



# Cimarex Energy Co.

## Well History

01/01/1900 - 12/31/2076

### OPERATED

#### APOLLO 20 PROSPECT

##### CIMAREX ENERGY CO

**429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL & 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %  
 Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %  
 Prop Depth: 16150 Sec/TS/Rng: 12

06/30/2010

PROD

AFE: 370115WE Present Operation:

DFS: 761 163 BO, 300 BW, 3 MCF, TP-130, CP-90, Vent gas, P-Line dwn

Daily Cost: \$0  
 Cumulative Costs: \$68,267

06/25/2010

PROD

AFE: 370115WE Present Operation:

DFS: 756  
 6/25/10 33 BO, 360 BW, 92 MCF, TP-140, CP-60, Estimate, Htr dmp hung  
 6/26/10 146 BO, 373 BW, 146 MCF, TP-150, CP-60, G-P-Line dwn 4 days  
 6/27/10 116 BO, 368 BW, 0 MCF, TP-150, CP-80, STORM HAD POWER OUT  
 6/28/10 75 BO, 242 BW, 0 MCF, TP-50, CP-50, STORM HAD POWER OUT  
 6/29/10 173 BO, 294 BW, 0 MCF, TP-180, CP-60, Vent gas, P-Line dwn

Daily Cost: \$0  
 Cumulative Costs: \$68,267

06/24/2010

WO

AFE: 370115WE Present Operation: Convert from Flowing to Sub pump

DFS: 755 RDMO pulling unit. Hook up well to flow line and install chemical pump. Make final electrical tie in. Start up sub pump with problems with initial rotation kicking out drive on overload. Once started all loads were normal. Make correction to rotation and pump up in 15 minutes. Initial with 50hz. PI = 4856#. TM = 160. TP = 100#. Drive output of 170 amps. Step up output of 26 amps @ 2210v. Monitor for 1 hr with no problems. Well test after converting from flowing to ESP to follow.

Daily Cost: \$20,190  
 Cumulative Costs: \$68,267

06/23/2010

WO

AFE: 370115WE Present Operation: Convert from Flowing to Sub pump

DFS: 754 Open well with 50#. Pump 100 bbls brine water down csg. Pressure up to 600# indicating well bore full. MIRU spooler. MI Schlumberger rental sub pump from shop and drive equipment from University 7-4. MI 15 jts replacement 2-7/8" tbg (487') from Cimarex Material and sent in 12 jts (376') green band. Cut up 3 jts (96') to veiw internal corrosion. Hook up drive unit and step up transformer. Pick up subpump and RIH banding #4 flat cable with 3 bands per jt with SS bands as follows. Phoenix XT gauge with motor adaptor, Series 540 125HP 2583V motor derated to 90HP 2340V 24.5A, 540 x 400 adaptor on 400 series seal unit, Gas separator(intake), 400 series gas handler, D460N pump w/167 stages, D460N pump w/167 stages, series 400 x 2-7/8" 8-rd adaptor, 2-7/8" x 4' sub, 347 jts 2-7/8" L-80 tbg. ND BOPs. Make up 7-1/16" 10k x 7-1/16" 5k DSA and 7-1/16" 3K REDA head from Fields 33-25 #1H. Make final splice of lower pig tail lead. Land in hanger and packoff. Top of pump @ 10804'. Intake @ 10846.68. Bottom of assembly @ 10873'. Pumped 100 bbls down csg to flush any trash from around pump intake. Secured well. Will make tie in to flow line in the morning. SDON.

Daily Cost: \$25,547  
 Cumulative Costs: \$48,077

06/22/2010

WO

AFE: 370115WE Present Operation: Convert from Flowing to Sub pump

DFS: 753 Open well with 0#. Work 2 hrs to free packer with no success. Release on/off tool from packer to allow fluid differential to was off top of packer and equalized pressure above and below packer. Go back over on/off tool to continue working on packer. Work packer free to move up but still would not go down. MIRU Tuboscope tubing testers. Scan 346 jts 2-7/8" tubing out of hole. Results were 293 yellow, 39 blue( 1 galled pin kicked out), 14 green. Bad pipe was on bottom. Total 15 jts bad = 472', corrosion pitting and 1 bad pin. Packer was washed clean by the time it reached surface and worked ok. Did not loose any rubber off of packer. Well came in while laying down packer. Secured well. RDMO tubing scanners. Prepare to run sub pump. SDON.

Daily Cost: \$9,650  
 Cumulative Costs: \$22,530

06/21/2010

WO

AFE: 370115WE Present Operation: Convert from Flowing to Sub pump

DFS: 752 Shut well in to run REDA sub pump. MIRU pump truck and chemical, pump scale squeeze as follows. 55 gal xylene, 5 bbls brine, 110 gal 30% HCL acid, 5 bbls brine, 55 gal 505 surfactant, 5 bbls brine, 110 gal 625 inhibitor in 20 bbls fresh water, displace with 300 bbls brine water @ 2 BPM with 1215# TP. RDMO pump truck. Well on vacuum after 15 minutes. Remove well head and NU 7-1/16 10M x 7-1/16" 5M spool and 7-1/16 3M manual BOPs. Work to unset 7" AS 1-X packer @ 10,800' with no success. Secured well. SDON.

Daily Cost: \$10,040  
 Cumulative Costs: \$12,880

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

06/20/2010		Daily Cost:	\$0
WO		Cumulative Costs:	\$2,840
AFE:	370115WE	Present Operation:	Convert from Flowing to Sub pump
DFS:	751	SDFWKND	
06/19/2010		Daily Cost:	\$0
WO		Cumulative Costs:	\$2,840
AFE:	370115WE	Present Operation:	Convert from Flowing to Sub pump
DFS:	750	SDFWKND	
06/18/2010		Daily Cost:	\$0
WO		Cumulative Costs:	\$2,840
AFE:	370115WE	Present Operation:	Convert from Flowing to Sub pump
DFS:	749	Shut down for rig Maint.	
06/17/2010		Daily Cost:	\$2,840
WO		Cumulative Costs:	\$2,840
AFE:	370115WE	Present Operation:	Convert from Flowing to Sub pump
DFS:	748	MIRU ProPetro pulling unit to start work on AFE # 370115WE to run sub pump in flowing well. Shut down for rig maintenance.	
03/15/2009		Daily Cost:	\$31,206
COMP		Cumulative Costs:	\$6,017,774
AFE:	258128	Present Operation:	Flowing Well to Sales
DFS:	289	RU HES 1-1/4" CTU. Install 1.44" motor and 1.51" mill. RIH. Tag debris in vertical tubing at 10,382'. Drilled through in 2 minutes. Continue in hole. Tagged debris at 13,760' (1-3/4" port). Drilled through in 5 minutes. Continue in hole. Tagged debris at 14,426'. Drilled through. Continue in hole. Reached a depth of 14,793'. Tubing was frictioned out, could not push any deeper. Mix friction reducer to try to get deeper, would not go. Circulate bottoms up. Recovered ball fragments and sand in chokes. Clear chokes. POOH. RDMO HES. Turn well to sales.	
03/14/2009		Daily Cost:	\$28,056
COMP		Cumulative Costs:	\$5,986,568
AFE:	258128	Present Operation:	Flowing Well To Sales
DFS:	288	MIRU HES 1-1/4" CTU. Install 1.44" Hipp-tripper with 1.44" 6 point bladed bit. Close well in. RU on master valve. Open well. SITP - 1550 psi. Open choke and start in hole. Tagged sand at 12,366'. Open choke to 30/64". Pump high vis gel sweep. Work tools up and down from 12,366' to 12,390'. Sand cleared from liner. Continue in hole. Did not tag any frac balls or any sand bridges down to 14,464' (20' below 1-1/2" port at 14,444'). Tagged hard. Could not drill through. Pulled back up to 14,400'. Had trouble going back downhole. Could not get past 14,464'. Pull tools uphole to 1-3/4" port at 13,760'. Debris was beside tool. Was able to correlate and correct depth. Continue to pull uphole to 13,500'. Try to go downhole. Reached depth of 13,695'. Could not drill up debris. Pull out of hole. Check tool operation, working good. LD tools. Close well in. Will RIH with 1.44" motor and mill in AM.	
03/07/2009		Daily Cost:	\$6,825
COMP		Cumulative Costs:	\$5,958,512
AFE:	258128	Present Operation:	Well Flowing to Sales.
DFS:	281	SITP 1850 psi. Wait on pumper and put well to sales. Clean location. Rigged down and released rig. Well flowing to sales.	
03/06/2009		Daily Cost:	\$8,201
COMP		Cumulative Costs:	\$5,951,687
AFE:	258128	Present Operation:	Well Flowing to Sales. RDMO.
DFS:	280	No shut in pressure. ND BOP. NU wellhead. RU swab, make 5 swab runs and lowered fluid level to 3500'. MIRU ARC Pressure Data. Make 1st run pull equalizer prong ( pressure increased to 1400 psi ). Next run pulled plug. RD slickline, flow well to pit for clean up. Put well to sales. Continue to monitor well.	
03/05/2009		Daily Cost:	\$9,986
COMP		Cumulative Costs:	\$5,943,486
AFE:	258128	Present Operation:	NU Tree. Swab and Pull Plug.
DFS:	279	No well pressure. ND Frac valve. NU BOP. PU 7" X 2-7/8" OOT, 346 jts 2-7/8" tbg, 4.00' 2-7/8" sub and 1 jt 2-7/8" tubing. Latched packer and set with 19,000 lbs compression. Secured well and shutdown. NOTE: Off loaded tubing and CVD.	

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

03/04/2009		Daily Cost:	\$14,385
COMP		Cumulative Costs:	\$5,933,500
AFE:	258128	Present Operation:	RIH OOT and 2-7/8" Tbg.
DFS:	278	SIWP 990 psi. MIRU Halliburton e-line, RIH with GR/JB to 11,329' ( Wireline depth ). POH with GR/JB. RIH with 7" x 26# x 2-7/8" Arrow-Set 1X packer with 2.313" X Profile. Set packer at 10,800'. POH and RD e-line. Opened well to pit and bled off well pressure. Well venting to pit with watchman.	
03/03/2009		Daily Cost:	\$4,200
COMP		Cumulative Costs:	\$5,919,115
AFE:	258128	Present Operation:	WLS Packer. Bled Off Pressure.
DFS:	277	MIRU Integrity 104. Prep for e-line.	
01/22/2009		Daily Cost:	\$10,500
COMP		Cumulative Costs:	\$5,914,915
AFE:	258128	Present Operation:	Continue to Flow Well.
DFS:	237	Well flowing on a 16/64" choke with 1300 psi FCP. Made 318 BO, 386 MCF gas and recovered 486 BLW. - 11,809 BLWTR. Light sand. Continue to flow well to sales. NOTE: Dropped from report.	
01/21/2009		Daily Cost:	\$10,500
COMP		Cumulative Costs:	\$5,904,415
AFE:	258128	Present Operation:	Continue to Flow Well.
DFS:	236	Well flowing on a 14/64" choke with 1550 psi FCP. Made 341 BO, 456 MCF gas and recovered 487 BLW. - 12,295 BLWTR. Light sand. Continue to flow well to sales.	
01/20/2009		Daily Cost:	\$10,500
COMP		Cumulative Costs:	\$5,893,915
AFE:	258128	Present Operation:	Continue to Flow Well.
DFS:	235	Well flowing on a 14/64" choke with 1675 psi FCP. Made 382 BO, 404 MCF gas and recovered 567 BLW. - 12,782 BLWTR. Light sand. Continue to flow well to sales.	
01/19/2009		Daily Cost:	\$10,500
COMP		Cumulative Costs:	\$5,883,415
AFE:	258128	Present Operation:	Continue to Flow Well.
DFS:	234	Well flowing on a 14/64" choke with 1825 psi FCP. Made 353 BO, 419 MCF gas and recovered 612 BLW. - 13,349 BLWTR. Light sand. Continue to flow well to sales. Note: Opened choke to 14/64 at 11:00 AM.	
01/18/2009		Daily Cost:	\$10,500
COMP		Cumulative Costs:	\$5,872,915
AFE:	258128	Present Operation:	Well Flowing to Sales.
DFS:	233	Well flowing to sales on a 12/64" choke with 2100 psi FCP. Well made 301 BO and 425 MCF Gas. Recovered 608 BLW. - 13,961 BLWTR. Continue to flow well.	
01/17/2009		Daily Cost:	\$10,500
COMP		Cumulative Costs:	\$5,862,415
AFE:	258128	Present Operation:	Continue to Flow Well.
DFS:	232	Well flowing to battery on a 12/64" choke with 2150 psi FCP. Well made 337 BO and 425 MCF gas last 24 hrs. Recovered 637 BLW today. - 14569 BLWTR. Trace of sand. Continue to flow well to sales.	
01/16/2009		Daily Cost:	\$13,965
COMP		Cumulative Costs:	\$5,851,915
AFE:	258128	Present Operation:	Continue to Flow Well.
DFS:	231	Well flowing to sales on a 12/64" choke with 2330 psi FCP. Well made 332 BO and avg 425 MCF/D gas sales. Recovered 659 BLW. - 15206 BLWTR. Making light sand. Continue to flow well.	
01/15/2009		Daily Cost:	\$12,915
COMP		Cumulative Costs:	\$5,837,950
AFE:	258128	Present Operation:	Continue to Flow Well to Sales.
DFS:	230	Well flowing to sales on a 12/64" choke with 2510 psi FCP. Made 207 BO and recovered 761 BLW. - 15865 BLWTR. Continue to flow well.	

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

01/14/2009		Daily Cost:	\$12,390
COMP		Cumulative Costs:	\$5,825,035
AFE:	258128	Present Operation:	Flowing Back Frac.
DFS:	229	Well flowing on a 12/64" choke with 2725 psi FCP. Recovered 1151 BLW today. - 16626 BLWTR. 25% oil cut and strong gas. Light sand. Continue to flow to test tanks.	
01/13/2009		Daily Cost:	\$12,390
COMP		Cumulative Costs:	\$5,812,645
AFE:	258128	Present Operation:	Continue to Flow Well.
DFS:	228	Well flowing on a 12/64" choke with 3025 psi FCP. Recovered 1174 BLW today. - 17777 BLWTR. Gas increasing, 7% oil cut and light sand. Increased choke to 12/64" at 1:00 PM. Continue to flow well.	
01/12/2009		Daily Cost:	\$12,000
COMP		Cumulative Costs:	\$5,800,255
AFE:	258128	Present Operation:	Flowing Back Frac.
DFS:	227	Well flowing on a 10/64" choke with 3000 psi FCP. Recovered 768 BLW today. - 18951 BLWTR. Increasing gas, 1% oil cut and light sand. Continue to flow well.	
01/11/2009		Daily Cost:	\$14,490
COMP		Cumulative Costs:	\$5,788,255
AFE:	258128	Present Operation:	Flowing Back Frac.
DFS:	226	Flowing back Frac on a 10/64" choke with 3590 psi FCP. Recovered 1130 BLW today. - 19,719 BLWTR. Slight trace of oil. Light sand. Continue to flow back well.	
01/10/2009		Daily Cost:	\$13,020
COMP		Cumulative Costs:	\$5,773,765
AFE:	258128	Present Operation:	Flowing Back Frac.
DFS:	225	Opened well on a 10/64" choke at 1:00 PM with 4700 psi FCP. Report time well flowing back on a 10/64" choke with 3890 psi FCP. Made 981 BLW. Continue to flowback well. NOTE: - 20849 BLWTR.	
01/09/2009		Daily Cost:	\$581,490
COMP		Cumulative Costs:	\$5,760,745
AFE:	258128	Present Operation:	Prep For Frac.
DFS:	224	NU Pump truck and psi annulus to 2000 psi. NU Pop off set at 2000# RU Halliburton Frac equipment. Frac well in 7 stages with a Total of 83 BBIs 15% HCL, 5422 BBIs Wtr Frac G-R (16) 9,166 BBIs Hybor G-R (16) carrying 519,200 SAND-PRC 20/40# ramped from 0.5#/ gal to 2# /gal, and 3486 bbls of Water Frac G-R 16 for flushes. STAGE 1: Avg Press-7617#, Avg Rate - 30.0 BPM. Max Press -8141# Drop ball, open port w/ 5541# STAGE 2: Avg Press-8105#, Avg Rate- 36.0 BPM, Max Press- 8336#. Drop ball, open port with 6539# STAGE 3: Avg Press- 7764#, Avg Rate-48.0 BPM, Max Press- 8127#. Drop ball,open port with 5942# STAGE 4: Avg Press-7555#, Avg Rate- 59.0 BPM, Max Press - 72677963#. Drop ball, open port with 5213# STAGE 5: Avg Press-6864#, Avg Rate- 60.0 BPM, Max Press - 7516#. Drop Ball, open port with 5703# STAGE 6: Avg Press-6505#, Avg Rate- 59.0 BPM, Max Press - 7473#. Drop Ball, open port with 5325# STAGE 7: Avg Press-5841#, Avg Rate- 60.0 BPM, Max Press - 6341#. Job Complete @ 2:00 AM. ISIP 5195 psi. 5 MIN 5160 psi. 10 MIN 5144 psi. 15 MIN 5127 psi.  TOTAL LOAD 21,830 . RD Halliburton. Open well for flowback approx 12 hrs.	
01/08/2009		Daily Cost:	\$372,500
COMP		Cumulative Costs:	\$5,179,255
AFE:	258128	Present Operation:	MIRU.
DFS:	223	MIRU. First report.	
12/23/2008		Daily Cost:	\$224,636
COMP		Cumulative Costs:	\$4,806,755
AFE:	258128	Present Operation:	See Drilling Report
DFS:	207	Completion Cost Only, See Drilling Report	

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

12/23/2008	Depth	15,790	Daily Cost:	\$21,789
DRLG	Progress	0	Cumulative Costs:	\$4,806,755
AFE: 258128	Present Operation:	Rig Down		
DFS: 207	Lay Down Drill Pipe Trip in Hole W/ Drill Pipe Out Of Derrick Lay Down Drill Pipe Nipple down BOP'S Install Frac Valve Jet And Clean Pits Rig Released At 3:00 AM 12-23-08 Rig Down And Prepare To Move Rig Trucks Set Up to move Rig to White City 14 Fed #6 On Sat. Dec 27			
12/22/2008			Daily Cost:	\$140,112
COMP			Cumulative Costs:	\$4,560,330
AFE: 258128	Present Operation:	See Drilling Report		
DFS: 206	Completion Cost Only, See Drilling Report			
12/22/2008	Depth	15,790	Daily Cost:	\$2,053
DRLG	Progress	0	Cumulative Costs:	\$4,560,330
AFE: 258128	Present Operation:	Lay Down Drill Pipe		
DFS: 206	Trip In Hole W/ Liner to 15446 Rig Up Halliburton, Circulate At 2 BBI Min Trip In Hole With Liner To 15613' Break Circulation W/ Halliburton,Drop Ball, Set Peak completion Tools, W/ 3200 PSI, Close Rams Test RSB Packer To 1000 PSI, Leaking Wait On 2" Ball to Drop to Activate RSB Packer Drop 2" Ball, Test RSB Packer, Pressure Up To 5000 PSI, Held OK,Test Backside, Leaking At Pump Truck, Retest Backside To 1500 PSI Held F30 Min, Release Pressure, Open Rams, Release F/ Liner Rig Down Halliburton Circulate W/ Rig Pump, Bottoms Up. Displace Hole W/ KCL Water Check Flow Rig Up Lay Down machine Lay Down Drill Pipe Hole Taking Proper Fluid			
12/21/2008			Daily Cost:	\$23,745
COMP			Cumulative Costs:	\$4,418,165
AFE: 258128	Present Operation:	See Drilling Report		
DFS: 205	Completion Cost Only, See Drilling Report			
12/21/2008	Depth	15,790	Daily Cost:	\$6,440
DRLG	Progress	0	Cumulative Costs:	\$4,418,165
AFE: 258128	Present Operation:	Work 3 1/2 Liner W/Peak Completion In Hole		
DFS: 205	Trip In Hole W/ Peak Completion, 3 1/2 Liner To 9934, Taking Wt Going Down, No Drag Up Rig Up Halliburton, Circulate At 2 BBI Min Trip In Hole 6 Stands to 10312, Hole Taking Wt Going Down Still In Casing Rig Up Halliburton, Work Pipe, Packed Off, Worked Free, Circulate, Pump High Vis sweep, Circulate Out, Nothing Came Up W/ Sweep Trip In Hole To Top Of Window @ 11500, Install Rotating Head, No Problems going In Rig Up Halliburton, Circulate At 2 BBI Min 350 Psi Trip In Hole to 14570, Getting Hard to Go Down Rig Up Halliburton, Circulate At 2 BBI Min 450 Psi Trip In Hole,Work Pipe F/ 14570-14633 Rig Up Halliburton, Circulate At 2 BBI Min Pump Sweep 500 PSI Trip In Hole, Work Pipe F/ 14633-14885 Rig Up Halliburton, Circulate At 2 BBI Min Pump Sweep 350 PSI Trip In Hole, Work Pipe F/ 14855-15069 Rig Up Halliburton, Circulate At 2 BBI Min Pump Sweep 350 PSI Trip In Hole F/ 15069-15259 Rig Up Halliburton, Circulate At 2 BBI Min Pump Sweep 350 PSI Trip In Hole F/ 15259-15322 Oil Tanks #1 Bbls #2 Bbls			
12/20/2008			Daily Cost:	\$42,964
COMP			Cumulative Costs:	\$4,387,980
AFE: 258128	Present Operation:	See Drilling Report		
DFS: 204	Completion Cost Only, See Drilling Report			
12/20/2008	Depth	15,790	Daily Cost:	\$2,053
DRLG	Progress	0	Cumulative Costs:	\$4,387,980
AFE: 258128	Present Operation:	Trip In Hole W/ 3 1/2 Liner,Peak Completion		
DFS: 204	Trip In Hole, Stopped At 13660' Wash And Ream F/ 13600-13680, Pump High Vis Sweep, Circulate Out,Pipe Will Go Down Without rotating 1 Out Of 3 times, No Drag coming Up, No Torque, Spot MF-55 Pill, Across Open Hole Trip Out Of Hole To Run Liner Lay Down Mills Rig Up Casing Crew and Pick Up Machine Pre-Job Safety Meeting Pick Up 4 Jts 2 7/8, 95 Jts 3 1/2, 9.30 P-110, Ultra-FJ Liner, W/ Peak Completion, Rig down Casing Crew, Lay Down Machine Trip In Hole W/ 3 1/2 Liner, Peak Completion,Fill Every 20 Stands			
12/19/2008			Daily Cost:	\$27,288
COMP			Cumulative Costs:	\$4,342,963
AFE: 258128	Present Operation:	See Drilling Report		
DFS: 203	Completion Cost Only, See Drilling Report			

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

12/19/2008	Depth	15,790	Daily Cost:	\$7,716
DRLG	Progress	0	Cumulative Costs:	\$4,342,963
AFE: 258128	Present Operation: Trip In Hole, Short Trip			
DFS: 203	Wash And Ream F/ 14648-15754, Hole Getting Tight, Torque and Drag Pull 3 Joints To 15661, Drag cleared Up Pump High Vis Sweep, Circulate Out Trip Out Of Hole To 11500, No Drag Coming Out Cut Drilling Line Trip In Hole No Problems so Far, At 12500'			
12/18/2008			Daily Cost:	\$28,168
COMP			Cumulative Costs:	\$4,307,959
AFE: 258128	Present Operation: See drilling report.			
DFS: 202	Completion costs, see drilling report.			
12/18/2008	Depth	15,790	Daily Cost:	\$3,715
DRLG	Progress	0	Cumulative Costs:	\$4,307,959
AFE: 258128	Present Operation: Wash And Ream 6 1/8 Hole			
DFS: 202	Wash And Ream F/ 13254-13603, 80-100' Per Hour Wash And Ream F/ 13603-13663, No Drag Coming Up, No Torque, But Pipe Would Not Go Down Without Rotating, Pumping Sweeps Wash And Ream F/ 13663-14648, 100' Per Hour			
12/17/2008			Daily Cost:	\$28,338
COMP			Cumulative Costs:	\$4,276,076
AFE: 258128	Present Operation: See drilling report.			
DFS: 201	Completion costs. See drilling report.			
12/17/2008	Depth	15,790	Daily Cost:	\$9,325
DRLG	Progress	0	Cumulative Costs:	\$4,276,076
AFE: 258128	Present Operation: Wash And Ream 6 1/8 Hole			
DFS: 201	Wash And Ream 6 1/8 Hole F/ 11987-13254 No Flare Back Reaming Each Jt Had Problems W/ Hole Drag, Torque F/ 12530-12550, Pumped High Vis Sweeps, Till Hole Cleared Up			
12/16/2008			Daily Cost:	\$1,472
COMP			Cumulative Costs:	\$4,238,413
AFE: 258128	Present Operation: See drilling report.			
DFS: 200	Completion costs. See drilling report.			
12/16/2008	Depth	15,790	Daily Cost:	\$90,365
DRLG	Progress	0	Cumulative Costs:	\$4,238,413
AFE: 258128	Present Operation: Reaming 6 1/8" hole @ 11,987'			
DFS: 200	Trip out of hole Lay down MWD, Auto Trak, Motor, & Bit Trip in hole - Fill pipe every 48 stds. Pick up Bullnose Mill & 2 String Mills Reaming 6 1/8" Hole from 11,506' to 11,987'			
12/15/2008	Depth	15,790	Daily Cost:	\$52,475
DRLG	Progress	190	Cumulative Costs:	\$4,146,576
AFE: 258128	Present Operation: Trip out to pick up Reamers - T.D. @ 15,790'			
DFS: 199	Rotate Drilling From 15,600' To 15,664'. No Flare Survey Rotate Drilling From 15,664' To 15,727'. No Flare Survey / Orientate Tool Face Slide Drilling From 15,727' To 15,735'. No Flare Rotate Drilling From 15,735' To 15,780'. No Flare Orientate Tool Face Slide Drilling From 15,780' To 15,790'. No Flare Survey Attempt to slide drill - Working tight pipe - lay down 4 jts. Circulate & Condition hole - Pump Sweeps Trip out of hole - T.D. Hole @ 15,790' Trip out of hole - Lay down 132 jts. DP Trip out of hole			
12/14/2008	Depth	15,600	Daily Cost:	\$94,390
DRLG	Progress	290	Cumulative Costs:	\$4,094,101
AFE: 258128	Present Operation: Directional Drill 6 1/8" Hole			
DFS: 198	Slide Drilling From 15,310' To 15,325'. No Flare Rotate Drilling From 15,325' To 15,342'. No Flare Slide Drilling From 15,342' To 15,365'. No Flare Survey Rotate Drilling From 15,365' To 15,383'. No Flare Circulate - wait on Hardline Clearance Rotate Drilling From 15,383' To 15,442'. No Flare Survey Repair hose on Power Swivel Rotate Drilling From 15,442' To 15,506'. No Flare Survey/ Orientate Tool Face Slide Drilling From 15,506' To 15,520'. No Flare Rotate Drilling From 15,506' To 15,537'. No Flare Survey Rotate Drilling From 15,537' To 15,600'. No Flare Survey New Centerline - 11,684' TVD at 0' VS with 1.0* down-dip (89.0* inclination).			

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

12/13/2008	Depth	15,310	Daily Cost:	\$55,619
DRLG	Progress	168	Cumulative Costs:	\$3,999,711
AFE: 258128	Present Operation: Directional Drill 6 1/8" Hole			
DFS: 197	Wait on Power Swivel mechanic - Rig up Swivel Trip in hole - Lay down 9 jts. Tight hole. Wash to bottom - 14,891' to 15,141' Relog from 15,113' to 15,142' Rotate Drilling From 15,142' To 15,176'. No Flare Survey Slide Drilling From 15,176' To 15,184'. No Flare Rotate Drilling From 15,184' To 15,239'. No Flare Survey Slide Drilling From 15,239' To 15,261'. No Flare Rotate Drilling From 15,239' To 15,303'. No Flare Survey Slide Drilling From 15,303' To 15,310'. No Flare			
12/12/2008	Depth	15,142	Daily Cost:	\$62,347
DRLG	Progress	17	Cumulative Costs:	\$3,944,092
AFE: 258128	Present Operation: Wait on Mechanic for Power Swivel			
DFS: 196	Rotate Drilling From 15,125' To 15,142'. No Flare Rig Repair - Working on air lines Survey Circ. Sweep to Trip out of hole to change BHA Trip out of hole to change BHA - Lay down BHA Pick up new BHA - Test Tools Trip in hole - Fill pipe every 48 stds. Pick up new BHA - Test tools Wait on Power Swivel mechanic			
12/11/2008	Depth	15,125	Daily Cost:	\$75,427
DRLG	Progress	20	Cumulative Costs:	\$3,881,745
AFE: 258128	Present Operation: Directional Drill 6 1/8" Hole			
DFS: 195	Trip out of hole Lay down Bit # 3 - Pick up Bit # 4 & NorTrak Stab. - Test Tools Trip in hole - Fill pipe every 48 stds. Cut Drilling line Trip in hole Wash to bottom Down link & relog from 15,079' to 15,105' Rotate Drilling From 15,105' To 15,107'. 5' Flare Down link w/ MWD Rotate Drilling From 15,107' To 15,111'. No Flare Survey Rotate Drilling From 15,111' To 15,119'. No Flare Down link w/ MWD Rotate Drilling From 15,119' To 15,125'. No Flare			
12/10/2008	Depth	15,105	Daily Cost:	\$62,817
DRLG	Progress	113	Cumulative Costs:	\$3,806,318
AFE: 258128	Present Operation: Trip out of hole			
DFS: 194	Hydraulic Pump on Power Swivel went out - Wait on new unit - Rig up new unit. Rotate Drilling From 14,992' To 15,012'. No Flare Survey Rotate Drilling From 15,012' To 15,042'. No Flare Survey Rotate Drilling From 15,042' To 15,073'. No Flare Survey Rotate Drilling From 15,073' To 15,105'. No Flare Survey Trip out of hole - Due to PR No Centerline Change			
12/09/2008	Depth	14,992	Daily Cost:	\$67,832
DRLG	Progress	140	Cumulative Costs:	\$3,743,501
AFE: 258128	Present Operation: Change out Power Swivel			
DFS: 193	Rotate Drilling From 14,852' To 14,863'. No Flare Survey Rotate Drilling From 14,863' To 14,907'. No Flare Survey Rotate Drilling From 14,907' To 14,915'. No Flare Survey Rotate Drilling From 14,915' To 14,978'. No Flare Survey Rotate Drilling From 14,978' To 14,992'. No Flare Hydraulic Pump on Power Swivel went out - Wait on new unit - Rig up new unit. New Centerline - 11,698' TVD at 0' VS with 0.8* down-dip (89.2* inclination).			
12/08/2008	Depth	14,852	Daily Cost:	\$73,516
DRLG	Progress	153	Cumulative Costs:	\$3,675,669
AFE: 258128	Present Operation: Directional Drill 6 1/8" Hole			
DFS: 192	Trip in hole - Fill pipe every 48 stds. Wash to Bottom Survey Rotate Drilling From 14,699' To 14,726'. 3' to 5' Flare Survey Rotate Drilling From 14,726' To 14,789'. No Flare Survey Rotate Drilling From 14,789' To 14,820'. No Flare Survey Rotate Drilling From 14,820' To 14,839'. No Flare - Time Drilling trying to knockdown Inclination. Circ. To work Auto Trak pads Rotate Drilling From 14,839' To 14,852'. No Flare			
12/07/2008	Depth	14,699	Daily Cost:	\$67,468
DRLG	Progress	89	Cumulative Costs:	\$3,602,153
AFE: 258128	Present Operation: Trip in hole			
DFS: 191	Rotate Drilling From 14,610' To 14,637'. No Flare Survey Rotate Drilling From 14,637' To 14,668'. No Flare Survey Rotate Drilling From 14,668' To 14,699'. No Flare Rig Repair - Work on throttle of rig motor MWD Failure - Trouble shoot MWD Tool Trip out of hole to change MWD Tool & Auto Trak - Tight Spots @ 13,613' & 12,608' Lay down MWD & Auto Trak - Pick up MWD & Auto Trak - Test Tools Trip in hole - Fill pipe every 48 stds.			
12/06/2008	Depth	14,610	Daily Cost:	\$66,617
DRLG	Progress	510	Cumulative Costs:	\$3,534,685
AFE: 258128	Present Operation: Directional Drill 6 1/8" Hole			
DFS: 190	Rotate Drilling From 14,100' To 14,383'. No Flare Survey Rotate Drilling From 14,383' To 14,610'. No Flare Survey			

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

12/05/2008	Depth	14,100	Daily Cost:	\$135,193
DRLG	Progress	509	Cumulative Costs:	\$3,468,068
AFE: 258128	Present Operation:	Directional Drill 6 1/8" Hole		
DFS: 189	Reaming Tight Hole From 13,491' To 13,591'. Rotate Drilling From 13,591' To 13,623'. No Flare Survey @ 13,587' Rotate Drilling From 13,623' To 13,686'. No Flare Survey @ 13,650' Rotate Drilling From 13,686' To 13,718'. No Flare Survey @ 13,650' Rotate Drilling From 13,718' To 13,813'. No Flare Survey @ 13,777' Rotate Drilling From 13,876' To 13,940'. No Flare Survey @ 13,904' Rotate Drilling From 13,940' To 14,003'. No Flare Survey @ 13,967' Rotate Drilling From 14,003' To 14,034'. No Flare Survey @ 14,030' Rotate Drilling From 14,034' To 14,100'. No Flare Latest Centerline Change - 11,728' TVD at 0' VS with 0.2* down-dip (89.8* inclination).			
12/04/2008	Depth	13,591	Daily Cost:	\$86,204
DRLG	Progress	285	Cumulative Costs:	\$3,332,875
AFE: 258128	Present Operation:	Reaming Tight Hole From 13,460'		
DFS: 188	Survey @ 12,826' Rotate Drilling From 13,306' To 13,369'. No Flare Survey @ 13,333' Rotate Drilling From 13,369' To 13,433'. No Flare Survey @ 13,397' Rotate Drilling From 13,433' To 13,496'. No Flare Survey @ 13,460' Rotate Drilling From 13,496' To 13,528'. No Flare Circulate & Work Pipe Thru Tight Spot @ 13,500' Rotate Drilling From 13,528' To 13,559'. No Flare Survey @ 13,523' Rotate Drilling From 13,559' To 13,591'. No Flare Working Stuck Pipe @ 13,591 Spot 100 Bbls Of 12.3 Mud In Annulus Work 4 Jts Of DP Out Of Hole From 13,591, To 13,460'. Reaming Tight Hole From 13,460 To 13,491'. New Centerline - 11,744' TVD at 0' VS with 0.2* up-dip (90.2* inclination).			
12/03/2008	Depth	13,306	Daily Cost:	\$60,145
DRLG	Progress	475	Cumulative Costs:	\$3,246,671
AFE: 258128	Present Operation:	Directional Drill 6 1/8" Hole		
DFS: 187	Survey @ 12,826' Rotate Drilling From 12,862' To 12,926'. Survey @ 12,890' Rotate Drilling From 12,926' To 12,989'. Survey @ 12,953' Rotate Drilling From 12,989' To 13,053'. Survey @ 13,017' Rotate Drilling From 13,053' To 13,148'. Survey @ 13,112' Had Problems Up Linking Tools Rotate Drilling From 13,148' To 13,211'. Survey @ 13,112' Rotate Drilling From 13,211' To 13,274'. Survey @ 13,238' Rotate Drilling From 13,274' To 13,306'. Centerline - 11,741' TVD at 0' VS with 0.0* dip (90.0* inclination).			
12/02/2008	Depth	12,831	Daily Cost:	\$75,144
DRLG	Progress	398	Cumulative Costs:	\$3,186,526
AFE: 258128	Present Operation:	Directional Drill 6 1/8" Hole		
DFS: 186	Finish Re Log To 12,433' Rotate Drilling From 12,433' To 12,451'. Survey @ 12,415' Rotate Drilling From 12,451' To 12,514'. Survey @ 12,415' Rotate Drilling From 12,514' To 12,577'. Survey @ 12,541' Rotate Drilling From 12,577' To 12,762'. Survey @ 12,731' Rotate Drilling From 12,762' To 12,831'. New Centerline - 11,747' TVD at 0' VS with 0.3* up-dip (90.3* inclination).			
12/01/2008	Depth	12,433	Daily Cost:	\$58,847
DRLG	Progress	57	Cumulative Costs:	\$3,111,382
AFE: 258128	Present Operation:	Re Logging Gamma		
DFS: 185	Wait On Power Unit For Swivel & Rig Up Rotate Drilling From 12,376' To 12,384'. Survey @ 12,351' Rotate Drilling From 12,384' To 12,433'. Set Swivel Back & Lay Down 16 Jts. To Re log. Re Log Gamma From 11,925' To 12,433'.			
11/30/2008	Depth	12,376	Daily Cost:	\$58,511
DRLG	Progress	72	Cumulative Costs:	\$3,052,535
AFE: 258128	Present Operation:	Waiting On Power Unit For Swivel		
DFS: 184	Pick Up Rotary Steerable Tool & Bit #3. Test Connections & MWD. Trip In Hole W Bit # 3 To 11,506'. ( Fill Every 3 Rows ) Change Out Power Swivels. Trip In Hole W Bit # 3. No Problems Relog Gamma From 12,260' To 12,304'. Rotate Drilling From 12,304' To 12,324' Survey @ 12,288'. Rotate Drilling From 12,324' To 12,335' Repair By Pass Valve On Bakers Surface Tools Rotate Drilling From 12,335' To 12,356'. Survey @ 12,320' Rotate Drilling From 12,356' To 12,376'. Wait On Power Unit For Swivel			
11/29/2008	Depth	12,304	Daily Cost:	\$49,540
DRLG	Progress	79	Cumulative Costs:	\$2,994,024
AFE: 258128	Present Operation:	Test Connections & MWD		
DFS: 183	Directional Drilling From 12,225' To 12,304' - No Flare, No Pressure On Annulus. Trouble Shoot Bakers Surface Equipment. Computer Not Working Right. Set Swivel Back & Trip Out Of Hole To Pick Up Rotary Steerable & PDC Bit. Lay Down Motor & Bit. Pick Up Rotary Steerable Tool & Bit #3. Test Connections & MWD. New Centerline - 11,748' TVD at 0' VS with 0.2* up-dip (90.2* inclination).			
11/28/2008	Depth	12,225	Daily Cost:	\$42,667
DRLG	Progress	300	Cumulative Costs:	\$2,944,484
AFE: 258128	Present Operation:	Directional Drill 6 1/8" Hole		



**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

DFS: 182 Slide Drilling From 11,925' To 11,935' - No Flare, No Pressure On Annulus. Rotate Drilling From 11,935' To 11,946' - No Flare, No Pressure On Annulus. Conn. & Survey @ 11,946'. Orient Tool Face. Slide Drilling From 11,946' To 11,961' - No Flare, No Pressure On Annulus. Rotate Drilling From 11,961' To 11,978' - No Flare, No Pressure On Annulus. Conn. & Survey @ 11,978'. Orient Tool Face. Slide Drilling From 11,978' To 11,993' - No Flare, No Pressure On Annulus. Rotate Drilling From 11,993' To 12,010' - No Flare, No Pressure On Annulus. Conn. & Survey @ 12,010'. Orient Tool Face. Rotate Drilling From 12,010' To 12,041' - No Flare, No Pressure On Annulus. Conn. & Survey @ 12,041'. Orient Tool Face. Rotate Drilling From 12,041' To 12,073' - No Flare, No Pressure On Annulus. Conn. & Survey @ 12,073'. Orient Tool Face. Directional Drilling From 12,073' To 12,225' - No Flare, No Pressure On Annulus. New Centerline - 11,748' TVD at 0' VS with flat-dip (90.0° inclination).

11/27/2008 Depth 11,925 Daily Cost: \$120,730

DRLG Progress 65 Cumulative Costs: \$2,901,817

AFE: 258128 Present Operation: Directional Drill 6 1/8" Hole

DFS: 181 Rotate Drilling From 11,860' To 11,883' - No Flare, No Pressure On Annulus. Conn. & Survey @ 11,883'. Orient Tool Face. Slide Drilling From 11,883' To 11,893' - No Flare, No Pressure On Annulus. Rotate Drilling From 11,893' To 11,915' - No Flare, No Pressure On Annulus. Conn. & Survey @ 11,915'. Orient Tool Face. Slide Drilling From 11,915' To 11,919' - No Flare, No Pressure On Annulus. Shale Heaving In Plugging Hole Off. Working Stuck Pipe Out Of Hole From 11,919' To 11,787'. Displacing Hole W/ 10# Brine Water. Ream & Wash From 11,787' Back To 11,919'. Slide Drilling From 11,919' To 11,925' - No Flare, No Pressure On Annulus. Shale Appears To Be Stabilized. New Centerline - 11,746' TVD at 0' VS with flat-dip (90.0° inclination).

11/26/2008 Depth 11,860 Daily Cost: \$57,007

DRLG Progress 440 Cumulative Costs: \$2,781,087

AFE: 258128 Present Operation: Slide Drilling Curve

DFS: 180 Trip Out Of Hole For Lateral Assembly. Lay Down Bit & Motor. Pick Up New Motor & Bit #2, Orient & Test. Trip In Hole W/ Bit #2 To Land Curve. ( Fill Every 3 Rows ) Rig Repair - Bolt In Hydromatic Broken Off Trip In Hole W/ Bit #2 To Land Curve. ( Fill Every 3 Rows ) Wash From 11,755' To 11,849'. Slide Drilling From 11,849 To 11,860' W/ A 2' To 5' Lazy Flare, No Pressure On Annulus.

11/25/2008 Depth 11,849 Daily Cost: \$52,704

DRLG Progress 159 Cumulative Costs: \$2,724,080

AFE: 258128 Present Operation: Trip Out Of Hole For Lateral Assembly

DFS: 179 Slide Drilling From 11,690' To 11,849'. Set Swivel Back & Trip Out Of Hole For Lateral Assembly.

11/24/2008 Depth 11,690 Daily Cost: \$56,799

DRLG Progress 169 Cumulative Costs: \$2,671,376

AFE: 258128 Present Operation: Directional Drill 61/8" Lateral at 11,690

DFS: 178 Time Drill 61/8" hole [Building lateral ] from 11,516' to 11,525' Directional Drill 61/8" hole [ Building Lateral section ]Slide drill From 11,525' to 11,563' @ 22.3 WOB -7.7 ROP Survey at 11,519' Incl 4.5 - Az = 340. - TVD - 11510.13 - VS= 112.08 - DLs =17.97 Directional Drill 61/8" hole [ Building Lateral section ] Slide drill From 11,563' to 11,596' @ 33.3 WOB - 15.4 ROP Survey at 11,551' Incl 19.3 - Az = 336.3 - TVD - 11572.64 VS = 124.81 - DLS = 24.83 Directional Drill 61/8" hole [ Building Lateral section ] Slide drill From 11,596' to 11,628' @ 33.3 WOB - 16.4 ROP Survey at 11,583' Incl 4.5 - Az = 340.0 - TVD - 11510.13 ,rig down, release guro truck Directional Drill 61/8" hole [ Building Lateral section ] Slide drill From 11,628' to 11,660' @ 33.3 WOB - 14.4 ROP Survey at 11,615' Incl 19.3 - Az = 336.3 - TVD - 11572.84 VS = 124.81 - DLs = 24.83 Directional Drill 61/8" hole [ Building Lateral section ] Slide drill From 11,660' to 11,690' @ 34.3 WOB - 14.4 ROP

11/23/2008 Depth 11,421 Daily Cost: \$50,823

DRLG Progress 9 Cumulative Costs: \$2,614,577

AFE: 258128 Present Operation: Time Drilling Thru window area

DFS: 177 Continue to mill casing window from 11,512' to 11,521' Circulate and clean hole Trip out hole with window opening mills , and lay down same Pick up and run motor & MWD adjust AKO , scribe , surface test MWD 300 psi pulses ok, continue pu BHA # 2 , TIH 11,501 Pick up swivel fill pipe Rig up Wireline , Ru gyro run to bottom , Hole rough thru window ,Time drill with gyro from 11,501' to 11,516'

11/22/2008 Depth 11,512 Daily Cost: \$46,759

DRLG Progress 7 Cumulative Costs: \$2,563,754

AFE: 258128 Present Operation: Mill casing window at 11,512'

DFS: 176 TOH and SLM Dp and stand in derrick Make up BHA # 1 with 5.5" Whipstock - 6.125" Lead mill - 6.125" Flex mill - Float sub - 3.5" Hwdp - Ubho sub - 3.5" Hwdp TIH w / BHA # 1 to 11,490'. Rig up wireline , TIH w / Gyro and tools , down 3.50" AOH , check seats ,241 - 266 - 239 - 238 - 239 - 237 Lower whipstock , check tool face seats , 347.99 - 347.00 - 347.88 - 348.0 - 347.52 - final seat 347.00 @ Set whipstock 11,519.5' , Rig up swivel Began to mill casing window from 11,505' to 11,512'

11/21/2008 Depth 12,003 Daily Cost: \$55,852

DRLG Progress 0 Cumulative Costs: \$2,516,995

AFE: 258128 Present Operation: Trip out hole [ SLM ] stand pipe in derrick

DFS: 175 Wo orders for CIBP setting depth, CIBP at 11,533' [ wireline measure ] , Toh and rig down loggers , Release truck Rig up lay down truck , Repair hydraulic hose on truck , Held safety meeting with crews , strap DP Pick up and run 6 1/8" window mill ,bit sub ,water melon mill on 3.5" AOH DP to 11,519.75' [ Slm ] Top CIBP Rig down and release lay down truck , Circulate and condition hole Tally out of hole , stand dp in derrick

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

11/20/2008	Depth	12,003	Daily Cost:	\$150,974
DRLG	Progress	0	Cumulative Costs:	\$2,461,143
AFE: 258128	Present Operation:	Wait on CIBP setting depth		
DFS: 174	MlxRU RIG Fri -14 -2008 / Sat - 15-2008, Rig up Pits - pumps - back yard - mechanical repairs to generators damaged in rig move Crew off Sunday - 16 - 2008 thru Tuesday - 18 - 2008 Crews back Wednesday - 19 -2008 , Rig up remaining items , Nipple Down well head and begin nipple up Bope Nipple up DSA and bope , set in manifold Nipple up Flow line , Wait for replacement 4" butter fly valve [ damaged in move ] Test BOPE and manifold , Tiw valves and etc. 3000 psi high , 250 psi low , Test rotary head 2500 psi, Rig dn testers control panel on Schooner choke is faulty , waiting for digital gauge Rig up wire line , Run Gauge ring / ccl / gammaray tool to 11,500' log out to 11,000' ,ru setting tool & CIBP, TIH 10,000' wo orders Wait for CIBP setting depth , Strap dp on racks Vert section unknown @ report time			
06/25/2008			Daily Cost:	\$461,738
COMP			Cumulative Costs:	\$2,310,169
AFE: 258128	Present Operation:	See Drilling Report		
DFS: 26	See Drilling Report			
06/25/2008	Depth	12,003	Daily Cost:	\$46,618
DRLG	Progress	0	Cumulative Costs:	\$2,310,169
AFE: 258128	Present Operation:	Rig Down - Release Rig @ 5:00 am. CST		
DFS: 26	Run 7", 26 ppf.,P-110, LT&C Casing. Circ. & Condition Hole to cement Cemeht 7" Casing @ 12,003' - Casing Summary: Test lines to 3500 psi Pump 20 bbls fresh water Pump 12 bbls super flush Pump 10 bbls fresh water Mix and pump 540 sks Interfill H w/ .5% HR-601, 3lbm. Pheno seal @ 11.9 - 2.50 - 14.2 Mix and pump 700 sks PBMSH w/ .5% Halad@-344, .25% D-Air 3000, .4%CFR,1 lbm. Salt, 5 lbm Gilsonite, .4% HR-5 .25 lbm Pheno Seal-Blend, .3% Super CBL @ 13.2 - 1.61 - 7.74 Pump 455 bbls fresh water displacement Did not Circulate cement to pit / Bump plug @ 12:45 pm. CST with 3100 lbs psi / 3.5 bbls back / floats held, Good circulation through out entire job. Wait on Cement / Jet Pits Nipple down Bop / set 200,000 lbs on slips / cut off casing / set BOP off/ Final cut on Casing / Install Tubing head/ Test to 4800 psi. O.K./ Install Capping Flange Finish jetting pits - Lay down Kelly Rig down Release Rig @ 5:00 AM CST			
06/24/2008			Daily Cost:	\$23,934
COMP			Cumulative Costs:	\$1,801,813
AFE: 258128	Present Operation:	Run 7" Casing		
DFS: 25	Trip out of hole Laying down DP, DC's, BHA, & Break down Kelly Service rig Trip out of hole Laying down DP, DC's, BHA, & Break down Kelly Wait on Casing Crew Rig up Casing Crew, Hold Safety Meeting, Run 7", 26 ppf.,P-110, LT&C Casing.			
06/23/2008			Daily Cost:	\$22,173
COMP			Cumulative Costs:	\$1,777,879
AFE: 258128	Present Operation:	See Drilling Report		
DFS: 24	See Drilling Report			
06/23/2008	Depth	12,003	Daily Cost:	\$77,249
DRLG	Progress	0	Cumulative Costs:	\$1,777,879
AFE: 258128	Present Operation:	Trip out of hole LDDP		
DFS: 24	Wait on Logging Unit Rig up Schlumberger - Hold Safety Meeting - Run Logs Logging Summary: 1st. Run - Tag TD @ 12,007' Wireline measurement. PEX-HRLA-HNGS TDLD-DLL-MSFL 12,007' - 5,184' CNL-GR 12,007' - 200' HNGS 12,007' - 11,450' 2nd. Run MSCT-GR Cut 27 cores & Recovered 27 cores Trip in hole w/ Bit # RR 7 Wash to bottom 80' ( No Fill ) Circulate Bottoms up & Pump Sweep - Rig up Bull Rogers Laydown machine Trip out of hole Laying down DP			
06/22/2008	Depth	12,003	Daily Cost:	\$30,854
DRLG	Progress	208	Cumulative Costs:	\$1,678,457
AFE: 258128	Present Operation:	Lay down BHA		
DFS: 23	Drilling 8 3/4" hole from 11,795' To 11,827'. Service rig 50.5 Motor 59.5 Drilling 8 3/4" hole from 11,827' To 12,003'. 111.5 Jars 120.5 Deviation survey 216.5 DC's 225.5 Circulate Bottoms up & Pump Sweep Trip 15 std. Short Trip Circulate & Condition hole for Logs - Pump sweep Trip out of hole to log - Lay down Motor, Float subs, Teledrift			

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

06/21/2008			Daily Cost:	\$385
COMP			Cumulative Costs:	\$1,647,603
AFE:	258128	Present Operation:	See Drilling Report	
DFS:	22	See Drilling Report		
06/21/2008	Depth	11,795	Daily Cost:	\$48,001
DRLG	Progress	510	Cumulative Costs:	\$1,647,603
AFE:	258128	Present Operation:	Drilling	
DFS:	22	Drilling 8 3/4" hole from 11,285' To 11,317'. Deviation survey 28 Motor 50.5 Drilling 8 3/4" hole from 11,317' To 11,541'. 89 Jars 111.5 Service rig 194 DC's 216.5 Drilling 8 3/4" hole from 11,541' To 11,668'. Deviation survey Drilling 8 3/4" hole from 11,668' To 11,795'.		
06/20/2008			Daily Cost:	\$10,260
COMP			Cumulative Costs:	\$1,599,217
AFE:	258128	Present Operation:	See Drilling Report	
DFS:	21	See Drilling Report		
06/19/2008	Depth	10,795	Daily Cost:	\$38,850
DRLG	Progress	220	Cumulative Costs:	\$1,588,957
AFE:	258128	Present Operation:	Drilling	
DFS:	20	Drilling 8 3/4" hole from 10,575' To 10,680'. Deviation survey Service rig Trip out of hole w/ Bit # 6 - Change Bit & Motor - Laydown Reamers Trip in hole w/ Bit # 7 Wash to bottom 80' ( No Fill ) Drilling 8 3/4" hole from 10,680' To 10,795'.		
06/18/2008	Depth	10,575	Daily Cost:	\$33,302
DRLG	Progress	475	Cumulative Costs:	\$1,550,107
AFE:	258128	Present Operation:	Drilling	
DFS:	19	Drilling 8 3/4" hole from 10,100' To 10,193'. Survey @ 10,148' 1 Deg. 32.5 Motor 55 Drilling 8 3/4" hole from 10,193' To 10,225'. 32.5 Jars 55 Service Rig 137.5 DC's 160 Drilling 8 3/4" hole from 10,225' To 10,390'. Survey @ 10,335' 1 Deg. Drilling 8 3/4" hole from 10,390' To 10,575'.		
06/17/2008	Depth	10,100	Daily Cost:	\$33,837
DRLG	Progress	330	Cumulative Costs:	\$1,516,805
AFE:	258128	Present Operation:	Drilling	
DFS:	18	Drilling 8 3/4" hole from 9,770' To 9,909' Service Rig 9 Motor 32.5 Drilling 8 3/4" hole from 9,909' To 10,100'. 9 Jars 32.5 114 DC's 137.5		
06/16/2008	Depth	9,770	Daily Cost:	\$27,957
DRLG	Progress	215	Cumulative Costs:	\$1,482,968
AFE:	258128	Present Operation:	Drilling	
DFS:	17	Drilling 8 3/4" hole from 9,555' to 9,569' Deviation survey Motor 9 Trip out of hole w/ Bit # 5 Jars 9 Trip in hole w/ Bit # 6 - Change Bit, Motor, & Jars 105 DC's 114 Cut Drilling Line Trip in hole w/ Bit # 6 Wash to bottom 80' ( No Fill ) Drilling 8 3/4" hole from 9,569' to 9,770'		
06/15/2008	Depth	9,555	Daily Cost:	\$67,019
DRLG	Progress	540	Cumulative Costs:	\$1,455,011
AFE:	258128	Present Operation:	Drilling	
DFS:	16	Drilling 8 3/4" hole from 9,015' to 9,037' Deviation survey 30.5 Motor 53 Drilling 8 3/4" hole from 9,037' to 9,257' 206.5 Jars 229 Rig service 82.5 DC's 105 Drilling 8 3/4" hole from 9,257' to 9,351' Deviation survey Drilling 8 3/4" hole from 9,351' to 9,555'		
06/14/2008	Depth	9,015	Daily Cost:	\$47,821
DRLG	Progress	615	Cumulative Costs:	\$1,387,992
AFE:	258128	Present Operation:	Drilling	
DFS:	15	Drilling 8 3/4" hole from 8,400' to 8,412' Deviation survey 8 Motor 30.5 Drilling 8 3/4" hole from 8,412' to 8,569' 184 Jars 206.5 Rig service 60 DC's 82.5 Drilling 8 3/4" hole from 8,569' to 8,725' Deviation survey Drilling 8 3/4" hole from 8,725' to 9,015'		
06/13/2008	Depth	8,400	Daily Cost:	\$38,488
DRLG	Progress	250	Cumulative Costs:	\$1,340,171
AFE:	258128	Present Operation:	Drilling	
DFS:	14	Drilling 8 3/4" hole from 8,150' to 8,192' Trip out of hole w/ Bit # 4 Trip in hole w/ Bit # 5 - Change Motor & Bit Rig service Rig Repair - High Drum & High Transmission Trip in hole w/ Bit # 5 Wash to Bottom - 95' Drilling 8 3/4" hole from 8,192' to 8,400'		

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

06/12/2008	Depth	8,150	Daily Cost:	\$35,520
DRLG	Progress	690	Cumulative Costs:	\$1,301,683
AFE: 258128	Present Operation:	Drilling		
DFS: 13	Drilling 8 3/4" hole from 7,460' to 7,538' Deviation survey Drilling 8 3/4" hole from 7,538' to 7,570' Rig service Drilling 8 3/4" hole from 7,570' to 7,851' Deviation survey Drilling 8 3/4" hole from 7,851' to 8,132' Deviation survey Drilling 8 3/4" hole from 8,132' to 8,150'			
06/11/2008	Depth	7,460	Daily Cost:	\$73,381
DRLG	Progress	1,736	Cumulative Costs:	\$1,266,163
AFE: 258128	Present Operation:	Drilling		
DFS: 12	Drilling 8 3/4" hole from 5,724' to 6,005' Deviation survey Drilling 8 3/4" hole from 6,005' to 6,067' Rig service Drilling 8 3/4" hole from 6,067' to 6,568' Deviation survey Drilling 8 3/4" hole from 6,568' to 6,882' Deviation survey Drilling 8 3/4" hole from 6,882' to 7,226' Deviation survey Drilling 8 3/4" hole from 7,226' to 7,460'			
06/10/2008	Depth	5,724	Daily Cost:	\$124,270
DRLG	Progress	532	Cumulative Costs:	\$1,192,782
AFE: 258128	Present Operation:	Drilling		
DFS: 11	Test BOP Stack and Choke Manifold 250# Low - 5000# High, Test Annular 250# Low - 2500# High, Test Kelly Valves and Kelly to 250# Low - 5000# High ( everything tested OK ) Motor 6 Service Rig 118 Jars 124 Pick up BHA & Trip in hole w/ Bit # 4 DC's 6 Test casing to 1000 psi. OK Drilling Float, Cement & Shoe - Tag cement @ 5,086' - Float @ 5,101' - Tag Float Shoe @ 5,190' Drilling 8 3/4" hole from 5,192' to 5,285' Deviation survey Drilling 8 3/4" hole from 5,285' to 5,630' Deviation survey Drilling 8 3/4" hole from 5,630' to 5,724'			
06/09/2008	Depth	5,192	Daily Cost:	\$299,360
DRLG	Progress	0	Cumulative Costs:	\$1,068,512
AFE: 258128	Present Operation:	Test BOPE		
DFS: 10	Run 119 jts. 9 5/8", 40#, N-80, STC casing / 5193.91' total pipe / casing set @ 5190' Circ. Casing on bottom Hold safety meeting, Rig up Halliburton & cement 9 5/8" casing. Cement Summary: 1st. Stage: 1425 sx. Interfill C - SBM, 11.9 lbm./gal. 2.45 yield 2nd. Stage: Halliburton had pump problems - No tail cement Circulated 222 sx. To surface. Bumped plug @ 11:46 am CST Float held. Wait on Cement Cut off casing & 13 3/8" w/ Rotating Head, Weld on head, & test to 1000 psi. Test O.K. Nipple up BOP Test BOP Stack and Choke Manifold 250# Low - 5000# High, Test Annular 250# Low - 2500# High,			
06/08/2008	Depth	5,192	Daily Cost:	\$28,142
DRLG	Progress	127	Cumulative Costs:	\$769,152
AFE: 258128	Present Operation:	Run 9 5/8" Casing		
DFS: 9	Drilling 12 1/4" hole from 5,065' to 5,142' (45,000 WT. 65 RPM) Lubricate & service rig Swivel packing leaking / short trip out 10 stands Change packing in swivel Trip in hole 10 stands Drilling 12 1/4" hole from 5,142' to 5,192' (45,000 WT. 65 RPM) / TD 12 1/4" hole @ 2:00 PM 6-7-2008 Pump E-Z mud sweep & circ. Deviation survey - teledrift @ 5,192' / 1 1/2" Trip out of hole to run 9 5/8" casing Held safety meeting with rig crew, lay down crew & casing crew Rig up lay down machine & lay down BHA Rig up casing crew & run 9 5/8" casing			
06/07/2008	Depth	5,065	Daily Cost:	\$32,264
DRLG	Progress	506	Cumulative Costs:	\$741,010
AFE: 258128	Present Operation:	Drilling		
DFS: 8	Drilling 12 1/4" hole from 4,559' to 4,715' (35,000 WT. 75 RPM) Deviation survey - Wire Line - no survey Drilling 12 1/4" hole from 4,715' to 4,746' (35,000 WT. 75 RPM) Deviation survey - teledrift @ 4,701' / 2 1/2" Lubricate & service rig Swivel packing leaking / short trip out 15 stands Change packing in swivel Trip in hole 15 stands Drilling 12 1/4" hole from 4,746' to 4,964' (45,000 WT. 65 RPM) Deviation survey - teledrift @ 4,924' / 2" Drilling 12 1/4" hole from 4,964' to 5,065' (45,000 WT. 65 RPM)			
06/06/2008	Depth	4,559	Daily Cost:	\$34,317
DRLG	Progress	471	Cumulative Costs:	\$708,746
AFE: 258128	Present Operation:	Drilling		
DFS: 7	Drilling 12 1/4" hole from 4,088' to 4,183' (25,000 WT. 75 RPM) Deviation survey - Wire Line @ 4,130' / 4.84 * Drilling 12 1/4" hole from 4,183' to 4,246' (25,000 WT. 75 RPM) Lubricate & service rig Drilling 12 1/4" hole from 4,246' to 4,277' (25,000 WT. 75 RPM) Deviation survey - Wire Line @ 4,227' / 4.07 * Drilling 12 1/4" hole from 4,277' to 4,371' (30,000 WT. 75 RPM) Deviation survey - Wire Line @ 4,331' / 3.98 * Drilling 12 1/4" hole from 4,371' to 4,465' (30,000 WT. 75 RPM) Deviation survey - Wire Line @ 4,425' / 3.15 * Drilling 12 1/4" hole from 4,465' to 4,559' (30,000 WT. 75 RPM) Deviation survey - Wire Line @ 4,519' / 3.21*			

**CIMAREX ENERGY CO****429957-003.01 CIMAREX UNIVERSITY 20-12B 1H**

County, St: Winkler, TX

Location: Sec 12, Blk 20, PSL Svy; 2174'FEL &amp; 467'FSL

Spud Date: 05/30/2008 W.I. Pct BCP: 100.00 %

Formation: ID Bone Sprgs Upper B sa W.I. Pct ACP: 100.00 %

Prop Depth: 16150 Sec/TS/Rng: 12

06/05/2008	Depth	4,088	Daily Cost:	\$86,247
DRLG	Progress	363	Cumulative Costs:	\$674,429
AFE: 258128	Present Operation:	Drilling		
DFS: 6	Trip in hole with bit #3 Drilling 12 1/4" hole from 3,725' to 3,776' (15,000 WT. 75 RPM) 0 Motor 19 Lubricate & service rig 54 Jars 73 Drilling 12 1/4" hole from 3,776' to 3,807' (25,000 WT. 75 RPM) 62 DC's 81 Deviation survey - Wire Line @ 3,772' / 5.33 * Drilling 12 1/4" hole from 3,807' to 3,901' (35,000 WT. 75 RPM) Deviation survey - Wire Line @ 3,861' / 4.14 * Drilling 12 1/4" hole from 3,901' to 4,027 (35,000 WT. 75 RPM) Deviation survey - Wire Line @ 3,987' / 5.34 * Drilling 12 1/4" hole from 4,027 to 4,088' (20,000 WT. 75 RPM) Deviation survey - Wire Line @ 4,049 / 5.00 *			
06/04/2008	Depth	3,725	Daily Cost:	\$47,580
DRLG	Progress	325	Cumulative Costs:	\$588,182
AFE: 258128	Present Operation:	Trip In Hole		
DFS: 5	Drilling 12 1/4" hole from 3,400' to 3,450' Lubricate & service rig 29.5 Motor 45 Drilling 12 1/4" hole from 3,450' to 3,521' 38.5 Jars 54 Deviation survey - Wire Line @ 3,447' / 3.26 * 46.5 DC's 62 Drilling 12 1/4" hole from 3,521' to 3,665' Deviation survey - Wire Line @ 3,591' / 4.48 * Drilling 12 1/4" hole from 3,665' to 3,725' Deviation survey - drop @ 3,725' / 5.71 * Trip out of hole with bit #2 Lay down used motor & shock tool / pick up fresh motor & tri-cone bit Trip in hole with bit #3			
06/03/2008	Depth	3,400	Daily Cost:	\$36,044
DRLG	Progress	1,800	Cumulative Costs:	\$540,602
AFE: 258128	Present Operation:	Drilling		
DFS: 4	Drilling 12 1/4" hole from 1,600' to 1,797' Deviation survey - teledrift @ 1787' / 1* Drilling 12 1/4" hole from 1,797' to 2,052' Deviation survey - teledrift @ 2,042' / 1* Drilling 12 1/4" hole from 2,052' to 2,301' Deviation survey - teledrift @ 2,292' / 1* Drilling 12 1/4" hole from 2,301' to 2,508' Lubricate & service rig Drilling 12 1/4" hole from 2,508' to 2,633' Deviation survey - teledrift @ 2583' / 1* Drilling 12 1/4" hole from 2,633' to 3,039' Deviation survey - teledrift @ 2,989' / 2* Drilling 12 1/4" hole from 3,039' to 3,258' Deviation survey - teledrift @ 3,208' / 1* Drilling 12 1/4" hole from 3,258' to 3,400'			
06/02/2008	Depth	1,600	Daily Cost:	\$34,657
DRLG	Progress	710	Cumulative Costs:	\$504,558
AFE: 258128	Present Operation:	Drilling		
DFS: 0	WOC Cut off conductor pipe & 13 3/8" casing / install rotating head on 13 3/8" casing 0 Motor 9 Strap & pick up BHA 9 Jars 18 Trip in hole 17 DC's 26 Drilling 68' cement, plug & float / tag up @ 822' Drilling 12 1/4" hole from 890' to 913' Lubricate & service rig Drilling 12 1/4" hole from 913' to 1,162' Install rotating head rubber Drilling 12 1/4" hole from 1,162' to 1,225' Deviation survey - teledrift @ 1,117' / 1* Drilling 12 1/4" hole from 1,225' to 1,507' Deviation survey - teledrift @ 1,457' / 1* Drilling 12 1/4" hole from 1,507' to 1,600'			
06/01/2008	Depth	890	Daily Cost:	\$110,863
DRLG	Progress	430	Cumulative Costs:	\$469,901
AFE: 258128	Present Operation:	WOC		
DFS: 0	Drilling 17 1/2" hole from 460' to 636' Deviation survey @ 616' - no survey teledrift failed 8 Motor 17 Drilling 17 1/2" hole from 636' to 779' 0 Jars 9 Lubricate & service rig 8 DC's 17 Drilling 17 1/2" hole from 779' to 890' Pump sweep & circ. to run casing Deviation survey on wire line @ 841' / 1* Trip out of hole with bit #1 / lay down BHA Rig up Casing Crew & Lay down Machine Hold safety meeting with all crews / wait on float eqpt. ( delivered wrong size shoe & float ) Run 19 jts. 13 3/8", 48#, H-40, STC casing / 890.39' total pipe / casing set @ 886' Circ. Casing on bottom / held safety meeting Halliburton & rig crews Rig up Halliburton cement lines to 13 3/8 casing / test lines to 1,500 lb. Psi. / no leaks Start cement job: pump 25 bbl H2O spacer- 12 bbl super 101-H2O spacer 10 bbl - 400 sks lead cement Hal Light @ 12.9# Tail cement: 340 sks premium plus @ 14.8# / drop plug - pumped 133 bbl fresh water displacement Bump plug @ 4:00 AM 6/01/08 with 920 psi / 1.5 bbl water back - float held / circ. 163 sacks cement to pit Had returns through entire job WOC			
05/31/2008	Depth	460	Daily Cost:	\$286,069
DRLG	Progress	400	Cumulative Costs:	\$359,038
AFE: 258128	Present Operation:	Drilling		
DFS: 0	Rig up - Strap - Pickup BHA Drilling 17 1/2" hole from 60' to 240' / spud 9:00 Pm 5-30-2008 Motor 8 Deviation survey @ 200' / 1* Jars Drilling 17 1/2" hole from 240' to 442' DC's Deviation survey @ 400' / 1* Drilling 17 1/2" hole from 442' to 460'			
05/30/2008	Depth	60	Daily Cost:	\$72,969
DRLG	Progress	0	Cumulative Costs:	\$72,969
AFE: 258128	Present Operation:	Rig up		
DFS: 0	5/25/2008 Rig down 5/26/2008 Rig down - Wait on trucks - No Permits ( Holiday ) 5/27/2008 Move Rig - Rig up - Spud Meeting 5/28/2008 Rig up 5/29/2008 Rig up			