



KANSAS CORPORATION COMMISSION 1069763
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33190
Name: Noble Energy, Inc.
Address 1: 1625 Broadway, Ste 2200
Address 2: _____
City: DENVER State: CO Zip: 80202 + _____
Contact Person: Liz Lindow
Phone: (303) 228-4342
CONTRACTOR: License # 8273
Name: Excell Services, LLC
Wellsite Geologist: NA
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well info as follows:
Operator: Noble Energy, Inc.
Well Name: Billinger 21-1
Original Comp. Date: 10/3/2008 Original Total Depth: 1530
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
10/04/2010 10/4/2010
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-181-20545-00-01
Spot Description: _____
SW SE NE NW Sec. 1 Twp. 6 S. R. 40 East West
1150 Feet from North / South Line of Section
2100 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Sherman
Lease Name: Billinger Well #: 21-1
Field Name: _____
Producing Formation: Niobrara
Elevation: Ground: 3593 Kelly Bushing: 3599
Total Depth: 1530 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 385 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)
Chloride content: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Gerrits Date: 01/18/2012



1069763

Operator Name: Noble Energy, Inc. Lease Name: Billinger Well #: 21-1
 Sec. 1 Twp. 6 S. R. 40 East West County: Sherman

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Niobrara	1324	
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Submitted Electronically (If no, Submit Copy)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
List All E. Logs Run:				
CBL				

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	9.875	7	20	385	50/50 POZ	158	3% CaCl ₂ , .25% Flo-cale
Production	6.25	4.5	11.6	1500	Type III	86	12% gel, 2% Cacl, 25% Polyflake

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ Plug Off Zone				

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
3	1323-1353 perf intervals	500 gal 7.5% HCL acid; 114 bbls MAV -100 gelled wtr pad;	
	(30' 90 holes) .410 EH 120 Deg.	256.5 bbls MAV-100 gelled water w/50,060# 16/30 Daniels sand	
		& 50,120# 12/20 Daniels Sand. Flush w/8.2 bbls MAV-100	
		gelled water.	

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>1385</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>6/3/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>0</u>	Gas Mcf <u>68</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio Gravty

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>1323-1353</u>
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KL : 6 Ft

Casing: 7 inch

Well Name: Billinger 21-1

Location: Sec 1, 6S, 40W, Sherman Co. K

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	Wt/ Grade	Description
	0.00	0.00			20	
1	38.58	38.58	-384.55	-345.97		Centralizer
2	39.17	77.75	-345.97	-306.80		
3	39.14	116.89	-306.80	-267.66		
4	44.53	161.42	-267.66	-223.13		
5	39.12	200.54	-223.13	-184.01		
6	44.54	245.08	-184.01	-139.47		
7	44.50	289.58	-139.47	-94.97		
8	44.49	334.07	-94.97	-50.48		
9	44.48	378.55	-50.48	-6.00		
10					# Jts Ran 9	
11					Meas. 378.55	
12					Set @ 384.55	
13					Aprox TD @ 390	
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31						
TOTAL		378.55				



KB: 6 Ft

Casing: 4.50 inch

Well Name: Billinger 21-1	Location: Sec 1, 6S, 40W, Sherman Co. K
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Joint No.	Joint Length,	Total Footage,	Depth KB, Ft	Depth KB, Ft	W/ Grade	Description
	Ft	Ft	(base of jt)	(top of jt)		
1	0.92	0.92	-1499.52	-1498.60		AFU Shoe w/ float
2	44.36	45.28	-1498.60	-1454.24	11.6# J55	Latch
3	44.65	89.93	-1454.24	-1409.59		
4	44.56	134.49	-1409.59	-1365.03		Centralizer
5	45.01	179.50	-1365.03	-1320.02		Centralizer
6	44.61	224.11	-1320.02	-1275.41		Centralizer
7	39.33	263.44	-1275.41	-1236.08		Centralizer
8	44.98	308.42	-1236.08	-1191.10		Centralizer
9	43.27	351.69	-1191.10	-1147.83		Centralizer
10	44.97	396.66	-1147.83	-1102.86		Centralizer
11	45.17	441.83	-1102.86	-1057.69		Centralizer
12	44.83	486.66	-1057.69	-1012.86		
13	44.11	530.77	-1012.86	-968.75		
14	43.04	573.81	-968.75	-925.71		
15	44.52	618.33	-925.71	-881.19		
16	44.69	663.02	-881.19	-836.50		
17	44.39	707.41	-836.50	-792.11		
18	44.87	752.28	-792.11	-747.24		
19	44.55	796.83	-747.24	-702.69		
20	44.01	840.84	-702.69	-658.68		
21	45.03	885.87	-658.68	-613.65		
22	43.23	929.10	-613.65	-570.42		
23	45.01	974.11	-570.42	-525.41		
24	44.54	1018.65	-525.41	-480.87		
25	44.62	1063.27	-480.87	-436.25		
26	43.26	1106.53	-436.25	-392.99		
27	43.91	1150.44	-392.99	-349.08		
28	40.72	1191.16	-349.08	-308.36		
29	36.42	1227.58	-308.36	-271.94		
30	44.69	1272.27	-271.94	-227.25		
31	44.57	1316.84	-227.25	-182.68		
32	44.92	1361.76	-182.68	-137.78		
33	45.08	1406.84	-137.78	-92.68		
34	42.12	1448.96	-92.68	-50.56		
35	44.58	1493.52	-50.56	-6.00		
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TOTAL		1493.52				

Jts Ran= 34
 Meas w/shoe 1493.52
 Set @ 1499.52
 PBTD @ 1454.24
 DISPLACE= 22.54