

Amended

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

ORIGINAL

OPERATOR: License # 33190
Name: Noble Energy Inc
Address 1: 1625 Broadway
Address 2: Suite 2200
City: Denver State: CO Zip: 80202
Contact Person: Cheryl Johnson
Phone: (303) 228-4437

CONTRACTOR: License # 8273
Name: Excell Services Inc, LLC
Wellsite Geologist: NA
Purchaser:

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SIOW
 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:

Well Name:

Original Comp. Date: Original Total Depth:
 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 #:

8/8/2008 8/11/2011 8/26/2011
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 023-20993-00-00

Spot Description:
SW SE SW NW Sec. 21 Twp. 4 S. R. 41 East West
2,420 Feet from North / South Line of Section
860 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Cheyenne

Lease Name: Douthit Well #: 12-21

Field Name: Cherry Creek Niobrara Gas Area

Producing Formation: Niobrara

Elevation: Ground: 3443 Kelly Bushing: 3452

Total Depth: 1482 Plug Back Total Depth: 1427

Amount of Surface Pipe Set and Cemented at: 121 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 #:

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.

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.

Signature: Cheryl Johnson

Title: Regulatory Analyst Date: 2-1-2012

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: Dlg Date: 2/7/12

Operator Name: Noble Energy Inc Lease Name: Douthit Well #: 12-21
 Sec. 21 Twp. 4 S. R. 41 East West County: Cheyenne

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If no, Submit Copy) List All E. Logs Run: CBL/CCL/GR	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Niobrara 1253
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CASING RECORD <input checked="" 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	17	121.1	50/50 POZ	43	3% CaCl 2% gel
Production	6.25	4.50	10.5	1468.5	50/50 POZ	90	12% gel 2% CaCl

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				

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	Perf Intervals 1253 - 1292 (39' 117 holes) .410 EH 120 deg	Frac'd w/500 gals 7.5% HCl acid; 114 bbls w/500# -100 gelled water pad; 256 bbls gelled water w/50,020# 16/30 Daniels Sand & 50,180# 12/20 Daniels Sand; 8 bbls gelled water flush.

TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>1305</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>9/22/2011</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>48</u>	Water Bbls. <u>0</u>
Gas-Oil Ratio		Gravity	

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>1253-1292</u>
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K. L. J. L.: 9 Ft

Casing: 7 inch

Well Name: Douthit 12-21 | Location: Sec 21 4S 41W Cheyenne co Ks

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			17# NLS	
1	20.70	20.70	-121.10	-100.40		Centralizer
2	22.20	42.90	-100.40	-78.20		
3	23.60	66.50	-78.20	-54.60		
4	23.60	90.10	-54.60	-31.00		
5	22.00	112.10	-31.00	-9.00		
6						
7						
8						
9						
10					Ran 5 jts	Meas: 112.10
11						set @ 121.10
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TOTAL	112.10					

RECEIVED
FEB 06 2012
KCC WICHITA

Well Name: Douthit 12-21 Location: Sec 21 4S 41W Cheyenne co Ks

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	WV Grade	Description
	0.50	0.50	-1468.52	-1468.02		AFU shoe w/ float
1	41.71	42.21	-1468.02	-1426.31	10.5# J55	Latch
2	41.78	83.99	-1426.31	-1384.53		
3	43.15	127.14	-1384.53	-1341.38		Centralizer
4	42.57	169.71	-1341.38	-1298.81		Centralizer
5	41.03	210.74	-1298.81	-1257.78		Centralizer
6	28.23	238.97	-1257.78	-1229.55		Centralizer
7	41.75	280.72	-1229.55	-1187.80		Centralizer
8	41.72	322.44	-1187.80	-1146.08		Centralizer
9	41.65	364.09	-1146.08	-1104.43		Centralizer
10	42.42	406.51	-1104.43	-1062.01		Centralizer
11	41.95	448.46	-1062.01	-1020.06		
12	41.82	490.28	-1020.06	-978.24		
13	41.81	532.09	-978.24	-936.43		
14	41.83	573.92	-936.43	-894.60		
15	41.67	615.59	-894.60	-852.93		
16	41.74	657.33	-852.93	-811.19		
17	41.88	699.21	-811.19	-769.31		
18	41.67	740.88	-769.31	-727.64		
19	41.95	782.83	-727.64	-685.69		
20	41.83	824.66	-685.69	-643.86		
21	41.78	866.44	-643.86	-602.08		
22	41.75	908.19	-602.08	-560.33		
23	42.61	950.80	-560.33	-517.72		
24	41.72	992.52	-517.72	-476.00		
25	42.68	1035.20	-476.00	-433.32		
26	42.44	1077.64	-433.32	-390.88		
27	42.61	1120.25	-390.88	-348.27		
28	41.58	1161.83	-348.27	-306.69		
29	44.66	1206.51	-306.69	-262.01		
30	41.95	1248.46	-262.01	-220.06		
31	42.66	1291.04	-220.06	-177.48		
32	42.61	1333.65	-177.48	-134.87		
33	42.58	1376.23	-134.87	-92.29		
34	41.46	1417.69	-92.29	-50.83		
35	41.83	1459.52	-50.83	-9.00		
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TOTAL		1459.52				

Ran 35 jts meas: 1459.52
 set@ 1468.52
 PBTD 1426.81

RECEIVED
 FEB 06 2012
 KCC WICHITA