OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2008

Mabel Bennett

Re:

Oil and Gas Lease SE/4 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Ms. Bennett,

According to our title research you own an undivided 1/128, or 1.25 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal Wolfcamp test located in the NW/4 SE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

Enclosed is a detailed AFE reflecting estimated well costs.

If you wish to participate and pay your proportionate share of well costs, please execute the AFE and return to the undersigned as soon as possible. Otherwise, in lieu of being subject to a compulsory pooling, you have the option to lease your minerals at the terms proposed above.

Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS



OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2008

The Blanco Co. P.O. Box 1310 Ruidoso, NM 88355

Re:

Oil and Gas Lease SE/4 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Sir or Madam,

According to our title research you own an undivided 1/64, or 2.5 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal Wolfcamp test located in the NW/4 SE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

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Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2008

Frankie Caudill

Re:

Oil and Gas Lease SE/4 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Ms. Caudill,

According to our title research you own an undivided 3/64, or 7.5 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal Wolfcamp test located in the NW/4 SE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

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Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2008

Bruce Crockett

Re:

Oil and Gas Lease

N/2 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Mr. Crockett

According to our title research you own an undivided 1/256, or 1.25 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal test located in the SW/4 NE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

Enclosed is a detailed AFE reflecting estimated well costs.

If you wish to participate and pay your proportionate share of well costs, please execute the AFE and return to the undersigned as soon as possible. Otherwise, in lieu of being subject to a compulsory pooling, you have the option to lease your minerals at the terms proposed above.

Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2008

Ruth Tandy Hoover 48 Main Street Gorham, ME 04038

Re:

Oil and Gas Lease

N/2 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Ms. Hoover,

According to our title research you own an undivided 1/144, or 2.2222 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal Wolfcamp test located in the SW/4 NE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

Enclosed is a detailed AFE reflecting estimated well costs.

If you wish to participate and pay your proportionate share of well costs, please execute the AFE and return to the undersigned as soon as possible. Otherwise, in lieu of being subject to a compulsory pooling, you have the option to lease your minerals at the terms proposed above.

Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

Shaw Interests, Inc. OIL & GAS PROPERTIES

MIDLAND, TX 79701

(432) 685-1404

310 W. Wall St. Ste. 305

March 6, 2007

Chris Johnson

Re:

Oil and Gas Lease

N/2 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Mr. Johnson,

According to our title research you own an undivided 1/216, or 1.48148 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal test located in the SW/4 NE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

Enclosed is a detailed AFE reflecting estimated well costs.

If you wish to participate and pay your proportionate share of well costs, please execute the AFE and return to the undersigned as soon as possible. Otherwise, in lieu of being subject to a compulsory pooling, you have the option to lease your minerals at the terms proposed above.

Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS



310 W. Wall St. Ste. 305

(432) 685-1404

March 7, 2008

Nugent Family Operating Company, L.P. 660 Preston Forest Center, Ste. 520 Dallas, TX 75230

Re: Well Proposal

SW/4NE/4 & NW/4SE/4 of Section 21 Township 15 South, Range 36 East Lea County, New Mexico

Dear Mr. Nugent,

According to our title research, the Nugent Family Operating Company, L.P. owns an undivided 1/64 interest in the SW/4NE/4 of Section 21, T15S-R36E, N.M.P.M. Enclosed is an AFE and a plat of the proposed proration unit for the Caudill South 21 Fee # 3. If you choose to participate in the drilling of the well, your dry hole costs will be \$19,421.88 and your after casing point costs will be \$7,972.66, bringing your total cost of drilling and completing the well to \$27,394.54. If you wish to participate, please sign and return the enclosed AFE to the above address.

We have also enclosed an Oil and Gas Lease for your review if you choose not to participate and want to lease your interest. If you choose to lease your interest, the terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty.

If you choose to lease your interest, please sign the lease in the presence of a Notary Public and thereafter return the lease along with the completed W-9 form to the above address. Upon receipt, we will process the lease and mail you a check in the amount of \$93.75 within thirty (30) days.

Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2008

Randall Pettigrew 14125 Desert Willow El Paso, TX 79938

Re:

Oil and Gas Lease

N/2 NW/4 & NE/4 of Section 21 Township 15 South, Range 36 East Lea County, New Mexico

Dear Mr. Pettigrew,

According to our title research you own an undivided 1/1600, or .2 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 flat rate bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal Wolfcamp test located in the SW/4 NE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

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Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2008

Margaret Tandy Rice 450 Gladycon Rd., #57 Colfax, CA 95713

Re:

Oil and Gas Lease N/2 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Ms. Rice,

According to our title research you own an undivided 1/144, or 2.2222 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal Wolfcamp test located in the SW/4 NE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

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Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

OIL & GAS PROPERTIES

310 W. Wall St. Ste. 305

MIDLAND, TX 79701

(432) 685-1404

March 6, 2007

Fred T. Schooler

Re:

Oil and Gas Lease

N/2 of Section 21

Township 15 South, Range 36 East

Lea County, New Mexico

Dear Mr. Schooler,

According to our title research you own an undivided 1/144, or 2.2222 net mineral acres under the above described lands. Enclosed is an Oil and Gas Lease for your review. The terms of this lease are a \$150.00 an acre bonus consideration, a three (3) year primary term and a one-fifth (1/5) royalty. Please be advised that our client, Cimarex Energy Co., proposes to drill a horizontal test located in the SW/4 NE/4 of Section 21, Township 15 South, Range 36 East, Lea County, New Mexico.

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Please do not hesitate to contact us with any questions. We look forward to your response.

Sincerely,

SHAW INTERESTS

COMPANY ENTI Cimarex Er		l						DATE PRE	EPARED cember 28, 1	2007
REGION	WELL NAME	WELL NO		ECT OR FIELD		PROPER	TY NUMBER		ORILLING AFE N	3
Permian	Caudill South 21 Fee	3H	S	tar-Dentor	1					
LOCATION	SHL 2000' FSL & 2200' FI	EL		COL	YTAL	S	TATE		TYPE WELL	
BHL 1700'	FNL & 2200' FEL			l				OIL	X EXPL	х
Sec 21, T15	S, R36E			Le	a	New	Mexico	GAS	PROD	,
ORIGINAL ESTIN	AATE X	_	EST. STA	RT DATE	EST. CO	MP. DATE	FORMA	TION	EST	T
REVISED ESTIM	ATE]					ļ		10900	TVD
SUPPLEMENTA	LESTIMATE	·			}		Wolfe	amp	12,360	MD

PROJECT DESCRIPTION:

Drill and complete a horizontal wolfcamp well.

INTANGIBLES	DRY HOLE COST	AFTER CASING POINT	COMPLETED WELL COST
Intangible Drilling Costs	\$2,201,000		\$2,201,000
Intangible Completion Costs		586,000	586,000
TOTAL INTANGIBLE COSTS	2,201,000	586,000	2,787,000
TANGIBLES			
Well Equipment	135,000	500,500	635,500
Lease Equipment		84,000	84,000
TOTAL TANGIBLE WELL COST	135,000	584,500	719,500
PLUG AND ABANDON COST	150,000	(150,000)	
TOTAL WELL COST:	\$2,486,000	\$1,020,500	\$3,506,500

Comments on Well Costs:

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 co	ontrol insura	nce policy.	
Mall combine	I income a new manual by Opposites		mana other terms	for \$20,000,000, (100% \ALL)

Well control insurance procured by Operator, provides, among other terms, for \$20,000.000 (100% W.I.) of Combined Single Limit coverage for well control and related redrilling and clean-up/pollution expense covering drilling (through completion) with a \$1,000,000 (100% W.I.) deductible.

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.

PREPARED BY DRILLING AND COMPLETION MANAGER REGIONAL MANAGER New Auran St. Drilling/Completion Engineer Douglers Mor Drilling/Completion Operations Regional Manager		CIMAREX ENERGY CO. APPROVAL	
Mark Aurias Sr. Dislico/Completion Engineer Doug Park Mor Disling/Completion Operations Regional Manager	PREPARED BY	DRILLING AND COMPLETION MANAGER	REGIONAL MANAGER
Permian Basin Offshore and Permian Regions Permian Basin			Roger Alexander, Regional Manager Permian Basin

	JOINT INTEREST APPROVAL	
COMPANY	BY	DATE



201.13

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



6 00 0

PROJECT COST ESTIMATE

LEASE NAME: Caudill South 21 Fee

WELL NO .:

3H

				·				
INTANGIDI ES				Codes	DRY HOLE		AFTER CASING	
INTANGIBLES ROADS & LOCATION PREPARATION / RESTORATION					\$100,000	DICC,100	POINT \$2,000	\$102,000
DAMAGES				DIDC 100	\$60,000	DICC.105	42,000	\$60,000
MUD/FLUIDS DISPOSAL CHARGES				DIDC.255	\$20,000	DICC 235	\$5,000	\$25,000
DAY RATE 42 DH DAYS 4 ACP I			PER DAY	DIDC:115	\$669,000	DICC. 120	\$62,000	\$731,000
MISC PREPARATION COST (mouse hole, rat hole, pads, p	ile clusters, n	nisc.)		DIDC.120	\$8,000			\$8,000
BITS				DIDC.125	\$80,000	DICC. 125	\$1,000	\$81,000
FUEL \$2.70 PER GALLON				DIDC.135	\$91,000	DICC 130	\$1,000	\$92,000
WATER / COMPLETION FLUIDS MUD & ADDITIVES				DIDC.140	\$29,400	DICC.135	\$15,000	\$44,400
SURFACE RENTALS				DIDC.145	\$58,800 \$74,000	DICC 140	\$30,000	\$58,800
DOWNHOLE RENTALS				DIDC. 155	\$96,000	DICC 145	\$20,000	\$104,000 \$116,000
FORMATION EVALUATION (DST, Coring including evaluat	ion, G&G SE	RVICES)		DIDC. 160	V22,222	0111111		0110.000
	PER DAY			DIDC.170	\$34,000			\$34,000
OPEN HOLE LOGGING				DIDC.180	\$75,000			\$75,000
CEMENTING & FLOAT EQUIPMENT				DIDC.185	\$70,000	DICC.155	\$30,000	\$100,000
TUBULAR INSPECTIONS				DIDC, 190	\$3,000	DICC.160	\$2,000	\$5,000
CASING CREWS				010C.195	\$19,000	DICC 165	\$18,000	\$37,000
EXTRA LABOR, WELDING, ETC.				DIDC.200	\$25,200	DICC.170	\$5,000	\$30,200
LAND TRANSPORTATION (Trucking)				DIDC.205	\$12,600	DICC.175	\$4,000	\$16,600
SUPERVISION				DIDC.210	\$59,000	DICC,180	\$14,400	\$73,400
TRAILER HOUSE/CAMP/CATERING				DIDC.280	\$21,000	DICC.255	\$3,000	\$24,000
OTHER MISC EXPENSES OVERHEAD			·····	DIDC.220 DIDC.225	\$5,000 \$13,000	DICC.190 DICC.195	\$5,000 \$2,400	\$10,000 \$15,400
REMEDIAL CEMENTING				DIDC.231	\$13,000	DICC.215	\$2.400	\$13,400
MOB/DEMOB				DIDC.240	\$120,000	VIIII		\$120,000
	DAYS @	12300	PER DAY	DIDC.245	\$148,000			\$148,000
DOCK, DISPATCHER, CRANE		12300	19711	DIDC.250	\$1,40,000	DICC.230	Y CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	\$ 140,000
MARINE & AIR TRANSPORTATION				DIDC.275		DICC.250		
SOLIDS CONTROL		·····		DIDC.260	\$97,000	00000		\$97,000
WELL CONTROL EQUIP (Snubbing services)				DIDC.265	\$41,000	DICC,240	\$21,000	\$62,000
FISHING & SIDETRACK OPERATIONS		······································		DIDC.270	\$60,000	DICC.245		\$60,000
COMPLETION RIG 8 DAYS @	4400	PER DAY				DICC.115	\$35,200	\$35,200
COIL TUBING 1 DAYS @	38000	PER DAY				DICC.260	\$38,000	\$38,000
COMPLETION LOGGING, PERFORATING, WL UNITS, W	L SURVEYS					DICC.200	\$6,000	\$6,000
STIMULATION						DICC.210	\$200,000	\$200,000
LEGAL/RÉGULATORY/CURATIVE				DIDC.300	\$3,000	DICC.280		\$3,000
WELL CONTROL INSURANCE \$0.35 PER	FOOT			DIDC.285	\$4,000			\$4,000
CONTINGENCY 5% OF DRILLING I	NTANGIBLES	5		DIDC.435	\$105,000	DICC.220	\$26,000	\$131,000
CONSTRUCTION FOR WELL EQUIPMENT						DWEA.110	\$1,000	\$1,000
CONSTRUCTION FOR LEASE EQUIPMENT				14444		DLEQ.110	\$39,000	\$39,000
CONSTRUCTION FOR SALES PAL				<i>\(\(\(\(\(\) \)</i>		DICC.265		
	15-9/8/00/00/07/11/E	11 17 14 1887 1 1857 14				prompt pro-y	100 5000 2002000	and the second second
TOTAL INTANGIBLE COST			21/11 - 12/11/11	(V	\$2,201,000	Printer	\$586,000	\$2,787,000
TANGIBLE - WELL EQUIPMENT				 	 			
CASING	SIZE	FEET	\$/FOOT	 	 	 	 	
DRIVE PIPE	20*	40	100.00	DWEB. 150	4,000	mm)		\$4,000
CONDUCTOR PIPE	1 20		100.00	DWEB. 130	 			
WATER STRING	 			OWEB. 135				
SURFACE CASING	13-3/8"	600	44.00	DWEB.140				\$26,000
INTERMEDIATE CASING	8-5/8"	4,500	20.00	DWE8.145				\$90,000
DRILLING LINER	7"			DWEB. 145	5			
DRILLING LINER				DWEB.145				
PRODUCTION CASING OR LINER	5 1/2"	9,800	17,80			DWEA.100	174,000	\$174,000
PRODUCTION TIE-BACK						DWEA.100		
TUBING	2 7/8"	12,400	6.50	<i>¥4444</i>		DWEA 10		\$81,000
N/C WELL EQUIPMENT				<i>Willia</i>		DWEA.115		\$9,000
WELLHEAD, TREE, CHOKES				DWEB.115			· · · · · · · · · · · · · · · · · · ·	\$47,000
LINER HANGER, ISOLATION PACKER				DWEB. 100		DWEA 125		\$82,000
PACKER, NIPPLES				WHHH		DWEA.130		500.000
PUMPING UNIT, ENGINE				WHHH		DLEQ.100		\$98,000
LIFT EQUIPMENT (BHP. Rods, Anchors)				<i>yuuu</i>		DLEQ.105	\$24,500	\$24,500
TANGIBLE - LEASE EQUIPMENT				חווווס		DLEQ.115	\$44,000	\$44,000
N/C LEASE EQUIPMENT				VIIII		DLEQ.120		\$21,000
				<i>\\\\\\\</i>	X///////////	DLEQ.125		\$18,000
TANKS, TANKS STEPS, STAIRS	ment)			\/////	<i>*////////////////////////////////////</i>	DLEQ.130		\$1,000
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Gas Treating Equip	ment)			1///////				
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Gas Treating Equip FLOW LINES (Line Pipe from wellhead to central facility)						9		
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Gas Treating Equip FLOW LINES (Line Pipe from wellhead to gentral facility) OFFSHORE PRODUCTION STRUCTURE FOR FACILITIE						DWEA.135		
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Gas Treating Equip FLOW LINES (Line Pipe from wellhead to central facility)						9		
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Gas Treating Equip) FLOW LINES (Line Pipe from wellhead to central facility) OFFSHORE PRODUCTION STRUCTURE FOR FACILITIE PIPELINES TO SALES	S	57/90/793644.	A.S Str. 57.77		\$136,000	DWEA.140	5 8	
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Gas Treating Equip FLOW LINES (Line Pipe from wellhead to gentral facility) OFFSHORE PRODUCTION STRUCTURE FOR FACILITIE	S	STERRES			\$135,000	DWEA.140		
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Ges Treating Equip FLOW LINES (Line Pipe from wellhead to central facility) OFFSHORE PRODUCTION STRUCTURE FOR FACILITIE PIPELINES TO SALES TOTAL TANGIBLES	S	enen maner.				DWEA.130	\$584,500	
TANKS, TANKS STEPS, STAIRS BATTERY (Heater Treater, Separator, Gas Treating Equip FLOW LINES (Line Pipe from wellhead to central facility) OFFSHORE PRODUCTION STRUCTURE FOR FACILITIE PIPELINES TO SALES TOTAL TANGIBLES	S	\$7170131\$W\$\$.	48 g(-35)	DIOC 295		DWEA.130	5 8	

DRILLING PROGNOSIS



07-Jan-08

Caudill South 21 Fee #3H Well:

Location: Sec 21, T15S-R36E County, State

Lea, NM

Surface Location: 2000' FSL & 2200' FEL

Dee Smith

Bottomhole Loc: 1700' FNL & 2200' FEL

E-Mail:

Wellhead:

Xmas Tree

Tubing:

. at .

Field: Objective:

Wolfcamp TVD/MD:

Co. Well ID:

Lse Serial #:

AFE No.:

API No.:

MD Vert 10,900'/MD Horizontal 12,410'/TVD Horizontal 10,671'

Cementing:

Mud:

Motors:

OH Logs

Black Viper - Randali Taylor - 432-561-8801 No E-Logs; MWD-GR thru lateral

Rig:

Star/ Denton

Superintendent: Engineer: Mark Audas

Offset Wells:

Hole Size	Formation Tops Other	Logs	Bit IADC	Cement	Mud Weight
17 1/2"	16" Conductor @ ±80' GL			20 bbi FW spacer Lead: 290 sx Light Premium phrs w 0.125 lbsk Foly-E- Flake 1-1% CaCl Tail: 220 sk Premium Plus + 2% CaCl TOC @ surface	8.5 - 8.8 ppg FW
11"	Rustier @ 1997' Yates @ 3080" Seven Rivers @ 3278' Queen @ 3916' San Andrea @ 4387' 8 5/8" 32 ppf, J/K55, LTC @ 4500'			10 bbi FW spacer Lead: 702 sis Interfit C + 125 ibsk Poly-E-Flake 2.45f336k 7all: 200 sis Premium Plus + 1% CaCl 1.33 f135k TOC @ surface	10 ppg brine
7 7 18 W/S @ 10,443* ← TOWIN @ 10,445* ← BOWIN @ 10,455* ← KOP @ 10,455* ← CIBP @ 10,450*+	Glorieta @ 6637' Blinebry @ 6867' Tubb @ 7456' Drinkard @ 7597' Abo @ 8513' Wolfcamp @ 9681' Wolfcamp B @ 10030' Wolfcamp C @ 10409' Wolfcamp C Pay @ 10,665' 4-3/4" hole Run three (3) stage assembly on 2 778' EUE 8rd tubing (1500' Vert sec) Wolfcamp E 10799' 5 1/2" 17.0 ppf, P110, LTC @ 10,900'		0	SPAGE 1 Spacer: 10 ppg Super Flush 101 12 bbls Lead: 412 ax Inteffil H + additives 11.9 ppg 2.45 cilsk Tall: 253 skSuper H + .5% Hatad-344 + 4% CFR.3 + libritsk saft + 5 fusk Gilsoni + .125 livsk PolyEflace +,35% HR-7 sks 13.0 ppg 1.67 cilsk TOC 4300* Tall @ 9000*	9-8.5 Brine 2%KCL in lateral

NOTES:

Install rattaing head on 13-3/8" Then after setting 8-5/8" in silps and installing the cag spool, NU BOP (5M) w/ rotating head and test BOP to 5M w/ test unit. Test casing.

Cement volumes for surface csg include a 100% excess in the open hole section. If drilling conditions deem necessary, fluid caliper hole and adjust volumes. Cement volumes for intermediate csg include a 70% excess in the open hole section. If drilling conditions deem necessary, fluid caliper hole and adjust

Cement volumes for production csg include a 25% excess in the open hole section. Adjust volumes after caliper + 25% excess.

ALL INVOICES ARE TO SHOW CIMAREX ENERGY AS OPERATOR AND USE CIMAREX ACCOUNTING CODES.