Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADA/POC Miscoffamous Contingency Meteraria/ACT Flares/Combustars/Emission Gas LIN/Compression TOTAL TANGIBLES TOTAL WELL COSTS	402 403 405 414 415	201,000 671,000 444,000 65,000 0 0 0 0	505 509 514 519 520	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 12,255 0 31,000 25,000 32,600 521,633	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production CesingLiner Tubing Wallmad Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hampers Couplings/Rithors/Hampers Injection Plant/CO2 Equipment Injection Plant/CO2 Miscettamous Contingency Meters/LACT Rithors/Combustars/Emission Gas Lift/Compression TOTAL TANGIBLES TOTAL WELL COSTS	402 403 405 414 415	201,000 671,000 444,000 653,000 0 0 0 0 1,381,000 4,138,633	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 4,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfulner Tuthing Walthead Equipment Pumping Unit Prime Mover Rods Pumpis-Sub Surface (BH) Tanks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hangers Couplings/Fithings/Vahres Delrydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADM/POC Miscoffamous Contingency Miscoffamous Contingency Miscoffamous Contingency Miscoffamous Contingency Miscoffamous TOTAL TANGIBLES TOTAL WELL COSTS	402 403 405 414 415	201,000 671,000 444,000 653,000 0 0 0 0 1,381,000 4,138,633	505 509 514 519 520	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 4,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfulner Tuthing Walthead Equipment Pumping Unit Prime Mover Rods Pumpis-Sub Surface (BH) Tanks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hangers Couplings/Fithings/Vahres Delrydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADM/POC Miscoffamous Contingency Miscoffamous Contingency Miscoffamous Contingency Miscoffamous Contingency Miscoffamous TOTAL TANGIBLES TOTAL WELL COSTS	402 403 405 414 415	201,000 971,000 444,000 85,000 0 0 0 0 1,381,000 4,138,633 38%	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 4,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfuner Tuthing Walthead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanks Flowlines Heater Treat/Separator Electrical System Puckers/Anchors/Hampers Couplings/Fithings/Valves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SICADA/POC Miscotlamous Contingency Miscotlamous Contingency Miscotlamous TOTAL TANGIBLES TOTAL WELL COSTS % of Total Wolf Cost COG Operating LLC	402 403 405 414 415	201,000 671,000 444,000 65,000 0 0 0 0 1,381,000 4,138,933 35%	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 4,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfulner Tuthing Walthead Equipment Pumping Unit Prime Mover Rods Pumpis-Sub Surface (BH) Tanks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hangers Couplings/Fithings/Vahres Delrydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADM/POC Miscoffamous Contingency Miscoffamous Contingency Miscoffamous Contingency Miscoffamous Contingency Miscoffamous TOTAL TANGIBLES TOTAL WELL COSTS	402 403 405 414 415	201,000 671,000 444,000 65,000 65,000 0 0 1,381,000 4,138,633 35% Date Prepared:	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 4,000	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 106,000 68,000 122,600 0 0 122,600 0 0 31,000 0 31,000 25,000 122,55
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production Cesingfulner Tuthing Weithead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tanks Flowlines Hester Treater/Separator Electrical System Packers/Anchors/Hangers Couplings/Fithings/Valves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SICADA/POC Miscotlameous Contingency Metern/LACT Farres/Combusters/Emission Gas LID/Compression TOTAL TANGIBLES TOTAL WELL COSTS ** of Total Woll Cost We approve:	402 403 405 414 415	201,000 671,000 444,000 65,000 65,000 0 0 1,381,000 4,138,633 35% Date Prepared:	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 15,000 8,000 84,000 84,000 84,000 86,883,348	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 150,470 183,470	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 106,000 68,000 122,600 0 0 122,600 0 0 31,000 0 31,000 25,000 122,55
TANGIBLE COSTS Surface Costing Intermodiate Casing Production Casingfuer Tubing Wellmad Equipment Pumping Unit Prime Mover Rods Pumpa-Sub Surface (BH) Tenta Flowlines Heapter Treater/Separator Electrical System Packers/Anchors/Hampers Coughings/Trings/Velvas Dehydration Injection Plant/CO2 Equipment Injection Plant/CO2 Equipment Permas-Surface Instrumentation/SCADA/POC Miscellamous Contingency Meteraria/Anchors/Hampers Contingency Meteraria/Anct Flores/Compussion TOTAL TANGIBLES TOTAL WELL COSTS ** of Total Woll Cost COG Operating LLC We approve:% Working Interest Company: Publicon Ot & Gas II, LP	402 403 405 414 415	201,000 671,000 444,000 65,000 65,000 0 0 1,381,000 4,138,633 35% Date Prepared:	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 15,000 8,000 84,000 84,000 84,000 86,883,348	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 150,470 183,470	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production Cesingfulner Tuthing Wellhead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tentas Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hangers Couplings/Fittings/Valves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADA/POC Miscoflameous Contingency Meterar/ACT Flares/Combustars/Emission Gas LID/Compression TOTAL TANGIBLES TOTAL WELL COSTS % of Total Wolf Cost COG Operating LLC We approve: % Working Interest	402 403 405 414 415	201,000 671,000 444,000 65,000 65,000 0 0 1,381,000 4,138,633 35% Date Prepared:	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 15,000 8,000 84,000 84,000 84,000 86,883,348	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 150,470 183,470	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 108,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TANGIBLE COSTS Surface Casing Intermediate Casing Production Casingfulner Tuthing Welfhead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tenks Flowlines Heater Treater/Separator Electrical System Packers/Anchors/Hangers Couplings/Fithings/Valves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADA/POC Miscatiannous Contingency MeterariAcT Pares/Combusters/Emission Gas LID/Compression TOTAL TANGIBLES TOTAL WELL COSTS % of Total Well Cost We approve:	402 403 405 414 415	201,000 671,000 444,000 65,000 65,000 0 0 1,381,000 4,138,633 35% Date Prepared:	505 509 514 519 520 627	43,000 20,000 0 0 0 0 0 0 0 0 0 15,000 8,000 84,000 84,000 84,000 86,883,348	511 512 513 515 517 518 521 522 523 524 523 528	37,000 84,000 108,000 69,000 122,600 31,000 31,000 35,000 621,835 787,885	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 150,470 183,470	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 69,000 122,600 0 12,255 4,000 0 31,000 0 31,000 0 31,000
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production CesingLiner Tubing Welfheed Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tenks Flowlines Heater Treater/Separator Electrical System Pacters/Anchors/Hangers Couplings/Fithings/Vahves Dehydration Injection Plant/CO2 Equipment Pumps-Surface Instrumentation/SCADA/POC Miscaffaneous Contingency Meters/ACT Flares/Combustars/Emission Gas LIP/Compression TOTAL TANGIBLES TOTAL WELL COSTS We approve:	402 403 405 414 415	201,000 671,000 444,000 444,000 653,000 0 0 0 0 1,381,000 4,138,933 3874 Date Prepared: COG Operating LLC	505 509 514 519 520 627	43,000 20,000 0 0 0 0 6,000 84,000 84,000 8,683,348 57%	511 512 513 515 517 518 521 522 523 524 528 518	37,000 84,000 108,000 69,000 122,600 31,000 25,000 33,000 521,855 787,855	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 150,470 183,470	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 69,000 69,000 122,600 0 12,255 4,000 0 31,000 0 31,000 0 31,000
TANGIBLE COSTS Surface Cesing Intermediate Cesing Production CesingLiner Tubing Walthead Equipment Pumping Unit Prime Mover Rods Pumps-Sub Surface (BH) Tenks Flowlines Heater Treater/Separator Electrical System Pactures/Anchors/Heangers Couplings/Fittings/Velves Deshydration Injection Plant/CO2 Equipment Physion Plant/CO2 Equipment Physion Plant/CO3 Miscellaneous Miscellaneous Conthipency Meters/LACT Floration/SCADA/POC Miscellaneous TOTAL TANGIBLES TOTAL WELL COSTS COG Operating LLC We approve:% Working Interest Company: Rubicon Ot & Gas II, LP By: Printed Names:	402 403 405 414 415	201,000 671,000 444,000 85,000 0 0 0 0 1,381,000 4,138,633 35% Date Prepared: COG Operating LLC	505 509 514 519 520 627	43,000 20,000 0 0 0 0 6,000 84,000 84,000 8,683,348 57%	511 512 513 515 517 518 521 522 523 524 528 518	37,000 84,000 108,000 69,000 122,600 31,000 25,000 33,000 521,855 787,855	531 506 507 508 532 533 534 529 535 636	3,000 100,470 45,000 8,000 4,000 150,470 183,470	201,000 671,000 444,000 444,000 88,000 100,470 0 45,000 8,000 37,000 84,000 108,000 69,000 122,600 0 0 12,255 4,000 0 31,000 0 31,000 0 31,000



Via Certified Mail 91 7199 9991 7038 2028 9166 Return Receipt Requested

August 24, 2017

Amarco Oil Corporation P. O. Box 10886 Midland, TX 79702

Re:

Title Requirement

W/2 of Section 9 & W/2 of Section 16,

T21S-R33E Lea County, NM

To Whom It May Concern:

COG Operating LLC ("COG"), as Operator, plans to further develop the W/2 of Section 9 and the W/2 of Section 16, T21S-R33E by drilling the Boone 16 State Com 3H well. COG recently received an updated title opinion covering these lands, and your interest is subject to title requirement number 14. Due to the uncertainties involved with unsatisfied title requirements, if the title requirement regarding your interest is not cured before drilling, COG may apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well. Please find the title requirement affecting your interest attached to this letter. Upon the completion of curing such title requirement, please provide any instrument or documentation to the undersigned for review.

Please contact the undersigned if you would like to discuss this in more detail. Your prompt attention to this matter is greatly appreciated.

Very truly yours,

COG OPERATING LLC

Luke Bedrick Senior Landman (432) 686-3000

LBedrick@concho.com

Submitted by: COG OPERATING, LL Hearing Date: September 14, 2017



Via Certified Mail 91 7199 9991 7038 2028 9197 Return Receipt Requested

August 24, 2017

E. G. L. Resources, Inc. P. O. Box 10886 Midland, TX 79702

Re:

Title Requirement

W/2 of Section 9 & W/2 of Section 16,

T21S-R33E Lea County, NM

To Whom It May Concern:

COG Operating LLC ("COG"), as Operator, plans to further develop the W/2 of Section 9 and the W/2 of Section 16, T21S-R33E by drilling the Boone 16 State Com 3H well. COG recently received an updated title opinion covering these lands, and your interest is subject to title requirement numbers 14 and 16. Due to the uncertainties involved with unsatisfied title requirements, if the title requirements regarding your interest is not cured before drilling, COG may apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well. Please find the title requirements affecting your interest attached to this letter. Upon the completion of curing such title requirements, please provide any instrument or documentation to the undersigned for review.

Please contact the undersigned if you would like to discuss this in more detail. Your prompt attention to this matter is greatly appreciated.

Very truly yours,

COG OPERATING LLC

Luke Bedrick

Senior Landman

(432) 686-3000

LBedrick@concho.com

BEFORE THE OIL CONSERVATION DIVISION Santa Fc, New Mexico Exhibit No. 5 Submitted by:COG OPERATING, LLC Hearing Date: September 14, 2017

Boone 16 State Com 3H Offset Operators

Owner	Address	City	State	Zip
Amarco Oil Corporation	P. O. Box 10886	Midland	TX	79702
Chevron U.S.A., Inc.	P. O. Box 1635	Houston	TX	77251
Cimarex Energy Co.	15 E. 5th Street, Suite 1000	Tulsa	OK	74103
Devon Energy Production Company, LP	20 N. Broadway, Suite 1500	Oklahoma City	OK	73102
Devon Energy Production Company, LP	333 W. Sheridan Ave.	Oklahoma City	OK	73102
E.G.L. Resources, Inc.	P. O. Box 10886	Midland	TX	79702
EOG Resources, Inc.	P. O. Box 4362	Houston	TX	77210
Meriwether Resources, Inc.	P. O. Box 33	Midland	TX	79702
Olive Petroleum, Inc.	315 Carol Lane	Midland	TX	79705
Olwick Corporation	P. O. Box 10886	Midland	TX	79702
Petraitis Oil & Gas, Inc.	P. O. Box 10886	Midland	TX	79702
Printz, Ltd.	P. O. Box 10886	Midland	TX	79702
Rubicon Oil & Gas, II, LP	508 West Wall Ave., Suite 500	Midland	TX	79701
S. E. S. Oil and Gas, Inc.	P. O. Box 10886	Midland	TX	79702
Schlagal Brothers	202 N. Eisenhower	Midland	TX	79703
Starck Family, Ltd	P. O. Box 10886	Midland	TX	79702
State of New Mexico	P. O. Box 2266	Santa Fe	NM	87504

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

APPLICATION OF COG OPERATING LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

CASE NO. 15820

AFFIDAVIT

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

Jordan L. Kessler, attorney in fact and authorized representative of COG Operating LLC, 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.

Jordan L. Kessler

SUBSCRIBED AND SWORN to before me this 13th day of September, 2017, by Jordan

L. Kessler.

Notary Public



Jordan L. Kessier Associate Phone (505) 988-4421 Fax (505) 983-6043 JLKessier@hollandhart.com

August 25, 2017

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Application of COG Operating LLC for a non-standard spacing and proration unit and compulsory pooling, Lea County, New Mexico.

Boone 16 State Com No. 3H

Ladies & Gentlemen:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. This application will be set for hearing before a Division Examiner at 8:15 a.m. on September 14, 2017. The hearing will be held in Porter Hall in 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 Luke Bedrick, at (432) 686-3000 or LBedrick@concho.com.

Sincerely,

Jordan L. Kessler

ATTORNEY FOR COG OPERATING LLC



Jordan L. Kessler Associate Phone (505) 988-4421 Fax (505) 983-6043 JLKessler@hollandhart.com

August 25, 2017

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

TO: OFFSETTING LESSEES AND OPERATORS

Re: Application of COG Operating LLC for a non-standard spacing and proration unit and compulsory pooling, Lea County, New Mexico.

Boone 16 State Com No. 3H

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. Your interests are not being pooled under this application, but as a lessee or operator in an offsetting tract, you are entitled to notice of this application.

This application has been set for hearing before a Division Examiner at 8:15 AM on September 14, 2017. The hearing will be held in Porter Hall in 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 with the Oil Conservation Division's Santa Fe office, four business days in advance of a scheduled hearing, but at least on the Thursday preceding the hearing. This statement must 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 Luke Bedrick, at (432) 686-3000 or LBedrick@concho.com.

Sincerely,

Jordan L. Kessler

ATTORNEY FOR COG OPERATING LLC

Boone 16 State Com 3H - Pooled Parties Case No. 15820 (27)

EOG Resources Inc. 5509 Champions Dr. Midland, TX79703

E.G.L. Resources, Inc. 223 W. Wall Street, Suite 900 Midland, TX 79701

Olive Petroleum, Inc. 1004 N. Big Spring Street, #504 Midland, TX 79701

Chevron U.S.A. Inc. P. O. Box 730121 Dallas, TX 75373

Meriwether Resources, Inc. 214 W. Texas Ave., Suite 1113 Midland, TX 79701

Meriwether Resources, Inc. 508 W. Wall, Suite 1250 Midland, TX 79701

Amarco Oil Corporation P. O. Box 10886 Midland, TX 79702

Conoco Inc. 600 N. Diary Ashford Rd. Houston, TX 77079

Conoco Inc. P. O. Box 2197 WL 3-#5050 Houston, TX 77252

E. G. L. Resources, Inc. P. O. Box 10886 Midland, TX 79702

Finwing Corporation P. O. Box 10886 Midland, TX 79702 Lerwick 1, Ltd. P. O. Box 10886 Midland, TX 79702

Logic, Inc. P. O. Box 10886 Midland, TX 79702

Loro Corporation P. O. Box 10886 Midland, TX 79702

L-T Partners P. O. Box 10886 Midland, TX 79702

Manta Oil and Gas Corporation P. O. Box 10886 Midland, TX 79702

Mitchell Energy Corporation P. O. Box 4000 The Woodlands, TX 77380

Newman Resources, LLC P. O. Box 10886 Midland, TX 79702

Olwick Corporation P. O. Box 10886 Midland, TX 79702

Petraitis Oil & Gas, Inc. P. O. Box 10886 Midland, TX 79702

Printz II, LLC 508 W. Wall Street, Suite 1250 Midland. TX 79701

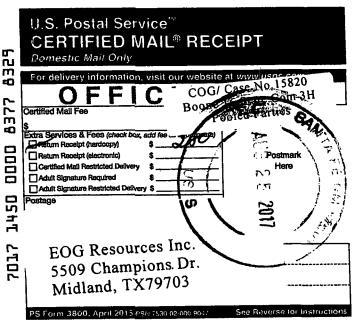
Printz, Ltd. P. O. Box 10886 Midland, TX 79702 S.E.S. Oil & Gas, Inc. P. O. Box 10886 Midland, TX 79702

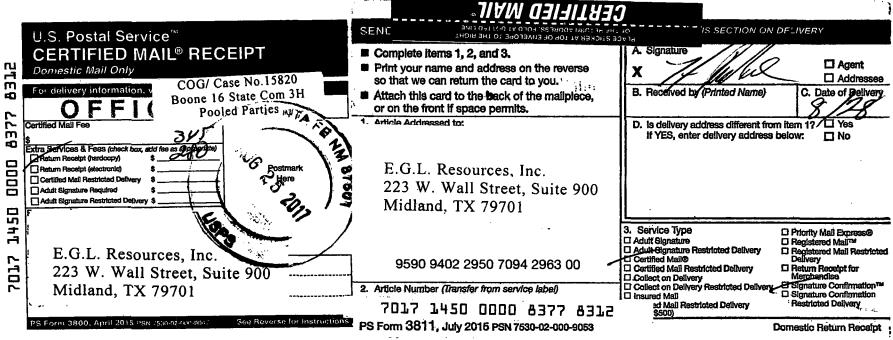
Schlagal Brothers 202 N. Eisenhower Midland, TX 79703

Starck Family Oil & Gas, LLC 508 W. Wall Street, Suite 1250 Midland, TX 79701

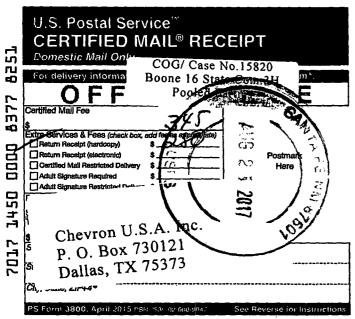
Starck Family, Ltd. P. O. Box 10886 Midland, TX 79702

Traeder Limited P. O. Box 10886 Midland, TX 79702



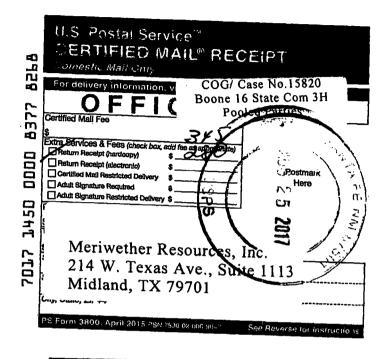


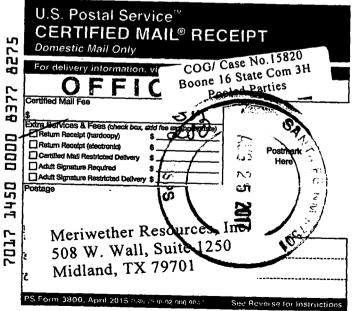
PS Form 3800, April 2015 PSN 15JR-02-000-9047

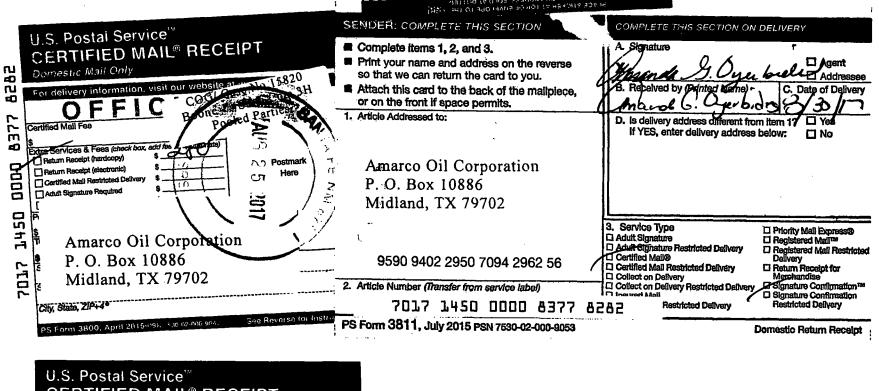


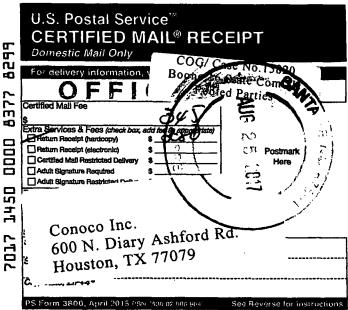
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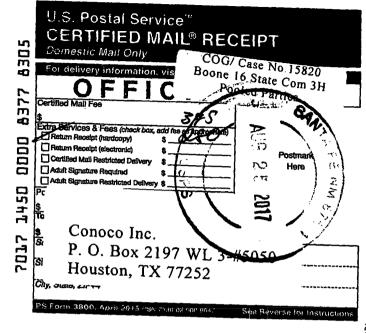
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PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Returns

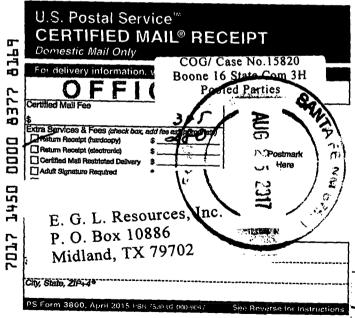








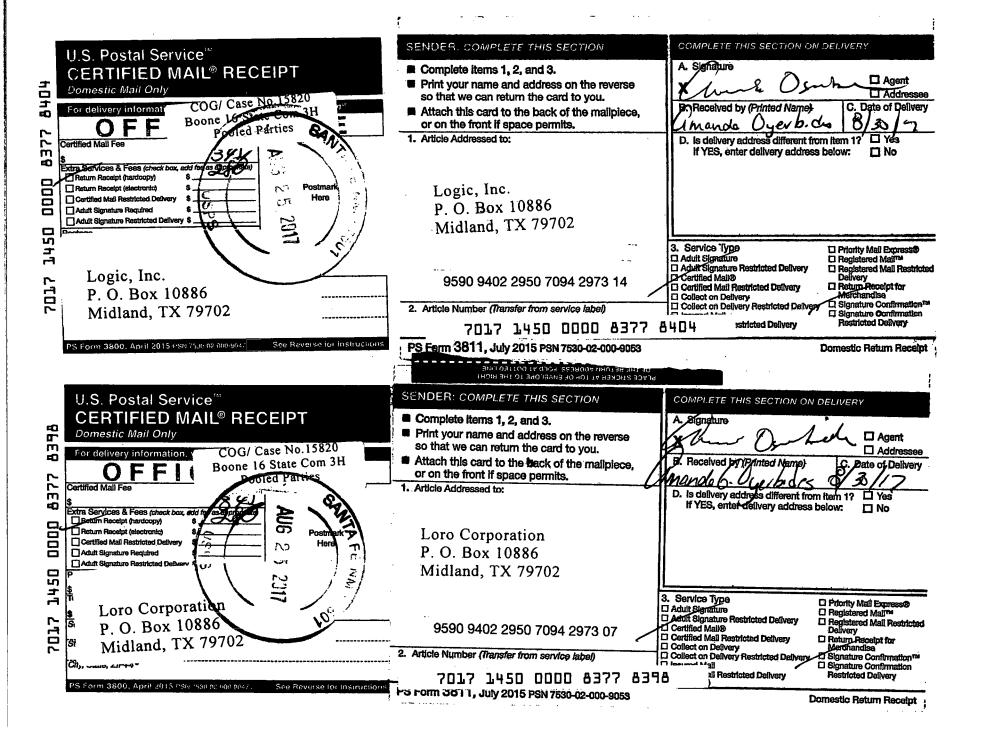




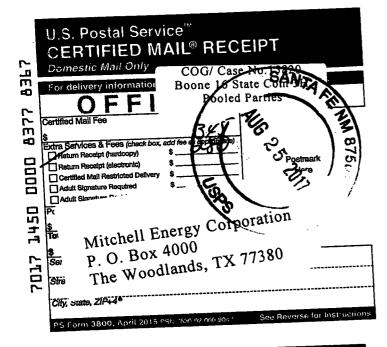
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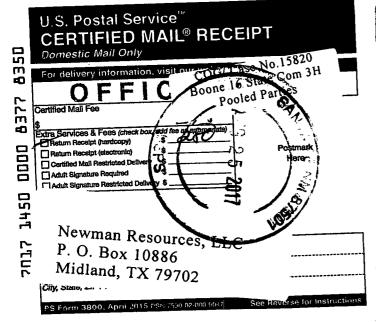
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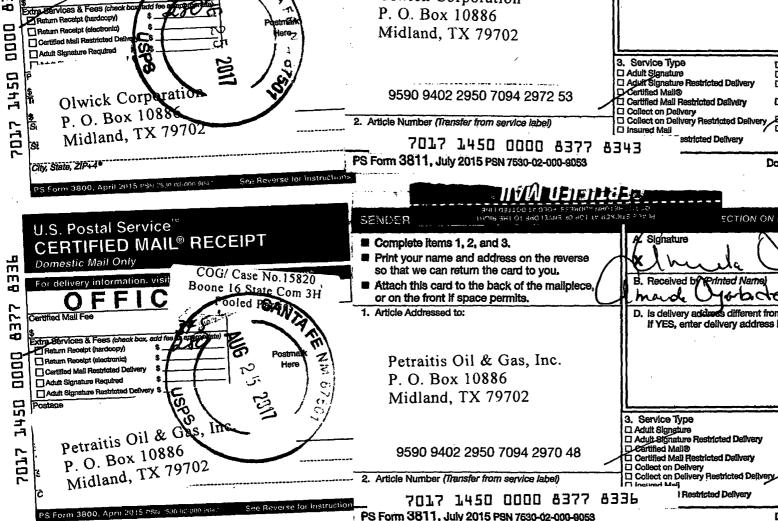
☑ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

☐ Registered Mail™

☐ Return Receipt for Mesetrandise



U.S. Postal Service

Domestic Mail Only

For delivery information

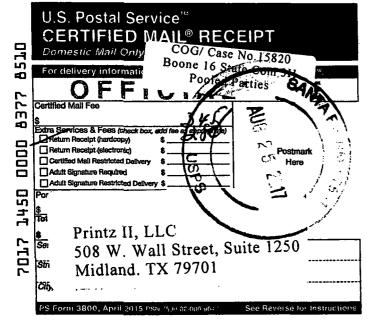
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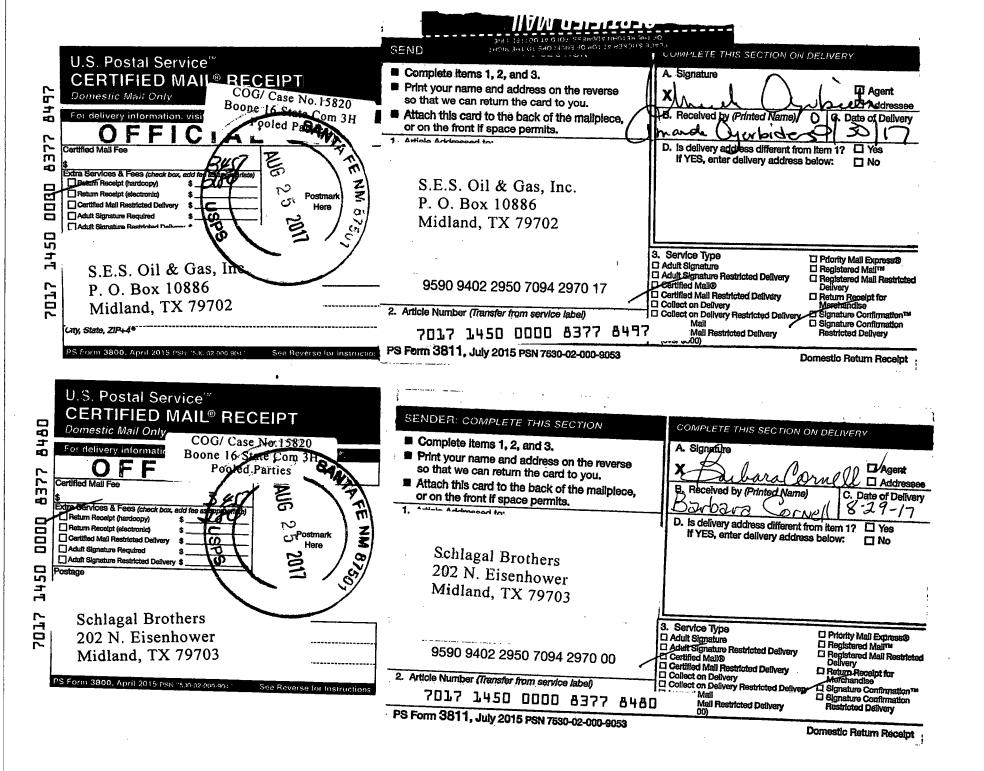
CERTIFIED MAIL® RECEIPT

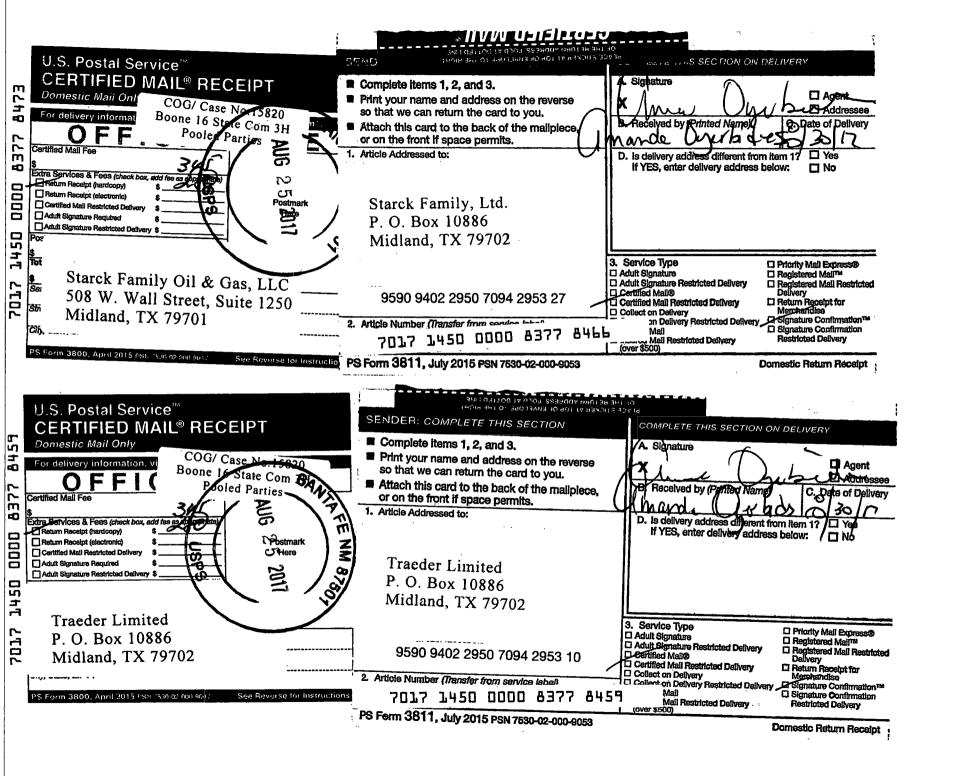
COGI Case No.15820

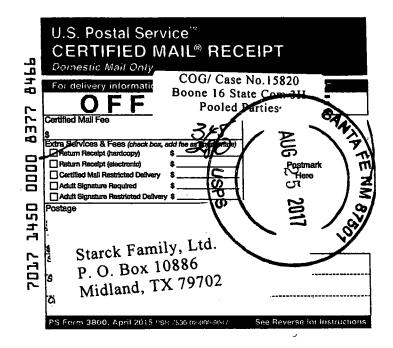




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☐ Certified Mail® 9590 9402 2950 7094 2970 24 ☐ Return Receipt for ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery Merchandis Holgnature Confirmation™ ☐ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) C Signature Confirmation Restricted Delivery **// All Restricted Delivery** 7017 1450 0000 8377 8503 PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt







Boone 16 State Com 3H - Offset Parties Case No. 15820 (17)

Rubicon Oil & Gas, II, LP 508 West Wall Ave., Suite 500 Midland, TX 79701

Chevron U.S.A., Inc. P. O. Box 1635 Houston, TX 77251

Devon Energy Production Company, LP 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

Devon Energy Production Company, LP 333 W. Sheridan Ave. Oklahoma City, OK 73102

EOG Resources, Inc. P. O. Box 4362 Houston, TX 77210

Amarco Oil Corporation P. O. Box 10886 Midland, TX 79702

Olwick Corporation P. O. Box 10886 Midland, TX 79702

Olive Petroleum, Inc. 315 Carol Lane Midland, TX 79705

Petraitis Oil & Gas, Inc. P. O. Box 10886 Midland, TX 79702

Printz, Ltd. P. O. Box 10886 Midland, TX 79702

S. E. S. Oil and Gas, Inc. P. O. Box 10886 Midland, TX 79702 Schlagal Brothers 202 N. Eisenhower Midland, TX 79703

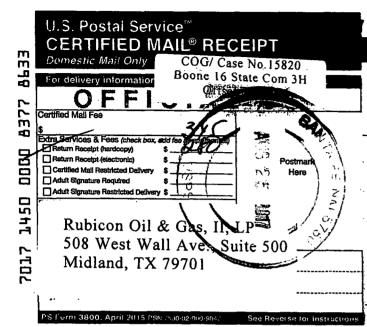
Starck Family, Ltd P. O. Box 10886 Midland, TX 79702

Meriwether Resources, Inc. P. O. Box 33 Midland, TX 79702

E.G.L. Resources, Inc. P. O. Box 10886 Midland, TX 79702

State of New Mexico P. O. Box 2266 Santa Fe, NM 87504

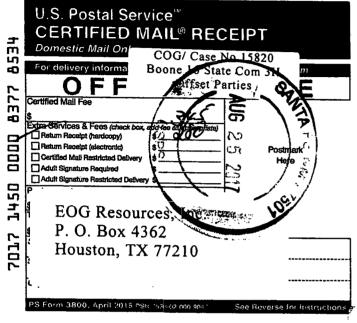
Cimarex Energy Co. 15 E. 5th Street, Suite 1000 Tulsa, OK, 74103

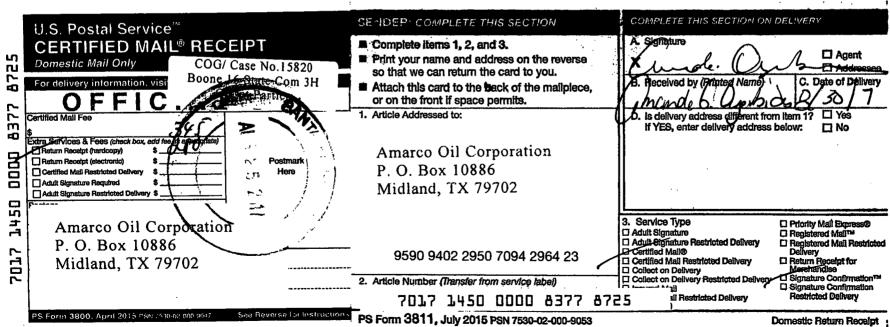


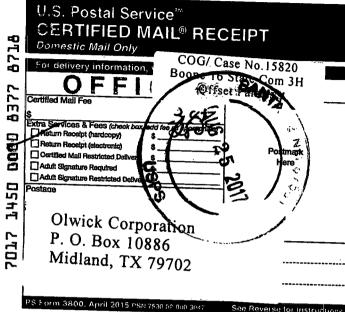


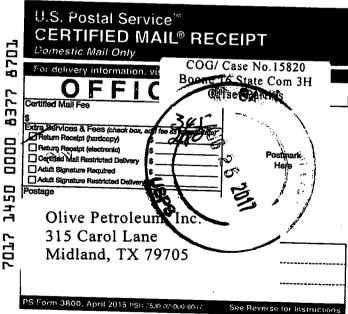
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PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt











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Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Olive Petroleum, Inc. 315 Carol Lane	COMPLETE THIS SECTION ON DELIVERY A. Signature COMPLETE THIS SECTION ON DELIVERY A. Signature COMPLETE THIS SECTION ON DELIVERY A. Signature C. Date of Delivery Down Source C. Date of Delivery D. Is delivery address different from item 1? Yes
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 Delivery PI Certified Mail® 9590 9402 2950 7094 2964 54 Midland, TX 79702 ☐ Certified Mail Restricted Delivery ☐ Return Receipt for 707. ☐ Collect on Delivery Marchandiso 2. Article Number (Tree on Delivery Restricted Deliv ☐ Signature Confirmation 7017 1450 0000 8377 8695 ☐ Signature Confirmation Restricted Delivery Mail Restricted Delivery (over \$500) City, State, ZIP+4 PS Form 3811, July 2015 PSN 7530-02-000-9053 **Domestic Return Receipt** . IIVN USISIJASKI U.S. Postal Service CERTIFIED MAIL® RECEIPT SENDER: COMPLETE THIS SECTION Domestic Mail Only COMPLETE THIS SECTION ON DELIVERY 75E No. 15820 Complete items 1, 2, and 3. For delivery information, vi A. Signature 40 Print your name and address on the reverse ☐ Agent so that we can return the card to you. ~ Certified Mail Fee Attach this card to the back of the mailplece. m B. Received by (Printed Name) Cabate of Delivery 40 or on the front if space permits. Extra Bervices & Fees (check box, add Return Receipt (hardcopy) 1. Article Addressed to: D. Is delivery address different from item 1? Yes if YES, enter delivery address below: 50 Return Receipt (electronic) 000 Certified Mail Restricted Delive Postmark Adult Signature Required Printz, Ltd. Here Adult Signature Restricted Delivi 50 P. O. Box 10886 Midland, TX 79702 77 Printz, Ltd. P. O. Box 10886 Midland, TX 79702 3. Service Type C Priority Mail Express@ ☐ Adult Signature
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 Return Receipt for 9590 9402 2950 7094 2964 61 Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery PS Form 3800, April 2015 PSN 1530 02 000-90-2. Article Number (Transfer from service label) Merchandise ☐ Collect on Delivery Restricted Delivery Signature Confirmation ☐ Signature Confirmation 7017 1450 0000 8377 8688 all Restricted Delivery Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt



PS Form 3800, April 2015-PSR 2530-02 000 9042

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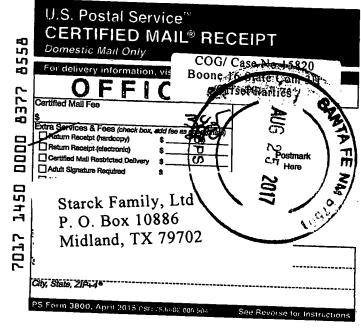
PS Form 3811, July 2015 PSN 7530-02-000-9053

☐ Signature Confirmation

Domestic Return Receipt

Restricted Delivery

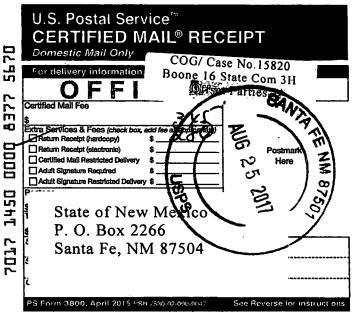
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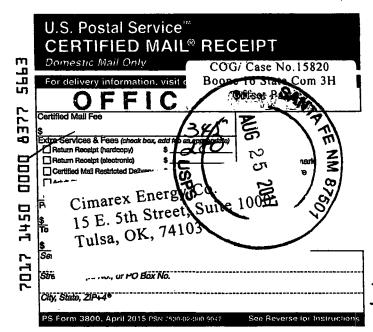


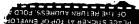
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Midland, TX 79702	
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PS Form 3811, July 2015 PSN 7530-02-000-9053

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9590 9401 0129 5225 0371 62 2. Article Number (Transfer from service label)	3. Service Type
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Domestic Return Receipt

Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated August 31, 2017 and ending with the issue dated August 31, 2017.

Publisher

Sworn and subscribed to before me this 31st day of August 2017.

Business Manager

My commission expired

OFFICIAL SEAL

GUSSIE BLACK

Notary Public

State of New Mexico

My Commission Expires

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said



LEGAL NOTICE August 31, 2017

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:16 A.M. on September 14, 2017, in the Oil Conservation Division Hearing Room at 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appoint for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-476-3458 or through the New Mexico Relay Network, 1-800-659-1779 by September 4, 2017. Public documents including the agenda and minutes, can be provided in various accessible forms. Please contact Florene Davidson if a summary or other type of accessible form is needed.

STATE OF NEW MEXICO TO: All named parties and persons having any right, title, interest or claim in the following cases and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: EOG Resources Inc.; E.G.L. Resources, Inc.; Olive Petroleum, Inc.; Chevron U.S.A. Inc.; Meriwether Resources, Inc.; Amarco Oil Corporation; Conoco Inc.; Finwing Corporation; Lerwick 1, Ltd.; Logic, Inc.; Loro Corporation; L-T Partners; Manta Oil and Gas Corporation; Mitchell Energy Corporation; Newman Resources, LLC; Olwick Corporation; Petraitis Oil & Gas, Inc.; Printz II, LLC; Printz, Ltd.; S.E.S. Oil & Gas, Inc.; Schlagal Brothers; Starck Family Oil & Gas, LLC; Starck Family, Ltd.; Traeder Limited.

Case No. 15820: Application of COG Operating LLC for a non-standard spacing and proration unit and compulsory pooling, Lea County, New Mexico. Applicant in the above-styled cause seeks an order (1) creating a non-standard 320-acre, more or less, spacing and proration unit comprised of the E/2 W/2 of Section 9 and the E/2 W/2 of Section 16, Township 21 South, Range 33 East, New Mexico; and (2) pooling all uncommitted interests in the Wolfcamp formation underlying this acreage. Said non-standard unit is to be dedicated to applicant's proposed Boone 16 State Com No. 3H Well, which will be horizontally drilled from a surface location in the NE/4 NW/4 (Unit C) of Section 21 to a standard bottom hole location in the NE/4 NW/4 (Unit C) of Section 21 to a standard bottom hole location in the NE/4 NW/4 (Unit C) of Section 9 and the Statewide rutes for oil wells. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of COG Operating LLC as operator of the well and a 200% charge for risk involved in drilling said well. Said area is located approximately 25 miles northwest of Eunice, New Mexico.

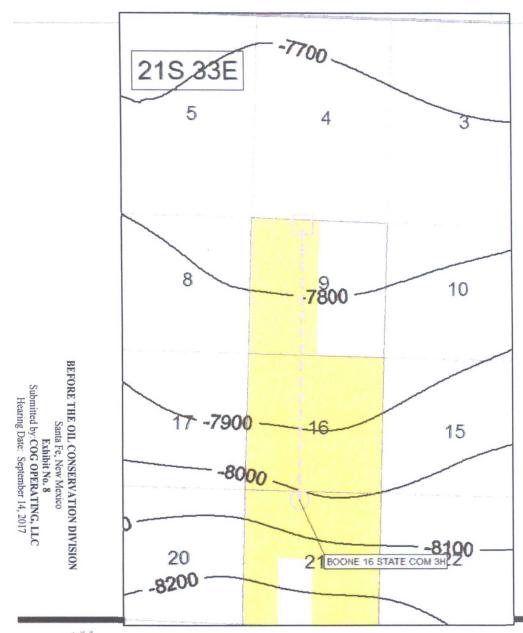
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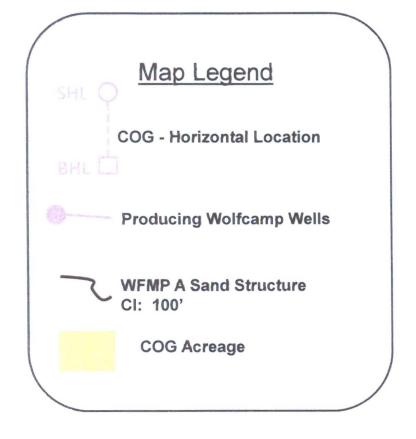
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HOLLAND & HART LLC PO BOX 2208 SANTA FE,, NM 87504-2208

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 7
Submitted by:COG OPERATING, LLC
Hearing Date: September 14, 2017

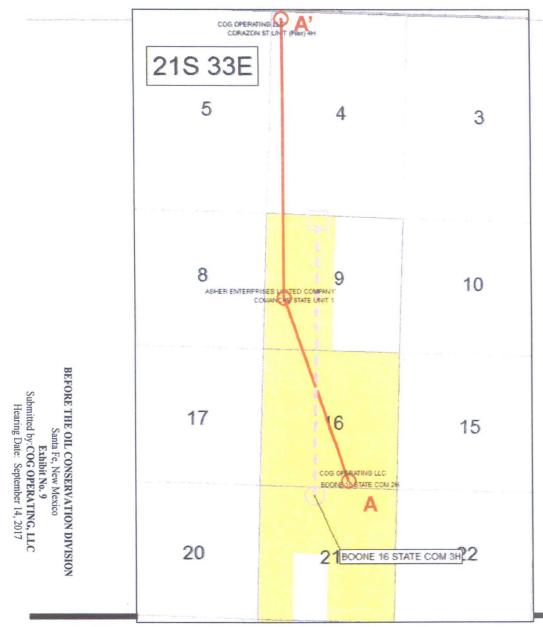
Wolfcamp Pool WFMP Subsea Structure Map

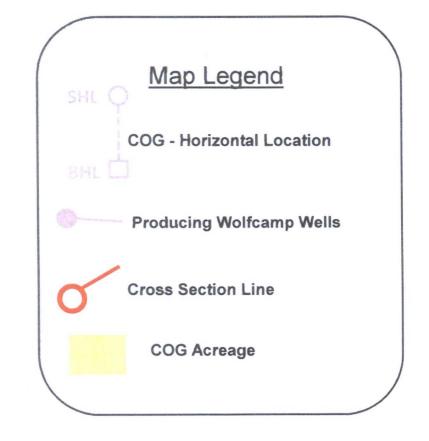






Wolfcamp Pool Cross Section Map







Stratigraphic Cross Section A – A'

