



KANSAS CORPORATION COMMISSION 1072799
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: Cheryl Johnson
Phone: (303) 228-4437
CONTRACTOR: License # 8273
Name: Excell Services, 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 #:
12/30/2011 12/31/2011 12/31/2011
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-023-21335-00-00
Spot Description:
SE NW NW SW Sec. 20 Twp. 5 S. R. 40 East West
2100 Feet from North / South Line of Section
500 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Cheyenne
Lease Name: Pancake Trust Well #: 13-20
Field Name:
Producing Formation: Niobrara
Elevation: Ground: 3686 Kelly Bushing: 3692
Total Depth: 1633 Plug Back Total Depth: 1567
Amount of Surface Pipe Set and Cemented at: 387 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: 01/27/2012



1072799

Operator Name: Noble Energy, Inc. Lease Name: Pancake Trust Well #: 13-20
 Sec. 20 Twp. 5 S. R. 40 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 <i>(Attach Additional Sheets)</i> 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Triple Combo	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Niobrara 1438
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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	387	50/50 POZ	190	3% CaCl 2% gel
Production	6.25	4.5	11.6	1609.2	50/50 POZ	136	12% gel 2% CaCl

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs. Gas-Oil Ratio Gravity

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

Bison Oil Well Cementing Inc.
 1738 Wynkoop St.
 Suite 102
 Denver, CO 80202
 303-296-3010

Invoice

Date	Invoice #
12/30/2011	10803

Bill To
Excell Services, LLC 86629 US HIGHWAY 385 Wray, CO 80758

Location	Well Name & No.	Terms	Job Type			
Cherokee KS	Pinnacle Trust 13-20	Net 30	Surface			
Item	Description	Qty	U/M	Rate	Amount	
Pump surface	PUMP Charge-surface pipe	9		1,400.00	1,260.00	
MILEAGE	Milage charge / 2 truck x 6000	120		4.00	480.00	
MILEAGE	Milage charge/pick up	65		1.50	127.50	
Data Acquisition	Data Acquisition Charge	1		225.00	225.00	
	Subtotal of Services				2,992.50	
B3 Lib. Sample	50/50 Poz (32)	190	Sack	16.50	3,135.00	
Discount 10%	Discount 10%			-10.00%	-313.50	
Wood Plug	Wood Plug	1		79.95	79.95	
	Subtotal of Materials				2,901.45	
Please Remit Payment To:					Subtotal	\$5,133.95
Bison Oil Well Cementing, Inc. P.O. Box 28671 Thornton, CO 80229					Sales Tax (8.3%)	\$240.82
Billing Category # 1015 Unit # or Rlg # R2 AFE # Addl. Info for Desc Surf CMT Pinnacle Trust 13-20					Total	\$5,374.77
					Balance Due	\$5,374.77

x 11090

\$ 5,912.25

RECEIVED Approved By [Signature]

JAN 04 2012

01-03-12:17:04 :Bison

13032988143

:9708480567

14 / 24

BISON OIL WELL CEMENTING, INC.

1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-296-8143
E-mail: bisonoil@qwestoffice.net



REF. INVOICE # 10805

LOCATION Wharles

FOREMAN Travis

TREATMENT REPORT

DATE <u>12-30-11</u>	WELL NAME <u>Pancake Truss 13-20</u>	SECTION <u>20</u>	TWP <u>55</u>	RGE <u>40W</u>	COUNTY <u>Cherokee</u>	FORMATION
CHARGE TO <u>Excell</u>		OWNER <u>Noble</u>				
MAILING ADDRESS		OPERATOR				
CITY		CONTRACTOR <u>Excell 2102</u>				
STATE ZIP CODE		DISTANCE TO LOCATION <u>8.5 miles</u>				
TIME ARRIVED ON LOCATION <u>12:30 pm</u>		TIME LEFT LOCATION <u>2:30 pm</u>		PRESSURE LIMITATIONS		

WELL DATA			THEORETICAL		INSTRUCTED
HOLE SIZE <u>9 7/8</u>	TUBING SIZE	PERFORATIONS	SURFACE PIPE ANNUALIS LONG		
TOTAL DEPTH <u>392</u>	TUBING DEPTH	SHOTS/FT	STRING		
<u>PBTD 344</u>	TUBING WEIGHT	OPEN HOLE	TUBING		
CASING SIZE <u>7"</u>	TUBING CONDITION	TREATMENT VIA	TYPE OF TREATMENT		
CASING DEPTH <u>387</u>	PRICKER DEPTH		TREATMENT RATE		
CASING WEIGHT <u>17 lb</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> GEL CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	ANNUALIS BPM	
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
			<input type="checkbox"/> GEL PUMP		
			<input type="checkbox"/> OTHER		

PRESSURE SUMMARY			HYD NAP = RATE X PRESSURE X WLL	
BREAKDOWN or CIRCULATING psi	AVERAGE psi			
FINAL DISPLACEMENT bbl	15IP psi			
ANNUALIS psi	0 MIN SP psi			
MAXIMUM psi	15 MAX SP psi			
ANNUALIS psi				

INSTRUCTIONS PRIOR TO JOB MTRO safety circ m+p 190sk 83-1.1e 15.2 bbl/d 1.07 yd
42 gal/sk 19 bbl mix water, drop plug and displace 14.3 bbls set plug
shut well in clean up move off location

JOB SUMMARY		DESCRIPTION OF JOB EVENT	
<u>MTRO safety</u>	<u>CIRC m+p</u>	<u>drop plug</u>	<u>displace</u>
<u>1 pm</u>	<u>120 pm</u>	<u>128 pm</u>	<u>143 pm</u>
			<u>154 pm</u>
			<u>158 pm</u>
			<u>10 200 psi</u>
			<u>2 pm 14.3 1200 psi</u>

2 bbl to the pit

[Signature] AUTHORIZATION TO PROCEED

Pash TITLE

12/30/11 DATE



BISON

Bison Oil Well Cementing Inc.
 1738 Wynkoop St.
 Suite 102
 Denver, CO 80202
 303-296-3010

Invoice

PC
PV

Date	Invoice #
12/31/2011	108M

Bill To
Excell Services, LLC 36629 US HIGHWAY 385 Wray, CO 80758

Location	Well Name & No.	Terms	Job Type
Cheyenne KS	Pancake Trust 13-20	NET30	Production

Item	Description	Qty	U/M	Rate	Amount
Pump Charge	Pump Charge - Production Pipe	1		2,000.00	2,000.00
MILEAGE	Mileage charge 2 truck x 60 mi	120		4.00	480.00
MILEAGE	Mileage charge/pick up	85		1.50	127.50
Data Acquisition	Data Acquisition Charge	1		225.00	225.00
Subtotal of Services					2,832.50
N-Gal-12	Leak 12lb	80	Sack	16.50	1,320.00
Discount 10%	Discount 10%			-10.00%	-132.00
BG-Lite	Tail 13.5 lb/gal 50/50 Pox	56	Sack	16.50	924.00
Discount 10%	Discount 10%			-10.00%	-92.40
Flot shoe w/lg	Flot shoe with large ball 4-1/2	1		321.85	321.85
LD Plug 4-1/2"	LD Plug & Baffle 4-1/2"	1		229.60	229.60
Dye - 4880	Dye (Red/Pink 4880)	2	oz	14.00	28.00
KCL	KCL Displacement	5		25.00	125.00
Mud Flush (big)	Mud Flush	2	lb	125.00	250.00
Subtotal of Materials					2,974.05
					5,806.55

Please Remit Payment To:	Subtotal	\$5,806.55
Bison Oil Well Cementing, Inc. P.O. Box 29671 Thornton, CO 80229	Sales Tax (8.3%)	\$246.84
	Total	\$6,053.39
	Balance Due	\$6,053.39

Billing Category # 1015
 Unit # or Rig # R2
 AFE # _____
 Addl. Info for Desc. LSM, Pancake Trust 13-20

x 110%

RECEIVED

Approved By [Signature]

\$6,658.73

JAN 04 2012

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-298-3010
 Fax: 303-298-8143
 E-mail: bisonoil@qwestflco.net

REF. INVOICE # 10904
 LOCATION Wheeler
 FOREMAN Tewis

TREATMENT REPORT

DATE <u>12-31-11</u>	WELL NAME <u>Panake Tract 13-20</u>	SECTION <u>20</u>	TWP <u>5S</u>	RGE <u>40W</u>	CREW <u>Chapone</u>	FORMATION
CHARGE TO <u>Excell</u>		OWNER <u>Noble</u>				
MAILING ADDRESS		OPERATOR				
CITY		CONTRACTOR <u>Excell rig 2</u>				
STATE OF CODE		DISTANCE TO LOCATION <u>8.5 miles</u>				
TIME ARRIVED ON LOCATION <u>10:30 pm</u>		TIME LEFT LOCATION <u>1:230</u>				

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<u>6 7/8</u>						
TOTAL DEPTH <u>1633</u>	TUBING DEPTH	SPOTS/FT	SURFACE PIPE ANNULUS LOSS			
PBTD <u>1567</u>	TUBING WEIGHT	OPEN HOLE	STRIKE			
CASING SIZE <u>4 1/2</u>	TUBING CONDITION		TONG			
CASING DEPTH <u>1609</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <u>11.6</u>	PACKER DEPTH		<input type="checkbox"/> SURFACE PIPE <input checked="" type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SHOOTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM I/O D. H.P. @ RATE & PRESSURE X-40.0	
CASING CONDITION <u>good</u>						

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	15P	psi
ANNULUS	psi	5 MIN SP.	psi
MAXIMUM	psi	15 MIN SP.	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB: MIRV safety circ pump 5 bbls of dye with 2% KCL 20 bbls of mud flush with 2% KCL MLP 92 sks of Nacl-12 17.0 2.21 yd 12.0 gal/sk 24 bbls of mix or until dye is seen MLP 56 sks of Bq-lite, 13.3 1.1 yd 1.33 yd 6.28 gal/sk 2 bbls mix water, drop plug displace 24.2 bbls with 2% KCL set plug shut well in clean up move on location.

JOB SUMMARY		DESCRIPTION OF JOB EVENTS	
MIRV safety circ	drop plug MLP	displace	
10:30 pm	11:58 am	12:02 pm	12:28 pm
			12:10 pm
			12:37 pm 10 200psi
			12:36 pm 20 400psi
			12:38 pm 24.2 1300psi

12 bbls to the pit

[Signature]
 AUTHORIZATION TO PROCEED

TITLE _____ DATE 12/31/11

This document is the property of the customer and is to be returned to the customer upon completion of the job.

KB 6 Ft
 Casing: 7 inch

Well Name: Pancake Trust 13-20 Location: Sec 20, 5S, 40W, Cheyenne Co.

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	Wt/Grade	Description
1	0.00	0.00	-387.06	-344.50	17#STC	Centralizer & Baffle Plate
2	42.56	42.56	-344.50	-302.12	17#STC	
3	42.38	84.94	-302.12	-259.67	17#STC	
4	42.45	127.39	-259.67	-217.73	17#STC	
5	41.94	169.33	-217.73	-174.49	17#STC	
6	43.24	212.57	-174.49	-132.63	17#STC	
7	41.86	254.43	-132.63	-90.68	17#STC	
8	41.95	296.38	-90.68	-48.43	17#STC	
9	42.25	338.63	-48.43	-6.00	17#STC	
10	42.43	381.06				
11						
12						
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28						
29						
30						
31						
TOTAL		381.06				

Jts Ran: 9
 Meas: 381.06
 Set @: 387.06
 Aprox TD @: 392
 PBD @: 344.50
 Threads on: 382.84

Well Name: Pancake Trust 13-20 Location: Sec 20, 5S, 40W, Cheyenne Co, KS

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of J)	Depth KB, Ft (top of J)	WU Grade	Description
	0.92	0.92	-1808.19	-1808.27		AFU SHOE
1	41.13	42.05	-1808.27	-1567.14	11.6#J-55	Centralizer & Latch
2	40.68	82.73	-1567.14	-1326.46		Centralizer
3	43.25	125.98	-1326.46	-1483.21		Centralizer
4	43.42	169.40	-1483.21	-1439.79		Centralizer
5	41.71	211.11	-1439.79	-1398.08		Centralizer
6	43.24	254.35	-1398.08	-1354.84		Centralizer
7	33.45	287.80	-1354.84	-1321.39		Centralizer
8	41.08	328.88	-1321.39	-1280.31		Centralizer
9	41.29	370.17	-1280.31	-1239.02		
10	43.28	413.45	-1239.02	-1195.74		
11	43.23	456.68	-1195.74	-1152.51		
12	41.26	497.94	-1152.51	-1111.25		
13	41.74	539.68	-1111.25	-1069.51		
14	41.72	581.40	-1069.51	-1027.79		
15	33.64	615.04	-1027.79	-994.15		
16	43.34	658.38	-994.15	-950.81		
17	41.02	699.40	-950.81	-909.79		
18	42.91	742.31	-909.79	-868.88		
19	43.31	785.62	-868.88	-823.57		
20	43.63	829.25	-823.57	-779.94		
21	43.70	872.95	-779.94	-736.24		
22	41.02	913.97	-736.24	-695.22		
23	43.25	957.22	-695.22	-651.97		
24	42.15	999.37	-651.97	-609.82		
25	41.13	1040.50	-609.82	-568.69		
26	43.39	1083.83	-568.69	-525.36		
27	43.40	1127.23	-525.36	-481.98		
28	42.88	1170.11	-481.98	-439.08		
29	41.31	1211.42	-439.08	-397.77		
30	44.05	1255.47	-397.77	-353.72		
31	46.38	1301.83	-353.72	-307.38		
32	42.99	1344.82	-307.38	-264.37		
33	41.30	1386.12	-264.37	-223.07		
34	43.01	1429.13	-223.07	-180.08		
35	44.22	1473.35	-180.08	-135.84		
36	43.28	1516.61	-135.84	-92.58		
37	43.20	1559.81	-92.58	-49.38		
38	43.38	1603.19	-49.38	-6.00		
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81						
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83						
84						
85						
TOTAL		1603.19				

JTs Ran 38
 Meas w/shoe 1603.19
 Set @ 1608.19
 PBTD @ 1567.14
 Threads On 1610.58