

MAY 09 2019 AM 11:20

Revised March 23, 2017

RECEIVED: 4/09/2019	REVIEWER: MAM	TYPE: DH	APP NO: PMAM19129 41387
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NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Hilcorp Energy Company	OGRID Number: 372171
Well Name: Mitchell 1E	API: 30-045-23645
Pool: Basin Fruitland Coal / Blanco Mesaverde	Pool Code: 71629 / 72319

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

- A. ☐ Offset operators or lease holders
- B. ☐ Royalty, overriding royalty owners, revenue owners
- C. ☐ Application requires published notice
- D. ☐ Notification and/or concurrent approval by SLO
- E. ☐ Notification and/or concurrent approval by BLM
- F. ☐ Surface owner
- G. ☐ For all of the above, proof of notification or publication is attached, and/or,
- H. ☒ No notice required

FOR OCD ONLY

☐ Notice Complete
☐ Application Content Complete

- 3) CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Thomas Jacques

Print or Type Name

Signature

5/9/2019

Date

832.839.4582

Phone Number

tjacques@hilcorp.com

e-mail Address

Production Summary Report

API: 30-045-23645

MITCHELL #001E

Year	Pool	Gas(MCF)	Water(BBLS)	Days P/I
9/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	921	0	30
10/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	1081	0	31
11/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	926	0	30
12/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	616	0	31
1/1/2019	[71629] BASIN FRUITLAND COAL (GAS)	525	0	31
2/1/2019	[71629] BASIN FRUITLAND COAL (GAS)	58	0	28
Cum		900326	18771	



May 9, 2019

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Attn: Michael McMillan

Re: C-107-A (Downhole Commingle)
Mitchell 001E
API: 30-045-23645
T31N-R12W-Section 5, Unit Letter: F
San Juan County, NM

Mr. McMillan:

Concerning Hilcorp Energy Company's C-107-A application to downhole commingle production in the subject well, this letter serves to confirm the following:

- That notification to the BLM office has been sent via a hand delivered copy of the packet.

If you have any questions or concerns regarding this matter, please do not hesitate to contact me at the email or number provided below.

Regards,

Hilcorp Energy Company

A handwritten signature in black ink, appearing to read 'A. Walker', is written over the printed name 'Amanda Walker'.

Amanda Walker
Operations/Regulatory Tech Sr.
(505)324.5122
mwalker@hilcorp.com



May 9, 2019

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Attn: Michael McMillan

Re: C-107-A (Downhole Commingle)
Mitchell 001E
API: 30-045-23645
T31N-R12W-Section 5, Unit Letter: F
San Juan County, NM

Mr. McMillan:

Concerning Hilcorp Energy Company's C-107-A application to downhole commingle production in the subject well, this letter serves to confirm the following:

- All working, royalty and overriding royalty interests are identical between the Basin Fruitland Coal (71629) and Blanco Mesaverde (72319) in the spacing unit dedicated to these formations; being the W/2 of Township 31 North, Range 12 West, Section 5. Therefore, no notice to interest owners is required.
- The spacing unit is partially comprised of a federal lease. Therefore, pursuant to Subsection C.(1) of 19.15.12.11 NMAC, a copy of the C-107-A has been sent to the BLM as of the date of this letter.

If you have any questions or concerns regarding this matter, please do not hesitate to contact me at the email or number provided below.

Regards,

Hilcorp Energy Company

A handwritten signature in black ink, appearing to read 'Robert T. Carlson'.

Robert T. Carlson
Landman
(832) 839-4596
rcarlson@hilcorp.com

District I
1625 N. French Drive, Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A
Revised August 1, 2011

APPLICATION TYPE
☒ Single Well
☐ Establish Pre-Approved Pools
EXISTING WELLBORE
☐ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Hilcorp Energy Company 382 Road 3100, Aztec, NM 87410
Operator Address

Mitchell 1E F 05, 31N, 12W San Juan
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 372171 Property Code 319376 API No. 30-045-23645 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Basin Fruitland Coal		Blanco Mesaverde
Pool Code	71629		72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2100'-2336'		3997'-5127'
Method of Production (Flowing or Artificial Lift)	Artificial Lift		New Zone
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	400 psi		800 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1000 BTU		1000 BTU
Producing, Shut-In or New Zone	Producing		New Zone
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates: 0 BOPD, 17 MCFPD, 0 BWPD	Date: Rates:	Date: N/A Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas Will be supplied upon completion	Oil Gas % %	Oil Gas Will be supplied upon completion

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes ☐ No ☒

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Amanda Walker TITLE Operations/Regulatory Technician DATE 5/9/2019

TYPE OR PRINT NAME Amanda Walker TELEPHONE NO. (505) 324.5122

E-MAIL ADDRESS mwalker@hilcorp.com

District I1625 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-23645	2. Pool Code 72319	3. Pool Name BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code 319376	5. Property Name MITCHELL	6. Well No. 001E
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 5966

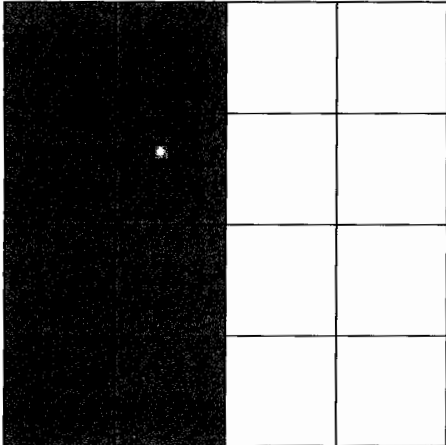
10. Surface Location

UL - Lot F	Section 5	Township 31N	Range 12W	Lot Idn	Feet From 1758	N/S Line N	Feet From 1850	E/W Line W	County SAN JUAN
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11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 318.36				13. Joint or Infill	14. Consolidation Code			15. Order No.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: <i>Amanda Walker</i> Title: Operations/Regulatory Tech Sr. Date: 5/7/2019</p> <hr/> <p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Surveyed By: James P. Leese Date of Survey: 5/13/1979 Certificate Number: 1463</p>
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District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2 PH 2-15
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-23645		¹ Pool Code 71629/71599		¹ Pool Name Basin Fruitland Coal/Basin Dakota	
⁴ Property Code		² Property Name Mitchell			⁵ Well Number 1E
¹ OGRID No. 14538		³ Operator Name Burlington Resources Oil & Gas Company			⁶ Elevation 5966' GR

¹⁰ Surface Location

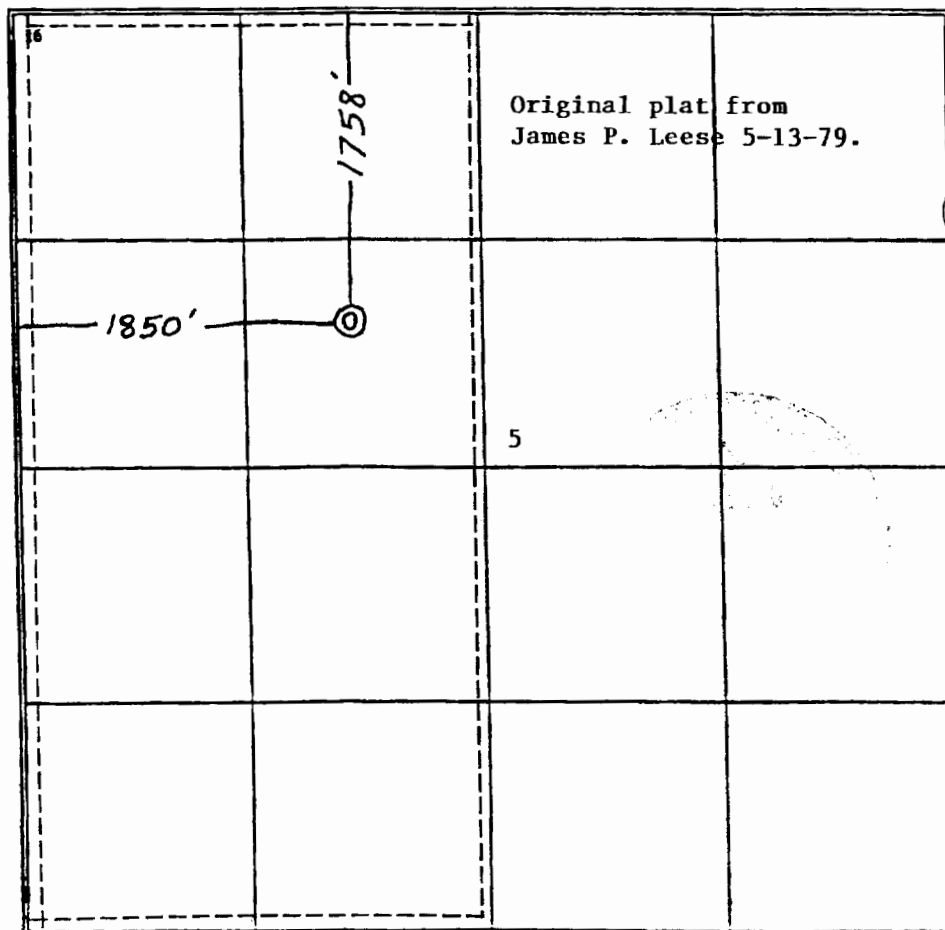
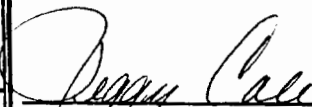
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	5	31N	12W		1758	North	1850	West	San Juan

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

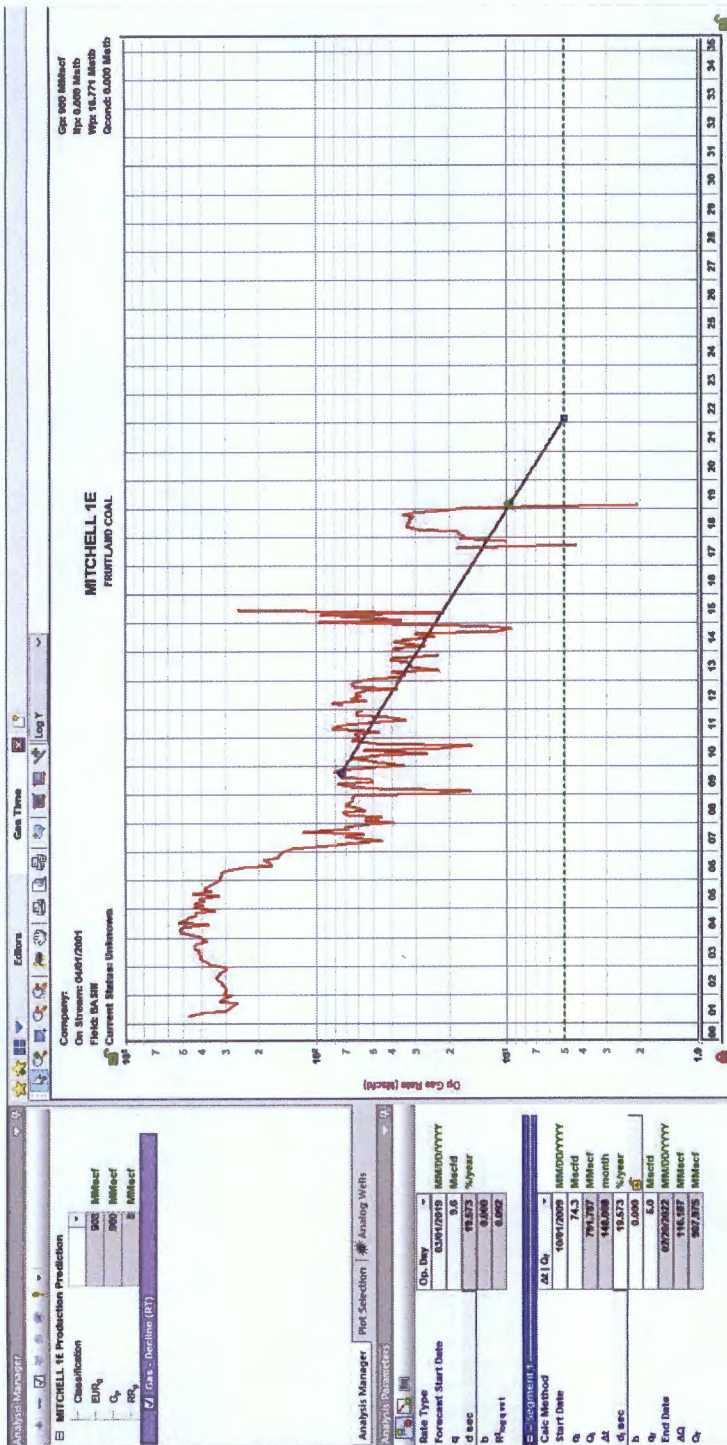
¹² Dedicated Acres W/318.36	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>Original plat from James P. Leese 5-13-79.</p>	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p> Signature Peggy Cole Printed Name Regulatory Supervisor Title 12-11-00 Date</p>
	5	<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey Signature and Seal of Professional Surveyer:</p>

Subtraction Allocation Forecast - Mitchell 1E

Base formation is the Fruitland Coal and the added formation to be commingled is the MesaVerde. The subtraction method applies an average monthly production forecast to the base formation using historic production. All production from this well exceeding the forecast will be allocated to the new formation.



Date	Mscfd
Mar-19	9.50
Apr-19	9.30
May-19	9.10
Jun-19	9.00
Jul-19	8.80
Aug-19	8.60
Sep-19	8.50
Oct-19	8.30
Nov-19	8.20
Dec-19	8.00
Jan-20	7.90
Feb-20	7.80
Mar-20	7.60
Apr-20	7.50
May-20	7.30
Jun-20	7.20
Jul-20	7.10
Aug-20	7.00
Sep-20	6.80
Oct-20	6.70
Nov-20	6.60
Dec-20	6.50
Jan-21	6.30
Feb-21	6.20
Mar-21	6.10
Apr-21	6.00
May-21	5.90
Jun-21	5.80
Jul-21	5.70
Aug-21	5.60
Sep-21	5.50
Oct-21	5.40
Nov-21	5.30
Dec-21	5.20
Jan-22	5.10
Feb-22	3.40

Fruit Land Coal										
Lease Name	Well Number	API	Operator Name	Year	Month	Liquid	Gas	Water	Wells	Days On
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	APR		13972	0	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	MAY		12249	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	JUN		7181	320	1	24
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	JUL		8796	800	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	AUG		8588	360	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	SEP		7828	0	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	OCT		9953	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	NOV		9076	640	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2001	DEC		8702	480	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	JAN		9428	520	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	FEB		8382	320	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	MAR		9180	240	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	APR		9108	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	MAY		9724	480	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	JUN		9306	400	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	JUL		10345	400	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	AUG		10354	240	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	SEP		9616	280	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	OCT		9875	200	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	NOV		8862	480	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2002	DEC		9195	160	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	JAN		11188	320	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	FEB		10411	160	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	MAR		12133	80	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	APR		12297	240	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	MAY		12369	240	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	JUN		12536	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	JUL		12695	200	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	AUG		13526	80	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	SEP		13118	160	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	OCT		13156	200	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	NOV		11259	200	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2003	DEC		12187	40	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	JAN		12575	160	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	FEB		13505	80	1	29
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	MAR		16022	160	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	APR		15503	300	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	MAY		15601	300	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	JUN		10988	160	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	JUL		16321	160	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	AUG		14898	80	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	SEP		14037	340	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	OCT		13389	280	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	NOV		12712	160	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2004	DEC		10539	120	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	JAN		13663	120	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	FEB		10949	80	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	MAR		13495	40	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	APR		11611	320	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	MAY		12744	160	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	JUN		9668	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	JUL		13724	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	AUG		10953	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	SEP		11593	0	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	OCT		11349	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	NOV		10569	250	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2005	DEC		10257		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	JAN		9841	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	FEB		8903	0	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	MAR		9693	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	APR		9376	0	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	MAY		9059	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	JUN		7225	0	1	30

MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	JUL		5275	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	AUG		5462	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	SEP		5643	0	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	OCT		4905	0	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	NOV		4688	0	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2006	DEC		4691	31	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	JAN		4478	31	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	FEB		3764	28	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	MAR		2713	31	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	APR		2084	30	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	MAY		1397	31	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	JUN		1688	30	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	JUL		2181	31	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	AUG		1755	31	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	SEP		3524	30	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	OCT		2113	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	NOV		2128	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2007	DEC		1633	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	JAN		1212	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	FEB		1609	77	1	29
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	MAR		1398	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	APR		2044	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	MAY		2243	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	JUN		1655	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	JUL		1911	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	AUG		2176	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	SEP		2046	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	OCT		1986	83	1	31
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2008	DEC		1946	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2009	JAN		705	83	1	31
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2009	APR		1979	80	1	30
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2009	SEP		2132	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2009	OCT		2507	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2009	NOV		2258	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2009	DEC		1530	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	JAN		1074	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	FEB		1332	75	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	MAR		1654	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	APR		1978	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	MAY		1452	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	JUN		781	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	JUL		1760	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	AUG		687	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	SEP		459	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2010	OCT		1496	83	1	31
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	FEB		1770	75	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	MAR		1436	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	APR		2472	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	MAY		2439	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	JUN		2076	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	JUL		1438	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	AUG		1041	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	SEP		1253	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	OCT		1900	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	NOV		1822	80	1	30

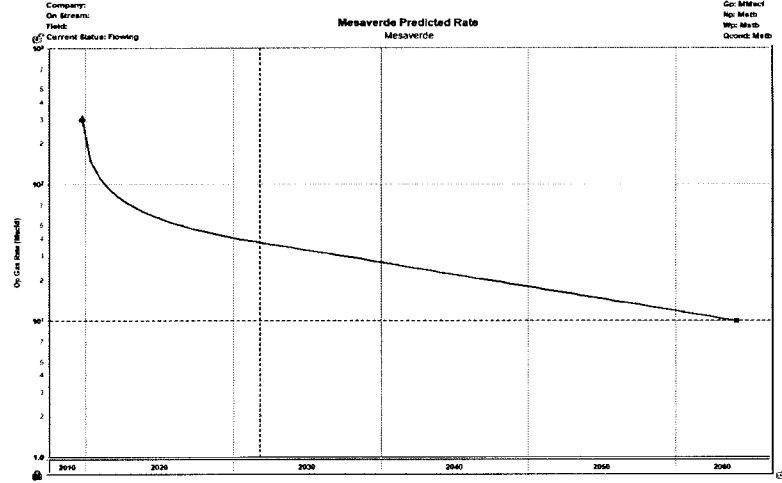
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2011	DEC		1781	83	1	31
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	FEB		1164	43	1	16
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	MAR		2552	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	APR		1642	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	MAY		2032	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	JUN		1754	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	JUL		1934	83	1	31
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	SEP		1132	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	OCT		1956	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	NOV		1951	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2012	DEC		1915	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	JAN		1110	59	1	22
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	FEB		464	35	1	13
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	MAR		1061	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	APR		1196	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	MAY		705	83	1	31
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	AUG		1025	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	SEP		1212	80	1	30
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2013	DEC					
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	JAN		1013	75	1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	FEB		938	64	1	24
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	MAR		780	77	1	29
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	APR		886	69	1	26
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	MAY		888	61	1	23
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	JUN		586	53	1	20
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	JUL		192	21	1	8
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	AUG		867	77	1	29
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	SEP		338	80	1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	OCT		290	83	1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	NOV		296	64	1	24
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2014	DEC		474	51	1	19
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	JAN		578	16	1	6
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	FEB		356	27	1	10
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	MAR		406	19	1	7
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	APR		662	19	1	7
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	MAY		194	24	1	9
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	JUN		507	5	1	2
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	JUL			0	0	
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	AUG			0	0	
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2015	OCT			3	1	
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MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	FEB		0		0	0
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	MAR		0		0	0
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	APR		0		0	0
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	MAY		0		0	0
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	JUN		0		0	0
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	JUL		0		0	0
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	AUG		18		1	1
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	SEP		126		1	29
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	OCT		0		0	0
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	NOV		305		1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2017	DEC		541		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	JAN		515		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	FEB		499		1	28
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	MAR		555		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	APR		873		1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	MAY		1029		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	JUN		995		1	30

MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	JUL		993		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	AUG		1008		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	SEP		921		1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	OCT		1081		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	NOV		926		1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	DEC		616		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2019	JAN		525		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2019	FEB		58		1	28

Subtraction Allocation Forecast - Mitchell 1E

Base formation is the Fruitland Coal and the added formation to be commingled is the Mesaverde. The subtraction method applies an average monthly production forecast to the base formation using historic production. All production from this well exceeding the forecast will be allocated to the new formation.

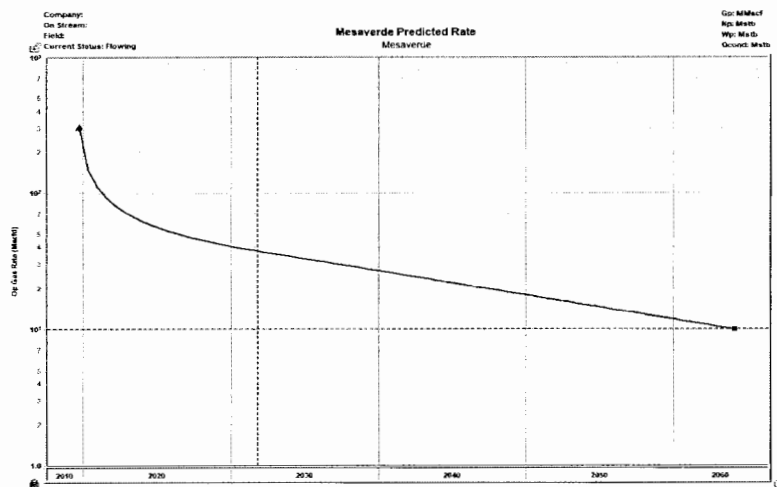
Date	Mcf/d
Oct-19	272.40
Nov-19	233.30
Dec-19	207.30
Jan-20	188.20
Feb-20	174.00
Mar-20	162.60
Apr-20	153.00
May-20	145.00
Jun-20	138.10
Jul-20	132.10
Aug-20	126.70
Sep-20	122.00
Oct-20	117.80
Nov-20	114.00
Dec-20	110.60
Jan-21	107.40
Feb-21	104.60
Mar-21	102.00
Apr-21	99.50
May-21	97.20
Jun-21	95.00
Jul-21	93.00
Aug-21	91.10
Sep-21	89.30
Oct-21	87.60
Nov-21	86.00
Dec-21	84.50
Jan-22	83.00
Feb-22	81.70
Mar-22	80.50
Apr-22	79.20
May-22	78.00
Jun-22	76.90
Jul-22	75.80
Aug-22	74.80
Sep-22	73.80
Oct-22	72.80
Nov-22	71.90
Dec-22	71.00
Jan-23	70.10
Feb-23	69.30
Mar-23	68.60
Apr-23	67.80
May-23	67.00
Jun-23	66.30
Jul-23	65.60
Aug-23	64.90
Sep-23	64.30
Oct-23	63.60
Nov-23	63.00
Dec-23	62.40
Jan-24	61.80
Feb-24	61.30
Mar-24	60.70
Apr-24	60.20
May-24	59.70
Jun-24	59.20
Jul-24	58.70
Aug-24	58.20
Sep-24	57.70
Oct-24	57.20
Nov-24	56.80
Dec-24	56.30
Jan-25	55.90
Feb-25	55.50
Mar-25	55.10
Apr-25	54.70
May-25	54.30
Jun-25	53.90
Jul-25	53.50
Aug-25	53.20
Sep-25	52.80
Oct-25	52.40
Nov-25	52.10
Dec-25	51.70
Jan-26	51.40
Feb-26	51.10
Mar-26	50.80
Apr-26	50.50
May-26	50.20
Jun-26	49.90
Jul-26	49.60
Aug-26	49.30
Sep-26	49.00
Oct-26	48.70
Nov-26	48.40
Dec-26	48.10
Jan-27	47.90
Feb-27	47.60
Mar-27	47.30
Apr-27	47.10
May-27	46.80
Jun-27	46.60
Jul-27	46.30
Aug-27	46.10
Sep-27	45.90
Oct-27	45.60
Nov-27	45.40
Dec-27	45.20
Jan-28	44.90
Feb-28	44.70
Mar-28	44.50
Apr-28	44.30
May-28	44.10
Jun-28	43.90
Jul-28	43.70
Aug-28	43.50
Sep-28	43.30
Oct-28	43.10
Nov-28	42.90
Dec-28	42.70
Jan-29	42.50
Feb-29	42.30
Mar-29	42.20
Apr-29	42.00
May-29	41.80
Jun-29	41.60
Jul-29	41.40
Aug-29	41.30
Sep-29	41.10
Oct-29	40.90
Nov-29	40.80
Dec-29	40.60
Jan-30	40.40
Feb-30	40.30
Mar-30	40.10
Apr-30	40.00
May-30	39.80
Jun-30	39.70
Jul-30	39.50
Aug-30	39.40
Sep-30	39.20



MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	JUL		993		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	AUG		1008		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	SEP		921		1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	OCT		1081		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	NOV		926		1	30
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2018	DEC		616		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2019	JAN		525		1	31
MITCHELL	1E	30045236450001	HILCORP ENERGY COMPANY	2019	FEB		58		1	28

Base formation is the Fruitland Coal and the added formation to be commingled is the Mesa Verde. The subtraction method applies an average monthly production forecast to the base formation using historic production. All production from this well exceeding the forecast will be allocated to the new formation.

Date	Moist
Oct-19	272.40
Nov-19	283.30
Dec-19	207.30
Jan-20	181.80
Feb-20	174.00
Mar-20	162.60
Apr-20	153.00
May-20	145.00
Jun-20	138.10
Jul-20	132.10
Aug-20	126.70
Sep-20	127.00
Oct-20	127.80
Nov-20	124.60
Dec-20	110.60
Jan-21	107.40
Feb-21	104.60
Mar-21	103.20
Apr-21	99.50
May-21	97.20
Jun-21	93.00
Jul-21	91.10
Aug-21	91.10
Sep-21	89.30
Oct-21	87.60
Nov-21	86.00
Dec-21	84.00
Jan-22	83.00
Feb-22	81.70
Mar-22	80.50
Apr-22	79.20
May-22	78.00
Jun-22	76.90
Jul-22	75.80
Aug-22	74.80
Sep-22	73.80
Oct-22	72.80
Nov-22	71.90
Dec-22	71.00
Jan-23	70.10
Feb-23	69.10
Mar-23	68.60
Apr-23	67.80
May-23	67.00
Jun-23	66.30
Jul-23	65.60
Aug-23	64.90
Sep-23	64.30
Oct-23	63.60
Nov-23	63.00
Dec-23	62.40
Jan-24	61.80
Feb-24	61.30
Mar-24	60.70
Apr-24	60.20
May-24	59.70
Jun-24	59.20
Jul-24	58.70
Aug-24	58.20
Sep-24	57.70
Oct-24	57.20
Nov-24	56.80
Dec-24	56.30
Jan-25	55.90
Feb-25	55.50
Mar-25	55.10
Apr-25	54.70
May-25	54.30
Jun-25	53.90
Jul-25	53.50
Aug-25	53.20
Sep-25	52.80
Oct-25	52.40
Nov-25	52.10
Dec-25	51.70
Jan-26	51.40
Feb-26	51.10
Mar-26	50.80
Apr-26	50.50
May-26	50.20
Jun-26	49.90
Jul-26	49.60
Aug-26	49.30
Sep-26	49.00
Oct-26	48.70
Nov-26	48.40
Dec-26	48.10
Jan-27	47.90
Feb-27	47.60
Mar-27	47.30
Apr-27	47.10
May-27	46.80
Jun-27	46.60
Jul-27	46.40
Aug-27	46.10
Sep-27	45.90
Oct-27	45.60
Nov-27	45.40
Dec-27	45.10
Jan-28	44.90
Feb-28	44.70
Mar-28	44.50
Apr-28	44.30
May-28	44.10
Jun-28	43.90
Jul-28	43.70
Aug-28	43.50
Sep-28	43.30
Oct-28	43.10
Nov-28	42.90
Dec-28	42.70
Jan-29	42.50
Feb-29	42.30
Mar-29	42.00
Apr-29	41.80
May-29	41.60
Jun-29	41.40
Jul-29	41.20
Aug-29	41.00
Sep-29	40.80
Oct-29	40.60
Nov-29	40.40
Jan-30	40.20
Feb-30	40.10
Mar-30	40.00
Apr-30	39.90
May-30	39.80
Jun-30	39.70
Jul-30	39.60
Aug-30	39.50
Sep-30	39.40
Oct-30	39.30
Nov-30	39.20



Oct-30	39.10
Nov-30	38.90
Dec-30	38.80
Jan-31	38.60
Feb-31	38.50
Mar-31	38.40
Apr-31	38.20
May-31	38.10
Jun-31	38.00
Jul-31	37.80
Aug-31	37.70
Sep-31	37.60
Oct-31	37.40
Nov-31	37.30
Dec-31	37.20
Jan-32	37.10
Feb-32	36.90
Mar-32	36.80
Apr-32	36.70
May-32	36.60
Jun-32	36.40
Jul-32	36.30
Aug-32	36.20
Sep-32	36.10
Oct-32	35.90
Nov-32	35.80
Dec-32	35.70
Jan-33	35.60
Feb-33	35.40
Mar-33	35.30
Apr-33	35.20
May-33	35.10
Jun-33	35.00
Jul-33	34.90
Aug-33	34.70
Sep-33	34.60
Oct-33	34.50
Nov-33	34.40
Dec-33	34.30
Jan-34	34.10
Feb-34	34.00
Mar-34	33.90
Apr-34	33.80
May-34	33.70
Jun-34	33.60
Jul-34	33.50
Aug-34	33.30
Sep-34	33.20
Oct-34	33.10
Nov-34	33.00
Dec-34	32.90
Jan-35	32.80
Feb-35	32.70
Mar-35	32.60
Apr-35	32.50
May-35	32.30
Jun-35	32.20
Jul-35	32.10
Aug-35	32.00
Sep-35	31.90
Oct-35	31.80
Nov-35	31.70
Dec-35	31.60
Jan-36	31.50
Feb-36	31.40
Mar-36	31.30
Apr-36	31.20
May-36	31.00
Jun-36	30.90
Jul-36	30.80
Aug-36	30.70
Sep-36	30.60
Oct-36	30.50
Nov-36	30.40
Dec-36	30.30
Jan-37	30.20
Feb-37	30.10
Mar-37	30.00
Apr-37	29.90
May-37	29.80
Jun-37	29.70
Jul-37	29.60
Aug-37	29.50
Sep-37	29.40
Oct-37	29.30
Nov-37	29.20
Dec-37	29.10
Jan-38	29.00
Feb-38	28.90
Mar-38	28.80
Apr-38	28.70
May-38	28.60
Jun-38	28.50
Jul-38	28.40
Aug-38	28.30
Sep-38	28.20
Oct-38	28.10
Nov-38	28.00
Dec-38	27.90
Jan-39	27.80
Feb-39	27.80
Mar-39	27.70
Apr-39	27.60
May-39	27.50
Jun-39	27.40
Jul-39	27.30
Aug-39	27.20
Sep-39	27.10
Oct-39	27.00
Nov-39	26.90
Dec-39	26.80
Jan-40	26.70
Feb-40	26.60
Mar-40	26.60
Apr-40	26.50
May-40	26.40
Jun-40	26.30
Jul-40	26.20
Aug-40	26.10
Sep-40	26.00
Oct-40	25.90
Nov-40	25.80
Dec-40	25.70
Jan-41	25.70
Feb-41	25.60
Mar-41	25.50
Apr-41	25.40
May-41	25.30
Jun-41	25.20
Jul-41	25.10
Aug-41	25.10
Sep-41	25.00
Oct-41	24.90
Nov-41	24.80
Dec-41	24.70
Jan-42	24.60
Feb-42	24.60
Mar-42	24.50
Apr-42	24.40

May-42	24.30
Jun-42	24.20
Jul-42	24.10
Aug-42	24.10
Sep-42	24.00
Oct-42	23.90
Nov-42	23.80
Dec-42	23.70
Jan-43	23.60
Feb-43	23.60
Mar-43	23.50
Apr-43	23.40
May-43	23.30
Jun-43	23.30
Jul-43	23.20
Aug-43	23.10
Sep-43	23.00
Oct-43	22.90
Nov-43	22.90
Dec-43	22.80
Jan-44	22.70
Feb-44	22.60
Mar-44	22.60
Apr-44	22.50
May-44	22.40
Jun-44	22.30
Jul-44	22.20
Aug-44	22.20
Sep-44	22.10
Oct-44	22.00
Nov-44	21.90
Dec-44	21.90
Jan-45	21.80
Feb-45	21.70
Mar-45	21.60
Apr-45	21.60
May-45	21.50
Jun-45	21.40
Jul-45	21.40
Aug-45	21.30
Sep-45	21.20
Oct-45	21.10
Nov-45	21.10
Dec-45	21.00
Jan-46	20.90
Feb-46	20.90
Mar-46	20.80
Apr-46	20.70
May-46	20.60
Jun-46	20.60
Jul-46	20.50
Aug-46	20.40
Sep-46	20.40
Oct-46	20.30
Nov-46	20.20
Dec-46	20.20
Jan-47	20.10
Feb-47	20.00
Mar-47	20.00
Apr-47	19.90
May-47	19.80
Jun-47	19.70
Jul-47	19.70
Aug-47	19.60
Sep-47	19.50
Oct-47	19.50
Nov-47	19.40
Dec-47	19.30
Jan-48	19.30
Feb-48	19.20
Mar-48	19.20
Apr-48	19.10
May-48	19.00
Jun-48	19.00
Jul-48	18.90
Aug-48	18.80
Sep-48	18.80
Oct-48	18.70
Nov-48	18.60
Dec-48	18.60
Jan-49	18.50
Feb-49	18.40
Mar-49	18.40
Apr-49	18.30
May-49	18.30
Jun-49	18.20
Jul-49	18.10
Aug-49	18.10
Sep-49	18.00
Oct-49	18.00
Nov-49	17.90
Dec-49	17.80
Jan-50	17.80
Feb-50	17.70
Mar-50	17.70
Apr-50	17.60
May-50	17.50
Jun-50	17.50
Jul-50	17.40
Aug-50	17.40
Sep-50	17.30
Oct-50	17.20
Nov-50	17.20
Dec-50	17.10
Jan-51	17.10
Feb-51	17.00
Mar-51	16.90
Apr-51	16.90
May-51	16.80
Jun-51	16.80
Jul-51	16.70
Aug-51	16.70
Sep-51	16.60
Oct-51	16.50
Nov-51	16.50
Dec-51	16.40
Jan-52	16.40
Feb-52	16.30
Mar-52	16.30
Apr-52	16.20
May-52	16.20
Jun-52	16.10
Jul-52	16.00
Aug-52	16.00
Sep-52	15.90
Oct-52	15.90
Nov-52	15.80
Dec-52	15.80
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Apr-53	15.60
May-53	15.50
Jun-53	15.50
Jul-53	15.40
Aug-53	15.40
Sep-53	15.30
Oct-53	15.20
Nov-53	15.20

Dec-53	15.10
Jan-54	15.10
Feb-54	15.00
Mar-54	15.00
Apr-54	14.90
May-54	14.90
Jun-54	14.80
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Sep-54	14.70
Oct-54	14.60
Nov-54	14.60
Dec-54	14.50
Jan-55	14.50
Feb-55	14.40
Mar-55	14.40
Apr-55	14.30
May-55	14.30
Jun-55	14.20
Jul-55	14.20
Aug-55	14.10
Sep-55	14.10
Oct-55	14.10
Nov-55	14.00
Dec-55	14.00
Jan-56	13.90
Feb-56	13.90
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Apr-56	13.80
May-56	13.70
Jun-56	13.70
Jul-56	13.60
Aug-56	13.60
Sep-56	13.50
Oct-56	13.50
Nov-56	13.40
Dec-56	13.40
Jan-57	13.40
Feb-57	13.30
Mar-57	13.30
Apr-57	13.20
May-57	13.20
Jun-57	13.10
Jul-57	13.10
Aug-57	13.00
Sep-57	13.00
Oct-57	13.00
Nov-57	12.90
Dec-57	12.90
Jan-58	12.80
Feb-58	12.80
Mar-58	12.70
Apr-58	12.70
May-58	12.60
Jun-58	12.60
Jul-58	12.60
Aug-58	12.50
Sep-58	12.50
Oct-58	12.40
Nov-58	12.40
Dec-58	12.30
Jan-59	12.30
Feb-59	12.30
Mar-59	12.20
Apr-59	12.20
May-59	12.10
Jun-59	12.10
Jul-59	12.10
Aug-59	12.00
Sep-59	12.00
Oct-59	11.90
Nov-59	11.90
Dec-59	11.90
Jan-60	11.80
Feb-60	11.80
Mar-60	11.70
Apr-60	11.70
May-60	11.70
Jun-60	11.60
Jul-60	11.60
Aug-60	11.50
Sep-60	11.50
Oct-60	11.50
Nov-60	11.40
Dec-60	11.40
Jan-61	11.30
Feb-61	11.30
Mar-61	11.30
Apr-61	11.20
May-61	11.20
Jun-61	11.20
Jul-61	11.10
Aug-61	11.10
Sep-61	11.00
Oct-61	11.00
Nov-61	11.00
Dec-61	10.90
Jan-62	10.90
Feb-62	10.90
Mar-62	10.80
Apr-62	10.80
May-62	10.70
Jun-62	10.70
Jul-62	10.70
Aug-62	10.60
Sep-62	10.60
Oct-62	10.60
Nov-62	10.50
Dec-62	10.50
Jan-63	10.50
Feb-63	10.40
Mar-63	10.40
Apr-63	10.30
May-63	10.30
Jun-63	10.30
Jul-63	10.20
Aug-63	10.20
Sep-63	10.20
Oct-63	10.10
Nov-63	10.10
Dec-63	10.10
Jan-64	10.00



HILCORP ENERGY COMPANY
MITCHELL 1E
MESA VERDE RECOMPLETION SUNDRY

API #:

3004523645

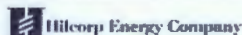
JOB PROCEDURES

- | | | |
|-------------------------------------|-------|---|
| <input checked="" type="checkbox"/> | NMOCD | Contact OCD and BLM (where applicable) 24 hrs prior to MIRU. Record and document all casing pressures <u>daily</u> , including BH, IC (if present) and PC. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations. |
| <input checked="" type="checkbox"/> | BLM | |
1. MIRU workover rig and associated equipment; NU and test BOP.
 2. Gather Fruitland Coal gas analysis. TOO H with 2 3/8" tubing set at 2,331'
 3. Drill out CICR @ 2346'
 4. Drill out CICR @ 3873', CO to PBTD at 5975'
NOTE: PBTD below this CICR is a balanced plug laid f/ 6125-5975' and a CICR set at 6840' w/ 90' of cement on top
 5. Load hole with fluid and run a CBL on the 4-1/2" casing. Verify cement bond within the Mesa Verde and confirm TOC. Review CBL results with BLM and NMOCD and perform cmt remediation, as required.
 6. RIH w/ a pkr and set 50' below the bottom FRC perforation (2336'). Contact the NMOCD and BLM, conduct a witnessed MIT below the packer and above the balanced plug
 7. Set a 4-1/2" cast iron bridge plug at +/- 5227' to provide a base for the frac
 8. Perforate the Mesa Verde. (Top perforation @ 3997', Bottom perforation @ 5127')
 9. RIH w/ frac string and packer with ceramic disc sub. Set pkr 50-75' above the top MV perforation and land tbg.
 10. ND BOPs, NU frac stack. PT frac stack to 9,000#. PT frac string to 9,000#, PT backside to 300# (to insure packer is set).
NOTE: frac string is 2-7/8" 6.5# P110 with BTS-8 connections. PT is to max anticipated treating pressure (~60% of burst)
 11. RU slickline. RIH and break ceramic disc. RD slickline
 12. Frac the Mesa Verde in 1-2 stages down the frac string.
 13. Flowback well for 1-3 days, as required
 14. MIRU workover rig. Nipple down frac stack, nipple up BOPs and test.
 15. Release packer and POOH w/ frac string
 16. RIH w/ rock bit and clean out to PBTD at 5,227'
 17. TIH and land production tubing. ND BOPs and NU tree. Pump off expendable check.
 18. RDMO. Get a commingled Fruitland Coal/Mesa Verde flow rate and gas analysis.



HILCORP ENERGY COMPANY
MITCHELL 1E
MESA VERDE RECOMPLETION SUNDRY

MITCHELL 1E - CURRENT WELLBORE SCHEMATIC

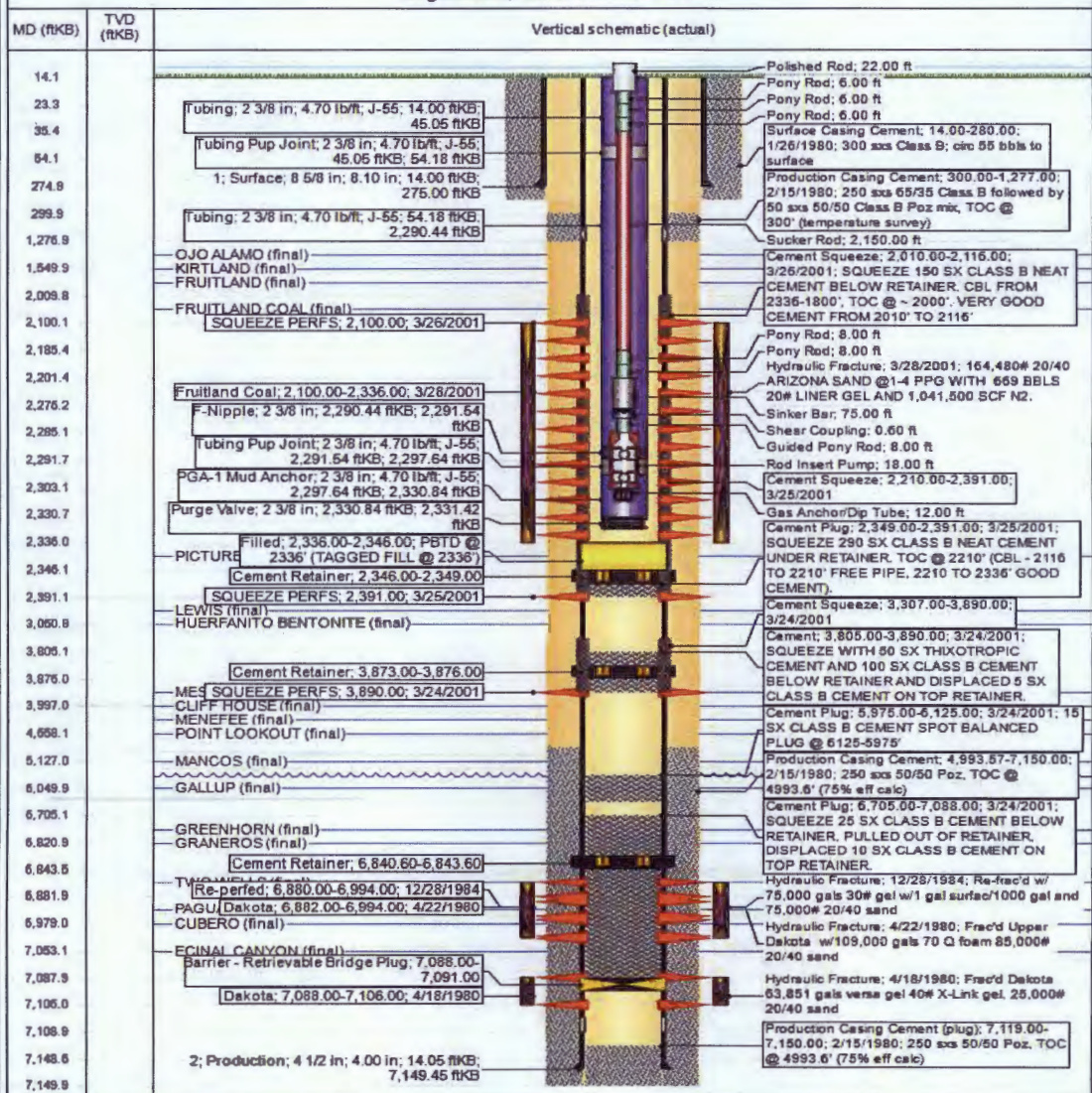


Current Schematic

Well Name: MITCHELL #1E

API / UWI 3004523645	Surface Legal Location 005-031N-012W-F	Field Name BASIN (FRUITLAND COAL)	Route 0201	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,978.00	Original KBBLT Elevation (ft) 5,992.00	AS-Grains Diameter (ft) 14.00	AS-Casing Flange Diameter (ft)	AS-Flange Flange Diameter (ft)	AS-Flange Flange Diameter (ft)

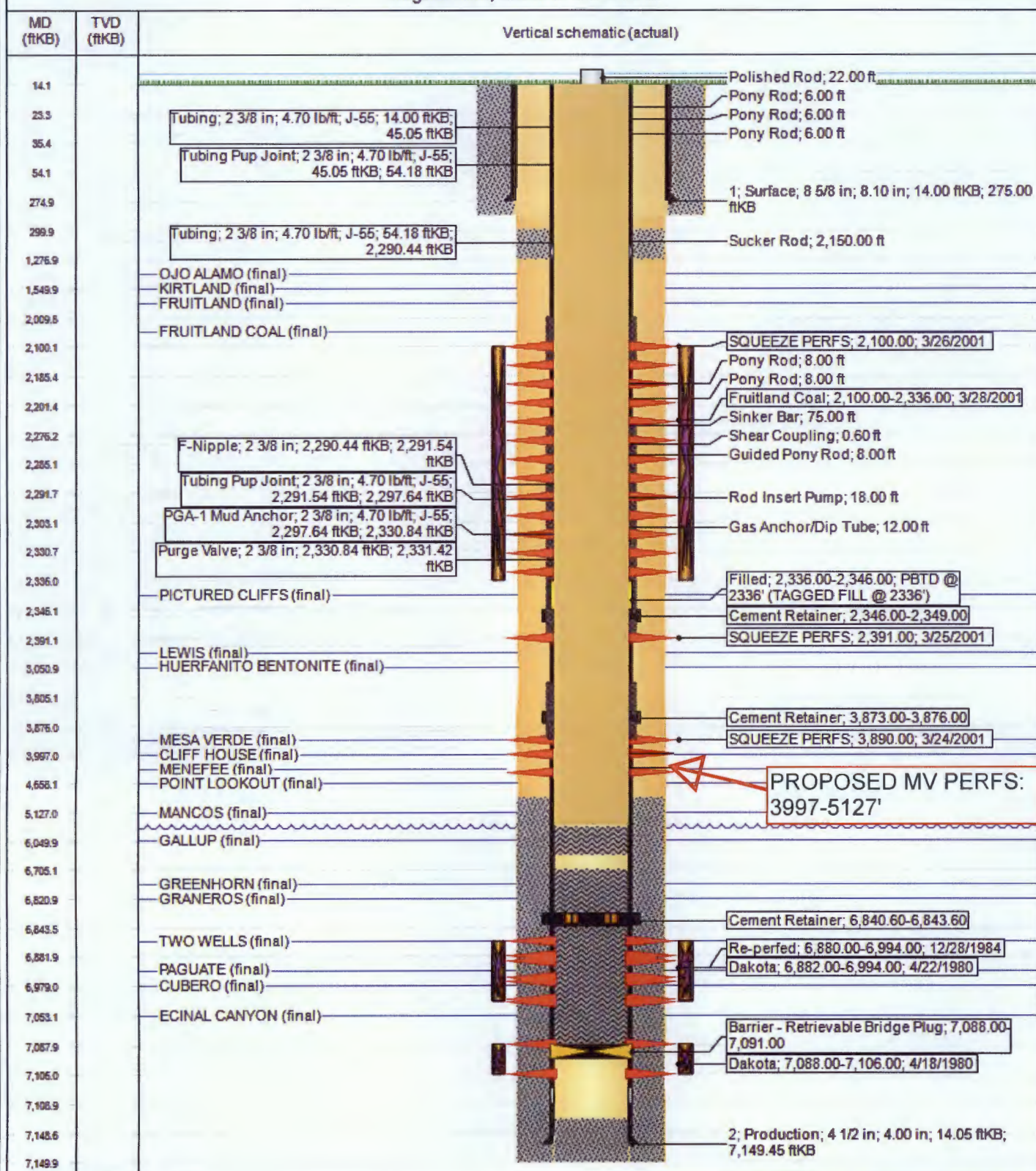
Original Hole, 5/3/2019 12:55:10 PM



Well Name: MITCHELL #1E

API / UWI 3004523645	Surface Legal Location 005-031N-012W-F	Field Name BASIN (FRUITLAND COAL)	Route 0201	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,978.00	Original KB/RT Elevation (ft) 5,992.00	KB-Ground Distance (ft) 14.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole, 5/9/2019 3:17:21 PM



McMillan, Michael, EMNRD

From: Mandi Walker <mwalker@hilcorp.com>
Sent: Friday, May 10, 2019 9:59 AM
To: McMillan, Michael, EMNRD
Cc: Alex Liang; Priscilla Shorty; Rob Carlson
Subject: [EXT] RE: [EXTERNAL] RE: Mitchell 1E - 30-045-23645

That is correct.

From: McMillan, Michael, EMNRD [<mailto:Michael.McMillan@state.nm.us>]
Sent: Friday, May 10, 2019 9:57 AM
To: Mandi Walker <mwalker@hilcorp.com>
Cc: Alex Liang <aliang@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Rob Carlson <rcarlson@hilcorp.com>
Subject: RE: [EXTERNAL] RE: Mitchell 1E - 30-045-23645

Are use using the 4 year method also?
After 4 years you will submit a revised well allocation?

Mike

From: Mandi Walker <mwalker@hilcorp.com>
Sent: Friday, May 10, 2019 9:55 AM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Cc: Alex Liang <aliang@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Rob Carlson <rcarlson@hilcorp.com>
Subject: [EXT] RE: [EXTERNAL] RE: Mitchell 1E - 30-045-23645

Good morning Michael,

Attached please find a current and proposed WB schematic. I also have the allocation justification from our Engineer.

JUSTIFICATION OF ALLOCATION: Hilcorp requests that production for the downhole commingle be allocated using the subtraction method. The base formation is the Basin Fruitland Coal and the added formation to be commingled is the Mesaverde. The subtraction method applies an average monthly production forecast to the base formation(s) using historic production. All production from this well exceeding the forecast will be allocated to the new formation(s). A fixed percentage based allocation will be submitted after the fourth year of production. See attached documents for production forecast. Oil production will be allocated based on average formation yields from offset wells.

Let me know if you need anything from me.

Happy Friday!
Mandi

From: McMillan, Michael, EMNRD [<mailto:Michael.McMillan@state.nm.us>]
Sent: Thursday, May 9, 2019 1:53 PM
To: Mandi Walker <mwalker@hilcorp.com>
Cc: Alex Liang <aliang@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Rob Carlson <rcarlson@hilcorp.com>
Subject: RE: [EXTERNAL] RE: Mitchell 1E - 30-045-23645

I need a current and proposed wellbore diagram

From: Mandi Walker <mwalker@hilcorp.com>
Sent: Thursday, May 9, 2019 12:37 PM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Cc: Alex Liang <aliang@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Rob Carlson <rcarlson@hilcorp.com>
Subject: [EXT] RE: [EXTERNAL] RE: Mitchell 1E - 30-045-23645

My mistake Michael,

The letter from our Land department did not make it in the attachments, I have attached it now. The ownership is identical and no notification is required.

Thank you
Mandi

From: McMillan, Michael, EMNRD [<mailto:Michael.McMillan@state.nm.us>]
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Cc: Alex Liang <aliang@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Rob Carlson <rcarlson@hilcorp.com>
Subject: [EXTERNAL] RE: Mitchell 1E - 30-045-23645

Where is notification information?

From: McMillan, Michael, EMNRD
Sent: Thursday, May 9, 2019 11:04 AM
To: Mandi Walker <mwalker@hilcorp.com>
Cc: Alex Liang <aliang@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Rob Carlson <rcarlson@hilcorp.com>
Subject: RE: Mitchell 1E - 30-045-23645

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Put gas and water on a single sheet

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Subject: [EXT] Mitchell 1E - 30-045-23645

Good morning Michael,

Attached please find the application for the DHC to commingle the existing FC with the MV Recomplete we are planning.

Thank you,

Mandi Walker
SJ North Operations/Regulatory Technician
Hilcorp Energy Company
505.324.5122
mwalker@hilcorp.com

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Attachments: Mitchell 1E_MV Recomplete_NOI_050319.pdf

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Production Summary Report
 API: 30-045-27385
 A B GEREN #002

Year	Pool	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I
9/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	0	2988	0	30
10/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	0	3125	0	31
11/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	0	2998	0	30
12/1/2018	[71629] BASIN FRUITLAND COAL (GAS)	0	2775	0	30
1/1/2019	[71629] BASIN FRUITLAND COAL (GAS)	0	2534	0	30
2/1/2019	[71629] BASIN FRUITLAND COAL (GAS)	0	2860	0	28
Cum		109	1081327	1204	

Production Summary Report
 API: 30-045-27385
 A B GEREN #002

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