BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING AUGUST 06, 2020

CASE No. 21355

BALL 183529 1H WELL

LEA COUNTY, NEW MEXICO



APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

CASE NO. 21355

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- Catena Exhibit C Notice Affidavit

COMPULSORY POOLING APPLICA	ATION CHECKLIST
ALL INFORMATION IN THE APPLICATION MUST	BE SUPPORTED BY SIGNED AFFIDAVITS
Case: 21355	APPLICANT'S RESPONSE
Date: August 4, 2020	
Applicant	Catena Resources Operating, LLC
Designated Operator & OGRID (affiliation if applicable)	Catena Resources Operating, LLC (OGRID No. 328449)
Applicant's Counsel:	Holland & Hart LLP
Case Title:	APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO
Entries of Appearance/Intervenors:	Marathon Oil Permian, LLC
Well Family	Ball 183529 1H
Formation/Pool	
Formation Name(s) or Vertical Extent:	Wolfcamp Formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Wolfcamp Formation
Pool Name and Pool Code:	Airstrip; Wolfcamp (970)
Well Location Setback Rules:	Statewide horizontal oil well rules
Spacing Unit Size:	640-acres, more or less
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal well spacing unit
Size (Acres)	640 acres, more or less
Building Blocks:	quarter-quarter sections
Orientation:	South to North
Description: TRS/County	E/2 of Sections 20 and 29, T-18-S, R-35-E, NMPM, Lea
	County, New Mexico.
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	None
Proximity Tracts: If yes, description	W/2 E/2 Sections 20 and 29
Proximity Defining Well: if yes, description	Ball 183529 1H
Applicant's Ownership in Each Tract	Exhibit A-3
Well(s)	
Name & API (if assigned), surface and bottom hole location,	Add wells as needed
footages, completion target, orientation, completion status	
(standard or non-standard)	
Well #1	Ball 183529 1H (API # Pending)
	SHL: 190' FNL & 1250' FEL (Unit A), Sec. 32, T18S, R35E
	BHL: 100' FNL & 1250' FEL (Unit A), Sec. 20, T18S, R35E
	Completion target: Wolfcamp
	Well orientation: South to North
	Completion location: expected to be standard
Harizantal Wall First and Last Take Deiste	Coo Fubible A 1
Horizontal Well First and Last Take Points	See Exhibit A-1
Completion Target (Formation, TVD and MD)	See Exhibit B
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
lustification for Supervision Costs	See Exhibit A

Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit C
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit C
Proof of Published Notice of Hearing (10 days before hearing)	N/A
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit A-3
Tract List (including lease numbers and owners)	Exhibit A-3
Pooled Parties (including ownership type)	Exhibit A-3
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above &	
below)	N/A
Joinder	
Sample Copy of Proposal Letter	Exhibit A-4
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-3
Chronology of Contact with Non-Joined Working Interests	Exhibit A-5
Overhead Rates In Proposal Letter	Exhibit A-4
Cost Estimate to Drill and Complete	Exhibit A-4
Cost Estimate to Equip Well	Exhibit A-4
Cost Estimate for Production Facilities	Exhibit A-4
Geology	
Summary (including special considerations)	Exhibit B
Spacing Unit Schematic	Exhibit A-2
Gunbarrel/Lateral Trajectory Schematic	Exhibit A-2
Well Orientation (with rationale)	Exhibit B-3
Target Formation	Exhibit B
HSU Cross Section	Exhibit B-2
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit A-1
Tracts	Exhibit A-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-3
General Location Map (including basin)	Exhibit A-2
Well Bore Location Map	Exhibit A-2
Structure Contour Map - Subsea Depth	Exhibit B-1
Cross Section Location Map (including wells)	Exhibit B-1
Cross Section (including Landing Zone)	Exhibit B-2
Additional Information	
Special Provisions/Stipulations	None
CERTIFICATION: I hereby certify that the information provide	ded in this checklist is complete and accurate.
Printed Name (Attorney or Party Representative):	Michael H. Feldewert
Signed Name (Attorney or Party Representative):	(1) 10
Date:	Mallo Fillers 4-Aug-20

APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

CASE NO. 21355

APPLICATION

Catena Resources Operating, LLC ("Applicant") (OGRID No. 328449), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-17, for an order pooling all uncommitted interests in the Wolfcamp formation underlying a standard 640-acre, more or less, horizontal spacing unit comprised of the E/2 of Sections 20 and 29, Township 18 South, Range 35 East, Lea County, New Mexico. In support Applicant states:

- 1. Applicant is a working interest owner in the proposed horizontal spacing unit and has the right to drill thereon.
- 2. Applicant seeks to initially dedicate the above-referenced spacing unit to the proposed **Ball 183529 1H Well** to be horizontally drilled from a surface location in the NE/4 NE/4 (Unit A) of Section 32 to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 20.
- 3. The completed interval for the proposed well will remain within 330 feet of the W/2 E/2 of Sections 20 and 29 to allow inclusion of this offsetting acreage in a standard horizontal well spacing unit.
- 4. Applicant has sought and been unable to obtain voluntary agreement for the development of these lands from all interest owners in the subject spacing unit.

- 5. The pooling of interests will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.
- 6. In order to permit Applicant to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in this horizontal spacing unit should be pooled, and Applicant should be designated the operator of the proposed well and horizontal spacing unit.

WHEREFORE, Applicant requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 23, 2020, and, after notice and hearing as required by law, the Division enter an order:

- A. Pooling all uncommitted interests in the horizontal spacing unit and approving the initial well thereon;
- B. Designating Applicant as operator of the horizontal spacing unit and the horizontal wells to be drilled thereon;
- C. Authorizing Applicant to recover its costs of drilling, equipping, and completing the well;
- D. Approving the actual operating charges and costs of supervision while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- E. Imposing a 200% charge for the risk assumed by Applicant in drilling and completing the well against any working interest owner who does not voluntarily participate in the drilling of the well.

Respectfully submitted,

HOLLAND & HART LLP

By:

Michael H. Feldewert
Adam G. Rankin
Julia Broggi
Kaitlyn A. Luck
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Santa Fe, New Mexico 87504-2208
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(505) 983-6043 Facsimile
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agrankin@hollandhart.com
jbroggi@hollandhart.com
kaluck@hollandhart.com

ATTORNEYS FOR CATENA RESOURCES OPERATING, LLC

APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

CASE NOS. 21355

AFFIDAVIT OF ROBERT SWANN

Robert Swann, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Robert Swann. I am a Land Manager with Catena Resources Operating, LLC ("Catena").
- 2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. My credentials as a petroleum land manager have been accepted by the Division and made a matter of record.
- 3. I am familiar with the application filed by Catena in this case, and I am familiar with the status of the lands in the subject area.
- 4. The uncommitted parties have not indicated any opposition to this pooling application, and therefore I do not expect any opposition at the hearing
- 5. Catena seek an order pooling all uncommitted interests in the Wofcamp formation [Airstrip; Wolfcamp Pool (970)] underlying a standard 640-acre horizontal spacing unit comprised of the E/2 of Sections 20 and 29, Township 18 South, Range 35 East, Lea County, New Mexico.
- 6. Catena seeks to initially dedicate this spacing unit to the proposed **Ball 183529 1H** well to be horizontally drilled from a surface location in the NE/4 NE/4 (Unit A) of Section 32 to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 20. The completed interval for the proposed well will remain within 330 feet of the W/2 E/2 of Sections 20 and 29 to allow inclusion of this offsetting acreage in a standard horizontal well spacing unit.

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A

Case No. 21355

- 7. **Exhibit A-1** contains the Form C-102 for the proposed well.
- 8. **Exhibit A-2** is a general location map outlining the acreage being pooled and the lateral trajectory of the proposed well. The acreage is comprised of state lands.
- 9. **Exhibit A-3** identifies the tracts of land comprising the proposed spacing unit, the working interest ownership in each tract and their respective interest in the horizontal spacing unit. The mineral owners that remain to be pooled are highlighted on Exhibit A-3.
- 10. No ownership depth severances exist within in the Wolfcamp formation underlying the subject acreage.
- 11. Catena has conducted a diligent search of company records, county records, telephone directors and conducted computer searches to locate contact information for each of the mineral owners that it seeks to pool.
- 12. **Exhibit A-4** contains a sample of the letter and AFE for the proposed well sent to the working interest owners that Catena has been able to locate. The costs reflected on the AFE are consistent with what Catena and other operators have incurred for drilling similar horizontal wells in the area in this formation.
- 13. **Exhibit A-5** contains a chronology of the contacts with the uncommitted mineral owners Catena was able to locate. Catena has made a good faith effort to obtain voluntary joinder of these owners in the proposed wells.
- 14. Catena requests overhead and administrative rates of \$8,000 per month for drilling and \$800 per month for a producing well. These rates are consistent with the rates charged by Catena and other operators for similar wells in this area.

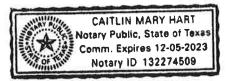
- 15. I have provided the law firm of Holland and Hart, LLP, with the names and addresses (where available) of the mineral owners that Catena seeks to pool and instructed that they be notified of this hearing.
- 16. Exhibits A-1 through A-5 were prepared by me or compiled under my direction from company business records.

FURTHER	AFFIAN'	CSAVETH	NALIGHT
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ROBERT SWANN

STATE OF TEXAS)
)
COUNTY OF BEXAR)

SUBSCRIBED and SWORN to before me this 4th day of AUDIST 2020 by Robert Swann.



NOTARY PUBLIC

My Commission Expires:

15155528_v1

District I 1628 N. French Dr. Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-6720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Azice, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S., St. Francis Dr., Santo Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

.,,,,,	API Numb			LOCATION AND ACREAGE DEDIC Pool Code 970			e amp				
4 Property	⁴ Property Code			-			Property Name 'Well Numb Ball 183529 111				
	*OGRID No. 328449		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(-	Operator Name *Elevation esources Operating, LLC					
		***************************************			"Surface Lo	ocation			SAUGRE III		
L or lot no.	Section 32	Township 18 S	Range 35 E	l.ot ldn	Feet from the 190'	North/South line North	Feet from the 1250'	Enst/West line Enst	County Lea		
			" Bott	om Hole	Location If I	Different From	Surface				
I. or lot no.	Section 20	Township 18 S	Runge 35 E	Lot Idn	Feet from the 100'	North/South line North	Feet from the 1250'	East/West line East	Cuunty Les		
Dedicated Acres	" Joint or	Infill 14 Co	nsolidation Co	ode 18 Order	r 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.

	7	1						ODED ATOD CERTIFIC ATTOM
NWNW	NENW	NWNE	NENE	BHL & 100' FN 1250' F	VL	NWNE	NENE	19 OPERATOR CERTIFICATION I hereby certify that the informationantained herein is trine and complete to the best of my knowledge and belief, and that this organization either owns a working interwor unleased mineral interest in the land melading the proposed bottom hole location onth a right to deilt this well ahis
SWNW	SENW	SWNE	SENE	SWNW	SENW	SWNE	 SENE 	location pursuant to a contract with an owner of such a moneral or work interest, or to exclusion pooling agreement or anapulsor, pooling order lucrestatement by the division
NWSW	NESW	NWSE	NESE	NWSW	NESW	NWSE	NESE	Signature Bate POBERT SWAYN
swsw	SESW	 SWSE 	SESE	swsw	SESW	SWSE	SESE	Printed Name Suk 106 Caterares. Con E-mail Address
NWNW	NENW	NWNE	NENE	NWNW	 NENW	NWNE	NENE	"SURVEYOR CERTIFICATION I hereby certify that the well location shown ontheplat
SWNW	 SENW 2	SWNE	SENE	FTP 100' FSL 1250' FE	L	SWNE	SENE	was plotted from field notes of actual surveys made by me or under my supervisionand that the same is true and correct to the best of my belief.
NWSW	NESW	NWSE	NESE	S-29, 185	S,35E	NWSE	NESE	
swsw	SHL 190' FNL 1250' FEL S-32, 185		SESE	swsw	SESW	SWSE	SESE	Date of Survey Signature and Seal of Professional Surveyor:
NWNW [NENW	NWNE	NENE	NWNW	NENW	NWNE	NENE	Certificate Number

BEFORE THE OIL CONSERVATION DIVISION

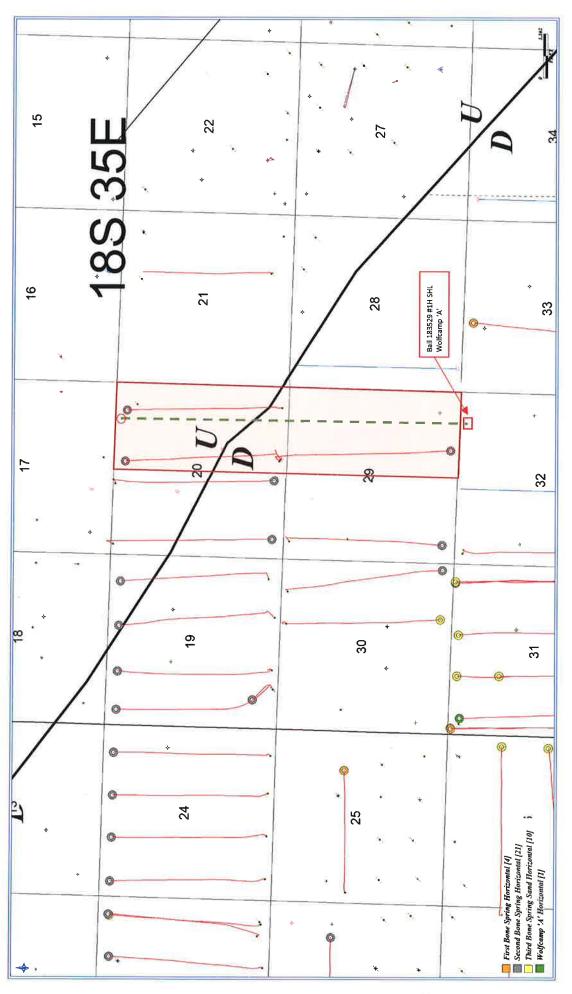
Santa Fe, New Mexico Exhibit No. A1

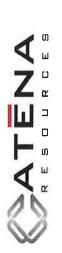
Submitted by: Catena Resources Operating, LLC

Hearing Date: August 06, 2020 Case No. 21355

Ball 183529 #1H

Locator Map





BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A2

Submitted by: Catena Resources Operating, LLC
Hearing Date: August 06, 2020
Case No. 21355

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Catena Resources Operating, LLC Ball 183529 1H - Wolfcamp Case No. 21355

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:NE	NWNW	NENW	NWNE	NENE	NWNW	NENW	 	
NE	SWNW	SENW	SWNE	SENE	SWNW I	senw	SWNE	
:SE	NWSW	NESW	NWSE	NESE	NWSW 	NESW	 NWSE 	
:SE	swsw	SESW	SWSE	SESE	swsw	SESW	 SWSE 	
:NE	NWNW	NENW	NWNE	NENE	 NWNW	NENW	 NWNE 	
NE	SWNW	SENW	SWNE	SENE	SWNW I	SENW	SWNE	
SE	NWSW	NESW	NWSE	NAE	NWSW	NESW	8	
SE	swsw	SESW	3 swse	SESE	swsw	SESW	SWSE	
NE 	NWNW	NENW	NWNE	NENE	BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico NWN\ Exhibit No. A3 Submitted by: Catena Resources Operating, LLC Hearing Date: August 06, 2020 Case No. 21355			

Unit Size	Ball 183529 1H - Wolfcamp - Case No. 21355						
640	Bail 183529 1H - Wolfcamp - Case No. 21355						
WI Owner	Tract	Tract	Tract	Tract			
Wi Owner	No	Gross	WI	NMA			
Catena Resources Operating	1	320	87.50%	280.000			
T.H. McElvain Oil & Gas, LLLP	1	320	12.50%	40.000			
Marathon Oil Permian LLC	3	320	100.00%	320.000			
Tract Totals	Tract Totals						

WI Owner	Unit WI	Unit NMA
Catena Resources Operating	43.75%	280.000
T.H. McElvain Oil & Gas, LLLP	6.25%	40.000
Marathon Oil Permian LLC	50.00%	320.000
Unit Totals	100.00%	640.000

*



June 10, 2020 Via Certified Mail

Re:

Ball 183529 1H Well Proposal

Wolfcamp Formation

E2 of Section 20 T18S, 35E, and Section 29, T18S, R35E

Lea County, New Mexico

Ball 183529 2H Well Proposal

Bone Springs Formation

E2 of Section 20 T18S, 35E, and Section 29, T18S, R35E

Lea County, New Mexico

Ladies and Gentlemen,

Catena Resources Operating, LLC ("Catena") as Operator hereby proposes to drill the following wells to a depth sufficient to test the Wolfcamp and Bone Spring formations:

Well Name	SHL	BHL	Spacing Unit	Target	Estimated
	Sec. 32	Sec. 20	640 Acres	TVD	TMD
Ball 183529 1H Wolfcamp Formation	FNL: 190' FEL: 1250'	FNL: 100' FEL: 1250'	E/2 of Section 20, T18S, 35E and E/2 of Section 29, T19S, R35E	9,755'	20,469′
Ball 183529 2H Bone Spring Formation	FNL: 190' FEL: 1350'	FNL: 100' FEL: 1250'	E/2 of Section 20, T18S, 35E and E/2 of Section 29, T19S, R35E	9,570'	20,284'

These proposed locations and target depths are subject to change depending on any surface or subsurface concerns encountered.

Regarding the above, enclosed for your further handling are our AFE's dated April 16, 2020 for the proposed wells. The AFE's represent an estimate of the costs that will be incurred to drill and complete the wells, but those electing to participate in the wells are responsible for their proportionate share of the actual costs incurred. In the event you elect to participate in the proposed wells, please execute the enclosed AFE's and return to me. We are happy to furnish you with a proposed Joint Operating Agreement upon request. Please respond within 30 days of receiving this notice. If you do not wish to participate, Catena proposes to acquire your interest via term assignment subject to due diligence and title verification satisfactory to Catena.

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Should you have any questions regarding the above, please email me at rswann@catenares.com or call me at (210) 775-6993.

Sincerely,

Catena Resources Operating, LLC

Robert Swann

Land Manager



WELL NAME: RELD NAME: LOCATION: COUNTY / ST: OBJECTIVE:

Ball 183529 1H

2.0 sec. lateral, Lea County, NM Wolfcamp

DATE: START DATE: COMPLETE DATE: ORIGINAL: SUPPLEMENT:

16-Apr-20

INTANG	IBLE COSTS		CODE	DRILLING - 310XX	ACCT CODE	COMPLETION - 320XX		ACCT	FACILITIES - 330XX	TOTAL
Legal Fees / Title Opinion			31001	\$50,000	32001	\$0		33001	\$0	\$50,00
Surveys / Staking / Permits / Bonds /	Regulatory		31002	\$25,700	32002	\$0		33002	\$0	\$25,70
ROW / Surface Damages			31003	\$60,000	32003	\$0			\$0	\$60,00
Roads & Location / Reserve Pit - Con			31004	\$90,000	32004	\$0			\$0	\$90,0
Roads & Location / Reserve Pit - Recl	laimation		31005		32005	\$0			\$0	- 3
Frac Pond			31006		32006	\$0			\$0	
Sate Guard Mouse / Rathole / Conductor			31007 31008	\$19,000	32007	\$0			\$0	P40.0
Mobilization / Demobilization			31008	\$230,675	32008	\$0 \$0			\$0 \$0	\$19,0 \$230,6
Orilling - Daywork			31010	\$574,646	32000	\$0			\$0	\$574,6
Orilling - Footage			31011	40.10		\$0			50	\$51.4,5
Orilling - Turnkey			31012			\$0			50	
Completion / Snubbing / Workover Ur	nit		31013		32009	\$40,000			\$0	\$40,0
Trailer House / Communications			31014	\$43,572	32010	\$24,200			\$0	\$67,7
Orill Bits			31015	\$103,000	32011	\$0			\$0	\$103,0
Directional Equipment / Gyro Surveys	3		31016	\$266,326	32012	\$0			\$0	\$266,3
Downhole Tool / Stabilization Rental Mud / Chemicals			31017 31018	\$57,075 \$222,558	32013 32014	\$34,000 \$601,500			\$0	\$91,0
uel / Power			31019	\$116,482	32015	\$471,800	-		\$0 \$0	\$824,0 \$588,2
Vater Supply Well, equipment			31020	\$3,603	32016	\$0	-		\$0	3300,2
Vater / Water Hauling			31021	45,003	32017	\$816,550			\$0	\$816,5
Offsite Water & Cuttings Disposal			31022	\$284,770	32018	\$30,500			\$0	\$315,2
ransportation / Hauling			31023	\$31,000	32019	\$0	1	33009	\$15,000	\$46.0
spection / Tubular Testing			31024	\$101,000	32020	\$0			\$0	\$101,0
aydown Machine / Casing Crew / Tor			31025	\$62,190	32021	\$0	A .		\$0	\$62,1
ementing, Roat Equipment & Servic	es		31026	\$65,072	32022	\$0			\$0	\$65,0
fud Logging			31027	\$35,343		\$0			\$0	\$35,3
ogging - Open Hole			31028		32023	\$12,000			\$0	240.4
ogging - Cased Hole oring & Analysis, Drill Stem Test			31029 31030		32024	\$13,000			\$0 \$0	\$13,0
erforating			31030		32025	\$421,200			\$0 \$0	\$421,2
Vireline / Slickline Services			31031		32025	\$15,000			\$0	\$15,0
quipment Rental			31033	\$163,809	32027	\$236,000			\$0	\$399,8
umping Services/Rental			31034		32028	\$21,000			\$0	
cidizing & Fracturing			31035		32029	\$2,479,000			\$0	\$2,479,0
oil Tubing Unit			31036		32030	\$120,000			\$0	\$120,0
low Testing, Swabbing			31037		32031	\$95,875			\$0	\$95,8
shing / Sidetrack Services			31038		32032	\$0			\$0	
lipple Up / BOPE Testing			31039	\$6,400	32033	\$23,000			\$0	\$29.4
verhead			31040	\$8,000	32034	\$19,500			\$0	\$27,5
Vellsite Consulting Services/Supervi			31041 31042	\$170,628	32035	\$153,950		33003	\$20,000	\$344,5
ingineering / Geological / Lab Service toustabout / Contract Labor	a iracers and day	liiosucs	31042	\$25,000 \$8,480	32036 32037	\$35,500 \$0		33004	\$15,000 \$160,000	\$75,5 \$168,4
Velding Services			31043	\$5,120	32038	\$0		33004	\$100,000	\$100,4
nsurance			31045	\$10,000	32039	\$0		33005	\$0	\$10,0
liscellaneous			31046	C 70,000	32040	\$0		33006	\$0	*10,0
& A Costs									661	
			31047		32041	\$0			\$0	
Safety / EH&S			31047 31048		32041 32042	\$0 \$6,610		33007	\$0	
Safety / EH&S i.5% Contingency (8% Taxes on Casin	ng included in casi	ing cost)	31047 31048 31049	\$141,973	32041 32042 32043	\$6,610 \$6,610 \$311,200		33007	\$0 \$10,500	\$6,6 \$463,6
iafety / EH&S .5% Contingency (8% Taxes on Casin ION-Op Drilling Intangible	ng included in casìi	ing cost)	31047 31048 31049 31050	\$141,973	32041 32042 32043 32044	\$6,610 \$6,610 \$311,200 \$0			\$0 \$10,500 \$0	
afety / EH&S .5% Contingency (8% Taxes on Casin ION-Op Drilling Intangible ipeline Installation / Interconnect	ng included in casi	ing cost)	31047 31048 31049	\$141,973 \$2,981,422	32041 32042 32043	\$6,610 \$6,610 \$311,200		33007	\$0 \$10,500	\$463,6
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAL	NGIBLE COSTS	ing cost)	31047 31048 31049 31050 31051	\$2,981,422	32041 32042 32043 32044 32045	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385		33008	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAL	NGIBLE COSTS		31047 31048 31049 31050		32041 32042 32043 32044	\$0 \$6,610 \$311,200 \$0 \$0			\$0 \$10,500 \$0 \$0	\$463,6
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAL	NGIBLE COSTS	ring cost)	31047 31048 31049 31050 31051 ACCT CODE	\$2,981,422	32041 32042 32043 32044 32045	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3
afety / EH&S .5% Contingency (8% Taxes on Casin On-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAL TANGE	NGIBLE COSTS LE COSTS Size		31047 31048 31049 31050 31051 ACCT CODE	\$2,981,422 DRILLING - 311XX	32041 32042 32043 32044 32045	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAL TANGE	NGIBLE COSTS LE COSTS Size 13 3/8"		31047 31048 31049 31050 31051 ACCT CODE 31101 31102	\$2,981,422 DRILLING - 311XX \$68,600	32041 32042 32043 32044 32045	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL \$68,6
afety / EH&S 5% Contingency (8% Taxes on Casin 0%-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGEI onductor urface Casing st Intermediate Casing / Liner	NGIBLE COSTS LE COSTS Size		31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103	\$2,981,422 DRILLING - 311XX	32041 32042 32043 32044 32045	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL \$68,6
afety / EH&S 5% Contingency (8% Taxes on Casin 0% Contingency (8% Taxes on Casin 0% Contingency (8% Taxes on Casin 0% ToTAL INTAL TANGBI onductor urface Casing st Intermediate Casing / Liner nd Intermediate Casing / Liner	NGIBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8"		31047 31048 31049 31050 31051 ACCT CODE 31101 31102	\$2,981,422 DRILLING - 311XX \$68,600	32041 32042 32043 32044 32045	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2
afety / EH&S 5% Contingency (8% Taxes on Casin 0% Contingency (8% Taxes on Casin 0% Contingency (8% Taxes on Casin 0% Contingency (1% Taxes on Casin 0% Taxes on Taxe	NGIBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8"	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103	\$2,981,422 DRILLING - 311XX \$68,600	32041 32042 32043 32044 32045 ACCT CODE	\$0 \$8,610 \$311,200 \$0 \$0 \$5,969,385		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2
afety / EH&S .5% Contingency (8% Taxes on Casin .5% Contingency (8% Taxes on Casin .00 Po Prilling Intangible ipeline Installation / Interconnect	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103	\$2,981,422 DRILLING - 311XX \$68,600	32041 32042 32043 32044 32045 ACCT CODE	\$0 \$8,610 \$311,200 \$0 \$0 \$5,969,385 COMPLETION - 321XX		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0
afety / EH&S .5% Contingency (8% Taxes on Casin .5% Contingency (8% Taxes on Casin .00~Op Drilling Intengible ipeline Installation / Interconnect	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103	\$2,981,422 DRILLING - 311XX \$68,600	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385 COMPLETION - 321XX		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGEI onductor urface Casing st Intermediate Casing / Liner ad Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc.	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105	\$0 \$8,610 \$311,200 \$0 \$0 \$5,969,385 COMPLETION - 321XX \$430,000 \$61,425 \$31,200		33008 ACCT	\$0 \$10,500 \$0 \$0 \$220,500	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0
afety / EH&S .5% Contingency (8% Taxes on Casin .5% Contingency (8% Taxes on Casin .0% Dy Drilling Intangible ipeline Installation / Interconnect	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103	\$2,981,422 DRILLING - 311XX \$68,600	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106	\$0 \$8,610 \$311,200 \$0 \$5,969,385 \$5,969,385 \$0 \$430,000 \$430,000 \$61,425 \$31,200 \$27,000		ACCT CODE	\$0 \$10,500 \$0 \$0 \$220,500 FACILITIES - 331XX	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intengible ipeline Installation / Interconnect TOTAL INTAI TANGBI onductor urface Casing st Intermediate Casing / Liner nd Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. /eilhead Equipment umping Unit / Prime Mover / Base	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385 COMPLETION - 321XX \$430,000 \$61,425 \$31,200 \$27,000		33008 ACCT CODE	\$0 \$10,500 \$0 \$0 \$220,500 FACILITIES - 331XX	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGEI onductor urface Casing st Intermediate Casing / Liner and Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. //ellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108	\$0 \$8,610 \$311,200 \$0 \$5,969,385 COMPLETION - 321XX \$430,000 \$61,425 \$31,200 \$27,000 \$0 \$0		33008 ACCT CODE	\$0 \$10,500 \$0 \$0 \$220,500 FACILITIES - 331XX	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0
afety / EH&S .5% Contingency (8% Taxes on Casin .5% Contingency (8% Taxes on Casin .0% Dy Drilling Intangible ipeline Installation / Interconnect	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2: 2.875 10	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107	\$0 \$6,610 \$311,200 \$0 \$0 \$5,969,385 COMPLETION - 321XX \$430,000 \$61,425 \$31,200 \$27,000		33008 ACCT CODE	\$0 \$10,500 \$0 \$0 \$220,500 FACILITIES - 331XX	\$463,6 \$9,171,3 TOTAL \$66,6 \$113,2 \$430,0 \$61.4 \$31.2 \$79,0
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANG Bi onductor urface Casing st Intermediate Casing / Liner nd Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. //elihead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rificial Lift Other - Gas Lift /elihead Equipment completions - Pr	NGBLE COSTS LE COSTS Size 1 13 3/8" 9 5/8" 5 1/2" 2: 2.875 10	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32108	\$0 \$6,610 \$311,200 \$0 \$5,969,385 COMPLETION - 321XX \$430,000 \$430,000 \$51,425 \$31,200 \$27,000 \$0 \$14,000		33008 ACCT CODE 33101 33102 33103	\$0 \$10,500 \$0 \$0 \$220,500 FACILITIES - 331XX	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$14,0 \$42,0
afety / EH&S .5% Contingency (8% Taxes on Casin .5% Contingency (8% Taxes on Casin .5% Contingency (8% Taxes on Casin .70 Contingency (8% Taxes on Casin .70 Contingency (1) Contingency .70 Contingency (1) Contingency .70 Contingency (1) Contingency .70 Contingency (1) Contingency .70 C	NGBLE COSTS Size 1	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112	\$0 \$6,610 \$311,200 \$0 \$5,969,385 COMPLETION - 321XX \$430,000 \$430,000 \$51,425 \$31,200 \$27,000 \$0 \$14,000 \$42,000 \$0 \$0		33101 33102 33103 33104 33106	\$0 \$10,500 \$0 \$20,500 \$220,500 FACILITIES - 331XX	\$463,6 \$8,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$42,0 \$66,0
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGE onductor urface Casing st Intermediate Casing / Liner nd Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. //elihead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift Other - Gas Lift //elihead Equipment Completions - Pr anks / Tank Steps / Stairs as Treating / Dehydration Equipment eparation Equipment, Heater Treater	NGBLE COSTS Size 1	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32111 32112 32113	\$0 \$6,610 \$311,200 \$0 \$5,969,385 \$5,969,385 \$61,425 \$31,200 \$27,000 \$27,000 \$42,000 \$42,000 \$0 \$0 \$0 \$0		33101 33102 33104 33105 33106 33106 33107	\$0 \$10,500 \$0 \$0 \$220,500 FACILITIES - 331XX	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$42,0 \$66,0
afety / EH&S 5% Contingency (8% Taxes on Casin 5% Contingency (8% Taxes on Casin 6N-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGEI onductor urface Casing st Intermediate Casing / Liner and Intermediate Casing / Liner roduction Casing / Liner asing Tie Back ner Hanger Assembly ubing asing Equipment - OHMS / Etc. relilhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars tificial Lift Other - Gas Lift relilhead Equipment Completions - Pr sinks / Tank Steps / Stairs as Treating / Dehydration Equipment paration Equipment, Heater Treater urface Pumps	NGBLE COSTS Size 1	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32111 32112 32113 32114	\$0 \$6,610 \$311,200 \$5,969,385 \$5,969,385 COMPLETION - 321XX \$430,000 \$11,200 \$27,000 \$0 \$44,000 \$42,000 \$0 \$0 \$0 \$0 \$0		333008 ACCT CODE 333101 ACCT 333102 ACCT 333103 ACCT 333104 ACCT 333105 ACCT 333106 ACCT ACCT ACCT ACCT ACCT ACCT ACCT ACC	\$0 \$10,500 \$0 \$20,500 \$220,500 FACILITIES - 331XX \$0 \$0 \$0 \$66,000 \$68,200 \$3,000	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$42,0 \$66,0 \$66,0 \$33,0
afety / EH&S .5% Contingency (8% Taxes on Casin .5% Contingency (8% Taxes on Casin .0N-Op Drilling Intangible ipeline Installation / Interconnect	NGBLE COSTS Size 1	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32115	\$0 \$6,610 \$311,200 \$0 \$5,969,385 \$5,969,385 \$5,969,385 \$430,000 \$430,000 \$61,425 \$31,200 \$27,000 \$27,000 \$44,000 \$42,000 \$40,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		ACCT 200E 333101 33102 33103 33104 33105 33106 33106 33107 33108 33108 33109	\$0 \$10,500 \$0 \$20,500 \$220,500 FACILITIES - 331XX \$0 \$0 \$6,000 \$66,000 \$68,200 \$3,000 \$0 \$0	\$463,6 \$8,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$66,0 \$66,0 \$66,0
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGEI onductor urface Casing st Intermediate Casing / Liner noductor casing / Liner noduction Casing / Liner roduction Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. //elihead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift Other - Gas Lift //elihead Equipment Completions - Pr anks / Tank Steps / Stairs as Treating / Dehydration Equipment paration Equipment, Heater Treater urface Pumps liters ultdings	NGBLE COSTS Size 1 13 3/8" 9 5/8"	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 32104 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32115 32116	\$0 \$6,610 \$311,200 \$0 \$5,969,385 \$5,969,385 \$5,969,385 \$61,425 \$31,200 \$27,000 \$27,000 \$42,000 \$42,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		333008 ACCT CODE 333101 ACCT CODE 333101 ACCT CODE 333102 ACCT CODE 333103 ACCT CODE 333105 ACCT CODE 333106 ACCT CODE 333106 ACCT CODE 333107 ACCT CODE 333108 ACCT CODE 333109 ACCT CODE 333100	\$0 \$10,500 \$0 \$0 \$220,500 FACILITES - 331XX \$0 \$0 \$0 \$66,000 \$66,200 \$3,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$42,0 \$66,0 \$68,2 \$33,0
afety / EH&S .5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGEI onductor urface Casing st Intermediate Casing / Liner and Intermediate Casing / Liner roduction Casing / Liner asing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. / fellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars trificial Lift Other - Gas Lift / fellhead Equipment Completions - Pr anks / Tank Steps / Stairs as Treating / Dehydration Equipment paration Equipment, Heater Treater urface Pumps liters uidings terconnect Piping / Manifolds / Head terconnect Piping / Manifolds / Head terconnect Piping / Manifolds / Head	NGBLE COSTS Size 1 13 3/8" 9 5/8"	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32111 32112 32111 32112 32113 32114 32115 32116 32116	\$0 \$6,610 \$311,200 \$5,969,385 \$5,969,385 COMPLETION - 321XX \$430,000 \$11,200 \$27,000 \$0 \$14,000 \$42,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		ACCT CODE ACCT CODE ACCT 333101 333101 333102 33103 33104 33105 33106 33108 33107 33108 331101	\$0 \$10,500 \$0 \$20,500 \$220,500 FACILITIES - 331XX \$0 \$0 \$6,000 \$0 \$68,200 \$3,000 \$0 \$60,000	\$463,6 \$8,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4,0 \$42,0 \$66,0 \$66,0
afety / EH&S .5% / Contingency (8% Taxes on Casin .5% Contingency (1) Taxes .5% Contingency (1) .5% Contingency (1) Taxes .5% Contingency (1) .5% Co	NGBLE COSTS Size	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32115 32116 32117 32116	\$0 \$6,610 \$311,200 \$0 \$5,969,385 \$5,969,385 \$5,969,385 \$61,425 \$12,000 \$27,000 \$27,000 \$44,000 \$42,000 \$42,000 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50		333101 333101 333102 333103 333105 33106 33109 331108 331109 331101 331111	\$0 \$10,500 \$0 \$220,500 FACILITIES - 331XX \$0 \$0 \$0 \$66,000 \$68,200 \$0 \$6,000 \$0 \$66,000 \$0 \$66,000 \$0 \$66,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$463,6 \$8,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$66,0 \$66,0 \$68,2 \$3,0
afety / EH&S . 5% Contingency (8% Taxes on Casin ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAI TANGES conductor urface Casing st Intermediate Casing / Liner reduction	NGBLE COSTS Size	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 32104 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32111 32112 32113 32114 32115 32116 32117 32118 32118	\$0 \$6,610 \$311,200 \$0 \$5,969,385 \$5,969,385 \$5,969,385 \$61,425 \$31,200 \$27,000 \$27,000 \$42,000 \$42,000 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		333008 ACCT CODE 333101 ACCT CODE 333101 ACCT CODE 333102 ACCT CODE 333103 ACCT CODE 333104 ACCT CODE 333105 ACCT CODE 333106 ACCT CODE 333106 ACCT CODE 333107 ACCT CODE 333110	\$0 \$10,500 \$0 \$0 \$220,500 FACILITES - 331XX \$0 \$0 \$0 \$66,000 \$0 \$60,000 \$46,960 \$16,000	\$463,6 \$9,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$66,0 \$66,0 \$66,0 \$66,0 \$42,0 \$66,0 \$66,0 \$16,0
afety / EH&S ON-Op Drilling Intangible ipeline Installation / Interconnect TOTAL INTAL TANGBI conductor urface Casing st Intermediate Casing / Liner roduction Casing / Liner roduction Casing / Liner roduction Casing / Liner rasing Tie Back iner Hanger Assembly ubing asing Equipment - OHMS / Etc. //ellhead Equipment umping Unit / Prime Mover / Base ods / Pony Rods / Sinker Bars rtificial Lift Other - Gas Lift //ellhead Equipment Completions - Pr anks / Tank Steps / Stairs as Treating / Dehydration Equipment paration Equipment, Heater Treater urface Pumps liters uididings terconnect Piping / Manifolds / Head owlines / Connections / Valves utornation / Instruments / Controls / / ectrical Equipment (Senerators)	NGBLE COSTS Size	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 ACCT CODE 32101 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32112 32113 32114 32115 32116 32117 32118 32116 32117 32118 32118 32118 32118 32119 32120	\$0 \$6,610 \$311,200 \$0 \$5,969,385 \$5,969,385 \$5,969,385 \$61,425 \$12,000 \$27,000 \$27,000 \$44,000 \$42,000 \$42,000 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50		333101 333101 333102 333103 333105 33106 33109 331108 331109 331101 331111	\$0 \$10,500 \$0 \$220,500 FACILITIES - 331XX \$0 \$0 \$0 \$6,200 \$3,000 \$68,200 \$46,960 \$16,000 \$46,960 \$16,000 \$52,000	\$463,6 \$8,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$66,0 \$66,0 \$68,2 \$3,0 \$60,0 \$46,9 \$16,0
afety / EH&S ON-Contingency (8% Taxes on Casin ON-Cop Drilling Intangible ipeline Installation / Interconnect TOTAL INTAL TANGEL TAN	NGBLE COSTS Size	Feet \$/Pt	31047 31048 31049 31050 31051 ACCT CODE 31101 31102 31103 31104	\$2,981,422 DRILLING - 311XX \$68,600 \$113,200	32041 32042 32043 32044 32045 32104 32102 32103 32104 32105 32106 32107 32108 32109 32110 32111 32111 32112 32113 32114 32115 32116 32117 32118 32118	\$0 \$6,610 \$311,200 \$5,969,385 \$5,969,385 \$5,969,385 \$61,425 \$31,200 \$27,000 \$14,000 \$42,000 \$42,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		333008 ACCT CODE 333101 33102 33103 33104 33106 33106 33108 33109 33110 33111 33112 33113	\$0 \$10,500 \$0 \$220,500 FACILITIES - 331XX \$0 \$0 \$0 \$66,000 \$68,200 \$0 \$68,200 \$0 \$66,000 \$16,000 \$16,000 \$16,000 \$52,000 \$52,000 \$0	\$463,6 \$8,171,3 TOTAL \$68,6 \$113,2 \$430,0 \$61,4 \$31,2 \$79,0 \$66,0 \$66,0 \$66,0 \$16,0 \$16,0 \$52,0
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Catena Resources Operating, LLC – Discussion Timeline

<u>Wells</u> Ball 183529 1H

Catena's conversations with Marathon began on December 6, 2019. From that time on, multiple emails, phone calls, proposals and letters were exchanged. The main contact at Marathon is Jeff Broussard and as of August 3, 2020, dealings with Marathon are ongoing.

Case No. 21355

APPLICATION OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO

CASE NOS. 21355

AFFIDAVIT OF VINCE SMITH

Vince Smith, of lawful age and being first duly sworn, declares as follows:

1. My name is Vince Smith. I work for Catena Resources Operating, LLC ("Catena")

as a Geologist.

2. I have previously testified before the New Mexico Oil Conservation Division as an

expert witness in petroleum geology. My credentials as a petroleum geologist have been accepted

by the Division and made a matter of record.

3. I am familiar with the application filed by Catena in this matter and I have

conducted a geologic study of the lands in the subject area.

4. Catena is initially targeting the 'A' interval of the Wolfcamp formation. Exhibit

B-1 is a subsea structure map that I prepared for this interval with 25-foot contours. The proposed

horizontal well spacing unit is highlighted in red and the initial well is depicted with a dashed line.

The structure map shows the Wolfcamp formation dipping gently to the south. The dark line between

the notations "D" and "U" represents a deeper structure that caused the shallower formations to sit

high. The notations "D" and "U" refer to "downthrown" and "upthrown" side of the deep structure

faulting. The structure appears consistent across the proposed spacing unit and I do not observe

any faulting, pinch outs, or other geologic impediments to drilling horizontal wells in this area.

5. **Exhibit B-1** also shows a cross-section line in red running north to south reflecting

four wells penetrating the Wolfcamp formation that I used to construct a stratigraphic cross-section

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

from A to A'. These wells contain good logs and I consider them representative of the geology in

the subject area.

6.

Exhibit B-2 is a stratigraphic cross-section that I prepared using the logs from the

wells noted on Exhibit B-1. Three of the four wells in the cross-section contains the gamma ray

in the first track, resistivity in the second track and porosity curves in the third track. The initial

target interval is labeled and marked. The cross-section demonstrates that the targeted interval is

continuous across the proposed spacing unit.

7. Based on my geologic study, the Wolfcamp formation underlying the subject area

is suitable for development by horizontal wells and the acreage comprising the proposed spacing

unit will be productive and contribute proportionately to the production from the well.

8. **Exhibit B-3** shows the orientation of the wells drilled in the Wolfcamp and Bone

Spring formations in the surrounding area. The stand-up orientation of the proposed well is the

preferred orientation for horizontal well development in this area and is appropriate to efficiently

and effectively develop the subject acreage.

9. In my opinion, the granting of Catena's application is in the best interest of

conservation, the prevention of waste, and protection of correlative rights.

10. Exhibits B-1 through B-3 were either prepared by me or compiled under my

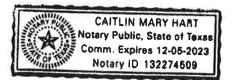
direction and supervision.

FURTHER AFFIANT SAYETH NOT

VINCE SMITH

STATE OF TEXAS)
COUNTY OF BEXAR)

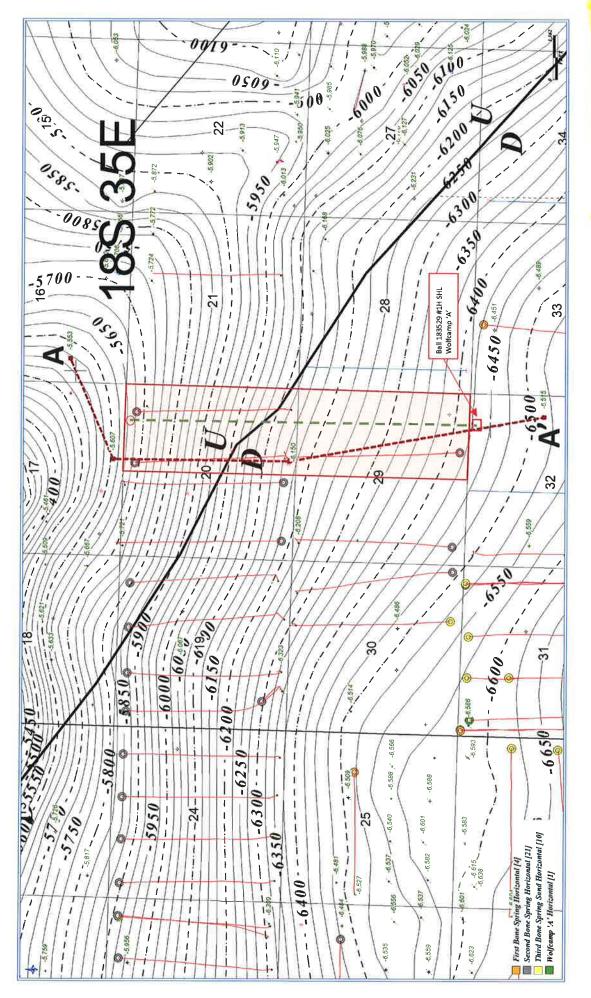
SUBSCRIBED and SWORN to before me this ______day of _______2020 by Vince Smith.



My Commission Expires:

Wolfcamp 'A'







Contour Interval = 25'

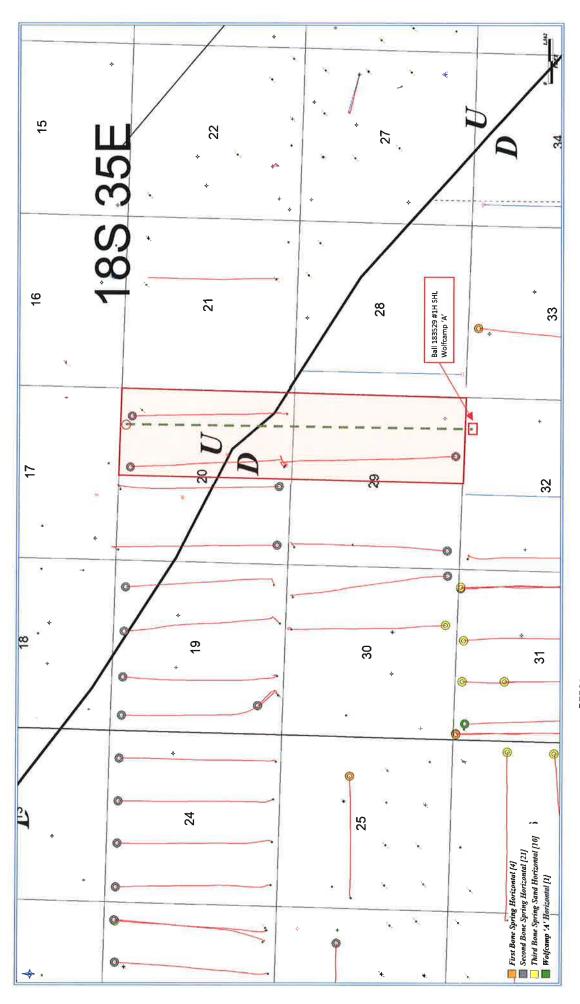
Santa Fe, New Mexico
Santa Fe, New Mexico
Exhibit No. B1
Submitted by: Catena Resources Operating, LLC
H Hearing Date: August 06, 2020
Case No. 21355

À 300252[§]3360000 PEOPLES '32' STATE #2 SOUTHLAND ROYALTY CO ELEV_KB : 3,931 00101 <8,057FT> IRONHOUSE 20 STATE #1H CATENA RESOURCES OP ELEV_KB:3,954 3002540e117000 0066 00101 00201 00601 0046 0086 00001 <5,283FT> 30025417570000 BARBARO STATE #2 MACK ENERGY CORP ELEV_KB: 3,959 0016 0076 0046 0086 0056 0086 Wolfcamp 'A' Datum <3,359FT> 30025293470000 MARALO 'SV' 16 STATE #1 MARALO LLC ELEV_KB : 3,942 0096 0076 00,86 0076 0046 0066 0016 0086 œ ⊐ Cross Section Third Bone Spring Sand Wolfcamp 'A' BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. B2 Submitted by: Catena Resources Operating, LLC

Hearing Date: August 06, 2020 Case No. 21355

Ball 183529 #1H

Locator Map





BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. B3

Submitted by: **Catena Resources Operating, LLC** Hearing Date: August 06, 2020 Case No. 21355

APPLICATIONS OF CATENA RESOURCES OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

CASE NOS. 21355

AFFIDAVIT

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

Michael H. Feldewert, attorney in fact and authorized representative of Catena Resources 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.

Michael H. Feldewert

SUBSCRIBED AND SWORN to before me this 4th day of August, 2020 by Michael H.

Feldewert.

Notary Public

My Commission Expires:

Nov. 12, 2023



Case No. 21355



Michael H. Feldewert Phone (505) 988-4421 Fax (505) 983-6043 mfeldewert@hollanhart.com

July 17, 2020

<u>VIA CERTIFIED MAIL</u> CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Application of Catena Resources Operating, LLC for Compulsory Pooling, Lea

County, New Mexico. Ball 183529 1H Well

Ladies & Gentlemen:

This letter is to advise you that COG Operating Inc. has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on August 6, 2020, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. 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 subsequently challenging this matter.

During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. To participate in the electronic hearing, see the instructions posted on the Oil Conservation Division "OCD Hearings" website at http://www.emnrd.state.nm.us/OCD/announcements.html.

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 Robert Swann at (210) 775-6993 or at rswann@catenares.com.

Sincerely,

Michael H. Feldewert

ATTORNEY FOR CATENA RESOURCES OPERATING,

LLC

Catena - Ball 1H-2H Case NOs. 21355-21356 Postal Delivery Report

Houston TX 77252 Your item was delivered at Jul 22 in HOUSTON,TX 77210.	1600 Stout Street Denver CO 80202 Delivered to Agent for Final Delivery at Jul 20 in DENVER, CO 80202.	Artesia NM 88211 Mail piece was scanned in ZIP code 88211 on Iul 27
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Houston	Denver	Artesia
in LLC P.O. Box 2069	1600 Stout Street	P.O. Box 852
Marathon Oil Permian LLC	McElvain Energy	Loy G. Fletcher
9414811898765825959773 Marathon Oil Permiar	941481189876582595919 McElvain Energy	941481189876582595957 Loy G. Fletcher