

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

<b>Well Name:</b> PHANTOM BANK 31 FED	<b>Well Location:</b> T26S / R31E / SEC 32 / LOT 4 / 32.001679 / -103.807624	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 508H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM 138868, NMNM138868	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001546754	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> FLAT CREEK RESOURCES LLC

**Notice of Intent**

**Sundry ID:** 1064201

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 04/13/2021

**Time Sundry Submitted:** 09:15

**Date proposed operation will begin:** 05/10/2021

**Procedure Description:** Move the well surface location, bottom hole location and producing horizon.

**NOI Attachments**

**Procedure Description**

- Sundry\_508H\_Application\_20210413090454.docx
- Compass\_Cementing\_Program\_revised\_20210412125343.pdf
- 508H\_Formation\_Tops\_20210412125327.xlsx
- Sundry\_508H\_Drilling\_Plan\_20210412125313.docx
- Sundry\_508H\_Produced\_Water\_Disposal\_20210316152033.docx
- Sundry\_508H\_Surface\_Use\_Plan\_of\_Operations\_20210316152024.docx

**Well Name:** PHANTOM BANK 31 FED

**Well Location:** T26S / R31E / SEC 32 / LOT 4 / 32.001679 / -103.807624

**County or Parish/State:** EDDY / NM

**Well Number:** 508H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM 138868, NMNM138868

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 3001546754

**Well Status:** Producing Gas Well

**Operator:** FLAT CREEK RESOURCES LLC

### Conditions of Approval

#### Additional

Phantom\_Bank\_31\_Fed\_Com\_508H\_Sundry\_ID\_1064201\_20210415084114.pdf

### Operator

*I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** RODNEY LITTLETON

**Signed on:** APR 13, 2021 09:09 AM

**Name:** FLAT CREEK RESOURCES LLC

**Title:** Vice President – Operations

**Street Address:** 777 Main Street, Suite 3600

**City:** Fort Worth

**State:** TX

**Phone:** (817) 310-8578

**Email address:** rodney.littleton@flatcreekresources.com

### Field

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### BLM Point of Contact

**BLM POC Name:** CHRISTOPHER WALLS

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234

**BLM POC Email Address:** cwalls@blm.gov

**Disposition:** Approved

**Disposition Date:** 04/15/2021

**Signature:** Chris Walls



## Flat Creek

Submitted by:  
Cesar Acosta  
[cacosta@compasswellservices.com](mailto:cacosta@compasswellservices.com)  
432-561-5970  
3/12/2021

Prepared for:  
**Mr. Robert Brosig**  
Consulting Engineer



# FLAT CREEK - EDDY COUNTY GENERIC WELL - SURFACE

## WELL BORE DETAILS

**Hole Size**

Size	Depth (ft)	
14 3/4	1000	TMD
	1000	TVD

**Previous Casing**

Size	Depth (ft)	Grade	Weight
20	120		

**Casing**

Size	Depth (ft)	Grade	Weight	Thread
10 3/4	1000		45.5	

**Formation**

Mud Weight/Type	BH Temp	
8.4 ppg FW	87 °F	BHST
	81 °F	BHCT



## JOB AND FLUID DETAILS

### Job Details

- Pump 40 bbls of fresh water Spacer
- Mix and pump 450 sks of Lead slurry mixed @ 13.5 ppg, yielding 787.5 ft<sup>3</sup> (140.2 bbls)
- Mix and pump 250 sks of Tail slurry mixed @ 14.8 ppg, yielding 335 ft<sup>3</sup> (59.6 bbls)
- Displace Top Wiper plug with approximately 92.3 bbls of water (actual volume determined on location)

Slurry Properties	Yield	Density	Mix Water
Lead Cement	1.74	13.5	8.83
Tail Cement	1.34	14.8	6.35

550

### Lead Cement Slurry - 450 sks (93% Excess) TOC Surface

100 Class C Premium	
Premium Gel (Bentonite)	2.00 %
C-51 Suspension Agent	0.05 %
Kol Seal	5.00 #/sk
C-503P Defoamer	0.30 %
Calcium Chloride	0.50 %

### Tail Cement Slurry - 250 sks (85% Excess) TOC 700

100 Class C Premium	
C-45 Econolite	0.10 %
Calcium Chloride	1.00 %





# Flat Creek

Submitted by:  
Jonathan Croitz  
432-561-5970  
4/8/2021

Prepared for:  
Mr. Robert Brosig  
Consulting Engineer



## FLAT CREEK - EDDY COUNTY GENERIC WELL - INTERMEDIATE - VERSION 2

REVISED FOR INCREASED EXCESS

### WELL BORE DETAILS

#### Hole Size

Size	Depth (ft)	
9 7/8	1000 - 10500	TMD
	10500	TVD

#### Previous Casing

Size	Depth (ft)	Grade	Weight
10 3/4	1000		40.5

#### Casing

Size	Depth (ft)	Grade	Weight	Thread
7 5/8	0 - 10500	HCP-110	29.7	

#### Formation

Mud Weight/Type	BH Temp	
9 ppg Brine	157 °F	BHST
	123 °F	BHCT



### JOB AND FLUID DETAILS

#### Job Details

Pump 20 bbls of fresh water

Pump 20 bbls of gel spacer

Mix and pump 560 sks of Primary slurry mixed @ 13.5 ppg, yielding 851.2 ft<sup>3</sup> (151.6 bbls)

Displace Top Wiper plug with approximately 477.8 bbls of water (actual fluid type and volume determined on location)

Check floats. Wait on cement +/- 2 hrs before starting bradenhead squeeze.

Tie into bradenhead valve.

Pump 20 bbls of gel spacer

Pump 840 gal of Sodium Silicate 102

Pump 20 bbls of fresh water spacer

Mix and pump 1600 sks of Bradenhead Cement mixed @ 14.8 ppg, yielding 2128 ft<sup>3</sup> (379 bbls) (calculated cement volume equals the annular volume from 7,550' back to surface, plus 25%)

Displace with 2 bbls of water.

Shut-in backside and wash truck to the pit.

Slurry Properties	Yield	Density	Mix Water
Primary Cement	1.52	13.5	7.78
Bradenhead Cement	1.33	14.8	6.33

#### Primary Cement Slurry - 560 sks (30% Excess) TOC 7550

100 HSLD 100 Cement	
C-51 Suspension Agent	0.10 %
C-45 Econolite	0.10 %
STE	4.00 %
Citric Acid	0.15 %
CFL-1	0.20 %

#### Bradenhead Cement Slurry - 1600 sks (25% Excess) TOC Surface

100 Class C Premium



**COST ESTIMATE**

Description	Quantity		Units	Gross Amount		Net Amount
Pump Charge 10001' to 11000'	1	\$8,315.00	each	\$8,315.00	15.00%	\$2,078.75
Pump Charge - Additional Hours	-	\$1,700.00	hour	\$0.00		\$0.00
Reserve Pump Truck	1	\$9,640.00	each	\$9,640.00	25.00%	\$2,410.00
Reserve Pump Truck after 10 hrs	-	\$1,700.00	hour	\$0.00		\$0.00
HV Mileage	200	\$11.40	mile	\$2,280.00	25.00%	\$570.00
LV Mileage	200	\$6.74	mile	\$1,348.00		\$338.00
Field Storage Bin delivery	200	\$11.40	mile	\$2,280.00	25.00%	\$570.00
Field Storage Bin - 3 Days	2	\$1,700.00	each	\$3,400.00		\$850.00
Cementing Head Rental	1	\$2,500.00	each	\$2,500.00	25.00%	\$625.00
Top Rubber Plug: 9 5/8"	-	\$410.00	each	\$0.00		\$0.00
Data Acquisition	1	\$1,130.00	each	\$1,130.00	25.00%	\$282.50
Thickening Time Test, Field Blend	1	\$2,180.00	each	\$2,180.00		\$545.00
Centrifugal Pump		\$1,130.00	each	\$0.00	5.00%	\$0.00
Circulating Equipment		\$6,000.00	each	\$0.00		\$0.00
Derrick Charge		\$1,000.00	each	\$0.00	10.00%	\$0.00
					25.00%	
					25.00%	
Citric Acid	4	\$14.06	lb	\$56.24	25.00%	\$14.08
C-51 Suspension Agent	80	\$38.04	lb	\$3,043.20		\$760.80
Soda Ash - PH Buffer	100	\$1.50	lb	\$150.00	25.00%	\$38.00
<b>Subtotal for Pumping &amp; Equipment Charges</b>				<b>\$36,322.44</b>		<b>\$9,082.13</b>
Class C Premium	1,600	\$40.00	sacks	\$64,000.00	25.00%	\$16,000.00
HSLD 100 Cement	560	\$46.68	sacks	\$26,140.80		\$6,535.20
Citric Acid	71	\$14.06	lb	\$998.26	25.00%	\$249.92
CFL-1	95	\$63.70	lb	\$6,051.50		\$1,513.35
C-45 Econolite	48	\$3.52	lb	\$168.96	25.00%	\$42.24
C-51 Suspension Agent	48	\$38.04	lb	\$1,825.92		\$456.48
STE	1,893	\$1.29	lb	\$2,441.97	25.00%	\$605.76
					25.00%	
					25.00%	
					25.00%	
					25.00%	
					25.00%	
					25.00%	
Sodium Silicate 102	840	\$10.42	gal	\$8,752.80		\$2,192.40
C-503L Defoamer	-	\$120.42	gal	\$0.00	25.00%	\$0.00
Sugar	-	\$4.20	lb	\$0.00	0.00%	\$0.00
Materials Handling	2,196	\$3.75	CF	\$8,235.00	15.00%	\$2,058.75
Drayage	216,000	\$0.09	sacks x miles	\$19,440.00		\$4,860.00
<b>Subtotal for Materials Charges</b>				<b>\$138,055.21</b>		<b>\$34,514.10</b>
Gross Price Subtotal						\$174,377.65
Discount					75.0%	(\$130,781.42)
<b>Pre-tax Total</b>						<b>\$43,596.23</b>





## Flat Creek

Submitted by:  
Cesar Acosta  
cacosta@compasswellservices.com  
432-561-5970  
3/11/2021

Prepared for:  
**Mr. Robert Brosig**  
Drilling Manager



# EDDY COUNTY GENERIC WELL - PRODUCTION

# Eddy County Generic Well - Production

## WELL BORE DETAILS

### Hole Size

Size	Depth (ft)	
63/4	16,500	TMD
	11,100	TVD
	10600	KOP

### Previous Casing

Size	Depth (ft)	Grade	Weight
97/8	10500	HCP-110	20

### Casing

Size	Depth (ft)	Grade	Weight	Thread
5 1/2	0-10,400	HCP-110	20	USF
5	10,400-16,500	HCP-110	18	DWC

### Tubing

Size	Depth (ft)	Grade	Weight
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### Formation

Mud Weight/Type	BH Temp	
12.5 ppg OBM	161°F	BHST
	158°F	BHCT



## JOB AND FLUID DETAILS

### Job Details

Mix and pump weighed spacer w/ surfactants at 13.5 ppg (based on final mud density)

Mix and pump 665 sks of Primary slurry mixed @ 14.2 ppg, yielding 837.0 ft<sup>3</sup> ( 149.2 bbls) 5-8 bpm

Displace Top Wiper plug with approximately 292.3 bbls of water (actual volume determined on location) 5-8 bpm

Land plug, pressure 500 psi over landing pressure, check floats. (final pressure determined on location)

Slurry Properties	Yield	Density	Mix Water
Primary Cement	1.26	14.2	5.95

### Primary Cement Slurry - 665 sks (10% Excess) TOC 10000

50:50 Class H Premium:Compass Poz-Mix

Citric Acid	0.05 %
CSA-1000 - Fluid Loss Additive	0.05 %
C-49 Expanding Gas Flow Con	0.20 %



# Eddy County Generic Well - Production

## COST ESTIMATE

Description	Quantity		Units	Gross Amount		Net Amount
Pump Charge 16001' to 17000'	1	\$25,955.00	each	\$25,955.00		\$5,710.10
Pump Charge - Additional Hours	-	\$1,700.00	hour	\$0.00		\$0.00
Reserve Pump Truck	1	\$9,640.00	each	\$9,640.00		\$2,120.80
Reserve Pump Truck after 10 hrs	-	\$1,700.00	hour	\$0.00		\$0.00
Batch Mixer - First 10 hours	1	\$4,920.00	each	\$4,920.00		\$1,082.40
Batch Mixer - Additional hours	-	\$720.00	hour	\$0.00		\$0.00
HV Mileage	300	\$11.40	mile	\$3,420.00		\$753.00
LV Mileage	100	\$6.74	mile	\$674.00		\$148.00
Field Storage Bin delivery	100	\$11.40	mile	\$1,140.00		\$251.00
Field Storage Bin - 3 Days	1	\$1,700.00	each	\$1,700.00		\$374.00
Cementing Head Rental	1	\$2,500.00	each	\$2,500.00		\$550.00
Data Acquisition	1	\$1,130.00	each	\$1,130.00		\$248.60
Thickening Time Test, Field Blend	1	\$2,180.00	each	\$2,180.00		\$479.60
Centrifugal Pump	-	\$1,130.00	each	\$0.00		\$0.00
Circulating Equipment	-	\$6,000.00	each	\$0.00		\$0.00
Derrick Charge	-	\$1,000.00	each	\$0.00		\$0.00
Barite	131	\$70.56	sack	\$9,243.36		\$2,033.12
CSG-1	40	\$98.79	lb	\$3,951.60		\$869.20
Plexaid - 803	50	\$58.56	gal	\$2,928.00		\$644.00
Plexaid - 840 Surfactant	25	\$169.54	gal	\$4,238.50		\$932.50
<b>Subtotal for Pumping &amp; Equipment Charges</b>				<b>\$73,620.46</b>		<b>\$16,196.32</b>
Class H Premium	333	\$35.92	sacks	\$11,961.36		\$2,630.70
Compass Poz-Mix	333	\$20.30	sacks	\$6,759.90		\$1,488.51
Citric Acid	28	\$13.94	lb	\$390.32		\$85.96
CSA-1000 - Fluid Loss Additive	28	\$60.48	Lb	\$1,693.44		\$372.68
C-49 Expanding Gas Flow Control	112	\$45.35	lb	\$5,079.20		\$1,117.76
C-503L Defoamer	-	\$120.42	gal	\$0.00		\$0.00
Sugar	-	\$4.20	lb	\$0.00		\$0.00
Materials Handling	669	\$3.75	CF	\$2,508.75		\$551.93
Drayage	46,400	\$0.09	sacks x miles	\$4,176.00		\$918.72
<b>Subtotal for Materials Charges</b>				<b>\$32,568.97</b>		<b>\$7,166.26</b>
<b>Gross Price Subtotal</b>						<b>\$106,189.43</b>
Discount					78.0%	<b>(\$82,826.86)</b>
<b>Pre-tax Total</b>						<b>\$23,362.58</b>



**Sundry Notice Detail - Application**

**Phantom Bank 31 Fed Com 508H**

**Notice of Intent:**

Procedure Description: Move well surface location, revise bottom hole location, and change producing horizon.

Section 1 – General: No change

**Section 2- Well Information**

New Master Development Plan Name: No change

Well Name: No change

Field Name: Change Field Name from Gatuna Canyon; Bone Spring to Purple Sage

Pool Name: Change from Bone Springs to Purple Sage; Wolfcamp

Pad Name: No change

New Well Plat Added

New SUP Added

Well Work Start Date Change: Change from 08/01/2019 to 05/10/2021

Well Work Duration (Days) Change: Change from 30 days to 20 days

**Section 3 – Well Location**

	<u>Old Location</u>	<u>New Location</u>
Surface change	350' FWL 600' FSL (Sec 32)	400' FWL 550' FSL (Sec 32)
KOP change	350' FWL 600' FSL (Sec 32)	400' FWL 550' FSL (Sec 32)
PPP Change	100' FEL 330' FSL (Sec 31)	330' FEL 330' FSL (Sec 31)
Exit Change	100' FWL 330' FSL (Sec 31)	330' FWL 330' FSL (Sec 31)
BHL Change	30' FWL 330' FSL (Sec 31)	100' FWL 330' FSL (Sec 31)

(Revisions are on new plat and on Sundry)

**Well Name: PHANTOM BANK 31 FED COM**  
 Well Type: OIL  
 Section 1 - Geologic Formations

**Well Number: 508H**  
 Well Work Type: DRILL  
**EKB: 3138'**

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth
1	ALLUVIUM	3138	25	<b>25</b>
2	RUSLTER	2336	802	<b>802</b>
3	TOP SALT	1559	1579	<b>1579</b>
4	BASE SALT	-419	3557	<b>3557</b>
5	LAMAR	-636	3774	<b>3774</b>
6	BELL CANYON	-674	3812	<b>3812</b>
7	CHERRY CANYON	-1582	4720	<b>4720</b>
8	BRUSHY CANYON	-2883	6021	<b>6021</b>
9	BONE SPRING LIME	-4567	7705	<b>7705</b>
10	1ST BONE SPRING SAND	-5493	8631	<b>8631</b>
11	2ND BONE SPRING SHALE	-5782	8920	<b>8920</b>
12	2ND BONE SPRING SAND	-6135	9273	<b>9273</b>
13	3RD BONE SPRING SHALE	-6758	9896	<b>9896</b>
14	3RD BONE SPRING SAND	-7426	10564	<b>10564</b>
15	WOLFCAMP X/Y SAND	<b>-7821</b>	<b>10959</b>	<b>10960</b>
16	WOLFCAMP A SHALE	<b>-7989</b>	<b>11127</b>	<b>11140</b>
17	WOLFCAMP A SHALE TARGET	<b>-8281</b>	<b>11419</b>	<b>11752</b>
	TD	<b>-8224</b>	<b>11362</b>	<b>16860</b>
	KOP	<b>-7708</b>	<b>10846</b>	<b>10846</b>
	PP	-7989	11127	11140
	EP=LTP			
	ANTICIPATED BHP:		6289 PSI	
	ANTICIPATED BHT:		200 DEG F	
	LOGGING PROGRAM:			
	MWD GR			

Lithologies	Mineral Resources	Producing Formation
SAND & SHALE	NONE	NO
ANHYDRITE	NONE	NO
SALT	NONE	NO
ANHYDRITE	NONE	NO
LIMESTONE & SHALE	OIL & GAS	NO
SAND & SHALE	OIL & GAS	NO
SAND & SHALE	OIL & GAS	NO
SAND & SHALE	OIL & GAS	NO
LIMESTONE	OIL & GAS	NO
SANDSTONE	OIL & GAS	NO
LIMESTONE & SHALE	OIL & GAS	NO
SANDSTONE	OIL & GAS	NO
LIMESTONE & SHALE	OIL & GAS	NO
SANDSTONE	OIL & GAS	NO
SAND & SHALE	OIL & GAS	NO
SHALE & LIMESTONE	OIL & GAS	YES
SHALE & LIMESTONE	OIL & GAS	YES

## **Sundry Notice Detail – Drilling Plan**

### **Phantom Bank 31 Fed Com 508H**

#### **Notice of Intent:**

Procedure Description: Move well surface location, revise bottom hole location, and change producing horizon.

#### **Drilling Plan**

**Section 1** – Geologic Formations Change: See attached spreadsheet with geologic formations

**Section 2** – Blowout Preventer Testing Procedure: No change

**Section 3** – Casing Change:

Surface: Change from 13-3/8" casing to 10-3/4" casing

Intermediate: Change from 9-5/8" casing to 7-5/8" casing and increased depth to 10,500'

Production: Change from 5-1/2" casing to a tapered string of 5-1/2" casing by 5" casing

5-1/2" casing will run from surface to 10,500' (TCBC-HT connection, OD of coupling 5.9")

5" casing will run from 10,500' to TD (approximately 16,860') TCBC-HT connection, OD of coupling 5.633"

**Section 4** – Cement Change:

Surface: Revised volumes and properties for revised casing size and change of cementing company

Intermediate: Revised volumes and properties for revised casing size, depth and change of cementing company. Excess volume increased to 25% (annulus volume 405.5 bbl. vs 530.6 bbl. cement pumped)

Production: Revised volumes and properties for revised casing size and change of cementing company

**Section 5** – Circulating Medium Change:

Surface: No change

Intermediate: Change of depth to drill to.

Production: Change to oil base mud

**Section 6** – Test, Logging, Coring: No change

**Section 7** – Pressure: Change of pressure due to change in formation

**Section 8** – Other Information: Change to new directional plan

## **Sundry Notice Detail – Produced Water Disposal**

### **Phantom Bank 31 Fed Com 508H**

#### **Notice of Intent:**

Procedure Description: Move well surface location, revise bottom hole location, and change producing horizon.

#### **Produced Water Disposal**

Section 1 – General: No change

Section 2 – Lined Pits: No change

Section 3 – Unlined Pits: No change

Section 4 – Injection: No change

Section 5 – Surface Discharge: No change

Section 6 – Other: No change

## **Sundry Notice Detail – Surface Use Plan of Operations**

### **Phantom Bank 31 Fed Com 508H**

#### **Notice of Intent:**

Procedure Description: Move well surface location, revise bottom hole location, and change producing horizon.

#### **Surface Use Plan of Operations**

Section 1 – Existing Roads: New SUP attached

Section 2 – New or Reconstructed Access Roads: No change

Section 3 – Location of Existing Wells: No change

Section 4 – Location of Existing and /or Proposed Production Facilities: No change

Section 5 – Location and Types of Water Supply: No change

Section 6 – Construction Materials: No change

Section 7 – Methods for Handling Waste: No change

Section 8 – Ancillary Facilities: No change

Section 9 – Well Site Layout: No change

Section 10 – Plans for Final Surface Reclamation: No change

Section 11 – Surface Ownership: No change

Section 12 – Other Information: No change



**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
 Action 272534

**CONDITIONS**

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 272534
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	Accepted for the record. Contains As Drilled.	2/5/2024