

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

**IN THE MATTER OF THE HEARING CALLED  
BY THE OIL CONSERVATION DIVISION FOR  
THE PURPOSE OF CONSIDERING:**

**APPLICATION OF CIMAREX ENERGY CO. FOR  
A NON-STANDARD OIL SPACING AND PRORATION  
UNIT AND COMPULSORY POOLING, LEA COUNTY,  
NEW MEXICO.**

**Case No. 14,154**

**VERIFIED STATEMENT OF CARL SPEIGHT**

Carl Speight, being duly sworn upon his oath, deposes and states:

1. I am a landman for Cimarex Energy Co., and have personal knowledge of the matters stated herein.
2. Pursuant to Division Rule 1210.A(1)(b), the following information is submitted in support of the application:
  - (a) No opposition to this application is expected because the working interest owners being pooled have simply not responded to well proposals.
  - (b) A plat outlining the spacing unit being pooled, and marking the location of the proposed well, is attached hereto as Exhibit A. Applicant seeks an order pooling all mineral interests in the Wolfcamp formation underlying the E/2NE/4 of Section 23, Township 15 South, Range 37 East, NMPM, to form a non-standard 80-acre oil spacing and proration unit (project area) for any and all formations or pools developed on 40-acre spacing, including the Denton-Wolfcamp Pool, and pooling all mineral interests in the Wolfcamp formation underlying the non-standard unit. The unit will be dedicated to the Blanca 23 Fee Well No. 1, a horizontal well to be drilled at a surface location 2160 feet from the north line and 480 feet from the east line of Section 23, with a terminus 330 feet from the north line and 480 feet from the east line of Section 23. The well unit is non-standard because of the horizontal well.
  - (c) The parties being pooled, their interests in the well unit, and their last known addresses, are listed on Exhibit B. The E½NE¼ of Section 23 is comprised of fee lands.
  - (d) Copies of the proposal letters sent to the uncommitted mineral interest owners are attached hereto as Exhibit C.

Oil Conservation Division  
Case No. \_\_\_\_\_  
Exhibit No. 1

(e) Cimarex Energy Co. has made a good faith effort to obtain the voluntary joinder of interest owners in the well.

(f) The offset operators or lessees of all acreage surrounding the well unit are as follows:

(i) SE¼ of Section 14.  
Lynx Petroleum Co., Inc.

(ii) Section 13.  
Cimarex Energy Co.

(iii) Section 24.  
Cimarex Energy Co.

(iv) W½NE¼ and SE¼ of Section 23.  
Same as the interest owners in the proposed well unit. No additional notice was given to them regarding the non-standard unit portion of the application.

(g) Pursuant to Division rules, applicant requests that a 200% risk charge be assessed against non-consenting interest owners.

(h) A copy of the Authority for Expenditure for the proposed well is attached hereto as Exhibit D. The drilling and completion costs set forth therein are fair and reasonable, and are comparable to those of other wells of this depth drilled in this area of Lea County.

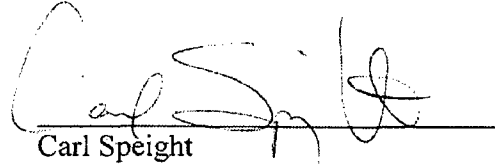
(i) Overhead charges of \$6000/month for a drilling well, and \$600/month for a producing well, are requested. These rates are fair and reasonable, and are in line with rates charged by other operators in this area for wells of this depth. Cimarex Energy Co. requests that the rates be adjusted under the COPAS accounting procedure.

(j) Applicant requests that it be designated operator of the well.

VERIFICATION


STATE OF TEXAS            )  
                                      ) ss.  
COUNTY OF MIDLAND    )

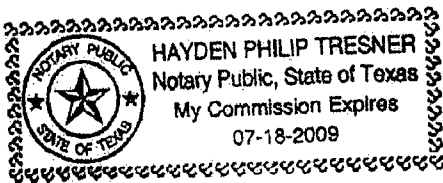
Carl Speight, being duly sworn upon his oath, deposes and states that: He is a landman for Cimarex Energy Co.; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

  
\_\_\_\_\_  
Carl Speight

SUBSCRIBED AND SWORN TO before me this 15<sup>th</sup> day of August, 2008 by Carl Speight.

My Commission Expires: 7-18-2009

  
\_\_\_\_\_  
Notary Public





DISTRICT I  
1826 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III  
1000 Rio Drazus Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>3D - 025-38955</b>		Pool Code <b>17290</b>	Pool Name <b>Denton; Wolfcamp Wildcat</b>
Property Code <b>37183</b>	Property Name <b>BLANCA "23" FEE</b>		Well Number <b>1</b>
OCRID No. <b>215099</b>	Operator Name <b>CIMAREX ENERGY CO.</b>		Elevation <b>3774'</b>

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	15 S	37 E		2160	NORTH	480	EAST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	23	15 S	37 E		330	NORTH	480	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

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

<p><b>BOTTOM HOLE LOCATION</b> Lat - N33°00'33.12" Long - W103°09'49.75" NMSPC - N 732876.910 E 899855.606 (NAD 83)</p> <p><b>SURFACE LOCATION</b> Lat - N33°00'15.02" Long - W103°09'49.73" NMSPC - N 731047.3 E 899877.7 (NAD 83)</p> <p><b>Penetration Point Wolfcamp - 9319' TVD 2087' FNL &amp; 480' FEL</b></p>		<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Zeno Farris</i> 05-29-08 Signature Date</p> <p>Zeno Farris Printed Name</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>MAY 21 2008 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature Professional Surveyor</p> <p>7977 Certificate No.</p> <p>BASIN SURVEYS</p>	

Samson Resources Company  
Two West 2<sup>nd</sup> Street, Suite 1800  
Tulsa, OK 74103

25.0%

Chaparral Energy, L.L.C.  
701 Cedar Lake Blvd.  
Oklahoma City, OK 73114

25.0%

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EXHIBIT

**B**



May 19, 2008

Samson Resources  
Attn: Tom Land  
200 N. Loraine, Suite #1010  
Midland, Texas 79701

RE: **Blanca 23, Fee #1**  
**SHL: 2160' FNL, 480' FEL**  
**BHL: 330' FNL, 480' FEL**  
**E/2NE/4 Section 23, T15S, R37E**  
**Lea County, NM**

Gentlemen:

Cimarex Energy Co, proposes to drill the above described horizontal well to a total vertical depth of 9,800' and to a measured depth of 11,140' in order to test the Wolfcamp Formation. Enclosed you will find (2) two copies of an AFE covering the drilling, completion and equipping costs for the proposed well. A proposed Joint Operating Agreement shall be forwarded to you, under separate cover, as soon as possible.

We invite you to participate in this well by executing and returning to myself, at the letterhead address one (1) executed copy of the AFE. According to our records, Samson has an 25.0% interest in the E/2NE/4.

Should you have any questions, please contact myself at 432.571.7845. Thank you for your consideration.

Sincerely,

Carl Speight  
Landman

EXHIBIT

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Samson Resources  
Attn: Tom Land  
200 N. Loraine, Suite # 1010  
Midland, Texas 79701

2. Article Number

(Transfer from service label)

7007 0710 0003 0314 4830

S Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

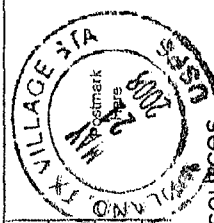
A. Signature Jean Mamed Agent  
B. Received by (Printed Name) Jean Mamed Addressee  
C. Date of Delivery 5-2-08  
D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☒ No

3. Service Type  
☒ Certified Mail  
☐ Registered  
☐ Insured Mail  
☐ Express Mail  
☐ Return Receipt for Merchandise  
☐ C.O.D.  
4. Restricted Delivery? (Extra Fee) ☐ Yes ☐ No

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**



Postage \$	
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Samson Resources  
Attn: Tom Land  
200 N. Loraine, Suite # 1010  
Midland, Texas 79701

Sent To  
Street, Apt. No.  
or PO Box No.  
City, State, Zip

PS Form 3800, August 2005 See Reverse for Instructions

2007 0710 0003 0314 4830





May 19, 2008

Chaparral Energy, LLC  
Attn: Sandy Ellis  
701 Cedar Lake Blvd.  
Oklahoma City, OK 73114

RE: Blanca 23, Fee #1  
SHL: 2160' FNL, 480' FEL  
BHL: 330' FNL, 480' FEL  
E/2NE/4 Section 23, T15S, R37E  
Lea County, NM

Gentlemen:

Cimarex Energy Co, proposes to drill the above described horizontal well to a total vertical depth of 9,800' and to a measured depth of 11,140' in order to test the Wolfcamp Formation. Enclosed you will find (2) two copies of an AFE covering the drilling, completion and equipping costs for the proposed well. A proposed Joint Operating Agreement shall be forwarded to you, under separate cover, as soon as possible.

We invite you to participate in this well by executing and returning to myself, at the letterhead address one (1) executed copy of the AFE. According to our records, Chaparral has an 25.0% interest in the E/2NE/4.

Should you have any questions, please contact myself at 432.571.7845. Thank you for your consideration.

Sincerely,  
A handwritten signature in black ink, appearing to read "J. D. Ellis". The signature is written in a cursive, flowing style with a large initial "J" and a distinct "E".

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Chaparral Energy, LLC  
Attn: Sandy Ellis  
701 Cedar Lake Blvd.  
Oklahoma City, OK 73114

2. Article Number

(Transfer from service label)

7007 0710 0003 0314 4847

PS Form 3811, February 2004

Domestic Return Receipt

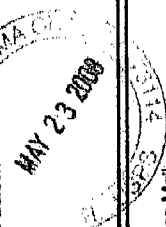
10595-02-000-1540

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature ☒ Agent ☐ Addressee  
*[Signature]*

B. Received by (Printed Name) *RYAN GINTIS* C. Date of Delivery *5/23/08*

D. Is delivery address different from item 1? ☐ Yes ☐ No  
If YES, enter delivery address below:



3. Service Type ☒ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes ☐ No

**U.S. Postal Service™  
CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only: No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL**

Postage \$ *21.00*

Certified Fee *2.00*

Return Receipt Fee (Endorsement Required) *0.00*

Restricted Delivery Fee (Endorsement Required) *0.00*

Total Postage *23.00*

Sent to *Chaparral Energy, LLC*  
*Attn: Sandy Ellis*  
*701 Cedar Lake Blvd.*  
*Oklahoma City, OK 73114*

Postmark Here *OKLAHOMA CITY, OK MAY 23 2008*

2007 0710 0003 0314 4847

PS Form 3800, August 2006



# AUTHORIZATION FOR EXPENDITURE

COMPANY ENTITY <b>Cimarex Energy Co.</b>				DATE PREPARED <b>May 5, 2008</b>	
REGION <b>Permian</b>	WELL NAME <b>Blanca 23 Fee</b>	WELL NO. <b>1</b>	PROSPECT OR FIELD NAME <b>Denton East</b>	PROPERTY NUMBER <b>309501-035.01</b>	DRILLING AFE NO. <b>258094</b>
LOCATION <b>SHL 2160' FNL &amp; 480' FEL BHL 330' FNL &amp; 480' FEL Sec 23, T15S, R37E</b>			COUNTY <b>Lea</b>	STATE <b>New Mexico</b>	OIL <input checked="" type="checkbox"/> TYPE WELL GAS <input checked="" type="checkbox"/> EXPL <input checked="" type="checkbox"/> PROD
ORIGINAL ESTIMATE <input checked="" type="checkbox"/>	REVISED ESTIMATE <input type="checkbox"/>	SUPPLEMENTAL ESTIMATE <input type="checkbox"/>	EST. START DATE	EST. COMP. DATE	FORMATION <b>Wolfcamp</b>
				EST. TO <b>9800'</b>	TVD <b>11,140'</b>

## PROJECT DESCRIPTION:

Drill and complete a horizontal (1880') wolfcamp well.

<u>INTANGIBLES</u>	<u>DRY HOLE COST</u>	<u>AFTER CASING POINT</u>	<u>COMPLETED WELL COST</u>
Intangible Drilling Costs	\$1,901,200		\$1,901,200
Intangible Completion Costs		598,600	598,600
<b>TOTAL INTANGIBLE COSTS</b>	<b>1,901,200</b>	<b>598,600</b>	<b>2,499,800</b>
<u>TANGIBLES</u>			
Well Equipment	156,000	497,000	653,000
Lease Equipment		84,000	84,000
<b>TOTAL TANGIBLE WELL COST</b>	<b>156,000</b>	<b>581,000</b>	<b>737,000</b>
PLUG AND ABANDON COST	150,000	(150,000)	
<b>TOTAL WELL COST:</b>	<b>\$2,207,200</b>	<b>\$1,029,600</b>	<b>\$3,236,800</b>

## 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.

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.

CIMAREX ENERGY CO. APPROVAL		
PREPARED BY Mark Audas, Sr. Drilling/Completion Engineer Permian Basin	DRILLING AND COMPLETION MANAGER Doug Park, Mgr Drilling/Completion Operations Offshore and Permian Regions	REGIONAL MANAGER Roger Alexander, Regional Manager Permian Basin
JOINT INTEREST APPROVAL		
COMPANY	BY	DATE

8/6/2008 9:28 AM

EXHIBIT



# PROJECT COST ESTIMATE

LEASE NAME: Blanca 23 Fee

WELL NO.:

1

INTANGIBLES	Codes	DRY HOLE COST	Codes	AFTER CASING POINT	COMPLETED WELL COST
ROADS & LOCATION PREPARATION / RESTORATION	DICC.100	\$100,000	DICC.100	\$2,000	\$102,000
DAMAGES	DICC.105	\$4,000	DICC.105		\$4,000
MUD/FLUIDS DISPOSAL CHARGES	DICC.255	\$20,000	DICC.235	\$5,000	\$25,000
DAY RATE 33 DH DAYS 5 ACP DAYS @ PER DAY	DICC.115	\$522,000	DICC.120	\$77,000	\$599,000
MISC PREPARATION COST (mouse hole, rat hole, pads, pile clusters, misc.)	DICC.120	\$8,000			\$8,000
BITS	DICC.125	\$80,000	DICC.125	\$1,000	\$81,000
FUEL \$3.20 PER GALLON	DICC.135	\$84,000	DICC.130	\$1,000	\$85,000
WATER / COMPLETION FLUIDS	DICC.140	\$23,100	DICC.135	\$15,000	\$38,100
MUD & ADDITIVES	DICC.145	\$46,200			\$46,200
SURFACE RENTALS	DICC.155	\$74,000	DICC.140	\$30,000	\$104,000
DOWNHOLE RENTALS	DICC.155	\$91,000	DICC.145	\$20,000	\$111,000
FORMATION EVALUATION (DST, Coring including evaluation, G&G SERVICES)	DICC.160				
MUD LOGGING 30 DAYS @ \$800 PER DAY	DICC.170	\$34,000			\$34,000
OPEN HOLE LOGGING	DICC.180	\$50,000			\$50,000
CEMENTING & FLOAT EQUIPMENT	DICC.185	\$75,000	DICC.155	\$30,000	\$105,000
TUBULAR INSPECTIONS	DICC.190	\$2,000	DICC.160	\$2,000	\$4,000
CASING CREWS	DICC.195	\$19,000	DICC.165	\$18,000	\$37,000
EXTRA LABOR, WELDING, ETC.	DICC.200	\$19,800	DICC.170	\$5,000	\$24,800
LAND TRANSPORTATION (Trucking)	DICC.205	\$23,100	DICC.175	\$4,000	\$27,100
SUPERVISION	DICC.210	\$36,000	DICC.180	\$12,000	\$48,000
TRAILER HOUSE/CAMP/CATERING	DICC.280	\$17,000	DICC.255	\$3,000	\$20,000
OTHER MISC EXPENSES	DICC.220	\$5,000	DICC.190	\$5,000	\$10,000
OVERHEAD	DICC.225	\$10,000	DICC.195	\$2,400	\$12,400
REMEDIAL CEMENTING	DICC.231		DICC.215		
MOB/DEMOB	DICC.240	\$110,000			\$110,000
DIRECTIONAL DRILLING SERVICES 14 DAYS @ 11000 PER DAY	DICC.245	\$154,000			\$154,000
DOCK, DISPATCHER, CRANE	DICC.250		DICC.230		
MARINE & AIR TRANSPORTATION	DICC.275		DICC.250		
SOLIDS CONTROL	DICC.280	\$86,000			\$86,000
WELL CONTROL EQUIP (Snubbing services)	DICC.265	\$36,000	DICC.240	\$21,000	\$57,000
FISHING & SIDETRACK OPERATIONS	DICC.270	\$75,000	DICC.245		\$75,000
COMPLETION RIG 8 DAYS @ 4400 PER DAY			DICC.115	\$35,200	\$35,200
COIL TUBING 1 DAYS @ 38000 PER DAY			DICC.280	\$38,000	\$38,000
COMPLETION LOGGING, PERFORATING, WL UNITS, WL SURVEYS			DICC.200	\$25,000	\$25,000
STIMULATION			DICC.210	\$180,000	\$180,000
LEGAL/REGULATORY/CURATIVE	DICC.300	\$3,000	DICC.280		\$3,000
WELL CONTROL INSURANCE \$0.35 PER FOOT	DICC.285	\$3,000			\$3,000
CONTINGENCY 5% OF DRILLING INTANGIBLES	DICC.435	\$91,000	DICC.220	\$27,000	\$118,000
CONSTRUCTION FOR WELL EQUIPMENT			DWEA.110	\$1,000	\$1,000
CONSTRUCTION FOR LEASE EQUIPMENT			DLEQ.110	\$39,000	\$39,000
CONSTRUCTION FOR SALES P/L			DICC.285		
<b>TOTAL INTANGIBLE COST</b>		<b>\$1,901,200</b>		<b>\$598,600</b>	<b>\$2,499,800</b>
<b>TANGIBLE - WELL EQUIPMENT</b>					
CASING	SIZE	FEET	\$/FOOT		
DRIVE PIPE 20"	40	100.00	DWEB.130	4,000	\$4,000
CONDUCTOR PIPE			DWEB.130		
WATER STRING			DWEB.135		
SURFACE CASING 13-3/8"	800	43.89	DWEB.140	26,000	\$26,000
INTERMEDIATE CASING 8-5/8"	4,450	21.50	DWEB.145	96,000	\$38,000
DRILLING LINER 7"			DWEB.145		
DRILLING LINER			DWEB.145		
PRODUCTION CASING OR LINER 5 1/2"	9,800	20.00	DWEA.100	196,000	\$196,000
PRODUCTION TIE-BACK			DWEA.100		
TUBING 2 7/8"	11,100	7.00	DWEA.105	78,000	\$78,000
N/C WELL EQUIPMENT			DWEA.115	\$9,000	\$9,000
WELLHEAD, TREE, CHOKES			DWEB.115	30,000	\$50,000
LINER HANGER, ISOLATION PACKER			DWEB.100		
PACKER, NIPPLES			DWEA.130	\$85,000	\$85,000
PUMPING UNIT, ENGINE			DLEQ.100	\$90,000	\$90,000
LIFT EQUIPMENT (BHP, Rods, Anchors)			DLEQ.105	\$19,000	\$19,000
<b>TANGIBLE - LEASE EQUIPMENT</b>					
N/C LEASE EQUIPMENT			DLEQ.115	\$44,000	\$44,000
TANKS, TANKS STEPS, STAIRS			DLEQ.120	\$21,000	\$21,000
BATTERY (Heater Treater, Separator, Gas Treating Equipment)			DLEQ.125	\$18,000	\$18,000
FLOW LINES (Line Pipe from wellhead to central facility)			DLEQ.130	\$1,000	\$1,000
OFFSHORE PRODUCTION STRUCTURE FOR FACILITIES			DWEA.135		
PIPELINES TO SALES			DWEA.140		
<b>TOTAL TANGIBLES</b>		<b>\$156,000</b>		<b>\$681,000</b>	<b>\$737,000</b>
<b>P&amp;A COSTS</b>	DICC.205	150,000	DICC.275	(150,000)	
<b>TOTAL COST</b>		<b>\$2,207,200</b>		<b>\$1,029,600</b>	<b>\$3,236,800</b>



## DRILLING PROGNOSIS

#####

Well: Blanca 23 Fee #1

Location: Sec 23, T15S-R37E

County, State: Lea, NM

Surface Location: 2160' FNL &amp; 480' FEL

Bottomhole Loc: 330' FNL &amp; 480' FEL

E-Mail:

Wellhead:

Sec A: 11" 5M BY 13 5/8" SOW

Sec B: 7 1/16" 5M BY 11" 5M

Xmas Tree

Tubing: 2-7/8" 6.5ppf L/N80

Superintendent: Jim Evans

Engineer: Mark Audas

Co. Well ID:

AFE No.:

API No.:

Lse Serial #

Field: Star/ Denton

Objective: Wolfcamp

TVD/MD: 5MD Vert 9800'/MD Horizontal 11,140'/TVD Horizontal 9338'

Cementing:

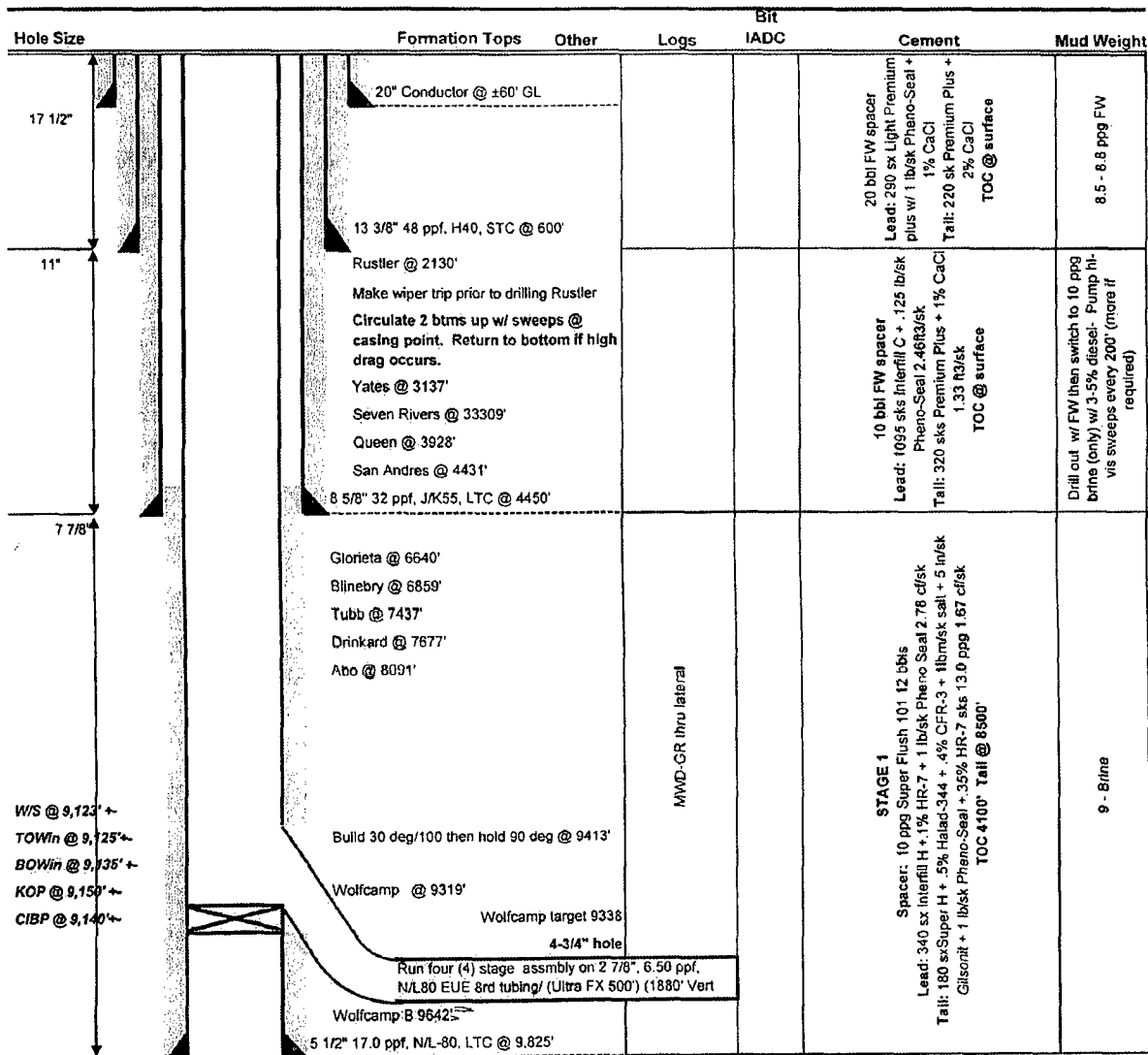
Mud: MI

Motors:

OH Logs: No E-Logs; MWD-GR thru lateral

Rig:

Offset Well:



## NOTES:

NU rotating head on 13-3/8". Install wellhead on 8-5/8", 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 volumes.  
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.