



Date: 03/22/21 –03/25/21

Operator: Noble Energy Inc.

Well Name: Herbst 27-2

Legal Location: NWSE Sec. 27 5N 64W

API # 05-123-12651

Job Log

Weld County

03/22/21: move in, rig up, shut down.

03/23/21: check psi:1060/1250/0psi, pressure test pump lines and BOPs, RU flow back equipment to incinerate gas, controlled well with 180bbls of water, RD flow back equip, ND WH, NU BOPs, TOO, SWI.

03/24/21: check psi:0/0psi, RU WL to go in and set CIBP@6498' and to spot 2sks of CMT on plug, load well with 55bbls of water, pressure test plug to 500psi, held good, run in to shoot squeeze holes@2500', establish injection rate with 5bbls of water, shoot holes@2000' and set CICR@2400', RD WL, TIH with stinger to sting into retainer, RU CMT equip to condition well and to pump 190sks plug(2500'-2000'), RD CMT equip, TOO, RU WL to go in and cut CSG@503', circulate well with 50bbls of water, SWI.

03/25/21: check psi:0psi, load well with 3bbls of water, monitor well for bubbles, no bubbles, ND BOPs, RU CMT equip to pump 294sks of CMT from 503' up to surface, SWI, RD MO.

All cement is 15.8 # Class "G" neat cement

Cementing Contractor: SPN Well Services

Cementing Contractor Supervisor: Matt Bulinski

Operator Supervisor: Chris Hohnstein

State Representative: Abe Serna

Wireline Contractor: SPN Well Services – E - Line

DAILY WORK REPORT
 SPN WELL SERVICES, INC.
 P.O. BOX 329 • 13066 WCR 20
 FORT LUPTON, CO 80621

40.36843200
 -104.53351800



J00650827 Well Services

N96000051755
 NO. 66253
 66253

Date 03-25-2021

Customer Noble Energy State CO

Well / Lease HERBST 27-02 County weld ✓

Company Rep. Chris Hohnstein. Time 6:00 AM To 12:00 PM Area PNA Rig No. 725
START FINISH

DESCRIPTION

(6:00) RCTL, (6:30) HSM, start equip. inspect equip for ice Plug, check well Bsi, Opsi, Fullup well use 3Bbls. Look for bubbles, no bubbles. (7:30) Rig down w/floor, nipple down BOP, nipple up well Head, (8:00) HSM w/cementers, Rig up cementers. Pump 10 Bbls of mud flash + 5 Bbls of fresh water + 294 sxs of cut from down CSG @ 503 to surface, Rig down cementers (9:30) wash cut on well Head + cut Tank secure well (10:00) Rig down Rig, Drain Hardline Rig down Hardline + Pump + Tanks, clean location, (12:00) Rig move to next location.

water. start w/ 250 Bbls. finish w/ 140 Bbls.

TOOL BOX SAFETY MEETING

ATTENDEES OTHER THAN LISTED BELOW

TOPIC Scenario 1-A PEA Final

CHARGE RECORD



422130003
 Project/AFE No.

Task 247036
 Acct Code

CHRIS HOHNSTEIN
 Work Ordered By

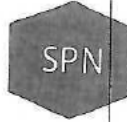
Mar 29, 2021
APPROVED

SIGNATURE

Chris Hohnstein

CHARGE RECORD			
	RIG	TRAVEL	TOTAL
OPERATOR <u>Luis Trujillo</u>	5.5	.5	6 ✓
DERRICKMAN <u>edgar Peña</u>	5.5	.5	6
FLOOR HAND <u>Hector H Guzman</u>	5.5	.5	6
FLOOR HAND <u>Mario Marquez.</u>	5.5	.5	6

40.36843200
 -104.53351800



J00650827

Well Services

N96000051698
 NO. 66252
 66252

Customer Noble Energy Date 03-24-2021
 Well / Lease HERBST 27-02 State CO
 Company Rep. Chris Hohnstein Time 6:00am to 5:00pm Area PNA County weld ✓
 START FINISH Rig No. 725

DESCRIPTION
 (6:00) RCTL, (6:30) HSM, warm up equip, start equip, inspect equip for ice plug, check well psi. 0 psi, unlock well, (8:00) HSM w/wl, Rig up wl, set a CIR @ 6498 + 2sxs of cmt on TOP, full up well, use 55 Bbls. Pressure test Plug and csg @ 500 psi, for 15 min. good Test, shoot Perf @ 2500'. inject circulation, use 5 Bbls, shoot Perf @ 2000'. set a CIR @ 2400'. Rig down wl, (11:00) TIH w/stinger + 39 stands + 1 Joint, sting in cirk, (12:00) HSM w/cementers, Rig up cementers, Pump 10 Bbls of Mud Flash + 5 Bbls of fresh water + 190 sxs of cmt from Perf @ 2500' to Perf @ 2000', sting out of cirk, TOC on csg and annulus @ 2000' Rig down cementers, (2:00) LD 79 Joints (3:00) Hs
TOOL BOX SAFETY MEETING w/wl, Rig up wl, ~~CU~~ + 4 1/2 csg @ 503' Rig down wl, (3:30) circula
 ATTENDEES OTHER THAN LISTED BELOW well clean use 50 Bbls. (4:00) secure well, Drain Pump + Hardline.
 TOPIC Secure Rig + Tanks, cover equip, clean Location. (4:30) Rig crew draw

CHARGE RECORD

725 Rig Time	Hrs. @	Per Hr.	\$
5062 Crew Travel x			\$
8311 Mud Pump x Tank			\$
40-6-9 Base Beam			\$
Power Swivel x			\$
Washington Head			\$
2994 Blow-out Preventer x			\$
Flanges x			\$
Tool Pusher			\$
8344 Mud Tank x			\$
Power Rod Tongs x			\$
Fuel	Gals. @	Per Gal	\$
✓ Pipe Dope @ \$		Per Trip	\$
Washington/Stripper Rubber	# @ \$		\$

CHARGE RECORD

water. start w/ 430 Bbls. Finish w/ 250 Bbls. Per Day 2 back to yard.

Fishing Tools x	\$
Light Plant x	\$
Swab Cups # @ \$	\$
Swab Cups # @ \$	\$
Oil Svr. Rbr. # @ \$	\$
TBG Wiper Rubber # @ \$	\$
Rod Wiper Rubber # @ \$	\$
Sub Pay (#) @ \$	\$
4th Hand	\$
5th Hand	\$
Other	\$
Other	\$
Other	\$
Sales Tax x %	\$

Total Charges

CHARGE RECORD

Type Well Head	Mud Anchor	No. & Size Rods
Packer Settings	Size Tubing	No. & Size Subs
Type Packer	Subs	Pump Description (out)
No. Jts. Tubing	Perf. Nppl.	(in)

SIGNATURE - CUSTOMER REPRESENTATIVE
 SIGNATURE - SUPERVISOR

	RIG	TRAVEL	TOTAL
OPERATOR Luis Trujillo	10	1	11
DERRICKMAN Edgar Peña	10	1	11
FLOOR HAND Hector Guzman	10	1	11
FLOOR HAND Maria Marquez	10	1	11



J00650827 Well Services

NO. 66251
06251

40.36843200
-104.53351800

Date 02-23-2021

Customer Noble Energy

State CO

Well / Lease HERBST 27-02

County weld

Company Rep. Chris Hohnstein Time 6:00am To 6:00pm Area PNA

Rig No. 725

DESCRIPTION

(6:00) RCTL, (6:30) HSM, start equip, check well Psi, Tubing 1660 Psi, csg 1250 Psi, surfaced, (7:00) Pressure test BoP + Hardline, nipple down well tree, (8:00) HSM w/ Burners, Rig up Burners, Burn Gas, (12:30) start Pumping to kill well, circulate well clean, use 180 Bbls, Rig down Burners. (2:00) nipple down well head, nipple up BoP, Rig up w/ Pressure test Ring on well, unland Tubing (3:00) TOH w/ 39 stands, LD 144 Joint (5:00) secure well, Drain Pump + Hardline, secure Rig + Tanks, cover equip, clean. Location. (5:30) Rig crew drove back to yard.

TOOL BOX SAFETY MEETING

water start w/ 470 Bbls. finish w/ 290 Bbls.

ATTENDEES OTHER THAN LISTED BELOW

TOPIC 4.5 oos Burning gas

P&A Day 1

CHARGE RECORD

<u>725</u> Rig Time _____ Hrs. @ _____ Per Hr. \$ _____	Fishing Tools x _____ \$ _____
<u>5082</u> Crew Travel x _____ \$ _____	Light Plant x _____ \$ _____
<u>8311</u> Mud Pump x Tank _____ \$ _____	Swab Cups # @ \$ _____ \$ _____
<u>406-9</u> Base Beam _____ \$ _____	Swab Cups # @ \$ _____ \$ _____
Power Swivel x _____ \$ _____	Oil Svr. Rbr. # @ \$ _____ \$ _____
Washington Head _____ \$ _____	TBG Wiper Rubber # @ \$ _____ \$ _____
Blow-out Preventer x _____ \$ _____	Rod Wiper Rubber # @ \$ _____ \$ _____
Flanges x _____ \$ _____	Sub Pay (# _____) @ \$ _____ \$ _____
Tool Pusher _____ \$ _____	4th Hand _____ \$ _____
<u>8344</u> Mud Tank x _____ \$ _____	5th Hand _____ \$ _____
Power Rod Tongs x _____ \$ _____	Other _____ \$ _____
Fuel _____ Gals. @ _____ Per Gal. \$ _____	Other _____ \$ _____
✓ Pipe Dope @ \$ _____ Per Trip _____ \$ _____	Other _____ \$ _____
Washington/Stripper Rubber # @ \$ _____ \$ _____	Sales Tax x _____ % _____ \$ _____
	Total Charges _____ \$ _____

CHARGE RECORD

Type Well Head _____	Mud Anchor _____	No. & Size Rods _____
Packer Settings _____	Size Tubing _____	No. & Size Subs _____
Type Packer _____	Subs _____	Pump Description (out) _____
No. Jts. Tubing _____	Perf. Nppl. _____	(in) _____

SIGNATURE - CUSTOMER REPRESENTATIVE

SIGNATURE - SUPERVISOR

	RIG	TRAVEL	TOTAL
OPERATOR <u>Luis Trujillo</u>	11	1	12
DERRICKMAN <u>Edgar Peña</u>	11	1	12
FLOOR HAND <u>Hector H Guzman</u>	11	1	12
FLOOR HAND <u>Mario Marquez</u>	11	1	12



Job 650827

Well Services

N96000051494
 NO. 66250
 66250

40.36843200
 -104.53351800

Date 03-22-2021
 Customer Noble Energy State CO
 Well / Lease HERBST 27-02 County weld
 Company Rep. Chris Hohnstein Time 2:00PM To 6:30PM Area PNA Rig No. 725
START FINISH

DESCRIPTION

(2:30) Location set up, spott Base Beam + Rig, Rig up Rig, check well Psi, Tubing 1060Ps
 csg 1250 Psi, surface 0 Psi. (3:30) wait on All The equip. (4:30) spott All equip, Rig up
 Hardline + Pump + Tanks, (5:30) secure well + Rig and Tanks, cover equipment, clean
 Location (6:00) Rig crew drove back To Yard.

TOOL BOX SAFETY MEETING

ATTENDEES OTHER THAN LISTED BELOW

TOPIC PEA

CHARGE RECORD

<u>725</u> Rig Time _____ Hrs. @ _____ Per Hr. \$	Fishing Tools x _____ \$
<u>5062</u> Crew Travel x _____ \$	Light Plant x _____ \$
<u>8311</u> Mud Pump x Tank _____ \$	Swab Cups _____ # @ \$ _____ \$
<u>40-8-9</u> Base Beam _____ \$	Swab Cups _____ # @ \$ _____ \$
Power Swivel x _____ \$	Oil Svr. Rbr. _____ # @ \$ _____ \$
Washington Head _____ \$	TBG Wiper Rubber _____ # @ \$ _____ \$
<u>2944</u> Blow-out Preventer x _____ \$	Rod Wiper Rubber _____ # @ \$ _____ \$
Flanges x _____ \$	Sub Pay (# _____) @ \$ _____ \$
Tool Pusher _____ \$	4th Hand _____ \$
<u>8344</u> Mud Tank x _____ \$	5th Hand _____ \$
Power Rod Tongs x _____ \$	Other _____ \$
Fuel _____ Gals. @ _____ Per Gal _____ \$	Other _____ \$
<u>✓</u> Pipe Dope @ \$ _____ Per Trip _____ \$	Other _____ \$
Washington/Stripper Rubber _____ # @ \$ _____ \$	Other _____ \$
	Sales Tax x _____ % _____ \$
	Total Charges _____ \$

CHARGE RECORD

Type Well Head _____ Mud Anchor _____ No. & Size Rods _____
 Packer Settings _____ Size Tubing _____ No. & Size Subs _____
 Type Packer _____ Subs _____ Pump Description (out) _____
 No. Jts. Tubing _____ Perf. Nppl. _____ (in) _____

SIGNATURE - CUSTOMER REPRESENTATIVE

SIGNATURE - SUPERVISOR

	RIG	TRAVEL	TOTAL
OPERATOR <u>Luis Trujillo</u>	4	.5	4.5
DERRICKMAN <u>Edgar Peña</u>	4	.5	4.5
FLOOR HAND <u>Hector H Guzman</u>	4	.5	4.5
FLOOR HAND <u>Marin Marañez</u>	4	.5	4.5

SPN CEMENT REPORT

OPERATOR: <i>Nedde</i>	DATE: <i>03-24-25-2021</i>	API# <i>05-123-12651</i>
LEASE NAME: <i>Keokuk 2702</i>	RIG # <i>SPN 725</i>	COUNTY: <i>Weld</i>

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
CEMENT DATE:	<i>3-24-21</i>	<i>3-25-21</i>			
SIZE OF HOLE OR PIPE IN WHICH PLUG PLACED:	<i>4 1/2" 9"</i>	<i>4 1/2" 9" 8 1/8"</i>			
DEPTH TO BOTTOM OF TUBING OR DRILL PIPE:	<i>2400"</i>	<i>503"</i>			
SACKS OF CEMENT USED (EACH PLUG):	<i>190</i>	<i>294</i>			
SLURRY VOLUME PUMPED:	<i>38.7</i>	<i>60.2</i>			
MEASURED TOP OF PLUG:	<i>2000"</i>	<i>Surface</i>			
SLURRY WT. #/GAL. :	<i>15.8</i>	<i>15.8</i>			
TYPE CEMENT:	<i>G/next</i>	<i>G/next</i>			
MUD FLUSH USED BBLs:	<i>10</i>	<i>10</i>			
CALCIUM CHLORIDE USED LBS:	<i>0</i>	<i>0</i>			
SUGAR USED LBS:	<i>50</i>	<i>50</i>			

Matt Belinski

 SIGNATURE OF CEMENTER OR AUTHORIZED REPRESENTATIVE

SPN

 NAME OF CEMENTING CO.



Well Services

TREATMENT REPORT

P.O. BOX 329
FORT LUPTON, CO 80621
303-654-9202

DATE 03-24-2021
FIELD TICKET # _____

WELL NAME & NO. <i>Helst 2702</i>		LOC. <i>SPN 725</i>	SERIAL # <i>05-123-12651</i>	LIFT PRESSURE & POP OFF LIFT: _____ POP OFF: <i>1500</i>
PUMP: <i>2905</i>	BULK: <i>2250</i>	JOB PUMPED THRU:	TUBING CASING ANNULUS	WATER PH: <i>7, chloride test 2</i>
COUNTY: <i>Weld</i>	STATE: <i>CO</i>	WELL TYPE: OIL GAS WATER INJ.	AGE OF WELL: NEW REWORK	TYPE OF CEMENT: <i>G Neat</i>
CUSTOMER NAME: <i>Noble, Chris Hnaskin</i>		JOB TYPE:		CASING SIZE: <i>4 1/2" 11.6"</i>
JOB SUPERVISOR: <i>Matt Belashki</i>				CASING DEPTH: _____
SERVICE RATED: POOR FAIR EXCELLENT				TUBING SIZE: <i>2 3/8" 4.7"</i>
REMARKS: <i>CKR 2400' Pops 2000' + 2500'</i> <i>1900s Total 155 thru + 35 on over</i> <i>1000s Chem Wash</i> <i>50 LBS Sugar</i>				TUBING DEPTH: <i>2400'</i>
CUSTOMER SIGNATURE: _____				OPEN HOLE: <i>9"</i>
				CSG OR ANRL VOL: _____
				TBG VOLUME: _____
				WELL INFORMATION
				DESCRIPTION
				DEPTH
				<i>CKR</i> <i>2400'</i>
				<i>Top Pop</i> <i>2000'</i>
				<i>Bot Pop</i> <i>2500'</i>
				<i>TOCK + TOCA</i> <i>2000'</i>

TIME	INJECTION		PRESSURE		CEMENT SLURRY		REMARKS
	RATE	BBLs IN	CSG	TBG	WEIGHT	YIELD	
0900							
0920							Arrive to location, Meter short before start + rig up
10:00							JSA on rig up then rig up
10:20	<i>.5</i>	<i>.5</i>			<i>8.33</i>		SSA on pump schedule
10:30	<i>1.5</i>	<i>5</i>		<i>800</i>	<i>8.33</i>		Test line + popoff
10:34	<i>1.5</i>	<i>10</i>		<i>800</i>	<i>8.5</i>		Injection Rate H2O
10:41	<i>2</i>	<i>5</i>		<i>500</i>	<i>8.33</i>		1000s Chem Wash
10:44	<i>2</i>	<i>38.9</i>		<i>1000</i>	<i>15.8</i>	<i>115</i>	50 LBS H2O spacer
11:05	<i>2</i>	<i>2.1</i>		<i>400</i>	<i>8.33</i>		Mix + pump Prosko G Neat
11:07							Displace H2O spilling 35 Lbs on CKR
11:07	<i>1.5</i>	<i>5.3</i>		<i>80</i>	<i>8.33</i>		Shutdown/stop pump
11:11							Displace H2O to bottom
11:45							Shutdown/flush pump
11:50							SSA on rig down
12:30							Rig down leave location