

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

Sundry Print Report of 13
01/19/2022

Well Name: TRUE GRIT FEDERAL 35 Well Location: T31N / R13W / SEC 35 / County or Parish/State: SAN

Well Number: 13 Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

**WELL** 

Lease Number: NMSF078463A Unit or CA Name: BASIN FRUITLAND Unit or CA Number:

COAL NMNM112668, NMNM73527

US Well Number: 3004533512 Well Status: Producing Gas Well Operator: HILCORP ENERGY

COMPANY

# **Subsequent Report**

**Sundry ID:** 2651595

Type of Submission: Subsequent Report

Type of Action: Other

Date Sundry Submitted: 01/07/2022 Time Sundry Submitted: 10:01

**Date Operation Actually Began:** 01/04/2022

**Actual Procedure:** Hilcorp Energy is requesting a record clean-up on the Pictured Cliffs formation top for the subject well. Based on Hilcorp Energy's review, there's a transition zone approximately between 1941' – 1958' when reviewing the GR/SP/Resistivity Logs. However, the PE/Rhob Logs combination shows that the base of the bottom coal seam within the Fruitland Formation lies about 1968', which HEC considers the base of the Fruitland Formation and the top of the Pictured Cliffs Formation. The attachment shows cross sections and logs for the True Grit 35#13. The last slide shows both logs side to side. The display on the right shows the PE curve in red in the first track and the density curve in the third track. An updated schematic showing the Picture Cliffs top at 1968' is attached.

### **SR Attachments**

### **Actual Procedure**

True\_Grit\_35\_13\_DATA\_BLM\_Submitted\_20220107100050.pdf

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SWSW / 36.85054 / -108.180455

Well Location: T31N / R13W / SEC 35 / County or Parish/State: SAN

JUAN / NM

Well Number: 13

Type of Well: CONVENTIONAL GAS

Allottee or Tribe Name:

**WELL** 

Lease Number: NMSF078463A Unit or CA Name: BASIN FRUITLAND

COAL

**Unit or CA Number:** NMNM112668, NMNM73527

**US Well Number**: 3004533512

Well Status: Producing Gas Well

**Operator:** HILCORP ENERGY

**COMPANY** 

# **Operator Certification**

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 submission of Form 3160-5 or a Sundry Notice.

**Operator Electronic Signature: PRISCILLA SHORTY Signed on:** JAN 07, 2022 10:00 AM

Name: HILCORP ENERGY COMPANY

Title: Regulatory Technician

Street Address: 382 Road 3100

City: Aztec State: NM

Phone: (505) 324-5188

Email address: pshorty@hilcorp.com

# Field Representative

Representative Name:

**Street Address:** 

City: Zip:

Phone:

**Email address:** 

## **BLM Point of Contact**

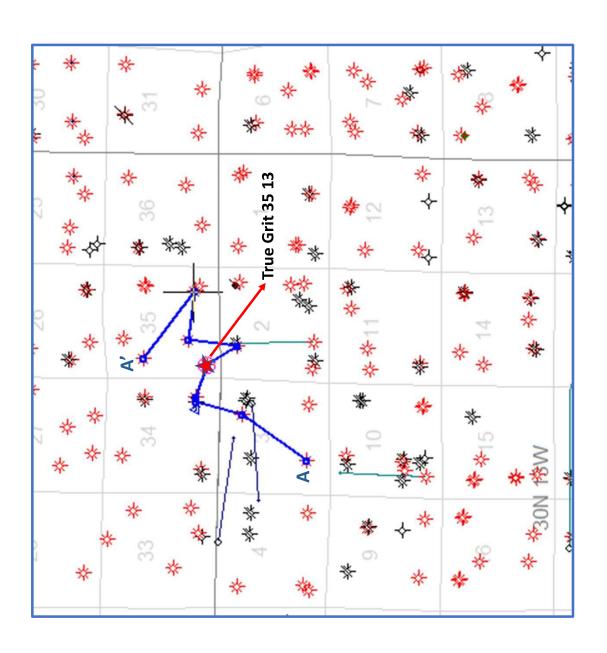
**BLM POC Title:** AFM-Minerals **BLM POC Name:** DAVE J MANKIEWICZ

**BLM POC Phone:** 5055647761 BLM POC Email Address: DMANKIEW@BLM.GOV

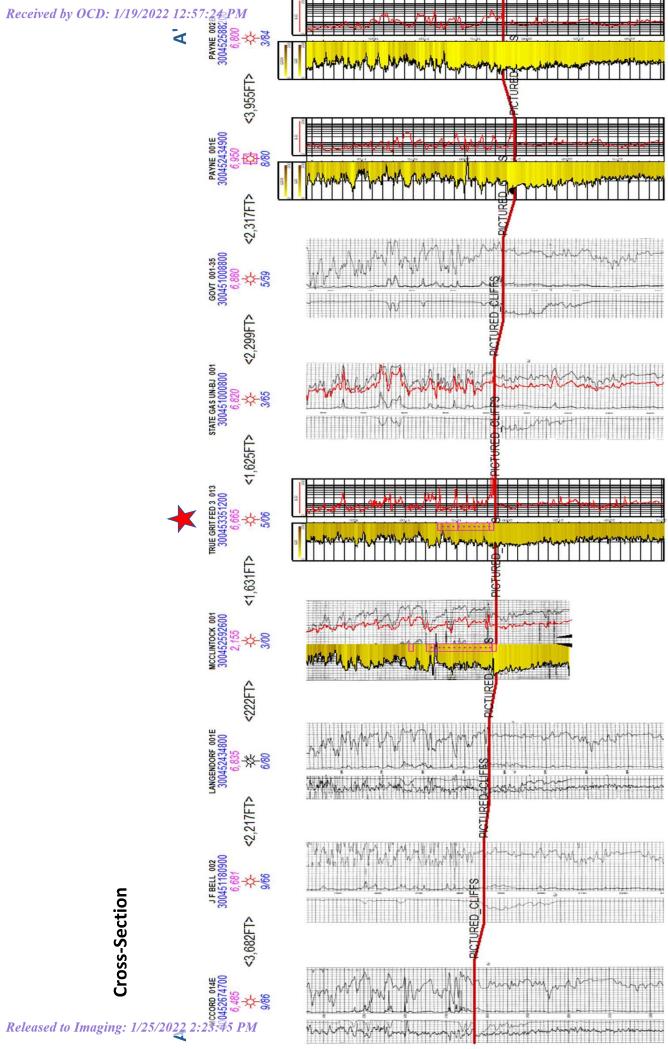
**Disposition:** Approved **Disposition Date:** 01/19/2022

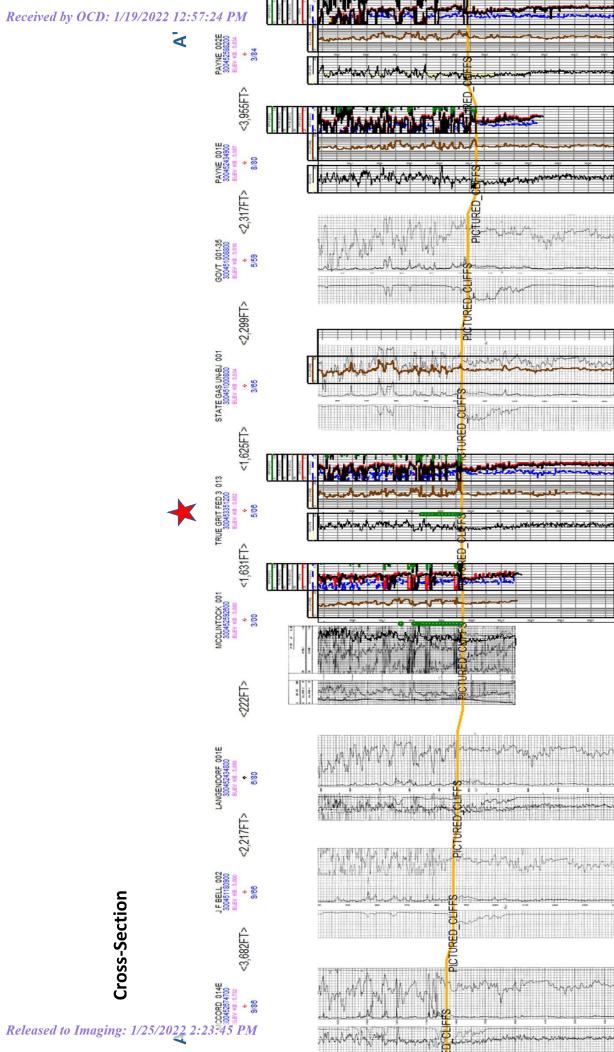
Signature: Dave Mankiewicz

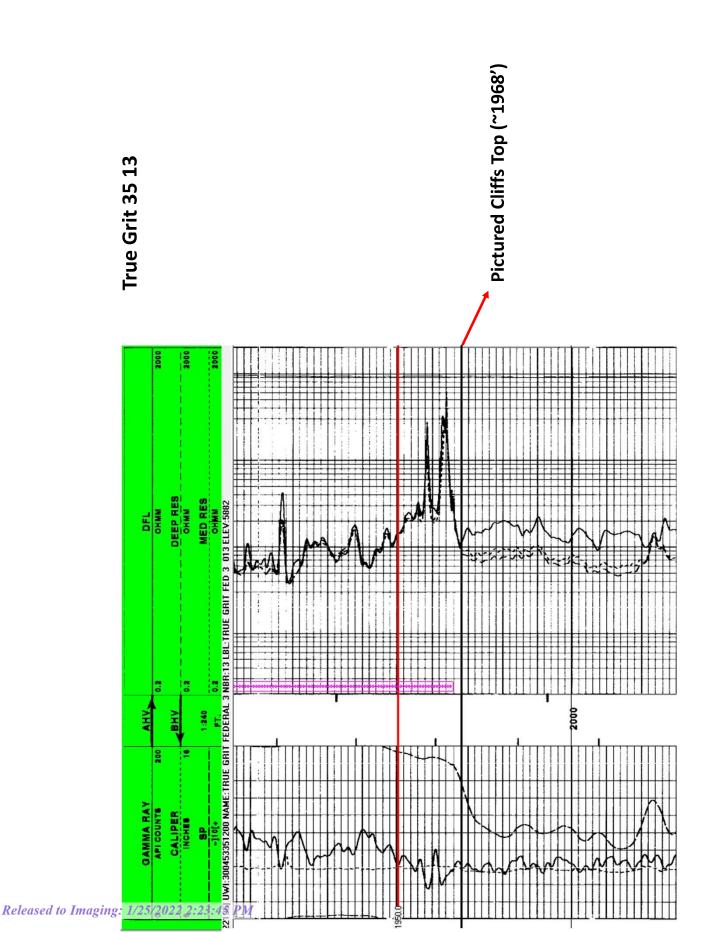
# True Grit 35 13 PC Top 3004533512

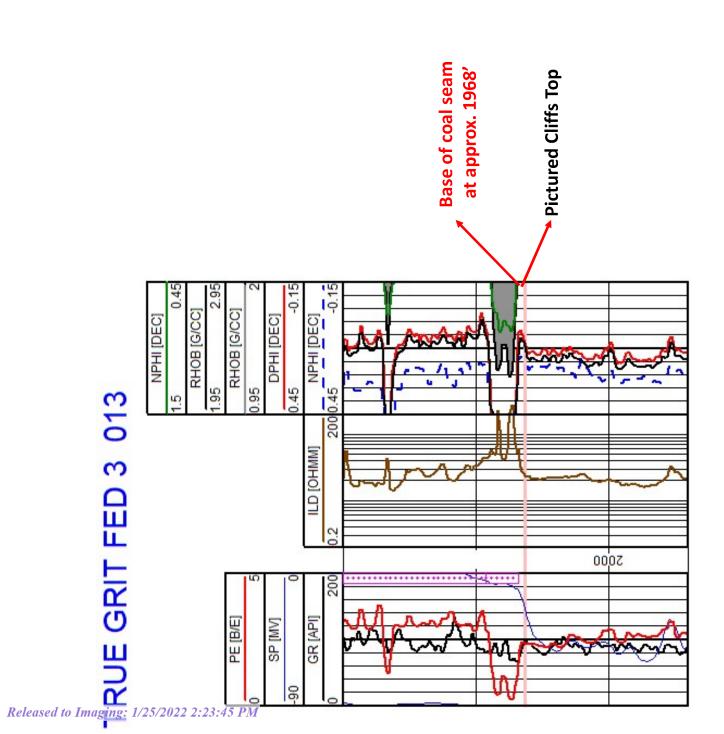


Basemap









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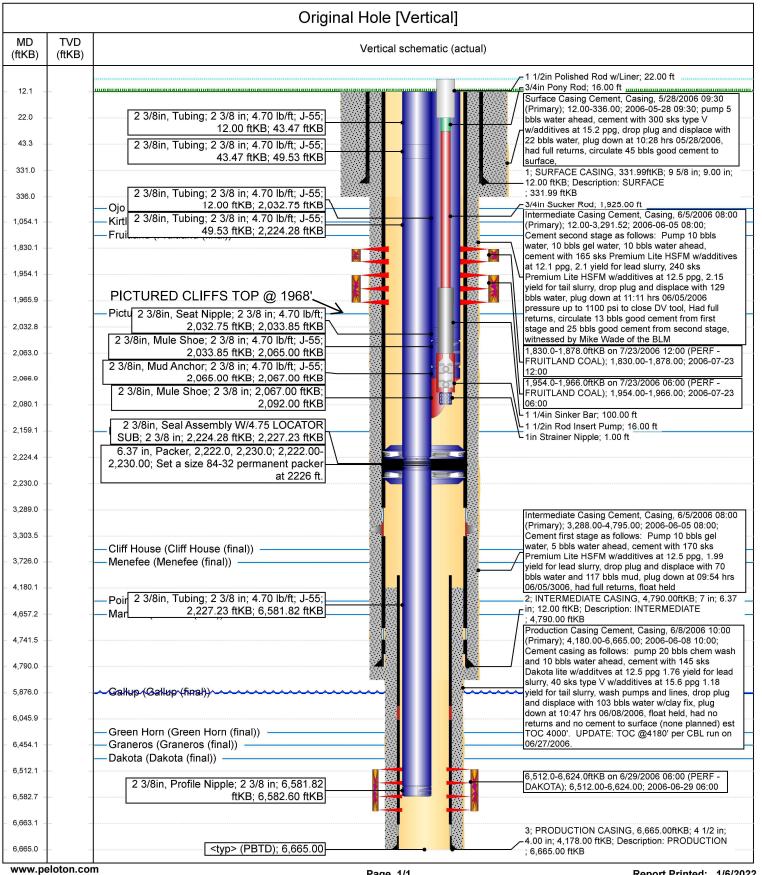
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# Hilcorp Energy Company

### **Current Schematic - Version 3**

Well Name: TRUE GRIT 35 #13

	Surface Legal Location M-35-31N-13W	Field Name BASIN			State/Province		Well Configuration Type Vertical
Ground Elevation (ft) 5,870.00  Original KB/RT Elevation (ft) 5,882.00			KB-Ground Distance (ft) 12.00	KB-Casing Flange Distance (ft)		KB-Tubing Hanger Distance (ft)	



# **Priscilla Shorty**

From: Pickford, Katherine, EMNRD < Katherine.Pickford@state.nm.us>

Tuesday, January 4, 2022 8:21 AM
Gage, Walter J; Priscilla Shorty
Wenman, Christopher P

**Subject:** RE: [EXTERNAL] True Grit Federal 35 # 13 Fruitland/PC contact

Priscilla,

OCD accepts BLM's interpretation of the PC top.

Please submit a sundry containing

- 1. An explanation of the review conducted to change the PC top pick,
- 2. A corrected well bore diagram, showing the correct PC top,
- 3. A cross section of the area, identifying the trend of the PC top.

Thanks, Kate

From: Gage, Walter J < WGage@blm.gov> Sent: Monday, January 3, 2022 12:06 PM

To: Pickford, Katherine, EMNRD <Katherine.Pickford@state.nm.us>; Priscilla Shorty <pshorty@hilcorp.com>

Cc: Wenman, Christopher P <cwenman@blm.gov>; Mankiewicz, David J <dmankiew@blm.gov>; Rennick, Kenneth G

<krennick@blm.gov>

Subject: [EXTERNAL] True Grit Federal 35 # 13 Fruitland/PC contact

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi All,

My first response is that the 1954'-1966' interval is within what could easily be considered a transitional zone between the Fruitland and the PC. As such the placement of the top and any perforations within that zone is a somewhat subjective task.

Examining the disputed region of the the SP curve in Log 3004533512\_1 the identified transition between the formations extends from 1941' to 1980'. The track of the SP above 1941' delineates the shale line. The movement left at that point signals the addition of sand and the beginning of the transition zone. The initial expression of the massive sand of the PC is the point of the SP at 1980' and marks the end of the transition zone.

The GR track over that interval shows a coarsening from 1941' to 1960', two prominent peaks and then a relatively consistent profile from 1968' to the base of the PC.

The two Resistance tracks show a gentle increase in the 1941' to 1958' zone then a 10' zone of widely varying resistance ending at 1968' with water signature which extends to the base of the PC.

There is a change in the Conductivity display at the zone of widely varying resistance, 1958' to 1968'. Below here to the base of the PC is has a more consistent profile.

Looking specifically at 1958' and 1968' is seems to me 1958' most prominently marks the beginning of the zone of varying resistivity and one of the two prominent GR peaks. 1968' marks the bottom of the zone of varying resistance, the start of the more consistent conductivity profile and the beginning of serious sand accumulation on the SP.

Examining the bulk density display on the second log, 3004533512\_2, the first thing to notice is an approximately 10' thick section of coal at the base of the Fruitland ending somewhere between 1968' and 1970'. The second thing is that the PE curve tracks this coal as well over this same interval.

The top of the PC is somewhat subjective based on only the first log but with the addition of the density and PE curves the top of the Picture Cliffs is at the base of the last coal-approximately 1968'.

I shared this with Chris Wenman of our office, he agrees.

Walter Gage

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1625 N. French Dr., Hobbs, NM 88240
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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 73511

### **CONDITIONS**

Operator:	OGRID:		
HILCORP ENERGY COMPANY	372171		
1111 Travis Street	Action Number:		
Houston, TX 77002	73511		
	Action Type:		
	[C-103] Sub. General Sundry (C-103Z)		

#### CONDITIONS

Cr	eated By	Condition	Condition Date
k	pickford	None	1/25/2022