



1001 17th Street
Suite 1600
Denver, CO 80202
10/8/2020

NOCKS 1-11D P&A Proposal (05-045-12300)

Project Objective:

This project is to plug and abandon the NOCKS 1-11D well.

NOCKS 1-11D P&A Procedure

1. Notify the Silt BLM office & COGCC at least 48 hours before plugging operations commence. Ensure proper ground disturbance forms have been completed, one call for utility identification has been done and proper paperwork is on location.
2. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
3. Record all tubing and casing pressures as found, note in WellView.
4. Perform Bradenhead Test using a Form 17. With gauges monitoring production casing and tubing pressures, open surface casing (bradenhead) valve. Record pressures at five-minute intervals for 30 minutes. Record all pressures and complete Form 17. Return completed Form 17 to Production Engineer.
5. MIRU workover unit. Kill well. ND wellhead, NU BOP.
6. Test and chart BOPs as per regulations. PU and remove tubing hanger.
7. TOOH with 2 3/8" tubing while scanning (per pertinent data sheet). Visually inspect pins and collars for corrosion or scale and report tubing condition in WellView. Lay down and replace any compromised joints of tubing. Note any scale, corrosion, and condition of tubing in WellView.
8. RUWL and RIH with 4 1/2" 11.6# CIBP to 4,144', ~50' above top perf at 4,194'. Set CIBP and ROH with wireline.
9. Perform 500 psi pressure test for 15 minutes. If test is not successful, please notify Production Engineer.
10. TIH with 2 3/8" tubing to 4,144'. Mix and pump cement plug of 16 sacks of Class G neat cement (15.8 lb/gal, 1.15 cu-ft/sx) on top of CIBP. Estimated TOC at 3,944' (200' cement cap). Pick up above the plug and circulate clean. TOOH
11. RU wireline. RIH with perf gun to 3,020' and perforate casing with 4 holes. ROH with wireline.



1001 17th Street
Suite 1600
Denver, CO 80202
10/8/2020

12. TIH with tubing to 3,020'. Ensure Bradenhead valve is open and perform injection rate test to gain circulation up the annulus of the surface casing up the Bradenhead. Ensure good returns before proceeding.
13. Mix and pump cement plug of 82 sacks of Class G neat cement to fill casing and annulus with 260' cement plug. Spot 62 sacks (~10.5 bbls) of cement into annulus and 20 sacks (~4 bbls) of cement in casing to cover L. Wasatch (2,960'). Estimated TOC at 2,760' (~50' coverage below and ~200' coverage above L. Wasatch). Pick up above the plug and circulate clean. Monitor Bradenhead and conductor for communication and notify Production Engineer. TOOH.
14. RU wireline. RIH with perf gun to 2,003' and perforate casing with 4 holes. ROH with wireline.
15. TIH with tubing to 2,003'. Ensure Bradenhead valve is open and perform injection rate test to gain circulation up the annulus of the surface casing up the Bradenhead. Ensure good returns before proceeding.
16. Mix and pump cement plug of 48 sacks of Class G neat cement to fill casing and annulus with 150' cement plug. Spot 36 sacks (~6.1 bbls) of cement into annulus and 36 sacks (~6 bbls) of cement in casing to cover Ft. Union (1,953'). Estimated TOC at 1,853' (50' coverage below and 100' coverage above Ft. Union). Pick up above the plug and circulate clean. Monitor Bradenhead and conductor for communication and notify Production Engineer. TOOH.
17. RU wireline. RIH with perf gun to 1,570' and perforate casing with 4 holes. ROH with wireline.
18. TIH with tubing to 1,570'. Ensure Bradenhead valve is open and perform injection rate test to gain circulation up the annulus of the surface casing up the Bradenhead. Ensure good returns before proceeding.
19. Mix and pump cement plug of 62 sacks of Class G neat cement to fill casing and annulus with ~200' cement plug. Spot 46 sacks (~8.7 bbls) of cement into annulus and 16 sacks (~3.1 bbls) of cement in casing. Estimated TOC at 1,369'. Pick up above the plug and circulate clean. Monitor Bradenhead and conductor for communication and notify Production Engineer. TOOH.
20. RU wireline. RIH with perf gun to 75' and perforate casing with 4 holes. ROH with wireline.
21. TIH with tubing to 75'. Mix and pump balance plug of 23 sacks of Class G neat cement to surface in casing and annulus. Top off cement if necessary.



1001 17th Street
Suite 1600
Denver, CO 80202
10/8/2020

22. RDMO workover unit and ND BOP.
23. Dig down around wellhead and cut off 4 feet below ground level. Top off with cement if needed.
24. Must wait 5 days prior to capping well as per COGCC regulations to monitor for successful plugging. After 5 days has elapsed and the well has been successfully plugged, weld information plate to casing stub with ¼" weep hole, take GPS readings of well information plate for regulatory agencies. Inscribe information plate with:


Caerus Oil and Gas LLC
Sec 1 T8S R96W NOCKS 1-11D 05-045-12300

25. Back fill hole and release equipment. RDMO



1001 17th Street
Suite 1600
Denver, CO 80202
10/8/2020

API:	05-045-12300
Surface Casing:	8 5/8" OD, 8.097" ID, 24 lb/ft, J-55 set at 1,519'.
Production Casing: Hole Size:	4 1/2" OD, 4" ID, 11.6 lb/ft, J-55 set at 6,520' 7 7/8"
TOC:	3,820'
Perfs:	4,194'- 6,294' in the Williams Fork, Cameo, and Corcoran
Top of Mesaverde Group:	2,857'
COGCC Field:	Parachute

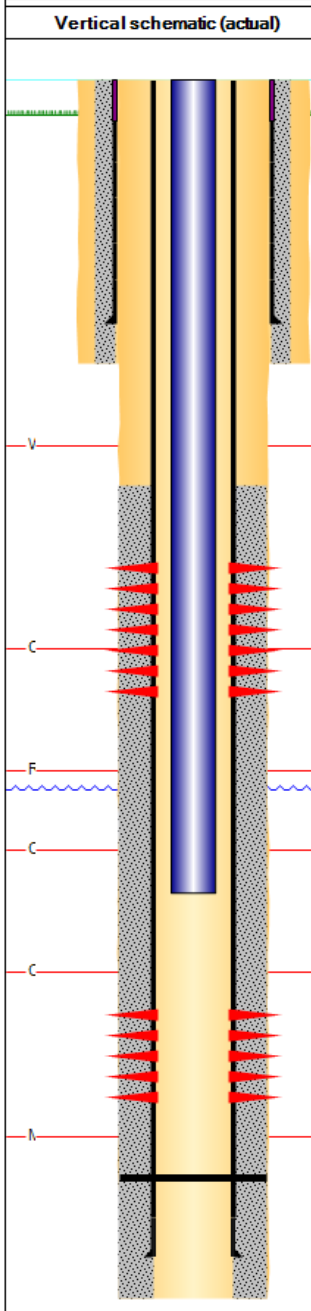


Downhole Well Profile - with Schematic

Well Name: **NOCKS 1-11D**

API/UVI 05045123000000	Related POD	State CO	County Garfield	Permit Number
Original Spud Date 4/13/2006 00:00	Total Depth (ft/B) 6,535.0	PSTD (All) (ft/B) Original Hole - 6,472.0	Original KB Elevation (ft) 5,819.00	Ground Elevation (ft) 5,797.00

Vertical schematic (actual)



Wellbore Sections						
Section Description	Size (in)	Act Top (ft/B)	Act Top (TVD) (ft)	Act Btm (ft/B)	Act Btm (TVD) (ft)	...
Surface	12 1/4	0.0		1,525.0		
Production	7 7/8	0.0		6,535.0		

PBTD (Plug Back Total Depth)			
Date	Type	Depth (ft/B)	Method
		6,472.0	

SURFACE, 1,519.0ftKB			
Run Date	Set Depth (ft/B)	Centralizers	Scratchers
4/15/2006	1,519.0	1-10' ABOVE SHOE, 1-10' ABOVE FLOAT COLLAR, 1 ON 2ND COLLAR, 1 ON EACH 3RD COLLAT TO SURFACE 15	

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ft/B)	Btm (ft/B)
LANDING JOINT	8 5/8	8.10	24.00	J-55	STC	1	25.00	0.0	25.0
HANGER	8 5/8	8.10	24.00	J-55	STC	1	2.00	25.0	27.0
Float Shoe	8 5/8	8.10	24.00	J-55	STC	1	1.71	27.0	28.7
Jt Casing	8 5/8	8.10	24.00	J-55	STC	1	40.90	28.7	69.6
Float Collar non rot	8 5/8	8.10	24.00	J-55	STC	1	1.46	69.6	71.1
Jts Casing	8 5/8	8.10	24.00	J-55	STC	37	1,447.93	71.1	1,519.0

PRODUCTION, 6,520.0ftKB			
Run Date	Set Depth (ft/B)	Centralizers	Scratchers
4/20/2006	6,520.0	1-10' ABOVE SHOE, 1- 10' ABOVE FLOAT COLLAR, 1 ON 2ND COLLAR, 1 EACH THIRD COLLAR THRTREATER. 30	

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ft/B)	Btm (ft/B)
Casing Joints	4 1/2	4.00	11.60	J-55		1	6,519.00	0.0	6,519.0
Shoe	4 1/2	4.00	11.60	J-55		1	1.00	6,519.0	6,520.0

Surface Casing Cement					
Description	Cementing Company	Start Date	End Date	String	
Surface Casing Cement	Halliburton	4/15/2006 18:25		SURFACE, 1,519.0ftKB	

Stg #	Top Depth (ft/B)	Btm (ft/B)	Fluid Type	Est Top (ft/B)	Est Btm (ft/B)
1	0.0	1,525.0	Displacement		
Amount (sacks) _____ Class _____					
1	0.0	1,525.0	Lead Spacer		
Amount (sacks) _____ Class _____					
1	0.0	1,525.0	Tail Spacer		
Amount (sacks) _____ Class _____					
1	0.0	1,525.0	Lead		
Amount (sacks) 250 Class LT. WEIGHT					
1	0.0	1,525.0	Tail		
Amount (sacks) 180 Class LT. WEIGHT					


Production Casing Cement					
Description	Cementing Company	Start Date	End Date	String	
Production Casing Cement	Halliburton	4/20/2006 08:00		PRODUCTION, 6,520.0ftKB	

Stg #	Top Depth (ft/B)	Btm (ft/B)	Fluid Type	Est Top (ft/B)	Est Btm (ft/B)
2	3,820.0	6,535.0	Displacement		
Amount (sacks) _____ Class _____					
2	3,820.0	6,535.0	Lead Spacer		
Amount (sacks) _____ Class _____					

www.caerusoilandgas.com

Page: 1/2

Report Printed: 11/19/2020

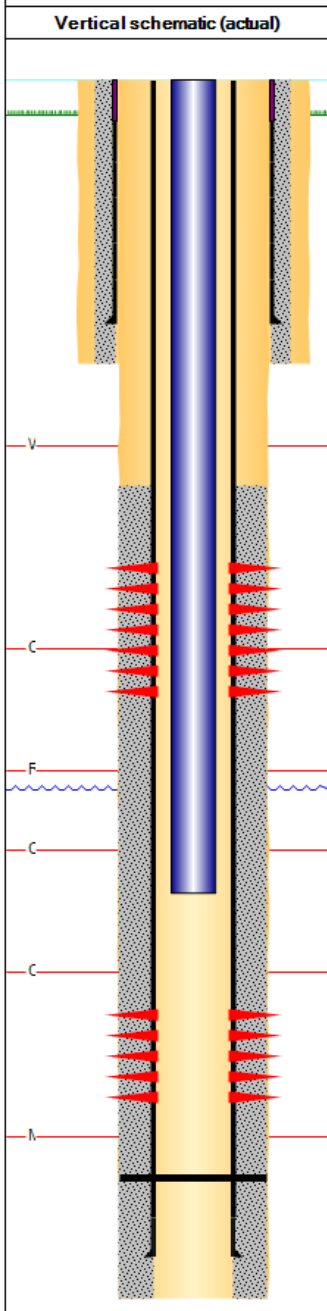


Downhole Well Profile - with Schematic

Well Name: NOCKS 1-11D

API/UWI 05045123000000	Related POD	State CO	County Garfield	Permit Number
Original Spud Date 4/13/2006 00:00	Total Depth (ft/B) 6,535.0	PSTD (Alt) (ft/B) Original Hole - 6,472.0	Original KB Elevation (ft) 5,819.00	Ground Elevation (ft) 5,797.00

Vertical schematic (actual)



Stg #	Top Depth (ft/B)	Btm (ft/B)	Fluid Type	Est Top (ft/B)	Est Btm (ft/B)
2	3,820.0	6,535.0	Tail Spacer		
Amount (sacks)		Class			
2	3,820.0	6,535.0	Tail		
Amount (sacks)		Class			
800		50:50 POZ			

Tubing Strings		Run Date	Set Depth (ft/B)				
Tubing - Production			6,190.0				
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ft/B)	Btm (ft/B)
Tubing	2 3/8	4.70	J-55		6,190.00	0.0	6,190.0

Perforations				
Date	Type	Stage#	Top (ft/B)	Btm (ft/B)
8/29/2006	Perforated	1	4,194.0	5,532.0
8/29/2006	Perforated	2	6,234.0	6,294.0

www.caerusoilandgas.com
Page: 2/2
Report Printed: 11/19/2020

