KANSAS CORPORATION COMMISSION (JUDING added)
OIL & GAS CONSERVATION DIVISION
WELL COMPANY

Form ACO-1 September 1999 Form Must Be Typed

## **WELL COMPLETION FORM**

**WELL HISTORY - DESCRIPTION OF WELL & LEASE** 

20100	ORIGINAL					
Operator: License #	API No. 15 - 023-21000-0000					
Name: Noble Energy, Inc.	County: Cheyenne					
Address: 1625 Broadway, suite 2200	SW -NE - SW Sec. 6 Twp. 4 S. R. 41 East West					
City/State/Zip: Denver, CO 80202	2200' feet from S N (circle one) Line of Section					
Purchaser: Kinder Morgan	2050' feet from E (W)(circle one) Line of Section					
Operator Contact Person: Jennifer Barnett	Footages Calculated from Nearest Outside Section Corner:					
Phone: ( <u>303</u> ) <u>228-4235</u>	(circle one) NE SE NW (SW)					
Contractor: Name: Excell Services Inc., Wray, CO	Lease Name: Zweygardt Well #: 23-6 Field Name: Cherry Creek Niobrara Gas Area					
License: 8273						
Wellsite Geologist: none	Producing Formation: Niobrara					
Designate Type of Completion:	Elevation: Ground: 3602' Kelly Bushing: 3611'					
New Well Re-Entry Workover	Total Depth: 1687' Plug Back Total Depth: 1623'					
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 235', cmt w/80 sx Feet					
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No					
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet					
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from					
Operator:	feet depth tow/sx.cmt.					
Well Name:	Feet depth to					
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)					
Deepening Re-perf Conv. to Enhr./SWD						
Plug Back Plug Back Total Depth	Chloride content ppm Fluid volume bbls					
Commingled Docket No	Dewatering method used					
Dual Completion Docket No	Location of fluid disposal if hauled offsite:					
Other (SWD or Enhr.?) Docket No	Operator Name:					
Onlet (OVID of Elimit:)	Lease Name: License No.:					
3/21/2008         3/22/2008         4/10/2008           Spud Date or         Date Reached TD         Completion Date or	Quarter Sec TwpS. R					
Recompletion Date Recompletion Date	County: Docket No.:					
Kansas 67202, within 120 days of the spud date, recompletion, workown Information of side two of this form will be held confidential for a period of 1 107 for confidentiality in excess of 12 months). One copy of all wireline logs TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-130 and geologist well report shall be attached with this form. ALL CEMENTING S. Submit CP-111 form with all temporarily abandoned wells.					
All requirements of the statutes, rules and regulations promulgated to regulate herein are complete and correct to the best of my knowledge.						
Signature: KMWL Famett g	KCC Office Use ONLY					
Pagulaten Anglus	BURLIC: 8					
	Letter of Confidentiality Received					
Subscribed and sworn to before me this day of	If Denied, Yes Date:					
20 Day March Xay	Geologist Report Received KANSAS CORPORATION COMMIS					
Madamir Bulblish   W/WW A   / WA						
Notary Public: My Commission Expires 09/11/20	UIC Distribution					

STRUCTIONS: Show insportant tops and base of formations penetrated. Detail all cores are Report all final copies of drill stems tests giving interval additions of the control of the co	Operator Name: Nob	ele Energy, Inc.			Lease Name:	Zweygardt		- Well #: 23-	6		
seled, time fool open and closed, flowing and shurt-in pressures, whether shurt-in pressure resched static level, hydrostatic pressures, bottom hole migrature, fluid recovery, and flow rates if gas to surdice test, along with final chart(s). Attach extra sheel if more space is needed. Attach copy of a fleetric Wireline Logs surveyed. Attach final geological well site report.  rill Stem Tests Taken			East W	est (	County: Chey	enne					
And Additional Shaels)  amplies Sent to Geological Survey	ested, time tool oper emperature, fluid red	n and closed, flowin covery, and flow rate	g and shut-in pres s if gas to surface	sures, whet test, along	ther shut-in pr with final cha	ressure reached	static level, hydro	static pressu	res, bottom	hole	
amples Sent to Geological Survey				] No		Log Format	Formation (Top), Depth and Datum			Sample	
ores Taken	Samples Sent to Geological Survey		No				•		itum		
Stability Copy)  st All E. Logs Run:    CASING RECORD   New   Used			No		,,,,,,						
Triple Combo (Array Induction/Comp. Nuetron/ .itho Density), CBL/GR/CCL  CASING RECORD  New  Used  Report all strings set-conductor, surface, Intermediate, production, etc.  Purpose of String  Size Hole  Size Casing  Weight  Setting  Type of  Psacks  Type and Percent Additives  Surface  9 7/8"  7"  17 Lbs./Ft  235"  50/50 POZ  80 sx  3s Cacl. 25% Floor  Production  6 1/4"  4 1/2"  10.5 Lbs./Ft  1686"  Lead, Type III  39 sx  17 sept. 25 cm. 25 sept.  ADDITIONAL CEMENTING / SQUEEZE RECORD  Purpose:	Electric Log Run (Submit Copy)		✓ Yes	No							
CASING RECORD Power Used Report all strings set-conductor, surface, intermediate, production, etc.  Purpose of String Direction Size Additives Set (in O.D.) Weight Debt Power Used Used Additives  Surface 9 7/8° 7° 17 Lbs./Ft. 235° 50/50 POZ 80 sx 39 Cacin. 259 Find Additives  Surface 9 7/8° 417 Lbs./Ft. 1666° Lead, Type III 39 sx 159 Endough Production 6 1/4° 4 1/2° 10.5 Lbs./Ft. 1666° Lead, Type III 39 sx 159 Endough Production 6 1/4° 4 1/2° 10.5 Lbs./Ft. 1666° Lead, Type III 39 sx 159 Endough Production 6 1/4° 4 1/2° 10.5 Lbs./Ft. 1666° Lead, Type III 39 sx 159 Endough III 39 En	ist All E. Logs Run:						•				
Purpose of String   Size Hole   Size Casing   Weight   Cement   Used   Type of Cement   Used   Type and Percent   Additives	•	` •	L c	ASING REC							
Surface 9 7/8" 7" 17 Lbs./Ft. 235' 50/50 POZ 80 sx 3% CaCl. 25% Fb-oz  Production 6 1/4" 4 1/2" 10.5 Lbs./Ft. 1666' Lead, Type III 39 sx 12% pol; 2% CaCl. 25% Fb-oz  ADDITIONAL CEMENTING / SQUEEZE RECORD  Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone  Shots Per Foot  PerfOrate Specify Footage of Each Interval Perforated (36', 3spf, 108 holes) .41" EHD, 120 degree phase 25% CO2 foamed gel pad; 31,988 gals 25% CO2 foamed  TUBING RECORD  Size 2-3/8" 1,500' Producing Method  Gas Mor Mater Bible. Gas-Oil Ratio Gravity Production of Gas  METHOD OF COMPLETION  Perduction 6 1/4" 235' 50/50 POZ 80 sx 3% CaCl. 25% Fb-oz  8% CaCl. 25% Fb-oz  8% CaCl. 25% Fb-oz  8% CaCl. 25% Fb-oz  1% Cach. 25% Fb-oz  1% Cach. 25% Fb-oz  1% G66' Lead, Type III 39 sx 12% cach. 25% Polyne  Flog Bottom  Type and Percent Additives  Type and Percent Additives  Perduction systems of the cache of								# Co.stva	T	d Danaant	
Production  6 1/4" 4 1/2" 10.5 Lbs./Ft. 1666' Lead, Type III 39 sx 12% gal. 2% Coct. 25 Polyto  Tail, Type III 56 sx 2% Gel. 1% CFL-t  ADDITIONAL CEMENTING / SQUEEZE RECORD  Purpose: Perforate Protect Casing Plug Back TD Plug Oif Zone  PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated  Additives  Perf Niobrara interval from 1446'-1482' Niobrara frac'd with 500 gals 7.5% HCL ecid, 12,000 gals of (36', 3spf, 108 holes). 41" EHD, 120 degree phase  25% CO2 fearmed gel pad; 31,988 gals 25% CO2 fearmed gel carrying 100,160 lbs 60/30 sand. ATP-503 psi; ATR-13.5 bpm.  TUBING RECORD  Size 2-3/8" 1,500' Producing Method  Gas Mcr Water Bbis. Gas-Oil Ratio Gravity Production Fer 24 Hours  O 18bls. Gas Mcr Water Bbis. Gas-Oil Ratio Gravity Open Hole Perf. Dually Comp.   Commingled	Purpose of String									Type and Percent Additives	
ADDITIONAL CEMENTING / SQUEEZE RECORD  Purpose: Perforate Protect Casing Prug Back TD Plug Off Zone  Perforation RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated (Amount and Kind of Material Used)  (36', 3spf. 108 holes) .41" EHD, 120 degree phase  Packer At (36', 3spf. 108 holes) .41" EHD, 120 degree phase  TUBING RECORD  Size Set At 2% Gel. 1% CFL-6  RSacks Used Type and Percent Additives  Type and Percent Additives  Perforation Record (Amount and Kind of Material Used) Depth  Depth  October Foot  Depth Dep	Surface	9 7/8"	7"	17	Lbs./Ft.	235'	50/50 POZ	80 sx	3% CaCl25% Flo-cele		
ADDITIONAL CEMENTING / SQUEEZE RECORD  Purpose:	Production	6 1/4"	4 1/2"		5 Lbs./Ft.	1666'	Lead, Type III	39 sx	12% gel, 2% CaCl, .25 Polyflat		
Purpose: Perforate Protect Casing Protect Casing Plug Back TD Plug Off Zone  PERFORATION RECORD - Bridge Plugs Set/Type Shots Per Foot Specify Footage of Each Interval Perforated  Ispf Perf Niobrara interval from 1446'-1482' Niobrara fracd with 500 gals 7.5% HCL acid, 12,000 gals of (36', 3spf, 108 holes) .41" EHD, 120 degree phase    Carrying 100,160 lbs 60/30 sand. ATP-503 psi, ATR-13.5 bpm.					·		Tail, Type III	56 sx	2% Gel, 1	1% CFL-8	
Top Bottom			ADDI	TIONAL CEN	MENTING / SC	UEEZE RECOR	D	<del></del>	<del> </del>	<u>-</u>	
Shots Per Foot Specify Footage of Each Interval Perforated  Specify Footage of Each Interval Perforated  (Amount and Kind of Material Used) Depth  (36', 3spf, 108 holes) .41" EHD, 120 degree phase  (36', 3spf, 108 holes) .41" EHD, 120 degree phase  25% CO2 foamed gel pad; 31,988 gels 25% CO2 foamed  gel carrying 100,160 lbs 60/30 sand. ATP-503 psi; ATR-13.5 bpm.  TUBING RECORD Size 2-3/8" 1,500', n/a  Producting Method  2-3/8" 1,500', Producting Method  2-3/8" Production Method Production Per 24 Hours  Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratto Gravity Obsposition of Gas METHOD OF COMPLETION Production Interval  Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled	Perforate Protect Casing Plug Back TD		Type of Ceme	ent #	#Sacks Used		Type and Po	ercent Additive	s		
Shots Per Foot Specify Footage of Each Interval Perforated  Specify Footage of Each Interval Perforated  (Amount and Kind of Material Used) Depth  (36', 3spf, 108 holes) .41" EHD, 120 degree phase  (36', 3spf, 108 holes) .41" EHD, 120 degree phase  25% CO2 foamed gel pad; 31,988 gels 25% CO2 foamed  gel carrying 100,160 lbs 60/30 sand. ATP-503 psi; ATR-13.5 bpm.  TUBING RECORD Size 2-3/8" 1,500', n/a  Producting Method  2-3/8" 1,500', Producting Method  2-3/8" Production Method Production Per 24 Hours  Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratto Gravity Obsposition of Gas METHOD OF COMPLETION Production Interval  Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled		DEBEORAT	ION RECORD Rel	dae Divae Se	at/Turno	Acid Fr	acture Shot Cement	Sauseze Becc	ard		
(36', 3spf, 108 holes) .41" EHD, 120 degree phase  25% CO2 foamed gel pad; 31,988 gals 25% CO2 foamed  gel carrying 100,160 lbs 60/30 sand. ATP-503 psi; ATR-13.5 bpm.  TUBING RECORD Size 2-3/8" 1,500' N/a  Packer At Liner Run Yes No  Date of First, Resumerd Production, SWD or Enhr. 4/21/2008  Estimated Production Per 24 Hours  O Blbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Production Interval  Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled	Shots Per Foot										
gel carrying 100,160 lbs 60/30 sand. ATP-503 psi; ATR-13.5 bpm.  TUBING RECORD Size 2-3/8" 1,500' n/a  Date of First, Resumerd Production, SWD or Enhr. 4/21/2008  Estimated Production Per 24 Hours 0 121 0 0 Disposition of Gas METHOD OF COMPLETION Perf. Dually Comp. Commingled	3 spf	Perf Niobrara inter	82'		Niobrara frac'd with 500 gals 7.5% HCL acid, 12,000 gals of						
TUBING RECORD  Size 2-3/8"  1,500'  n/a  Date of First, Resumerd Production, SWD or Enhr.  4/21/2008  Estimated Production Per 24 Hours  O  Disposition of Gas  METHOD OF COMPLETION  Packer At Pack	(36', 3spf, 108 holes) .41" EHD, 120 degree phase					25% CO2 foamed gel pad; 31,988 gals 25% CO2 foamed					
TUBING RECORD  Size 2-3/8"  1,500'  N/a  Packer At Liner Run Yes No  Date of First, Resumerd Production, SWD or Enhr.  4/21/2008  Estimated Production Per 24 Hours  O  Disposition of Gas  METHOD OF COMPLETION  Packer At Liner Run Yes No  Producing Method  Flowing Pumping Gas Lift Other (Explain)  Gravity O  Production Interval  Production Interval  Open Hole Perf. Dually Comp. Commingled						gel carrying 100,160 lbs 60/30 sand. ATP-503 psi; ATR-13.5 bpm.					
2-3/8" 1,500' n/a				· err	;).						
2-3/8" 1,500' n/a				13 4 5 K 5							
4/21/2008  Estimated Production Per 24 Hours  Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity  121 0 0  Disposition of Gas METHOD OF COMPLETION  Per 24 Hours  Open Hole Perf. Dually Comp. Commingled	TUBING RECORD			•		)	Yes No				
Per 24 Hours  0 121 0 0  Disposition of Gas METHOD OF COMPLETION Production Interval  Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled		rd Production, SWD or		cing Method	- —	ng Pump	ing Gas Lift	: Ott	ner (Explain)		
Disposition of Gas METHOD OF COMPLETION Production Interval  Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled	Estimated Production Per 24 Hours	Oil			1 '	iter	Bbls. G			Gravity	
Vented ✓ Sold ☐ Used on Lease ☐ Open Hole ✓ Perf. ☐ Dually Comp. ☐ Commingled	Disposition of Gas	<u> </u>									
	Vented ✓ Sold	Used on Lease	<u></u> Оре	_	Perf.	Dually Comp.	Commingled				