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Hilcorp Energy Company

PRODUCTION ALLOCATION FORM

Distribution:
NMOCD Original
BLM 5 Copies
Accounting
Well File
Revised: March 9, 2018

Status
PRELIMINARY ☒
FINAL ☐
REVISED ☐

Commingle Type
SURFACE ☐ DOWNHOLE ☒
Type of Completion
NEW DRILL ☐ RECOMPLETION ☒ PAYADD ☐ COMMINGLE ☐

Date: **4/4/2018**

API No. **30-039-23479**
DHC No. **DHC 4732**
Lease No. **Jicarilla 150**

Well Name
Jicarilla 150

Well No.
8E

Unit Letter	Section	Township	Range	Footage	County, State
I	**02**	**T26N**	**R05W**	**1710'FSL & 810'FEL**	**Rio Arriba, New Mexico**

Completion Date
12/16/2017

Test Method
HISTORICAL ☐ FIELD TEST ☐ PROJECTED ☐ OTHER ☒

JUSTIFICATION OF ALLOCATION: Hilcorp requests that production for the downhole commingle be allocated using the subtraction method. The base formation is the Gallup and Dakota, 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: MV- 91.7%, GP- 5.6%, DK- 2.7%.

APPROVED BY	DATE	TITLE	PHONE
William Tambekou	4/9/2018	Petroleum Engineer	505-564-7746
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Nick Kunze			

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DISTRICT III

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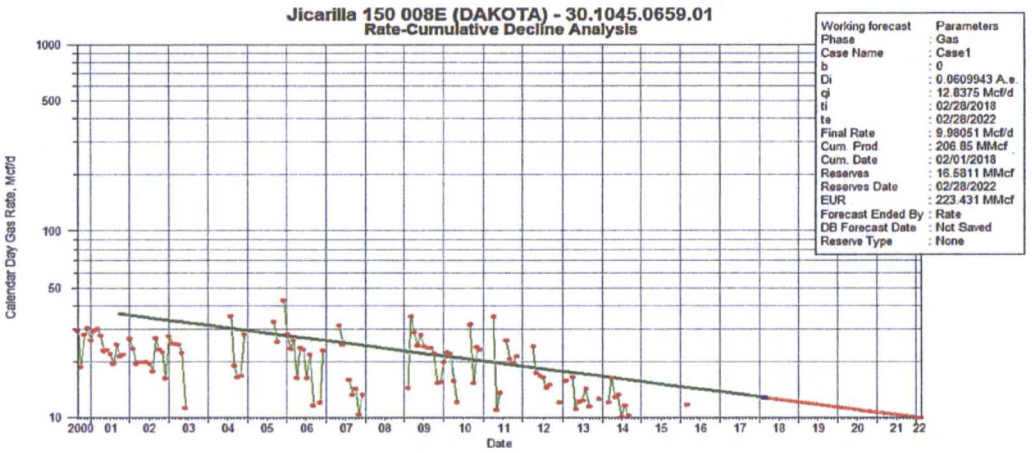
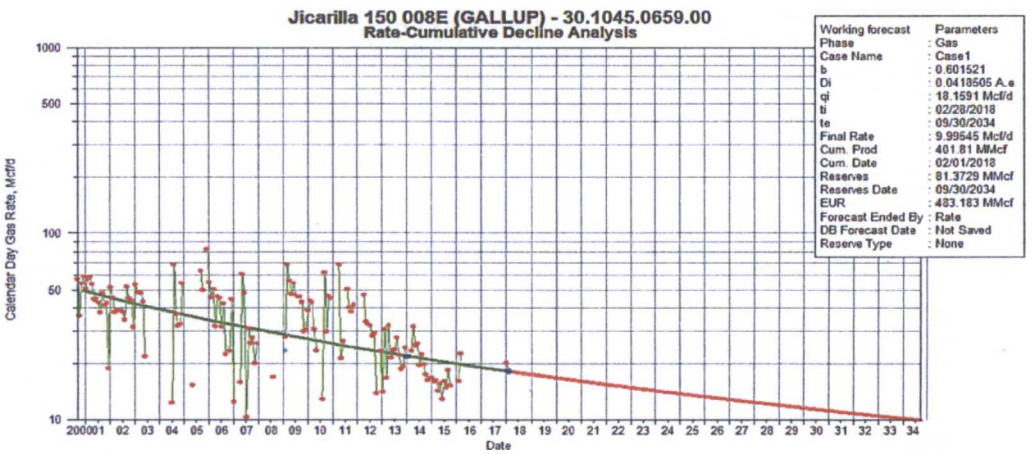
Jicarilla 150 8E Subtraction Allocation

Dakota		Gallup	
Date	Mcfd	Date	Mcfd
Mar-18	12.8	Mar-18	18.13
Apr-18	12.74	Apr-18	18.06
May-18	12.67	May-18	18
Jun-18	12.6	Jun-18	17.93
Jul-18	12.54	Jul-18	17.87
Aug-18	12.47	Aug-18	17.8
Sep-18	12.4	Sep-18	17.74
Oct-18	12.34	Oct-18	17.68
Nov-18	12.28	Nov-18	17.61
Dec-18	12.21	Dec-18	17.55
Jan-19	12.15	Jan-19	17.49
Feb-19	12.08	Feb-19	17.43
Mar-19	12.02	Mar-19	17.37
Apr-19	11.96	Apr-19	17.31
May-19	11.9	May-19	17.25
Jun-19	11.83	Jun-19	17.19
Jul-19	11.77	Jul-19	17.13
Aug-19	11.71	Aug-19	17.07
Sep-19	11.65	Sep-19	17.01
Oct-19	11.59	Oct-19	16.95
Nov-19	11.53	Nov-19	16.89
Dec-19	11.47	Dec-19	16.83
Jan-20	11.41	Jan-20	16.77
Feb-20	11.35	Feb-20	16.72
Mar-20	11.29	Mar-20	16.66
Apr-20	11.23	Apr-20	16.6
May-20	11.17	May-20	16.55
Jun-20	11.11	Jun-20	16.49
Jul-20	11.05	Jul-20	16.43
Aug-20	10.99	Aug-20	16.38
Sep-20	10.94	Sep-20	16.32
Oct-20	10.88	Oct-20	16.27
Nov-20	10.82	Nov-20	16.21
Dec-20	10.77	Dec-20	16.16
Jan-21	10.71	Jan-21	16.1
Feb-21	10.65	Feb-21	16.05
Mar-21	10.6	Mar-21	16
Apr-21	10.54	Apr-21	15.94
May-21	10.49	May-21	15.89
Jun-21	10.43	Jun-21	15.84
Jul-21	10.38	Jul-21	15.78
Aug-21	10.32	Aug-21	15.73
Sep-21	10.27	Sep-21	15.68
Oct-21	10.22	Oct-21	15.63
Nov-21	10.16	Nov-21	15.58
Dec-21	10.11	Dec-21	15.52
Jan-22	10.06	Jan-22	15.47
Feb-22	10	Feb-22	15.42

Base formations are the Dakota/Gallup. 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 exceding the forecast will be allocated to the new formation. Oil production will be allocated based on average formation yields from offset wells.





Formation	Yield (bbl/MM)	Remaining Reserves (MMcf)	% Oil Allocation
DK	8.4	16.6	2.7%
Gallup	3.6	81.37	5.6%
MV	3.84	1250	91.7%