

Authorization For Expenditure

Anadarko GAT				Date Prepared	04/15/2016	Ü	
Anadarko GAT Octation HL: 150' FSL & 330' FEL SEC 30-11N		Prospect or Field Name	Property Number		Drilling AFF No		
cation IL: 150' FSL & 330' FEL SEC 30-11N			350021-098.01	Drilling AFE No. 2216067			
IL: 150' FSL & 330' FEL SEC 30-11N		PROSPECT					
HL: 150' FSL & 330' FEL SEC 30-11N-7W BHL: 150'FNL & 330'		County Canadian	State OK	Oil Gas	Type Well Expl X Prod	X	
stimate Type		Est.Start Date	Est. Comp Date	Formati	SUPPLIES BETTER BETTER TO THE TOTAL TOTAL TO THE TOTAL TOTAL TO THE TO	ured Depth 110'	
riginal Estimate X evised Estimate upplemental Estimate		06/01/2016	08/01/2016	WOODFO	ORD Ttl Verti	cal Depth	
oject Description ill and complete a horizontal test. 110' TVD and a +/- 9730' long late ow to sales through new facility.	t. Drill to 1500', set surface of eral in the Woodford forma	asing. Drill to 10150', set interr tion. Run and cement producti	nediate casing, Drill to 106. on casing. Stage frac in 55 :	28' (KOP). Drill c stages. Drill out	curve at 12 DLS build plugs. Run producti	I rate to +/- on tubing.	
ntangibles		Dry Hole Cost	After Casing I	Point	Completed Wel		
Orilling Costs Completion Costs		\$2,917,000	\$5,658,17	7	\$2,917,000		
otal Intangible Costs		\$2,917,000	\$5,658,17		\$8,575,17		
angibles							
Vell Equipment		\$420,000	\$539,800 \$347,773		\$959,800 \$347,773		
ease Equipment otal Tangible Well Cost		\$420,000	\$887,573		\$1,307,57		
lug and Abandon Cost		\$0	\$0	· I			
otal Well Cost		\$3,337,000 \$6,545		60	\$9,882,75	0	
Vell Control Insurance					and but	Operator	
Unless otherwise indicated below, ong as Operator conducts operation on must provide a certificate of su	ions hereunder and to pay your insurance acceptable to	our prorated share of the prem Operator, as to form and limit	niums therefore. If you elect s, at the time this AFE is re	ct to purchase y turned, if availa	our own well contro ble, but in no event	later than	
Unless otherwise indicated below, ong as Operator conducts operation you must provide a certificate of such commencement of drilling operation procured by Operator.	ions hereunder and to pay youch insurance acceptable to ions. You agree that failure	our prorated share of the prem Operator, as to form and limit to provide the certificate of ins	niums therefore. If you elect s, at the time this AFE is re	ct to purchase y turned, if availa	our own well contro ble, but in no event	later than	
Unless otherwise indicated below, ong as Operator conducts operation to must provide a certificate of sucommencement of drilling operation or coursed by Operator. I elect to purchase my of Well control insurance procured by	ions hereunder and to pay y uch insurance acceptable to ions. You agree that failure own well control insurance of oy Operator, provides, amon	our prorated share of the prem Operator, as to form and limit to provide the certificate of ins policy. g other terms, for \$20,000,000	itums therefore. If you eless, at the time this AFE is re- urance, as provided herein (100% W.I.) of Combined S	ct to purchase y turned, if availa , will result in y Single Limit cove	our own well controller, but in no event our being covered b	later than y insurance	
Mell Control Insurance Unless otherwise indicated below, ong as Operator conducts operatic you must provide a certificate of sucommencement of drilling operation or the commencement of drilling operation of the commencement of the commencem	ions hereunder and to pay y uch insurance acceptable to ions. You agree that failure own well control insurance p by Operator, provides, amon illution expense covering dri ength contracts with third p build you choose to market y epartment, we will share wi	our prorated share of the prem Operator, as to form and limit to provide the certificate of ins policy. g other terms, for \$20,000,000 [liing (through completion) with arty purchasers. Such contract our share of gas with Cimarex, th you the terms and condition	is may include fees. In add you will be subject to all of s pursuant to which gas will be subject to all of s pursuant to which gas wi	et to purchase y turned, if availa t, will result in y single Limit cove deductible.	rour own well controlle, but in no event oour being covered but the controller of the controller of the controller of the controller on the controller on the contracts. Upon	ol insurance later than by insurance ol and insufficien written	
Inless otherwise indicated below, ong as Operator conducts operation out must provide a certificate of sucommencement of drilling operator conducts by Operator. I elect to purchase my or Well control insurance procured by elated redrilling and clean-up/pol elated redrilling and clean-up/pol cimarex sells its gas under arm's-levolumes delivered over time. Showed to Cimarex's Marketing Deshall be deemed an election to ma	ions hereunder and to pay y uch insurance acceptable to ions. You agree that failure own well control insurance by Operator, provides, amon illution expense covering drivength contracts with third pould you choose to market y epartment, we will share wi arket your gas with Cimarex in kind.	our prorated share of the prem	is the state of th	et to purchase y turned, if availa t, will result in y single Limit cove deductible.	rour own well controlle, but in no event oour being covered but the controller of the controller of the controller of the controller on the controller on the contracts. Upon	ol insurance later than by insurance ol and insufficien written	
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Lease Name:

	新疆					BCP - Drilling		ACP - Drilling		Completion /
at another						(Dry Hole Cost)				Stimulation
Intangibles	Vo-				Codes DIDC.100	\$200,000	Codes		Codes STIM.100	\$30,000
Roads & Location Preparation / Restorat Damages	iioii				DIDC.105	\$26,000		The second second		
Mud / Fluids Disposal Charges					DIDC.255	\$120,000			STIM.255	\$60,000
Day Rate 32.00 DH Days	5.00 ACP Days @		\$27,500.00	Per Day	DIDC.115	\$880,000	DICC.120	\$104,000		
Misc Preparation Cost (mouse hole, rat I	hole, pads, pile clusters, n	nisc.)			DIDC.120	\$30,000				
Bits	The state of the s		- "		DIDC.125	\$130,000	DICC.125	\$0	STIM.125	\$0
		#####	Gallons Per Day	/	DIDC.135 DIDC.140	\$86,000 \$15,000	DICC.130		STIM.135	\$5,000
Water for Drilling Rig / Completion Fluid	s (Not Frac Water)				DIDC.145	\$300,000	DICC.133	\$1,000	STIMILESS TO STATE OF THE STATE	40,000
Mud & Additives Surface Rentals					DIDC.150	\$55,000	DICC.140	\$0	STIM.140	\$150,000
Downhole Rentals					DIDC.155	\$45,000			STIM.145	\$80,000
Formation Evaluation (DST, Coring include	ding evaluation, G&G Ser	vices)			DIDC.160	\$0			STIM.150	\$0
Mud Logging	30.00		\$1,000.00	Per Day	DIDC.170	\$30,000				
Open Hole Logging					DIDC.180	\$0				
Cementing & Float Equipment					DIDC.185	\$50,000	DICC.155	\$100,000 \$5,000	Company of the Compan	\$0
Tubular Inspections					DIDC.190 DIDC.195	\$15,000 \$15,000	DICC.160	\$17,000		\$0
Casing Crews		-			DIDC.195	\$15,000	DICC.170	\$2,000		\$0
Extra Labor, Welding, Etc.	lac)				DIDC.205	\$10,000	DICC.175	\$9,000		\$5,000
Land Transporation (Trucking for tangib	iles)		\$3,800.00	Per Day	DIDC.210	\$141,000	DICC.180	\$10,000		\$67,000
Supervision Trailer House / Camp / Catering			75,530.03	,	DIDC.280	\$21,000	DICC.255	\$2,000		\$13,000
Other Misc Expenses			The same	30.3	DIDC.220	\$1,000	DICC.190	\$0		\$25,000
Overhead					DIDC.225	\$10,000	DICC.195	\$5,000		
Remedial Cementing			er et san er et et et		DIDC.231	\$0	132.19	OF RE	STIM.215	\$0
MOB/DEMOB					DIDC.240	\$195,000				
Directional Drilling Services					DIDC.245	\$300,000				
Crane for Construction						lessed the less than				
Solids Control					DIDC.260	\$25,000				
Well Control Equip (Snubbing Svcs.)					DIDC.265	\$28,000		\$4,000		\$20,000
Fishing & Sidetrack Operations					DIDC.270	\$0	DICC.245	\$0		\$0
Completion Rig								700 See 3 50	STIM.115 STIM.260	\$200,000
Coil Tubing						6 5 198001 198008 8 8 198002 198000			STIM.200	\$251,000
Completion Logging, Perforating, WL U	nits, WL Surveys								STIM.390	\$83,000
Composite Plugs Stimulation Pumping Charges, Chemica	le Additives Sand								STIM.210	\$3,244,000
Stimulation Water / Water Transfer / W									STIM.395	\$411,000
Cimarex Owned Frac / Rental Equipmen									STIM.305	\$50,000
Legal / Regulatory / Curative		The same			DIDC.300	\$15,000				
Well Control Insurance	\$1.00 Per Foot		76,77,107		DIDC.285	\$21,000		園 鷹 麗		
	% of Drilling Intangibles				DIDC.435	\$139,000	DICC.220	\$13,000	STIM.220	\$235,000
Construction For Flow Lines										
Construction For Sales P/L										Å4 020 000
Total Intangible Cost						\$2,917,000)	\$272,000)	\$4,929,000
Tangible - Well Equipment		Size	Feet	\$/Foot			· 网络2000			
Casing Drive Pipe		0	0.00	\$0.00	DWEB.150	\$0				
Conductor Pipe		0	0.00	\$0.00	DWEB.130	\$0				
Water String		0	0.00	\$0.00	DWEB.135	\$0				
Surface Casing		13.375	1500.00	\$40.00	DWEB.140					
Intermediate Casing 1		9.625	10150.00	\$32.00	DWEB.145		THE RESERVE THE PARTY NAMED IN			
Intermediate Casing 2		0	0.00	\$0.00	DWEB.155	\$0				
Drilling Liner		0	0.00		DWEB.160	\$0				
Production Casing or Liner		5.5	21110.00	\$18.00			DWEA.100		The second second	
Production Tie-Back		0	0.00	\$0.00	Special Special	The second of	DWEA.165	\$	STIMT.103	
Tubing		2.375	10730.00	\$5.10	DWEB.115	COE OO	DWEA.120	\$43,00		
Wellhead, Tree, Chokes						-	DWEA.125		-	\$40,00
Liner Hanger, Isolation Packer					DWEB.100	N 90	DTVEM.123	,	STIMT.400	\$5,00
Packer, Nipples		35-97							STIMT.40	
Pumping Unit, Engine Downhole Lift Equipment (BHP, Rods, A	Anchors ESP GVIs PC Pu	imp)		1000					STIMT.410	
Tangible - Lease Equipment	uneners, zer, erze, rera									
N/C Lease Equipment									The Paris	
Tanks, Tanks Steps, Stairs										
Battery (Heater Treater, Separator, Ga	s Treating Equipment)									
Secondary Containments										
Overhead Power Distribution (electric	line to facility)		100 100							
Facility Electrical & Automation			100							
SWD Connection										
Flow Lines (Line Pipe from wellhead to	central facility)		-							
Pipeline to Sales										
Meters and Metering Equipment					- DOSSER	\$420,00	0	\$423,00	00	\$45,00
Total Tangibles								1 /		
					DIDC.295		0 DICC.275	; ;	60 80 80	
P&A Costs					DIDC.295	\$				
					DIDC.295			\$695,00		\$4,974,00



Lease Name:

Total Cost

			Production		Post	Total Well
			Equipment /		Completion	Cost
Intangibles		Codes	Construction			
Roads & Location Preparation / Restoration		CON.100	\$2,500	_	\$1,000	\$233,500
Damages		CON.105	\$0	PCOIVI.100	\$1,000	\$26,000
Mud / Fluids Disposal Charges		CON.103	Ç0	PCOM.255	\$91,800	\$271,800
	27,500.00 Per Day	2000 000000 00000 00000 00000 000000 0000		P CONT.255	451,000	\$984,000
Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)	Er,500.00 rer buy	The second secon		DE TOURS TO		\$30,000
Bits				PCOM.125	\$0	\$130,000
	llons Per Day			PCOM.130	\$0	\$86,000
Water for Drilling Rig / Completion Fluids (Not Frac Water)	ions rer bay	ness leaded to		PCOM.135	\$1,000	\$22,000
Mud & Additives		The second second		T COMILED	\$1,000	\$300,000
Surface Rentals		CON.140	\$4,000	PCOM.140	\$179,127	\$388,127
Downhole Rentals			71,000	PCOM.145	\$0	\$125,000
Formation Evaluation (DST, Coring including evaluation, G&G Services)						\$0
	\$1,000.00 Per Day					\$30,000
Open Hole Logging	72,000.00 Tel Buy					\$0
Cementing & Float Equipment			Scale Section 1			\$150,000
Tubular Inspections				PCOM.160	\$3,700	\$23,700
Casing Crews				T CONT.100	33,700	\$32,000
Extra Labor, Welding, Etc.		CON.170	\$83,000	PCOM.170	\$0	\$95,000
Land Transporation (Trucking for tangibles)		CON.175	\$9,800	PCOM.175	\$6,800	\$44,600
	\$3,800.00 Per Day	CON.173	\$6,800	PCOM.180	\$13,600	\$238,400
Trailer House / Camp / Catering	55,000.00 Per Duy	CON.180	\$0,000	PCOIVI.180	\$13,000	\$36,000
Other Misc Expenses		CON.190	\$3,000	PCOM.190	\$0	\$29,900
Overhead Overhead		CON.190	\$3,900	PCOIVI.190	30	\$15,000
Remedial Cementing				PCOM.215	\$0	\$13,000
MOB/DEMOB				PCOIVI.215	30	\$195,000
Directional Drilling Services						\$300,000
Crane for Construction		CON.230	\$4,000			\$4,000
Solids Control		CON.230	34,000			\$25,000
Well Control Equip (Snubbing Svcs.)				PCOM.240	\$25,350	\$77,350
Fishing & Sidetrack Operations				PCOM.245	\$0	\$77,550
Completion Rig		1005 10000 1		PCOM.115	\$13.800	\$13,800
Coil Tubing				PCOM.260	\$13,800	\$200,000
				PCOM.200	\$3,500	\$254,500
Completion Logging, Perforating, WL Units, WL Surveys Composite Plugs				PCOM.200 PCOM.390	\$3,500	\$83,000
		500 - 1000 - 1		PCOM.390 PCOM.210	\$0	\$3,244,000
Stimulation Pumping Charges, Chemicals, Additives, Sand Stimulation Water / Water Transfer / Water Storage				PCOIVI.210	50	\$411,000
Cimarex Owned Frac / Rental Equipment						\$50,000
Legal / Regulatory / Curative		CON,300	\$0			\$15,000
Well Control Insurance \$1.00 Per Foot		CON.300	\$0		1000	\$13,000
Contingency 5.0 % of Drilling Intangibles		CON,220	¢n.	PCOM.220	\$0	\$387,000
Construction For Flow Lines		CON.220	\$3,500	FCOIVI.220	\$0	\$3,500
		CON.310 CON.265	\$3,500			\$3,500
Construction For Sales P/L Total Intangible Cost		CON.265	\$117,500			\$8,575,177

Tangible - Well Equipment								
Casing	Size	Feet	\$/Foot					
Drive Pipe	0	0.00	\$0.00					\$0
Conductor Pipe	0	0.00	\$0.00					\$0 \$0 \$0
Water String	0	0.00	\$0.00					\$0
Surface Casing	13.375	1500.00	\$40.00					\$60,000
Intermediate Casing 1	9.625	10150.00	\$32.00					\$325,000
Intermediate Casing 2	0	0.00	\$0.00					\$0
Drilling Liner	0	0.00	\$0.00					\$0
Production Casing or Liner	5.5	21110.00	\$18.00					\$380,000
Production Tie-Back	0	0.00	\$0.00					\$0
Tubing	2.375	10730.00	\$5.10			PCOMT.105	\$70,000	\$70,000
Wellhead, Tree, Chokes								\$118,000
Liner Hanger, Isolation Packer								\$0
Packer, Nipples			PCOMT.400	\$1,800	\$6,800			
Pumping Unit, Engine			PCOMT.405	\$0	\$0			
Downhole Lift Equipment (BHP, Rods, Anchors, ESP,	GVLs, PC Pump)					PCOMT.410	\$0	\$0
Tangible - Lease Equipment								
N/C Lease Equipment				CONT.400	\$74,448			\$74,448
Tanks, Tanks Steps, Stairs				CONT.405	\$34,650			\$34,650
Battery (Heater Treater, Separator, Gas Treating Eq	uipment)			CONT.410	\$87,075			\$87,075
Secondary Containments				CONT.415	\$25,700			\$25,700
Overhead Power Distribution (electric line to facility)			CONT.420	\$3,000			\$3,000
Facility Electrical & Automation					\$57,200			\$57,200
SWD Connection		Last not		CONT.430	\$0			\$0
Flow Lines (Line Pipe from wellhead to central facili	CONT.435	\$28,200			\$28,200			
Pipeline to Sales	CONT.440	\$0			\$0			
Meters and Metering Equipment	CONT.445	\$37,500			\$37,500			
Total Tangibles		\$347,773		\$71,800	\$1,307,573			
P&A Costs							NAME	\$0

\$465,273

\$411,477 \$9,882,750