

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

Operator: License # 33094
Name: Cimarex Energy Co.
Address: 15 E. 5th Street, Ste 1000
City/State/Zip: Tulsa, OK 74103
Purchaser: CESI
Operator Contact Person: Amy Warren
Phone: (918) 585-1100 Ext 1630
Contractor: Name: Cheyenne Drilling
License: 3337
Wellsite Geologist: none

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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

<u>07-05-04</u>	<u>07-07-04</u>	<u>07-21-04</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 055-21840 - 0000
County: Finney
NW NW Sec. 20 Twp. 26 S. R. 31 East West
375 feet from S (circle one) Line of Section
2590 feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Lightner Well #: 1-2
Field Name: Hugoton
Producing Formation: Chase
Elevation: Ground: 2838 Kelly Bushing: 6-0 2842
Total Depth: 29815 Plug Back Total Depth: 2745
Amount of Surface Pipe Set and Cemented at 1055 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
ALT II WITH 4-24-07
Chloride content est 2000 ppm Fluid volume est 1000 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No. KCC WICHITA
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

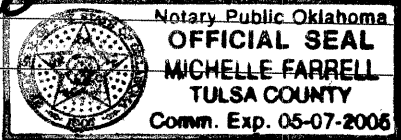
Signature: Amy Warren

Title: Drilling Technician Date: 9/2/04

Subscribed and sworn to before me this 2 day of September, 2004.

Notary Public: Michelle Farrell

Date Commission Expires: 5-05



KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Cimarex Energy Co. Lease Name: Lightner Well #: 1-2
 Sec. 20 Twp. 26 S. R. 31 East West County: Finney

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

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List All E. Logs Run:

**Cased Hole Compensated Neutron
 GR/CCL Log**

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/4"	8 5/8"	24#	1055	common	550	2% CC
production	7 7/8"	5 1/2"	14#	2813	Class C, Class H	525	4% D020, 1% S001

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2648-2684	26752 gals 70Q WF130 40720# 16/30 sand	
	B1		

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	2323'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
07-23-04		<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	200	0	0	0

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval Other (Specify) _____

DRILLER'S LOG

CIMAREX ENERGY COMPANY
LIGHTNER 1-2
SECTION 20-T26S-R31W
FINNEY COUNTY, KANSAS

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COMMENCED: 07-05-04
COMPLETED: 07-08-04

SURFACE CASING: 1054' OF 8 5/8" CMTD
W/125 SKS COMM + 2%CC TAILED W/425
SKS LITE + 2% CC + 1/4#/SK FLOCELE

FORMATION	DEPTH
SURFACE HOLE	0 - 1065
RED BED	1065 - 1348
GLORIETTA	1348 - 1536
LIMESTONE & SHALE	1536 - 2815 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

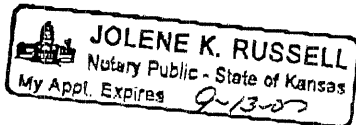
WRAY VALENTINE

STATE OF KANSAS: ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 8TH DAY OF JULY, 2004

JOLENE K. RUSSELL

NOTARY PUBLIC



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ALLIED CEMENTING CO., INC. 13494

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

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SERVICE POINT:
OAKLEY

DATE <u>7-6-04</u>	SEC <u>20</u>	TWP. <u>26S</u>	RANGE <u>51W</u>	ON LOCATION <u>3.5 miles W</u>	JOB START <u>10:00 AM</u>	JOB FINISH <u>11:00 AM</u>
LEASER <u>LEIGHTNER</u>	WELL# <u>1-2</u>	LOCATION <u>GARDEN CITY 105-720-5 IN</u>	COUNTY <u>FINNEY</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)						

CONTRACTOR CHEYENNE DRILLING REG #8 OWNER CINARX ENERGY CO.

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 1065

CASING SIZE 8 7/8" DEPTH 1065

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 7000 PSI MINIMUM 1500 PSI

MEAS. LINE SHOE JOINT 42.20'

CEMENT LEFT IN CSG. 42.20'

PERFS.

DISPLACEMENT 16 5/8 BBL.

CEMENT

AMOUNT ORDERED 125 SKS COM 2800
425 SKS LETS 2800 1/4" FLO-SHIL

COMMON	<u>125 SKS</u>	@	<u>8.85</u>	<u>1106.25</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>12 SKS</u>	@	<u>30.00</u>	<u>360.00</u>
LETS	<u>425 SKS</u>	@	<u>8.15</u>	<u>3463.75</u>
FLO-SHIL	<u>106"</u>	@	<u>1.40</u>	<u>148.40</u>
HANDLING	<u>584 SKS</u>	@	<u>1.25</u>	<u>730.00</u>
MILEAGE	<u>259 MI</u>	@	<u>4.50</u>	<u>1165.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

191 HELPER WAYNE

BULK TRUCK DRIVER LARRY

212

BULK TRUCK DRIVER LONNIE

309

RECEIVED

SEP 07 2004 TOTAL 6976.90

KCC WICHITA SERVICE

REMARKS:

CEMENT NOT CIRC

PLUG LINED TAPER

THANK YOU

DEPTH OF JOB	<u>1065'</u>	
PUMP TRUCK CHARGE	<u>650.00</u>	
EXTRA FOOTAGE	<u>440' @ 4.50</u>	<u>1980.00</u>
MILEAGE	<u>40 MI @ 4.00</u>	<u>160.00</u>
PLUG		
TOTAL		<u>1030.00</u>

CHARGE TO: CHEYENNE DRILLING

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

<u>8 7/8"</u>		
1- RAFFIE PLATE	@	<u>45.00</u>
3- CENTRALIZERS	@	<u>40.00</u>
1- THREAD LOC	@	<u>30.00</u>
1- RUBBER PLUG	@	<u>100.00</u>
TOTAL		<u>295.00</u>

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE _____

PRINTED NAME _____



Service Order

2004-Aug-12

Customer CIMAREX ENERGY CO.		Person Taking Call Grella, Miguel		Dowell Location Perryton, TX		OrderDate 2004-Jul-02		Job Number 2205546498		
Well Name and Number Lightner 1-2			Legal Location		Field		County Haskell		State/Province Kansas	
Well Master: 0630607580			API / UWI:							
Rig Name CHEYENNE 8			Well Age New		Sales Engineer Cambern, Charles			Job Type Cem Prod Casing		
Time Well Ready:		Deviation °	Bit Size 7.88 in		Well MD 2,800 ft	Well TVD 2,800 ft		BHP psi	BHST 108 °F	BHCT 82 °F
Treat Down Casing		Packer Type	Packer Depth ft	WellHead Connection 5 1/2 HSM		HHP on Location	Max AllowedPressure 3000		Max Allowed AnnPressure	
Casing					Services Instructions:					
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	CEMENT 5 1/2 PRODUCTION CASING WITH : 400 SKS 35:65 POZ/CLASS C + 4% D020 + 1% S001 + 0.25 PPS D029 125 SKS 50:50 POZ/CLASS H + 10 % D044 + 2 % D020 + 0.25 PPS D029 + 0.2 % D046 DISPLACE WITH FRESH WATER					
2800	5.5	14	K55	8RD						
Tubing					Extra Equipment:					
Depth,	Size, in	Weight, lb/ft	Grade	Thread	1 CEMCAT 1 PUMP 2 ABT					
					<p style="text-align: center;">KCC SEP 0 2 2004 CONFIDENTIAL</p> <p style="text-align: right;">RECEIVED SEP 0 7 2004 KCC WICHITA</p>					
Perforated Intervals										
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft						
				Diameter in						
Expected On Location:					Ready To Pump:					

Contact	Voice	Mobile	FAX	Notes
DAVID PAULY		1-316-250-2045		

Notes:
5 1/2 FLOAT EQUIPMENT = 1 GUIDE SHOE (202) = 1 ORIFICE FILL INSERT (1112) = 10 REG. CENTRALIZERS & NAILS = 1 STOP RING = 1 THREADLOCK = 5 1/2 TOP & BOTTOM PLUG

Directions:
PERRYTON TX, 80 MI ON HWY 83 NORTH TO JCT OF HWY 83 & 56 AT SUBLETTE KS, 21 MILES NORTH, 7.2 MILES EAST ON TV ROAD, SOUTHEAST INTO LOCATION

Other Notes:
FOLLOW ALL CONVOY AND SAFETY PROCEDURES

Comments:

Fluid Systems:

LEAD			
400 SKS 35:65 POZ/CLASS C + 4% D020 + 1% S001 + 0.25 PPS D029			
<i>Density:</i>	12.2 lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	2.12 ft ³ /sk		
<i>H2O Mix:</i>	11.9 gal/sk		
<i>H2O:</i>	4760 gal	<i>Eq. Sack Weight:</i>	0 lb
		<i>Total Blend:</i>	400 sacks
Dowell Code	Conc/ Amount		Total Quantity
D020	3.55 lbs/sk		1420
S001	0.88 lbs/sk		352
CLASS C	61.1 lbs/sk		24440
D029	0.25 lbs/sk		100
D132	27.8 lbs/sk		11120

TAIL			
125 SKS 50:50 POZ/CLASS H + 10 % D044 + 2 % D020 + 0.25 PPS D029 + 0.2 % D046			
<i>Density:</i>	14.4 lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	1.35 ft ³ /sk		
<i>H2O Mix:</i>	6.26 gal/sk		
<i>H2O:</i>	782.5 gal	<i>Eq. Sack Weight:</i>	86.7 lb
		<i>Total Blend:</i>	125 sacks
Dowell Code	Conc/ Amount		Total Quantity
CLASS H	47 lbs/sk		5875
D132	39.7 lbs/sk		4962.5
D044	5.05 lbs/sk		631.25
D020	1.73 lbs/sk		216.25
D046	0.173 lbs/sk		21.625
D029	0.25 lbs/sk		31.25

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Cementing Service Report

Customer CIMAREX ENERGY CO.						Job Number 2205546498									
Well Lightner 1-2			Location (legal)			Schlumberger Location Perryton, TX			Job Start 2004-Jul-08						
Field		Formation Name/Type			Deviation		Bit Size 7.88 in	Well MD 2,800 ft	Well TVD 2,800 ft						
County Haskell		State/Province Kansas			BHP psi	BHST 108 °F	BHCT 82 °F	Pore Press. Gradient psi/ft							
Well Master: 0630607580		API / UWI:			Casing/Liner										
Rig Name CHEYENNE 8		Drilled For Oil & Gas		Service Via Land		Depth, ft 2800	Size, in 5.5	Weight, lb/ft 14	Grade K55	Thread 8RD					
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe									
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cp		Depth,	Size, in	Weight, lb/ft	Grade	Thread					
Service Line Cementing		Job Type Cem Prod Casing				Perforations/Open Hole									
Max. Allowed Tubing Pressure 3000 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 5 1/2 HSM		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft					
Service Instructions CEMENT 5 1/2 PRODUCTION CASING WITH : 400 SKS 35:65 POZ/CLASS C + 4% D020 + 1% S001 + 0.25 PPS D029 125 SKS 50:50 POZ/CLASS H + 10 % D044 + 2 % D020 + 0.25 PPS D029 + 0.2 % D046 DISPLACE WITH FRESH WATER						Diameter in	Treat Down Casing	Displacement 67.5 bbl	Packer Type	Packer Depth ft					
						Tubing Vol. bbl	Casing Vol. 69 bbl	Annular Vol. 87 bbl	Open Hole Vol. 155 bbl						
						Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools			Squeeze Job		
						Lift Pressure: 300 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:		Squeeze Type	
No. Centralizers:		Top Plugs: 1		Bottom Plugs:		Shoe Depth: ft		Tool Type:							
Cement Head Type: Single		Job Scheduled For:		Arrived on Location: 2004-Jul-07 22:30		Leave Location: 2004-Jul-08 2:30		Stage Tool Type:		Tool Depth: ft					
						Collar Type:		Tail Pipe Size: in							
						Collar Depth: ft		Tail Pipe Depth: ft							
								Sqz Total Vol: bbl							
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message						
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0							
2004-Jul-08	0:09	0	0.0	8.35	0.0	0	0	0							
2004-Jul-08	0:09	0	0.0	8.35	0.0	0	0	0							
2004-Jul-08	0:09								Start Job						
2004-Jul-08	0:09								Pressure Test Lines						
2004-Jul-08	0:09	0	0.0	8.35	0.0	0	0	0	Start Pumping Spacer						
2004-Jul-08	0:09	0	0.0	8.35	0.0	0	0	0							
2004-Jul-08	0:10	0	0.0	8.35	0.0	0	0	0							
2004-Jul-08	0:10	55	0.0	8.33	0.0	0	0	0							
2004-Jul-08	0:11	55	0.0	8.34	0.0	0	0	0							
2004-Jul-08	0:11	1781	0.2	8.35	0.2	0	0	0							
2004-Jul-08	0:12	2023	0.0	8.35	0.2	0	0	0							
2004-Jul-08	0:12	1978	0.0	8.35	0.2	0	0	0							
2004-Jul-08	0:13	201	0.0	8.32	0.2	0	0	0							
2004-Jul-08	0:13	18	0.0	8.31	0.2	0	0	0							
2004-Jul-08	0:14	18	0.0	8.31	0.2	0	0	0							
2004-Jul-08	0:14	206	2.4	8.32	0.6	0	0	0							
2004-Jul-08	0:15	197	2.5	8.33	1.9	0	0	0							
2004-Jul-08	0:15	224	4.1	8.34	3.5	0	0	0							
2004-Jul-08	0:16	215	3.8	8.34	5.4	0	0	0							
2004-Jul-08	0:16	238	4.2	8.34	7.5	0	0	0							
2004-Jul-08	0:17	233	4.2	8.34	9.6	0	0	0							

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Well		Field			Service Date		Customer		Job Number
Lightner #1-2					04190-Jul-08		CIMAREX ENERGY CO.		2206546498
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	0	0	0	
2004-Jul-08	0:17	238	4.2	8.44	11.7	0	0	0	
2004-Jul-08	0:17								Start Mixing Lead Slurry
2004-Jul-08	0:17	247	4.2	8.64	12.5	0	0	0	
2004-Jul-08	0:17								End Spacer
2004-Jul-08	0:17	243	4.2	8.65	12.5	0	0	0	
2004-Jul-08	0:17	243	4.2	8.67	12.8	0	0	0	
2004-Jul-08	0:17								Reset Total, Vol = 12.82 bbl
2004-Jul-08	0:18	243	4.2	8.80	1.0	0	0	0	
2004-Jul-08	0:18	243	4.2	9.16	3.1	0	0	0	
2004-Jul-08	0:19	252	4.4	9.90	5.2	0	0	0	
2004-Jul-08	0:19	243	4.5	10.64	7.5	0	0	0	
2004-Jul-08	0:20	238	4.5	10.98	9.7	0	0	0	
2004-Jul-08	0:20	224	4.5	10.73	12.0	0	0	0	
2004-Jul-08	0:21	220	4.5	10.92	14.3	0	0	0	
2004-Jul-08	0:21	211	4.6	11.90	16.6	0	0	0	
2004-Jul-08	0:22	215	4.7	12.43	18.9	0	0	0	
2004-Jul-08	0:22	183	4.7	12.42	21.3	0	0	0	
2004-Jul-08	0:23	169	4.8	12.37	23.7	0	0	0	
2004-Jul-08	0:23	151	4.8	12.30	26.1	0	0	0	
2004-Jul-08	0:24	133	4.9	12.26	28.5	0	0	0	
2004-Jul-08	0:24	114	4.9	12.06	31.0	0	0	0	
2004-Jul-08	0:25	92	5.0	11.36	33.5	0	0	0	
2004-Jul-08	0:25	82	5.0	11.82	36.0	0	0	0	
2004-Jul-08	0:26	78	5.0	11.96	38.5	0	0	0	
2004-Jul-08	0:26	82	5.0	11.94	41.0	0	0	0	
2004-Jul-08	0:27	87	5.0	11.98	43.5	0	0	0	
2004-Jul-08	0:27	87	5.0	12.04	46.0	0	0	0	
2004-Jul-08	0:28	87	5.0	12.01	48.5	0	0	0	
2004-Jul-08	0:28	78	5.0	12.03	51.0	0	0	0	
2004-Jul-08	0:29	82	5.0	12.01	53.5	0	0	0	
2004-Jul-08	0:29	87	5.0	12.06	56.0	0	0	0	
2004-Jul-08	0:30	92	5.0	12.07	58.5	0	0	0	
2004-Jul-08	0:30	92	5.0	12.09	61.0	0	0	0	
2004-Jul-08	0:31	92	5.0	12.18	63.5	0	0	0	
2004-Jul-08	0:31	87	5.0	12.25	66.0	0	0	0	
2004-Jul-08	0:32	87	5.0	12.30	68.5	0	0	0	
2004-Jul-08	0:32	92	5.0	12.30	71.0	0	0	0	
2004-Jul-08	0:33	87	5.0	12.18	73.5	0	0	0	
2004-Jul-08	0:33	82	5.0	12.08	76.0	0	0	0	
2004-Jul-08	0:34	87	5.0	12.06	78.5	0	0	0	
2004-Jul-08	0:34	82	5.0	12.07	81.0	0	0	0	
2004-Jul-08	0:35	87	5.0	12.11	83.5	0	0	0	
2004-Jul-08	0:35	87	5.0	11.82	86.0	0	0	0	
2004-Jul-08	0:36	78	5.0	11.11	88.6	0	0	0	
2004-Jul-08	0:36	78	5.0	11.09	91.1	0	0	0	
2004-Jul-08	0:37	78	5.0	11.80	93.6	0	0	0	
2004-Jul-08	0:37	82	5.0	11.83	96.1	0	0	0	
2004-Jul-08	0:38	78	5.0	11.77	98.6	0	0	0	
2004-Jul-08	0:38	87	5.0	12.02	101.1	0	0	0	
2004-Jul-08	0:39	82	5.0	11.95	103.7	0	0	0	
2004-Jul-08	0:39	78	5.0	11.55	106.2	0	0	0	
2004-Jul-08	0:40	92	5.0	12.66	108.7	0	0	0	
2004-Jul-08	0:40	92	5.0	12.86	111.2	0	0	0	
2004-Jul-08	0:41	92	5.0	12.72	113.7	0	0	0	

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Well		Field			Service Date		Customer			Job Number
Lightner #1-2					04190-Jul-08		CIMAREX ENERGY CO.			2205546498
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0		
2004-Jul-08	0:41	92	5.0	12.63	116.2	0	0	0		
2004-Jul-08	0:42	92	5.0	12.37	118.7	0	0	0		
2004-Jul-08	0:42	87	5.0	12.09	121.2	0	0	0		
2004-Jul-08	0:43	87	5.0	12.17	123.7	0	0	0		
2004-Jul-08	0:43	82	5.0	12.28	126.3	0	0	0		
2004-Jul-08	0:44	87	5.0	12.35	128.8	0	0	0		
2004-Jul-08	0:44	87	5.0	12.40	131.3	0	0	0		
2004-Jul-08	0:45	87	5.0	12.37	133.8	0	0	0		
2004-Jul-08	0:45	87	5.0	12.32	136.3	0	0	0		
2004-Jul-08	0:46	87	5.0	12.28	138.8	0	0	0		
2004-Jul-08	0:46	87	5.0	12.27	141.3	0	0	0		
2004-Jul-08	0:47	87	5.0	12.18	143.8	0	0	0		
2004-Jul-08	0:47	82	5.0	12.11	146.3	0	0	0		
2004-Jul-08	0:48	82	5.0	12.09	148.9	0	0	0		
2004-Jul-08	0:48	87	5.0	12.08	151.4	0	0	0		
2004-Jul-08	0:49	87	5.0	12.08	154.0	0	0	0		
2004-Jul-08	0:49	87	5.0	12.08	156.5	0	0	0		
2004-Jul-08	0:50	87	5.0	12.14	159.0	0	0	0		
2004-Jul-08	0:50	82	5.0	12.24	161.5	0	0	0		
2004-Jul-08	0:51	82	5.0	12.34	164.0	0	0	0		
2004-Jul-08	0:51	87	5.0	12.42	166.5	0	0	0		
2004-Jul-08	0:52	87	5.0	12.37	169.0	0	0	0		
2004-Jul-08	0:52	78	5.0	11.55	171.5	0	0	0		
2004-Jul-08	0:53	73	5.0	10.38	174.0	0	0	0		
2004-Jul-08	0:53	64	5.0	9.60	176.6	0	0	0		
2004-Jul-08	0:54	60	4.6	9.05	179.1	0	0	0		
2004-Jul-08	0:54	55	2.9	9.41	180.6	0	0	0		
2004-Jul-08	0:55								Start Mixing Tail Slurry	
2004-Jul-08	0:55	78	5.0	11.20	181.9	0	0	0		
2004-Jul-08	0:55	87	4.9	11.27	182.0	0	0	0		
2004-Jul-08	0:55								End Lead Slurry	
2004-Jul-08	0:55								Reset Total, Vol = 182.13 bbl	
2004-Jul-08	0:55	105	4.9	11.43	182.1	0	0	0		
2004-Jul-08	0:55	110	4.9	11.67	0.3	0	0	0		
2004-Jul-08	0:55	133	4.9	12.92	2.8	0	0	0		
2004-Jul-08	0:56	151	4.9	13.75	5.2	0	0	0		
2004-Jul-08	0:56	156	4.9	14.40	7.6	0	0	0		
2004-Jul-08	0:57	151	4.8	14.54	10.0	0	0	0		
2004-Jul-08	0:57	156	4.8	14.70	12.5	0	0	0		
2004-Jul-08	0:58	156	4.8	14.95	14.9	0	0	0		
2004-Jul-08	0:58	146	4.8	15.05	17.3	0	0	0		
2004-Jul-08	0:59	133	4.9	14.91	19.7	0	0	0		
2004-Jul-08	0:59	119	4.9	14.49	22.2	0	0	0		
2004-Jul-08	1:00	114	4.9	14.22	24.7	0	0	0		
2004-Jul-08	1:00	110	4.9	14.18	27.1	0	0	0		
2004-Jul-08	1:01	0	0.0	14.17	28.9	0	0	0		
2004-Jul-08	1:01	0	0.0	12.23	28.9	0	0	0		
2004-Jul-08	1:02	-5	0.0	12.21	28.9	0	0	0		
2004-Jul-08	1:02	5	0.0	11.65	28.9	0	0	0		
2004-Jul-08	1:03	5	0.0	11.48	28.9	0	0	0		
2004-Jul-08	1:03	96	3.6	10.67	29.4	0	0	0		
2004-Jul-08	1:04	82	3.6	9.66	31.2	0	0	0		
2004-Jul-08	1:04	92	3.6	9.42	33.1	0	0	0		
2004-Jul-08	1:05	73	3.7	8.83	34.9	0	0	0		

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Well		Field			Service Date		Customer		Job Number
Lightner #1-2					04190-Jul-08		CIMAREX ENERGY CO.		2205546498
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbt/min	lb/gal	bbt	0	0	0	
2004-Jul-08	1:05	69	3.6	8.13	36.7	0	0	0	
2004-Jul-08	1:06	5	0.0	8.30	38.1	0	0	0	
2004-Jul-08	1:06	5	0.0	8.35	38.1	0	0	0	
2004-Jul-08	1:07	55	0.0	8.36	38.1	0	0	0	
2004-Jul-08	1:07	119	5.2	8.37	40.1	0	0	0	
2004-Jul-08	1:08	101	5.1	8.37	42.7	0	0	0	
2004-Jul-08	1:08	114	4.6	8.37	45.1	0	0	0	
2004-Jul-08	1:09	124	4.6	8.37	47.4	0	0	0	
2004-Jul-08	1:09	137	4.5	8.37	49.7	0	0	0	
2004-Jul-08	1:10	151	4.5	8.37	51.8	0	0	0	
2004-Jul-08	1:10								End Tail Slurry
2004-Jul-08	1:10								Drop Top Plug
2004-Jul-08	1:10	160	4.5	8.37	52.0	0	0	0	
2004-Jul-08	1:10	165	4.5	8.37	52.1	0	0	0	
2004-Jul-08	1:10								Start Displacement
2004-Jul-08	1:10	179	4.4	8.37	54.2	0	0	0	
2004-Jul-08	1:11	192	4.4	8.37	56.5	0	0	0	
2004-Jul-08	1:11	211	4.4	8.37	21.2	0	0	0	
2004-Jul-08	1:12	233	4.3	8.37	23.4	0	0	0	
2004-Jul-08	1:12	243	4.2	8.37	25.5	0	0	0	
2004-Jul-08	1:13	256	4.2	8.37	27.6	0	0	0	
2004-Jul-08	1:13	270	4.2	8.37	29.7	0	0	0	
2004-Jul-08	1:14	270	4.2	8.37	31.8	0	0	0	
2004-Jul-08	1:14	270	4.2	8.37	33.9	0	0	0	
2004-Jul-08	1:15	247	4.2	8.37	36.0	0	0	0	
2004-Jul-08	1:15	261	4.2	8.37	38.1	0	0	0	
2004-Jul-08	1:16	261	4.2	8.37	40.2	0	0	0	
2004-Jul-08	1:16	284	4.1	8.37	42.3	0	0	0	
2004-Jul-08	1:17	320	4.1	8.37	44.4	0	0	0	
2004-Jul-08	1:17	348	4.0	8.37	46.4	0	0	0	
2004-Jul-08	1:18	380	4.1	8.37	48.4	0	0	0	
2004-Jul-08	1:18	394	4.1	8.37	50.5	0	0	0	
2004-Jul-08	1:19	453	4.0	8.37	52.5	0	0	0	
2004-Jul-08	1:19	485	4.2	8.37	54.5	0	0	0	
2004-Jul-08	1:20	513	4.0	8.37	56.6	0	0	0	
2004-Jul-08	1:20	490	2.0	8.37	57.8	0	0	0	
2004-Jul-08	1:21	504	2.0	8.37	58.8	0	0	0	
2004-Jul-08	1:21	531	2.0	8.37	59.7	0	0	0	
2004-Jul-08	1:22	540	2.0	8.37	60.7	0	0	0	
2004-Jul-08	1:22	563	1.9	8.37	61.7	0	0	0	
2004-Jul-08	1:23	572	1.9	8.37	62.7	0	0	0	
2004-Jul-08	1:23	586	1.9	8.37	63.6	0	0	0	
2004-Jul-08	1:24	604	1.9	8.37	64.6	0	0	0	
2004-Jul-08	1:24	613	1.9	8.37	65.5	0	0	0	
2004-Jul-08	1:25	623	1.8	8.37	66.4	0	0	0	
2004-Jul-08	1:25	1057	1.6	8.37	67.3	0	0	0	
2004-Jul-08	1:25								Bump Top Plug
2004-Jul-08	1:25	1067	0.0	8.37	67.4	0	0	0	
2004-Jul-08	1:26	1067	0.0	8.37	67.4	0	0	0	
2004-Jul-08	1:26								End Displacement
2004-Jul-08	1:26	1067	0.0	8.37	67.4	0	0	0	
2004-Jul-08	1:26	1067	0.0	8.37	67.4	0	0	0	
2004-Jul-08	1:27	9	0.0	8.37	67.4	0	0	0	

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Well Lightner #1-2		Field		Service Date 04190-Jul-08		Customer CIMAREX ENERGY CO.		Job Number 2205546498	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message
					0	0	0		
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5	0	0	5	198	0	10			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1500		200	1100		bbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume				
%	198 bbl	67.5 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft			
Customer or Authorized Representative PAULY, DAVID			Schlumberger Supervisor Gonzales, Paul			<input type="checkbox"/> CirculationLost	<input checked="" type="checkbox"/> Job Completed		

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