District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (573) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III Phone: (373) 458-450 Tax. (374) 11000 Rtb Brazos Road, Artee, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Sunta Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

API Number

DRAWN BY: S.F. 05-29-17

REV: 1 10-08-19 L.C.W. (BHL & NAME CHANGES)

### 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

Certificate Number:

WELL LOCATION AND ACREAGE DEDICATION PLAT

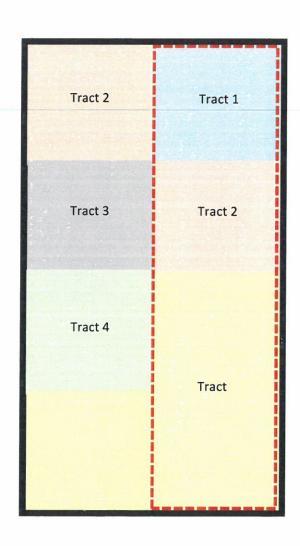
Cottonwood Draw; Bone Spring (O)

30015-44790	97494	Cottonwood Draw; Bone Spr	ing (O)	
Property Code 317791	DAVINCI 7	operty Name -18 FEDERAL COM		4 Well Number 30H
10GRIB №. 215099	*0 <sub>I</sub> CIMARE	erator Name EX ENERGY CO.		<sup>9</sup> Elevation 3308.4'
		rface Location		
B Section Township 7 25S	Range Lot Idn Feet from 27E 390	the North/South line Feet from the NORTH 1430	EAST	County EDDY
	"Bottom Hole Loca	tion If Different From Surface		
O 18 25S	Range Lot Idn Feet from 27E 330	the North/South line Feet from th SOUTH 1980	e East/West line EAST	County EDDY
12 Dedicated Acres 13 Joint or Infill 320	12 Consolidation Code 15 Ore	der Na.		
	letion until all interests have be	en consolidated or a non-standard unit h	as been approved by t	the division.
Distances referenced on plat to section lines are perpendicular. Basis of Bearing is a Transverse Mentanter Projection with a Central Meridian of W103*53'00"  NAD B3 (SURFACE HOLE LOCATION). LATITUDE = 32*09'02 80" (32.150778"). LONGITUDE = 104*133.20" (104.225375"). NAD 27 (SURFACE HOLE LOCATION). LATITUDE = 32*09'02.37" (32.15058"). LONGITUDE = 104*133.20 "(104.225375"). NAD 27 (SURFACE HOLE LOCATION). LATITUDE = 104*133.20 "(104.225375"). N. 418605.38" E. 571686.47" STATE PLANE NAD 81 (N.M. EAST). N. 418547.36" E. 533503.49"  NAD 83 (LPFTP). LATITUDE = 27*0902.17 (32.150763"). LONGITUDE = 104*1338.47" (104.227352"). NAD 27 (FIRST TAKE LOCATION). LATITUDE = 32*0902.18" (32.150643"). LONGITUDE = 104*1336.86" (104.227352"). N. 418599.14" E. 574186.36" STATE PLANE NAD 83 (N.M. EAST). N. 418599.14" E. 574186.36" STATE PLANE NAD 87 (N.M. EAST). N. 418511.63" E. 532953.39"  NAD 83 (BOTTOM HOLE LOCATION). LATITUDE = 32*09721.49" (32.123604"). LONGITUDE = 104*1338.28" (104.227300"). NAD 83 (BOTTOM HOLE LOCATION). LATITUDE = 32*09721.49" (32.123604"). LATITUDE = 32*09721.49" (32.123604"). LATITUDE = 32*09721.51" (32.123844"). LONGITUDE = 104*1338.28" (104.227300"). NAD 83 (BOTTOM HOLE LOCATION). LATITUDE = 32*09721.51" (32.123844"). LONGITUDE = 104*1338.28" (104.227300"). NAD 83 (BOTTOM HOLE LOCATION). LATITUDE = 32*09721.51" (32.123844"). LONGITUDE = 104*1338.28" (104.227300"). NAD 83 (BOTTOM HOLE LOCATION). LATITUDE = 32*09721.51" (32.123844"). LONGITUDE = 104*1338.28" (104.227300"). NAD 83 (BOTTOM HOLE LOCATION). LATITUDE = 32*09721.51" (M.M. EAST). N. 408701.48 E. 531462.48" STATE PLANE NAD 83 (M.M. EAST). N. 408701.48 E. 531462.48" STATE PLANE NAD 83 (M.M. EAST). N. 408701.48 E. 531462.48"	S89:36:05 2622.33' (M R R 26	S89:36:29 W 3.50,000W 3.50	Thereby certification is true. Assorbedge and argenization enhanced mine the proposed triple to drill to a contract in gracetic line. Signature.  Signature.  Terri Si  Printed Name  tstatherm@  E-mail Address  [80 959]	COPERATOR PRIFICATION IN the the information contain and complete to the best of my d belief, and that this wither awns a working interest roll interest in the land wichid bottom hole location or he as a his well at this location gursue with an owner of such entire treest, or to devolutely pooling to compact on the compact of the comp
	KE POINT M HOLE LOCATION		I hereby certify on this plat was actual surveys is supervision, and correct to the b.  Date of Survey Signature and Se	SURVEYOR RETIFICATION that the well location shown is hoteled prince in pleate after my of that the set of node by me or under my of that the same is true and eat of my belief.  Autority belief.  BUCH  MEX  OOB  OOB  OOB  OOB  OOB  OOB  OOB  O

# Da Vinci 7-18 Federal Com 29H - Wolfcamp

E/2 of Section 7, Township 25 South, Range 27 East, Eddy County, NM E/2 of Section 18, Township 25 South, Range 27 East, Eddy County, NM

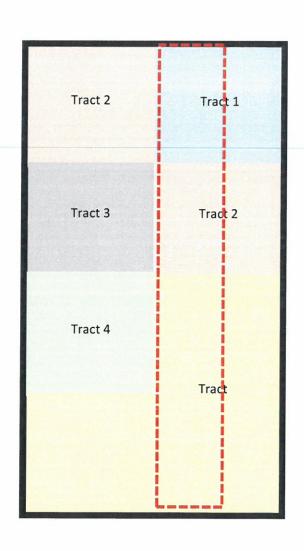
ORRI Owner – Wolfcamp	Tract
Chevron USA Inc	1,2,5
EOG A Resources, Inc	1,2,5
EOG M Resources Inc	1,2,5
EOG Y Resources, Inc	1,2,5
Oxy Y-1 Company	1,2,5



# Da Vinci 7-18 Federal Com 30H – Bone Spring

# E/2 of Section 7, Township 25 South, Range 27 East, Eddy County, NM E/2 of Section 18, Township 25 South, Range 27 East, Eddy County, NM

Owner – Bone Spring	Tract	Net	Working Interest Percentage	<b>Force Pool Interest</b>
Cimarex Energy Co.	1, 2	319.285	49.944078%	No – Operator
Chevron USA Inc	5	312	48.804524%	No
TLW Investments	5	8	1.251398%	Yes
TOTAL			100%	



Cimarex Energy Co.

600 N. Marienfeld St. Suite 600 Midland, TX 79701 MAIN 432.571.7800



October 9, 2019

TLW Investment 1001 Fannin, Ste. 2020 Houston, TX 77002 Attn: Thad Montgomery Via-CMRRR

Re:

New Well Proposal - DaVinci 7-18 Fed Com 30H

W/2E/2: Section 7 & 18, Township 25 South, Range 27 East, N.M.P.M.

Eddy County, New Mexico

Dear Working Interest Owner:

Pursuant to that certain Operating Agreement dated February 1, 2019 (Initial well: DaVinci 7-18 Fed Com 29H), Cimarex Energy Co., hereby proposes to drill the DaVinci 7-18 Federal Com 30H Well at a legal location in W/2E/2 of Sections 7 & 18, Township 25 South, Range 27 East, Eddy County, New Mexico.

The intended surface hole location for the well is 390' FNL and 1430' FEL of Section 7, Township 25 South, Range 27 East, Eddy County, and the intended bottom hole location is 100' FSL and 1980' FEL of Section 18, Township 25 South, Range 27 East, Eddy County. The well is proposed to be drilled vertically to a depth of approximately 7,942' to the Harkey formation and laterally in a southerly direction within the formation to the referenced bottom hole location. Total measured depth of the well is proposed to be approximately 18,262' feet from surface to terminus.

It should be understood that compliance with topography or cultural or environmental concerns, among others, might require modification of Cimarex's intended procedure. Cimarex will advise you of any such modifications.

Enclosed, in duplicate, is our detailed AFE reflecting estimated costs associated with this proposal. If you intend to participate, please approve and return one (1) original of the enclosed AFE, as well as the Election Form attached to this proposal, to the undersigned within 30 days of receipt of this proposal. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance to Cimarex prior to commencement of drilling operations; otherwise, you will be covered by insurance procured by Cimarex and will be responsible for your share of the cost.

If you elect not to participate, please so indicate on the attached election form and return it to the attention of the undersigned at the letterhead address. Failure to elect whether or not to participate within 30 days of your receipt of this proposal will, as provided in the Operating Agreement, will be considered an election not to participate.

If you should have any questions or comments, please do not hesitate to contact the undersigned at (432) 571-7862 if you should have any questions or comments.

Respectfully,

Cimarex Energy Co. Caitlin Pierce, Landman

CP/ps UVU

## ELECTION TO PARTICIPATE DaVinci 7-18 Fed Com 30H

TLW Investments elects <b>TO</b> participate in the proposed DaVinci 7-18 Fed Com 30H.
TLW Investments elects <b>NOT</b> to participate in the proposed DaVinci 7-18 Fed Com 30H.
Dated this day of, 2019.
Signature:
Title:
If your election above is TO participate in the proposed DaVinci 7-18 Fed Com 30H, then: TLW Investments elects TO be covered by well control insurance procured by Cimarex Energy Co.
TLW Investments elects <b>NOT</b> to be covered by well control insurance procured by Cimarex Energy Co. and agrees to provide Cimarex Energy Co. with a certificate of insurance prior to commencement of drilling operations or be deemed to have elected to be covered by well control insurance procured by Cimarex Energy Co.



1			hun	an resources
2			mar	agement
3			supe	ervision not directly charged under Section $\Pi.2$ (Labor)
4			lega	I services not directly chargeable under Section II.9 (Legal Expense)
5			taxa	tion, other than those costs identified as directly chargeable under Section II.10 (Taxes and Permits)
6				paration and monitoring of permits and certifications; preparing regulatory reports; appearances before or meetings with
7				ernmental agencies or other authorities having jurisdiction over the Joint Property, other than On-site inspections; reviewing,
8				rpreting, or submitting comments on or lobbying with respect to Laws or proposed Laws.
9			nice	pretting, of submitteding confinents on or lobolying with respect to Laws or proposed Laws.
	0			
10				ges shall include the salaries or wages plus applicable payroll burdens, benefits, and Personal Expenses of personnel performing
11	ove	rhead	funct	ions, as well as office and other related expenses of overhead functions.
12				
13	1.	OV	ERH	EAD—DRILLING AND PRODUCING OPERATIONS
14				
15		As	comp	ensation for costs incurred but not chargeable under Section II (Direct Charges) and not covered by other provisions of this
16		Sec	tion II	I, the Operator shall charge on either:
17				
18			M	(Alternative 1) Fixed Rate Basis, Section III.1.B.
19				(Alternative 2) Percentage Basis, Section III.1.C.
20				
21		A.	TEC	CHNICAL SERVICES
22				
23			(i)	Except as otherwise provided in Section II.13 (Ecological Environmental, and Safety) and Section III.2 (Overhead - Major
24			,,	Construction and Catastrophe), or by approval of the Parties pursuant to Section I.6.A (General Matters), the salaries, wages,
25				related payroll burdens and benefits, and Personal Expenses for On-site Technical Services, including third party Technical
26				Services:
27				55.1166.
28				☑ (Alternative 1 – Direct) shall be charged direct to the Joint Account.
29				Anternative 1 – Directy shall be charged direct to the John Account.
30				(Alternative 2 – Overhead) shall be covered by the overhead rates
				☐ (Alternative 2 – Overhead) shall be covered by the <u>overhead</u> rates.
31				
32			(11)	Except as otherwise provided in Section II.13 (Ecological, Environmental, and Safety) and Section III.2 (Overhead - Major
33				Construction and Catastrophe), or by approval of the Parties pursuant to Section I.6.A (General Matters), the salaries, wages,
34				related payroll burdens and benefits, and Personal Expenses for Off-site Technical Services, including third party Technical
35				Services:
36				<u></u>
37				(Alternative 1 – All Overhead) shall be covered by the <u>overhead</u> rates.
38				- Company of the Comp
39				☐ (Alternative 2 – All Direct) shall be charged <u>direct</u> to the Joint Account.
40				
41				(Alternative 3 - Drilling Direct) shall be charged direct to the Joint Account, only to the extent such Technical Services
42				are directly attributable to drilling, redrilling, deepening, or sidetracking operations, through completion, temporary
43				abandonment, or abandonment if a dry hole. Off-site Technical Services for all other operations, including workover,
44				recompletion, abandonment of producing wells, and the construction or expansion of fixed assets not covered by Section
45				III.2 (Overhead - Major Construction and Catastrophe) shall be covered by the overhead rates.
46				
47		Not	withst	anding anything to the contrary in this Section III, Technical Services provided by Operator's Affiliates are subject to limitations
48				a Section II.7 (Affiliates). Charges for Technical personnel performing non-technical work shall not be governed by this Section
49		III.1	.A, bu	t instead governed by other provisions of this Accounting Procedure relating to the type of work being performed.
50				
51	B.	OV	ERHE	AD—FIXED RATE BASIS
52				
53		(1)	The	Operator shall charge the Joint Account at the following rates per well per month:
54				
55			Drill	ing Well Rate per month \$_6,500.00 (prorated for less than a full month)
56				•
57			Prod	ucing Well Rate per month \$ 650.00
58				
59		(2)	Appl	ication of Overhead—Drilling Well Rate shall be as follows:
60			1.	
61			(a)	Charges for onshore drilling wells shall begin on the spud date and terminate on the date the drilling and/or completion
62				equipment used on the well is released, whichever occurs later. Charges for offshore and inland waters drilling wells shall
63				begin on the date the drilling or completion equipment arrives on location and terminate on the date the drilling or completion
64				equipment moves off location, or is released, whichever occurs first. No charge shall be made during suspension of drilling
65				and/or completion operations for fifteen (15) or more consecutive calendar days.
66				anju

#### Authorization For Expenditure Drilling

AFE # 26820001

Company Entity Date Prepared 10/9/2019 **Exploration Region** Prospect Property Number Well Name AFF Permian Basin DA VINCI 7-18 FEDERAL COM 30H Carlsbad Bone Spring Prospect 300001-161.01 26820001 Estimated Soud **Estimated Completion** County, State Location Eddy, NM W/2E/2 of Sections 7 & 18, Township 25 South, Range 27 East, 12/1/2019 12/26/2019 Eddy County, New Mexico X New Formation Well Type Ttl Measured Depth Ttl Vetical Depth Supplement **Bone Spring** DEV 18,262 7,942 Revision

Purpose Drill and complete well

Description

Drilling Drill and complete a horizontal test. Drill to 450', set water string casing. Drill to 2070', set surface casing. Drill to 7465' (KOP). Drill curve at 12\*/100' initial build rate to +/- 90 degrees and set casing at +/- 7940' TVD and drill a +/- 9590' long lateral in the Harkey formation. Run and cement production liner. Stage frac.Drill out plugs. Run production packer, tubing and GLVs.

Intangible  Drilling Costs  Completion Costs	12	Dry Hole \$2,554,000	After Casing Point \$6,017,150	Completed Well Cost \$2,554,000 \$6,017,150
Total Intangible Cost	TO DESCRIPTION OF THE RESERVE	\$2,554,000	\$6,017,150	\$8,571,150
Tangible		Dry Hole	After Casing Point	Completed Well Cost
Well Equipment		\$340,000	\$478,000	\$818,000
Lease Equipment			\$903,250	\$903,250
Total Tangible Cost		\$340,000	\$1,381,250	\$1,721,250
Total Well Cost		\$2,894,000	\$7,398,400	\$10,292,400

#### Comments On Well Costs

1. All tubulars, well or lease equipment is priced by COPAS and CEPS guidelines using the Historic Price Multiplier.

#### Well Control Insurance

Unless otherwise indicated below, you, as a non-operating working interest owner, agree to be covered by Operator's well control insurance procured by Operator so long as Operator conducts operations hereunder and to pay your prorated share of the premiums therefore. If you elect to purchase your own well control insurance, you must provide a certificate of such insurance acceptable to Operator, as to form and limits, at the time this AFE is returned, if available, but in no event later than commencement of drilling operations. You agree that failure to provide the certificate of insurance, as provided herein, will result in your being covered by Insurance procured by Operator.

I elect to purchase my own well control insurance policy.

#### Marketing Election

Cimarex sells its gas under arm's-length contracts with third party purchasers. Such contracts may include fees. In addition, penalties may be incurred for insufficient volumes delivered over time. Should you choose to market your share of gas with Cimarex, you will be subject to all of the terms of such contracts. Upon written request to Cimarex's Marketing Department, we will share with you the terms and conditions pursuant to which gas will be sold. Failure to make an election below shall be deemed an election to market your gas with Cimarex under the terms and conditions set forth above.

I elect to take my gas in kind.
I elect to market my gas with Cimarex pursuant to the terms and conditions of its contract

#### Comments on AFE

The above costs are estimates only and anticipate trouble free operations without any foreseeable change in plans. The actual costs may exceed the estimated costs without affecting the authorization for expenditure herein granted. By approval of this AFE, the working interest owner agrees to pay its proportionate share of actual legal, curative, regulatory and well costs under term of the joint operating agreement, regulatory order or other applicable agreement covering this well.

Company	Approved By (Print Name)	Approved By (Signature)	Date
---------	--------------------------	-------------------------	------

NOTICE TO NONOPERATOR: Costs shown on this form are estimates only. By executing this AFE, the consenting party agrees to pay its proportionate share of actual costs incurred. Overhead will be charged in accordance with the Joint Operating Agreement.

10/9/2019



Description	Codes	Drilling Amount		Drilling Amount		p/Stim Amount		ion Equip Amount		mpletion Amount	Total Cos
Description	DIDC.100			Amount	STBM 100	10,000		9,000		20,000	
Roads & Location Damages	DIDC.105	140,000	£ .		Jank 100	10,000	CON.105	9,500	2 .	20,000	179,00 15,50
	DIDC.255	5,000	7		STEM.255	62,000	CONTIDO	9,300	PCOM:255	60,000	257,00
Mud/Fluids Disposal	DIDC.115	135,000		100.000	31101.233	62,000			rcom.233	60,000	563,00
Day Rale	DIDC.120	463,000	DICCIRO	100,000						-	35,00
Misc Preparation	DIDC.125	35,000	DICC.125		STIM.125	0			PCOM.125	0	75,00
Bits	1	75,000		0	311M.12.3	u			PCOM.130	0	
Fuel	DIDC.135	88,000		i ::	STIM.135	24000			PCOM.135	0	88,00
Water for Drilling Rlg (Not Frac Water)	1	5,000	DICCISS	0	2110/2133	24,000			PC.COM. 133	O.	29,00
Mud & Additives	DIDC.145	198,000							PCOM.254	0	198,00
SWD PIPED TO XEC SWD WELL		i	1						PCOM.257	0	
SWD PIPED TO 3RD PARTY SWD WELL SWD HAULED TO XEC SWD WELL									PCOM.258	0	
SWD HAULED TO 3RD PARTY SWD WELL			\$						PCOM.259	0	
	DIDC.150		DICC.140		STIM.140	227.000	CON.140	c 000	PCOM.140		200.000
Surface Rentals	DIDC.155	110,000	DICC140	0	STIM.140	237,000	CON.140	6,000	PCOM.145	36,000	389,00
Downhole Rentals Flowback Labor	OBC. 155	136,000				. 0			PCOM.141	70.000	136,00
	1		1		STIM.141	0	CON.150	42.250		28,000	28,00
Automation Labor	D.D.C.150				CTILE IFA		CON.130	43,250	PCOMETO	u <sub>j</sub>	43,25
Formation Evaluation (DST, Coring, etc.)	DIDC.160	0			STIM.150	0					21.00
Mud Logging	DIDC.170	21,000								-	21,00
Open Hole Logging	DIDC.180	0	DICCIE	£2.000						-	200.00
Cementing & Float Equipment	DIDC185	145,000		63,000	CVII.4.160	4 000			PCOM.160	-	208,00
Tubular Inspections	DIDC.190	20,000	DICC.160	5,000	STIM.160				PCOM. 180	0	29,00
Casing Crews	DIDC.195	20,000		13,000	STIM.165	0	CON.170	107.000	PCOML176	أم	33,00
Mechanical Labor	DIDC.200	15,000	DICC.170	10,000	STIML170	0		187,000		0	212,000
Trucking/Transportation	DIDC.205	25,000	DICC.175	8,000	STIM.175	4,000	CON 199	25,000		0	62,000
Supervision	DIDC210	94,000	DICC.180	16,000	STIM.180	94,000	CON.180	19,000	PCOML18G	oi	223,000
Trailer House/Camp/Catering	DIDC.280	41,000	DICC.255	6,000	STIM 280	34,000			DC0		81,000
Other Misc Expenses	DIDC220	5,000	DICC.190	0	STIM.190	15,000	CON_190	24,000	PCOM.190	0	44,000
Overhead	D10C.225	10,000	DICC.195	5,000			!	į	DC0	-	15,000
Remedial Cementing	DIDC.231	0			511M.215	0			PCOM-215	0	(
MOB/DEMOB	DIDC.240	150,000					i			Į.	150,000
Oirectional Drilling Services	DIDC245	352,000				1	- 1			1	352,000
Solids Control	DIDC.260	59,000					į		0001	1	59,000
Well Control Equip (Snubbling Services)	DIDC.265	68,000		5,000	STIM.240	109,000	1		PCOM 240	0)	182,000
Fishing & Sidetrack Services	DIDC.270	0	DICC.245	0	STIM24S	0	1		PCOM.245	0	(
Completion Rig					STIM.115	21,000	1		PCOM.135	0	21,000
Coil Tubing Services					STIM.260	448,000	Ī		PCOM260	0	448,000
Completion Logging/Perforating/Wireline	i		-		STIM 200	408,000	1		PCONI.200	0	408,000
Composite Plugs					STIM.390	108,000	1	{	PCOM:390	0	108,000
Stimulation Pumping/Chemicals/Additives/Sand	!!				STIML210	2,448,000		-	PCOM.210	0	2,448,000
Stimulation Water/Water Transfer/Water Storage			ı		5ΠM2395	402,000		Ì		1	402,000
Cimarex Ovmed Frac/Rental Equipment					STIM.30S	40,000	i	į	PCOM.305	o;	40,000
Legal/Regulatory/Curative	DIDC.300	10,000	i			1	CON.300	0	i	ĺ	10,000
Well Control Insurance	DIDC.285	6,000				1		į			6,000
Major Construction Overhead						i	CON.305	38,750	į	1	38,750
Real Time Operations Center	DIDC.560	0			STIM.560	0				1	0
FL/GL - Labor	į			ĺ		1	CON.500	352,750	1		352,750
FL/GL - Supervision					i	i	CON.505	44,000		1	44,000
Survey	i					1	CON.515	5,000	1		5,000
SWD/Other - Labor			1		1	1	CON.500	0			0
SWID/OTHER - SUPERVISION		1				}	CON.605	0		1	0
Contingency	DIOC.435	122,000	DICC.220	12,000	STIM.220	223,000	CON,220		PCOM.220	8,400	471,400
Contingency		-				1	CON.221	61,500		1	61,500
P&A Costs	DIOC.295	0	DICC.275	0							
Total Intangible Cost	and the same that the	2,554,000	.,9.;,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	243,000		4,691,000	www.co.	930,750		152,400)	8,571,150
Drive Pipe	DWEB.150	0						1		į	0
Conductor Pipe	DWEB.130	0		1	i	- 1		1		1	0
Water String	DWEB.135	13,000			;	1	į	Ì	i	į	13,000
Surface Casing	DWEB.140	50,000	, [	1		į	1	-			50,000
ntermediate Casing 1	DAVER 145	257,000		i		i		į		Ť	257,000
ntermediate Casing 2	DWEB.155	0			1			1		1	0
Drilling Liner	DWEB,160	0		-		-	1	l		-	0
Seeduation Carlos on Hone		-	DIVEA.100	155,000		1		į		1	155,000
Production Casing or Liner			DWEA.165	0	STIMT.101	0		ŧ		ĝ	0
Production Tie-Back	1	i				- 1			PCOMT.105	0)	59,000
Production Tie-Back Fubing		***************************************		1	STIMT.105	59,000				1	70,000
Production Tie-Back	DWEB.115	20,000	DWEA.120	25,000	STIMT.105 STIMT.12D	59,000 25,000			PCOMT.120	o <sub>i</sub>	,
Production Tie-Back Fubing	DWEB.115 DWEB.100	20,000	DAVEA.120 DAVEA.125	25,000 67,000	ST9MT.120				PCOMT.120	1	67,000
Production Tie-Back Fubing Wellhead, Tree, Chokes				0.000					PCOMT.120 PCOMT.400	1	
Production Tie-Back Fubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer				0.000	ST9MT.120	25,000			PCOMT.120	1	67,000
Production Tie-Back Tubing Mellhead, Tree, Chokes Inner Hunger, Isolation Packer Packer, Mippies				0.000	STIMT.120 STIMT.400	25,000		A communication of the state of	PCOMT.120 PCOMT.400	0	67,000
Production Tie-Back Fubing Mellhead, Tree, Chokes Jiner Hanger, Isolation Packer Packer, Mipples Pumping Unit, Engine				0.000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0		d van e wildeland, i wood de bidde is sawy deleksi	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0	67,000 28,000 0
Production Tie-Back Fubing Wellpead, Tree, Chokes Jimer Hanger, Isolation Packer Packer, Mipples Pumping Unik, Engine Downhole Lift Equipment				67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000		d van e wildeland, i wood de bidde is sawy deleksi	PCOMT.400 PCOMT.405 PCOMT.410	0	67,000 28,000 0 60,000
Production Tie-Back Fubing Wellhead, Tree, Chokes Iner Hunger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downthole Ilif Equipment Surface Equipment	DWEB.100			0.000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0		d van e wildeland, i wood de bidde is sawy deleksi	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0	67,000 28,000 0 60,000
Production Tie-Back Fubing Mellhead, Tree, Chokes Johnst Hunger, Isolation Packer Packer, Mippies Pumping Unit, Engine Downbole Lift Equipment Surface Equipment Mell Automation Materials	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT-400	d van e wildeland, i wood de bidde is sawy deleksi	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 0 60,000 59,000
Production Tie-Back (Ubing (Well)ead, Tree, Chokes Iner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downshole Ilit Equipment Furface Equipment Well Automation Materials Total Tangbie - Well Equipment Cost (VC Lease Equipment)	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONTA00 CONTA05	de an arbeite de la companya de la c	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 0 60,000 59,000 0 818,000
Production Tie-Back  (Ubing  Meljhead, Tree, Chokes  Liner Hanger, Isolation Packer  Packer, Nipples  Pumping Unit, Engine  Downshole Lift Equipment  Surface Equipment  Mell Automation Materials  Total Tangbie - Well Equipment Cost  N/C Lease Equipment  Innks, Tanks Steps, Stairs	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000		de an arbeite de la companya de la c	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 0 60,000 59,000 0 818,000
Production Tie-Back  Tubing  Mellhead, Tree, Chokes  Johner Hanger, Isolation Packer  Packer, Nipples  Pumping Unit, Engine  Downhole Lift Equipment  Surface Equipment  Mell Automation Materials  Total Tangble - Well Equipment Cost  A/C Lease Equipment  Tanks, Tanks Steps, Stafrs  Battery Equipment	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405	208,250 0	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 0 60,000 59,000 0 818,000 208,250
Production Tie-Back  (Ubing  Mellhead, Tree, Chokes  Jimer Hunger, Isolation Packer  Packer, Mipples  Pumping Unit, Engine  Downthole Lift Equipment  Surface Equipment  Total Tang Me - Well Equipment  Total Tang Me - Well Equipment Cost	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.410	208,250 0 208,250	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 0 60,000 59,000 0 818,000 208,250 0
Production Tie-Back  (Ubing  (Well)ead, Tree, Chokes  Inner Hanger, Isolation Parker  Parker, Mipples  Pumping Unik, Engline  Downhole Illi Equipment  Surface Equipment  Jobal Tang Me - Wel Ensignment Cost  A/C Lease Equipment  Lanks, Tanks Steps, Stairs  Jattery Equipment  Jecondary Containments  Downhead Power Distribution	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.410 CONT.410 CONT.415 CONT.420	208,250 0 208,250 25,750 93,500	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 0 60,000 59,000 0 818,000 208,250 0 208,250 25,750 93,500
Production Tie-Back  (Ubing  (Well)head, Tree, Chokes  Liner Hanger, Isolation Packer  Packer, Nipples  Pumping Unit, Engine  Downshole Lift Equipment  Nurface Equipment  Nell Automation Materials  Total Tangble - Wel Equipment Cost  N/C Lease Equipment  Tanks, Tanks Steps, Stairs  Salteny Equipment  Gendrary Containments  Downhead Powar Distribution  Godiffy Electrical	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.410 CONT.415 CONT.420 CONT.425	208,250 0 208,250 25,750 93,500 45,250	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 818,000 208,250 0 0 208,250 25,750
Production Tie-Back  (Tubing  Mellhead, Tree, Chokes  Jacker, Nipples  Packer, Nipples  Tobil Tangble - Well Epupment Cost  V/C Lease Equipment  Tanks, Tanks Steps, Stairs  Battery Equipment  Tecondary Containments  Deverhead Power Distribution  Facility Electrical  Felecommunication Equipment	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.410 CONT.410 CONT.415 CONT.420 CONT.425 CONT.426	208,250 0 208,250 25,750 93,500 45,250	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 818,000 208,250 0 209,250 45,250
Production Tie-Back  Ubing  Wellpead, Tree, Chokes  Iner Hanger, Isolation Packer  Packer, Nipples  Pumping Unit, Engine  Pownshole Ilit Equipment  iurface Equipment  Well Automation Materials  Total Tang Me - Well Enuipment Cost  I/C Lease Equipment  anks, Tanks Steps, Stairs  tattery Equipment  recordary Containments  Deethread Powar Distribution  acility Electrical  elecommunication Equipment  detecommunication Equipment  detecommunication Equipment  detecommunication Equipment  detecommunication Equipment  detecommunication Equipment	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.410 CONT.410 CONT.415 CONT.420 CONT.425 CONT.426 CONT.426	208,250 0 208,250 25,750 93,500 45,250 46,500	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 818,000 208,250 208,250 25,750 93,500 45,250 46,500
Production Tie-Back  (Ubing  Wellhead, Tree, Chokes  Liner Hanger, Isolation Parker  Parker, Nipples  Pumping Unit, Engline  Downshole Illi Equipment  Surface Equipment  Mell Automation Materials  Local Tang Mo - Well Equipment Cost  N/C Lease Equipment  Lanks, Tanks Steps, Stalins  Lattery Equipment  Lecondary Containments  Downhead Power Distribution  addity Electrical  elecomonunication Equipment  determs and Metering Equipment  leading Here Meters and Metering Equipment  leading Line Pipe	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.410 CONT.415 CONT.420 CONT.425 CONT.426 CONT.426 CONT.450	208,250 0 208,250 25,750 93,500 45,250 0 46,500 28,750	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 209,250 209,250 209,250 45,250 45,250 45,250 46,500
Production Tie-Back Vubing Vubing Visignes, Tree, Chokes Iner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downhole Lift Equipment Vurface Equipment Visignes Total Tangble - Well Engipment Cost Vici Lease Equipment Anks, Tanks Steps, Stairs Vallet Equipment Visignes Equipment Visignes Equipment Visignes Equipment Visignes Equipment Visignes Vis	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.410 CONT.415 CONT.420 CONT.425 CONT.426 CONT.426 CONT.450 CONT.450	208,250 0 208,250 25,750 93,500 45,250 0 46,500 28,750 43,750	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 208,250 209,250 25,750 45,250 46,500 28,750 43,750
Production Tie-Back (Uning (Well)ead, Tree, Chokes Jiner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downthole Lift Equipment Surface Equipment Mell Automation Materials Total Tang Me - Well Equipment Cost (VC Lease Equipment Tanks, Tanks Steps, Stairs Stattery Equipment Secondary Containments Downtead Power Distribution racility Electrical Selectomanication Equipment Meters and Metering Equipment Meters and Metering Equipment Sease Automation Materials L/GL - Materials	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.416 CONT.415 CONT.426 CONT.425 CONT.426 CONT.426 CONT.450 CONT.450 CONT.450 CONT.450	208,250 0 208,250 25,750 93,500 45,250 46,500 28,750 43,750 33,000	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 818,000 208,250 0,208,250 45,250 45,250 46,500 28,750 43,750 39,000
Production Tie-Back  (Nolinga  Mellipasd, Tree, Chokes  Liner Hanger, Isolation Packer  Packer, Mipples  Pumping Unil, Engine  Downhole Lift Equipment  Norface Equipment  Total Tangble - Wel Engipment Cost  M/C Lease Equipment  Lanks, Tanks Steps, Stalins  Lattery Equipment  Lanks, Tanks Steps, Stalins  Lattery Equipment  Lecondary Containments  Doverhead Power Distribution  Facility Electrical  Leconmunication Equipment  Leconmunication Equipment  Leconmunication Equipment  Lecondary Contains  Life - Materials  Life - Materials  Life - Latterials	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.410 CONT.415 CONT.420 CONT.425 CONT.426 CONT.426 CONT.450 CONT.450 CONT.450 CONT.550 CONT.550	208.250 0 208.250 25,750 93,500 45,250 46,500 28,750 43,750 39,000 164,250	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 818,000 208,250 0,208,250 45,250 45,250 46,500 28,750 43,750 39,000
Production Tie-Back Vubing Vubing Visigned, Tree, Chokes Iner Hanger, Isolation Packer Packer, Nipples Vumping Unit, Engine Downshole Ilif Equipment Vurface Equipment Votal Tangbie - Well Equipment Cost Vic Lease Equipment Votal Tangbie - Well Equipment Cost Vic Lease Equipment Votal Tangbie - Well Equipment Cost Vic Lease Equipment Votal Tangbie - Well Equipment Cost Vic Lease Equipment Votal Tangbie - Well Equipment Cost Vic Lease Equipment Votal Tangbie - Well Equipment Cost Vic Lease Equipment Votal Tangbie - Well Equ	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.410 CONT.415 CONT.420 CONT.425 CONT.426 CONT.426 CONT.450 CONT.450 CONT.450 CONT.550 CONT.550 CONT.555 CONT.650	208,250 0 208,250 25,750 93,500 45,250 46,500 28,750 43,750 33,000	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 60,000 59,000 818,000 208,250 0,208,250 45,250 45,250 46,500 28,750 43,750 39,000
reduction Tie-Back  ubing  Wellhead, Tree, Chokes  Iner Hanger, Isolation Packer  Tacker, Mipples  tumping Unit, Engine  Nourhole Lift Equipment  urface Equipment  Vell Automation Materials  Total Tangble - Well Engipment Cost  I/C Lease Equipment  anks, Tanks Steps, Stalirs  attery Equipment  active Tanks Steps, Stalirs  attery Equipment  Alter Tanks Steps, Stalirs  attery Equipment  Active Tanks Steps, Stalirs  Active Tanks Steps, Stalirs  Active Tanks Steps, Stalirs  Alter Tan	DWEB.100	0		67,000	STIMT.120 STIMT.400 STIMT.405	25,000 28,000 0 60,000	CONT.405 CONT.410 CONT.415 CONT.420 CONT.425 CONT.426 CONT.426 CONT.450 CONT.450 CONT.450 CONT.550 CONT.550	208.250 0 208.250 25,750 93,500 45,250 46,500 28,750 43,750 39,000 164,250	PCOMT.400 PCOMT.405 PCOMT.410 PCOMT.420	0 0 0 0 59,000	67,000 28,000 0 60,000 59,000 0 818,000 208,250 0 208,250 25,750



Description   Codes   Amount   Codes   Still.100   Discription   Codes   Still.100   Sti	A,00  4,00  4,00  4,00  4,00  4,00  4,00  4,00  5,00
Discription	4,00 4,00 4,00 94,00 34,00
Damages   DiDC.105   DiDC.235	4,00 4,00 4,00 94,00 34,00
Display   Disp	24,0 237,00 4,00 94,00 34,00
Discription	24,0 237,00 4,00 94,00 34,00
Disc   Preparation   Disc	4,00 4,00 94,00 , 34,00
DIDC.125	4,00 4,00 94,00 , 34,00
DIDC.135	4,00 4,00 94,00 , 34,00
Mater for Drilling Rig (Not Frax Water)   DIDC.145   198,000   DICC.135   0   STIM.135	4,00 4,00 94,00 , 34,00
Mud & Additives   SWD RPED TO XEC SWD WELL	4,00 4,00 94,00 , 34,00
SWD PRPED TO XEC SWD WELL	4,00 4,00 94,00 , 34,00
SWD PARIED TO 3RD PARIY SWD VIELL   SWD HAURED TO 3RD PARIY SWD VIELL   Surface Rentals	4,00 4,00 94,00 , 34,00
SWD HAULED TO XEC SWD WELL   SWD HAULED TO 3RD PARTY SWD WELL   SWD HAULED TO 3RD PARTY SWD WELL   DIDC.150   Per Day (8CP)/day   110,000   DICC.140   O   STIM.140   STIM.145   STIM.145   STIM.145   STIM.141   STIM.145   STIM.141   STIM.145   STIM.141   STIM.141   STIM.145   STIM.141   STIM.142   STIM.142   STIM.143   STIM.144   STIM.145   STIM.145   STIM.145   STIM.145   STIM.145   STIM.140	4,00 4,00 94,00 , 34,00
SWD HAULED TO 3RD PARTY SWD W/ELL   Surface Rentals   DIDC.155   Per Day (BCP)/day   110,000   DICC.140   DIDC.155   STIM.145   ST	4,00 4,00 94,00 , 34,00
Surface Rentals	4,00 4,00 94,00 , 34,00
Discribing Afford State   Discribing State   Disc	4,00 4,00 94,00 , 34,00
Flowback Labor	4,00 94,00 34,00
Automation Lature Formation Evaluation (DST, Coling, etc.) Mod Logging DiDC.170 Dipen Hole Logging DiDC.180 DiDC.180 DiDC.180 DiDC.185 DiDC.195 DiDC.245 DiDC.246 DiDC.245 DiDC.245 DiDC.245 DiDC.245 DiDC.245 DiDC.245 DiDC.246 DiDC.245 DiD	4,00 94,00 34,00
Formation Evaluation (DST, Colling, etc.)   DIDC.160   DIDC.180	4,00 94,00 34,00
Multi-loggring	4,00 94,00 34,00
Open Hole Logging	4,00 94,00 34,00
Cemerating & Float Equipment   DIDC.185   DIDC.285	4,00 94,00 34,00
Tubular Inspections	4,00 94,00 34,00
Casing Crevs         DIDC.195         20,000         DICC.165         13,000         STIM.165           Mechanical Labor         UIDC.200         15,000         DICC.170         10,000         STIM.170           Incoking/Transportation         OIDC.205         25,000         DICC.175         8,000         STIM.170           Supervision         DIDC.210         94,000         DICC.180         16,000         STIM.180           Trailer House/Camp/Catering         DIDC.220         41,000         DICC.255         6,000         STIM.280           Other Misc Expenses         DIDC.220         5,000         DICC.195         5,000         O STIM.280           Overhead         DIDC.225         10,000         DICC.195         5,000         DICC.195         5,000           AMOR/DEMOB         DIDC.231         0         0         DICC.195         STIM.215         STIM.215           Prectional Drilling Senices         DIDC.245         332,000         STIM.200         STIM.240         STIM.240           Vell Cantrol Equip (Smubbing Senices)         DIDC.265         68,000         DICC.240         5,000         STIM.240           Gong Jeturn Lange Senices         DIDC.270         0         OCC.245         0         STIM.240	4,00 94,00 34,00
Mechanical Labor	4,00 94,00 34,00
Mechanical Labor	94,00
Trucking/Transportation	94,00
Supervision	94,00
Trailer House/Camp/Catering	, 34,00
Other Misc Expenses	
Overhead	1
Remedial Cementing	1
MOB/DEMOB   DIDC.240   150,000	1
Directional Drilling Services	1
Scilids Control   DIDC.260   59,000   Well Control Equip (Snubbling Services)   DIDC.265   68,000   DICC.240   5,000   STINt.240   Flifting & Sidetrack Services   DIDC.270   O DICC.245   O STINt.245   STINt.245   Control Tubing Services   STINt.260   STINT	
Well Control Equip (Smubbling Services)         DIDC.265         68,000         DICC.240         5,000         STIM.240           Fifthing & Sidetrack Services         DIDC.270         0         OICC.245         0         STIM.245           Completion Rig Coil Tubing Services         STIM.260         STIM.260         STIM.260           Completion Logging/Perforating/Mireline         STIM.200         STIM.200	1
Fifthing & Sidetrack Services DIDC 270 0 OICC 245 0 STIAL 245 Completion Rig Strict Services STIAL 250 STI	109,00
Completion Rig STIM.115   Coil Tubing Services STIM.260   Completion Logging/Perforating/Wireline STIM.200	103,00
Coil Tubing Services STIM.260 Completion Logging/Perforating/Wireline STIM.200	21.00
Completion Loggling/Perforating/Wireline STIM.200	21,00
	448,00
	408,00
	108,00
Stimulation STIM210	2,448,00
Stimulation Water/Water Transfer/Water STIM.395	402,00
Grantes Owned Frac/Rental Equipment STIM.305	40,00
Legal/Regulatory/Curative DDC.300 10,000	į.
Well Control Insurance DIDC285 \$0.35/ft 6,000	
Major Construction Overhead	ŀ
Real Time Operations Center DIDC.560 0 STIM.560	
FL/GL - Labor	
Ft/GL - Supervision	į.
Survey	
SWO/Other - Labor	
SWD/OTHER - SUPERVISION	
Contingency   DIDC.435   500 % of Drilling Intangibles   122,000   DICC.220     12,000   STIM.220	223,00
Contingency	
PBIA Costs DIDC 295 0 DICC 275 0	
Total htmg life Cost 2,554,000 243,000 243,000	4,691,00
Orine Pipe DWEE.150	THE RESERVE OF THE PARTY OF THE
Conductor Pipe DWEB.130 0	1
Water Sering DWEB.135 13,000	1
Surface Casing DWEB.140 9 5/8" - 2,070ft at \$24.00/ft 50,000	
Intermediate Casing 1 DWE8.145 7* - 8,320ft at \$28,00/ft 257,000	
Intermediate Casing 2 DWEB.155 0	1
Drilling Liner DWE8,160 0	
	1
Production Tie-Back DWEA165 0 STMILTON	06 -1 (0.000)
STIMT-105   3-1/2" - 6.5%	
Wellhead, Tree, Chokes DWEB,115 20,000 DWEA,120 25,000 STMT.120	25,000
Liner Hanger, Isolation Packer DWER.100 0 DWEA.125 67,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Packer, Nipples STIMT-400	28,000
Pumping Unit, Engine STIN-T.405	(
Downhole Lift Equipment STIMT.410	60,000
Surface Equipment	
Well Automation Materials	
Total Tangible - Well Equipment Cost 340,000 247,000	172,000
MC Lease Equipment	
Tanks, Tanks Steps, Stairs	
Sattery Equipment	1
Secondary Containments	
Overhead Power Distribution	
Facility floctrical	
Telecommunication Equipment	
Meters and Metering Equipment	
Facilty Line Pipe	
Lesse Autoinstian Materials	1
FL/GL - Materials	1
FL/GL - Line Pipe	
FL/GL - Line Pipe SVID/Other - Materials	
EL/GL - Line Pipe SVD/Cither - Materials SVD/COTHER - LINE PIPE	
FL/GL - Line Pipe SVID/Other - Materiais	***************************************



Decreption	Code	Production Equip Amou	nt Codes	Post Completion	C	Total Co
Description Roads & Location	Codes CON.100	9,00		Road Repairs	20,000	179,00
Damages	CON.105	9,50			20,000	15,50
Mud/Fluids Disposal	1		PCOM 255	\$0.25/bbl for 60 days , using Cottonberry	60,000	257,00
Day Rate	1				1	563,00
Misc Preparation			Parent I		1	35,00
Bits	1	į	PCOM125		0	75,00
Fuel	1	ļ	PCOM.130		0	88,00
Water for Drilling Rig (Not Frac Water)			PCOM.135		0	29,00
Mud & Additives			1		1	198,00
SWD PIPED TO XEC SWD WELL			PCOM254	i	Oi	130,00
SWD PIPED TO 3RD PARTY SWD WELL		<b>,</b>	PCOM.257		0	
SWD HAULED TO XEC SWD WELL		ì	PCOM.258		0	
SWD HAULED TO 3RD PARTY SWD WELL			PCOM.259	!	0	
Surface Rentals	CON.140	6,00		Flowback equipment (\$1,200/d for 30 days)	36,000	389,00
Downhole Rentals	COILING	4,00	PCOM.145		30,000	136,00
Flowback Labor			PCOM 141	Flowback hands (\$2,000/d for 14 days)	28,000	28,00
Automation Labor	CON.150	43,25	7		0	43,25
Formation Evaluation (DST, Coring, etc.)	1	75,25	1			43,23
Afud Logging	1		1	1		21,00
Open Hale Logging		1	į			21,00
Cementing & Float Equipment	1				1	208,000
Tubular Inspections		1	PCOM 160		0	29,000
Casing Crevs		1	1		1	33,000
Mechanical Labor	CON.170	187,00	PCOM.170	i	0	212,000
Trucking/Transportation	CON.175	25,00	1		0	62,000
Supervision	CON.175	19,00			0	223,000
Trailer House/Camp/Catering	)	19,00	1	i	1	81,000
Other Misc Expenses	CON.190	24,00	PCOM.190		0	44,000
Overhead	1	24,00	1		1	15,000
Remedial Cementing			PCOM215		0	13,000
MOB/DEMOB	5	1	1	1	1	150,000
MOBJUEMOB Directional Drilling Services			1		-	352,000
Directional Drilling Services Solids Control	1	!	1			59,000
Well Control Equip (Snubbing Services)	1	1	PCOM 240		o	182,000
Well Control Equip (Snubbing Services) Fishing & Sidetrack Services	1	1	PCOM245		0	102,000
		į	PCOM.115		0	21,000
Completion Rig		1	PCOM260		0	448,000
Coll Tubing Services Completion Logging/Perforating/Wireline		1	PCOM.200	İ	0	408,000
Composite Plugs		1	PCOM.390		0	108,000
100		i i	PCOM 210		0	2,448,000
Stimulation Pumping/Chemicals/Additives/Sand Stimulation Water/Water Transfer/Water				i	1	402,000
Simulation water/water transfer/water Climarex Owned Frac/Rental Equipment		1	PCOM305			40,000
.egal/Regulatory/Curative	CON.300		1			10,000
Nell Control Insurance		( )				6,000
Well Control Insurance Major Construction Overhead	CON.305	38,750	1		-	38,750
Major Construction Overnead Real Time Operations Center	2012.00	38,750				2d,/30
CLIGAL - Lahor	CON.500	352,750	1		1	352,750
L/GL - Supervision	CON.505	44,000			1	44,000
	CON.515	5,000			-	5,000
survey SWD/Other - Labor	CON.515	5,00			i	5,000
SWD/OTHER - SUPERVISION	CON.605		1			
	CON.220	106,000	1	10%	8,400	471,400
Contingency	CON.221	61,500		10%	0,400;	61,500
Contingency	CUNIZZI	61,300			4	01,500
P&A Costs Total Intengible Cost.	and the second state of the second se	930,750		A PROCESS AND A STANKE OF A STANKE AND A STANKE OF STANK	152,400	8,571,150
Oriva Pipe	aga yay aga karanga aranga	930,73	Yaran marana ara	a transfer with the control of the state of	132,400;	8,771,00
Conductor Pipe	1	į.		2	1	0
Vater String	1	1	1		1	13,000
vater siting furface Casing			1	2		50,000
2000 0 0 0 0 0 0 <del>0</del> 0 0 0 0 0 0 0 0 0 0	į		1			257,000
ntermediate Casing 1		ĺ	1			237,000
ntermediate Casing 2 Drilling Liner		E .	i		1	0
		ĺ	ì		i	155,000
Production Casing or Liner Production Tie-Back			-			155,000
		ĺ	PCOMT.105			0
ubing		!	PCOMT.120		0	59,000
Vellhead, Tree, Chokes		ž.	PCUMI.120		0	70,000
iner Hanger, Isolation Packer		Į.	PCOMT/400			67,000
acker, Nipples		ĺ	3		0	28,000
tumping Unit, Engine		ĺ	PCOMTA05		0	0
Downhole Lift Equipment		B .	PCOMT.410	Vrc	0	60,000
urface Equipment	i		•	XEC owned material transferred sand	59,000	59,000
Vell Automation Materials	L		PCOMTA55		0	. 0
Total Tang'ble - Well Equ'pment Cost		Limbarran promov Comunication, Co. L. Committee States of Contractions	Lancoren .	The state of the s	59,000;	818,000
I/C Lease Equipment	CONT.400	208,250				208,250
anks, Tanks Steps, Stairs	CONT.405		1		ar Asses	0
lattery Equipment	CONT.410	208,250	1			208,250
econdary Containments	CONTA15	25,750	1		1	25,750
Overhead Power Distribution	CONT.420	93,500			1	93,500
scility Electrical	CONTA25	45,250	1		-	45,250
elecommunication Equipment	CONTA26		1		-	0
leters and Metering Equipment	CONT.445	46,500	1		-	46,500
	CONT.450	28,750		ĺ	1	28,750
	i i	43,750			4	43,750
acility Line Pipe	CONT.455	1 10/100		ı		39,000
acility Line Pipe ease Automation Materials	CONT.455 CONT.550	30,000	i	,		
acility Line Pipe ease Automation Materials L/GL - Materials	CONT.550	39,000 164.250			a water	0.000
acīlīty Line Pipe ease Automation Materials L/GL - Materials L/GL - Line Pipe	CONT.550 CONT.55S	164,250	Ì		il bodinin sajoti	0.000
acilīty Line Pipe ease Automation Materials L/GL - Materials L/GL - Line Pipe WD/Other - Materials	CONT.550 CONT.55S CONT.650	164,250			la voca de la companya de la company	0.000
acility Line Pipe ease Automation Materials L/GL - Materials L/GL - Line Pipe	CONT.550 CONT.55S CONT.650 CONT.655	164,250				164,250 0 0 903,250

### **Communication Timeline**

10/9/2019 - Proposals for both the Da Vinci 7-18 Federal Com 29H & 30H sent

10/12/2019 - Proposals received by TLW Investments, LLC, Attn: Thad Montgomery

**10/23/2019** – Received an email from Mr. Montgomery indicating that the acreage was sold to Brigham several years ago and that all well proposals should be sent to Brigham

11/14/2019 – XEC was informed by Brigham that they did not have record of acquiring TLW's interest in the E/2 of Section 18. Brigham's records reflected that they acquired only the SW/4 of Section 18. I then reached out to TLW. TLW confirmed that they do still own the interest in the E/2 of Section 18. I then sent the proposals to TLW again and informed them that we would be filing for force pooling. TLW indicated that they would go Non-Consent unless we were willing to purchase. I then requested the form they would require to use in order to sell to XEC.

11/26/2019 - – I followed up with Thad Montgomery at TLW to understand the need to use their specific "sublease" form

**12/3/2019** – Landman from TLW indicated that they prefer to use the sublease form as previously provided. We could not agree to a form of assignment.

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

APPLICATION OF CIMAREX ENERGY CO. FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

**CASE NO. 20993** 

## **AFFIDAVIT OF HARRISON HASTINGS**

STATE OF TEXAS	)
	) ss
COUNTY OF MIDLAND	)

Harrison Hastings, being duly sworn, deposes and states:

- 1. I am over the age of 18, I am a geologist for Cimarex Energy Co. ("Cimarex"), and have personal knowledge of the matters stated herein. I have been qualified by the Oil Conservation Division ("Division") as an expert in petroleum geology matters.
- 2. I conducted a geological study of the area that encompasses the horizontal spacing unit that is the subject of Cimarex's application in this case and am familiar with the geological matters involved in this case.
- 3. As part of my study, I have prepared the following geological exhibits with respect to the horizontal spacing unit that are attached hereto:
  - a. Exhibit C.1 is a Gunbarrel/Lateral Trajectory Diagram. This diagram identifies the DaVinci 7-18 E/2 development plan, which includes the Da Vinci 7-18 Fed Com 30H well, the proposed well within the Bone Spring horizontal spacing unit that is the subject of this case, and the Da Vinci 7-18 Fed Com 29H well.