

RECEIVED: 5/30/2018	REVIEWER: MAM	TYPE: DHC	APP NO: PMAM1815235036
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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: Allison Unit 145H **API:** 30-045-29363
Pool: Wildcat Kirtland **Pool Code:** 98280

**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

MAY 31 2018 AM 11:30

DHC

- 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

Date

(713)209-2400

Phone Number

tjacques@hilcorp.com

e-mail Address

Signature

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
Operator

382 Road 3100, Aztec NM 87410
Address

Allison Unit
Lease

145H
Well No.

M - 07 - 32N - 06W
Unit Letter-Section-Township-Range

San Juan
County

OGRID No. 372171 Property Code 98280 API No. 30-045-29363 Lease Type: ☒ Federal ☐ State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wildcat 32N6W7 Kirtland		Basin Fruitland Coal
Pool Code	98280		71629
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2,600' - 2,820' TVD (Openhole)		2,820' - 3,200' TVD (Openhole)
Method of Production (Flowing or Artificial Lift)	Artificial Lift (Non Productive)		Artificial Lift
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)	N/A		N/A
Oil Gravity or Gas BTU (Degree API or Gas BTU)	985 BTU (estimated)		985 BTU
Producing, Shut-In or New Zone	New Zone		Producing
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.)			5/29/2018: 12 MCFD, 0 BOPD, 0 BWPD
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 0% 0%	Oil Gas	Oil Gas 100% 100%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐
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 John Brown TITLE Reservoir Engineer DATE 5/29/2018

TYPE OR PRINT NAME John Brown TELEPHONE NO. (713) 209-2400

E-MAIL ADDRESS jbrown@hilcorp.com

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

Form C-102
August 1, 2011

Permit 252859

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-29363	2. Pool Code 98280	3. Pool Name WC32N6W7; KIRTLAND
4. Property Code 318864	5. Property Name ALLISON UNIT	6. Well No. 145H
7. OGRID No. 372171	8. Operator Name HILCORP ENERGY COMPANY	9. Elevation 6519

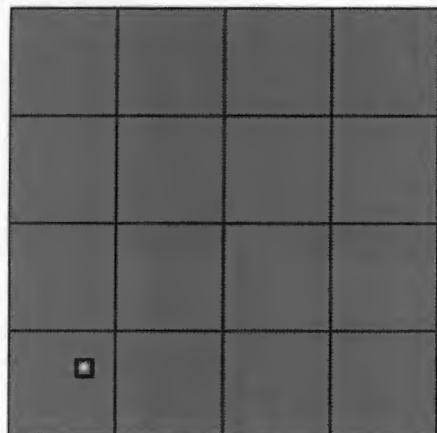
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	7	32N	06W		880	S	925	W	SAN JUAN

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
Multiple Fruitland Bottom Hole Locations. See Attached									
12. Dedicated Acres 549.74	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



OPERATOR CERTIFICATION

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.

E-Signed By: *Priscilla Shorty*
Title: Operations Regulatory Technician - Sr.
Date: 05/30/2018

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.

Surveyed By: Glen Russell
Date of Survey: 3/9/2018
Certificate Number: 15703

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
611 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-29363		² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL LATERAL 1
⁴ Property Code 318864	⁵ Property Name ALLISON UNIT		⁶ Well Number 145 H
⁷ GRID No. 372171	⁸ Operator Name HILCORP ENERGY COMPANY		⁹ Elevation 6519'

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
M	7	32-N	6-W	7	880	SOUTH	925	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
B	13	32-N	7-W		197	NORTH	1777	EAST	SAN JUAN

¹² Dedicated Acres PROJECT AREA 1,707.11 ACRES SEE DETAIL BELOW	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-8768-C
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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

¹⁶ DETAIL:

SEC. 12 T32N-R7W - LOTS 1-2, SE/4 = 199.55 ACRES
SEC. 13 T32N-R7W - E/2 = 320.00 ACRES
SEC. 7 T32N-R6W - LOTS 1-7, E/2 SW/4, SE/4 NW/4, S/2 NE/4, SE/4 = 549.74 ACRES
SEC. 16 T32N-R6W - LOTS 1-4, E/2 W/2, E/2 = 637.82 ACRES

SURFACE

LATITUDE: 36°59.3992' N
LONGITUDE: 107°30.3216' W
NAD27

LATITUDE: 36.989992° N
LONGITUDE: 107.505966° W
NAD83

FIRST TAKE

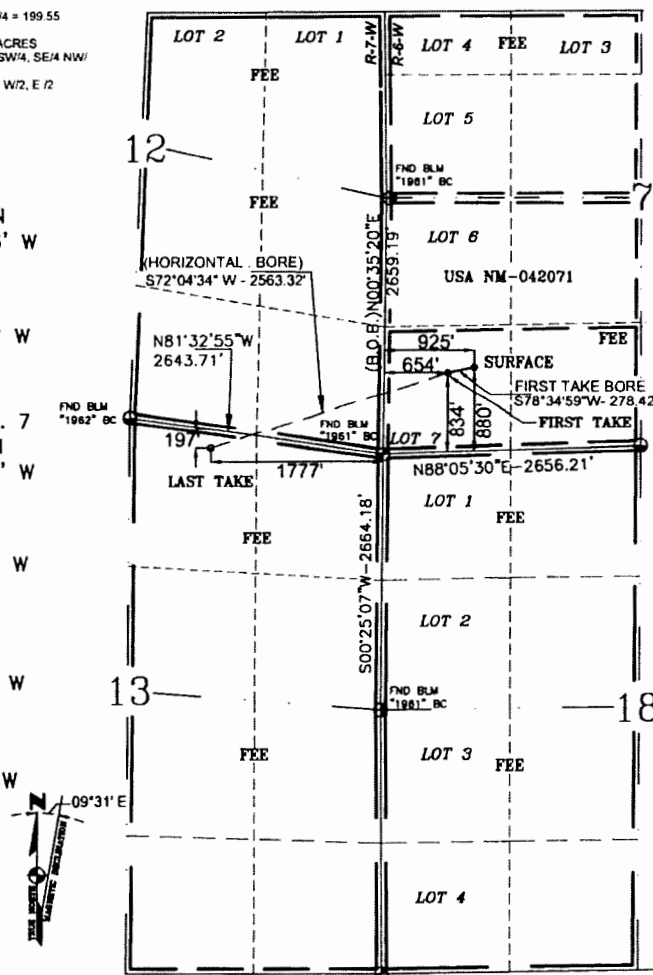
834' FSL 654' FWL SEC. 7
LATITUDE: 36°59.3901' N
LONGITUDE: 107°30.3776' W
NAD27

LATITUDE: 36.989841° N
LONGITUDE: 107.506900° W
NAD83

LAST TAKE

LATITUDE: 36°59.2603' N
LONGITUDE: 107°30.8785' W
NAD27

LATITUDE: 36.987676° N
LONGITUDE: 107.515248° W
NAD83



¹⁷ OPERATOR CERTIFICATION

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 or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Ray 04/17/18
Signature Date
Amanda Ray
Printed Name
mray@hilcorp.com
E-mail Address

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.

MARCH 9, 2018
Date of Survey

Signature and Seal of



GLEN W. RUSSELL

Certificate Number

15703

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-8181 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-29363	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL LATERAL 1 SIDETRACK 1
⁴ Property Code 318864	⁵ Property Name ALLISON UNIT	⁶ Well Number NMOCD 145 H
⁷ OGRID No. 372171	⁸ Operator Name HILCORP ENERGY COMPANY	⁹ Elevation 6519'

¹⁰ Surface Location **DISTRICT III**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	32-N	6-W	7	880	SOUTH	925	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
H	13	32-N	7-W		1727	NORTH	931	EAST	SAN JUAN

¹² Dedicated Acres PROJECT AREA 1,707.11 ACRES SEE DETAIL BELOW	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-8768-C
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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

¹⁶ DETAIL:

SEC. 12 T32N-R7W - LOTS 1-2, SE/4 = 199.55 ACRES
SEC. 13 T32N-R7W - E/2 = 320.00 ACRES
SEC. 7 T32N-R6W - LOTS 1-7, E/2 SW/4, SE/4 NW/4, S/2 NE/4, SE/4 = 549.74 ACRES
SEC. 18 T32N-R6W - LOTS 1-4, E/2 W/2, E/2 = 637.82 ACRES

SURFACE

LATITUDE: 36°59.3992' N
LONGITUDE: 107°30.3216' W
NAD27

LATITUDE: 36.989992° N
LONGITUDE: 107.505966° W
NAD83

FIRST TAKE

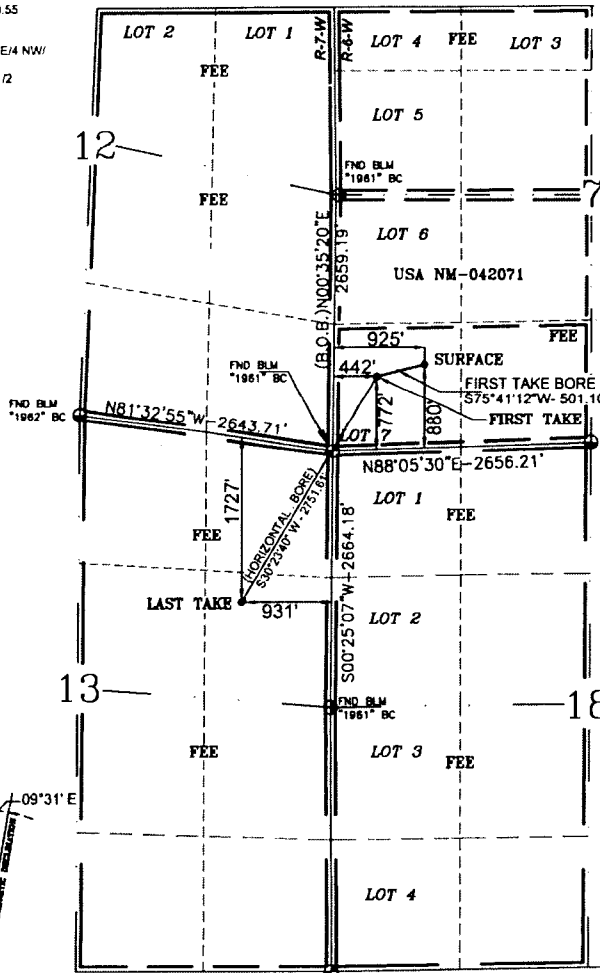
772' FSL 442' FWL SEC. 7
LATITUDE: 36°59.3788' N
LONGITUDE: 107°30.4213' W
NAD27

LATITUDE: 36.989652° N
LONGITUDE: 107.507628° W
NAD83

LAST TAKE

LATITUDE: 36°58.9879' N
LONGITUDE: 107°30.7073' W
NAD27

LATITUDE: 36.983136° N
LONGITUDE: 107.512395° W
NAD83



¹⁷ OPERATOR CERTIFICATION

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 or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Ray 4/17/18
Signature Date

Amanda Ray
Printed Name
mray@hilcorp.com
E-mail Address

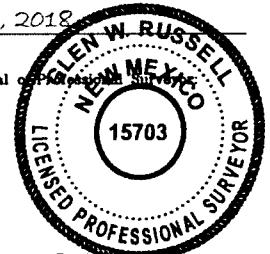
¹⁸ SURVEYOR CERTIFICATION

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.

MARCH 12, 2018

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL

Certificate Number

15703

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-8181 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
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Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-29363		*Pool Code 71629		*Pool Name BASIN FRUITLAND COAL LATERAL 2	
*Property Code 318864		*Property Name ALLISON UNIT			*Well Number 145 H
*GRID No. 372171		*Operator Name HILCORP ENERGY COMPANY			*Elevation 6519'

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
M	7	32-N	6-W	7	880	SOUTH	925	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
A	18	32-N	6-W		504	NORTH	1208	EAST	SAN JUAN

¹² Dedicated Acres PROJECT AREA: 1,707.11 ACRES SEE DETAIL BELOW		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-8768-C
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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

¹⁶ DETAIL:

SEC. 12 T32N-R7W - LOTS 1-2, SE/4 = 199.55 ACRES
SEC. 13 T32N-R7W - E/2 = 320.00 ACRES
SEC. 7 T32N-R6W - LOTS 1-7, E/2 SW/4, SE/4 NW/4, S/2 NE/4, SE/4 = 549.74 ACRES
SEC. 18 T32N-R6W - LOTS 1-4, E/2 W/2, E/2 = 637.82 ACRES

SURFACE

LATITUDE: 36°59.3992' N
LONGITUDE: 107°30.3216' W
NAD27

LATITUDE: 36.989992° N
LONGITUDE: 107.505966° W
NAD83

FIRST TAKE

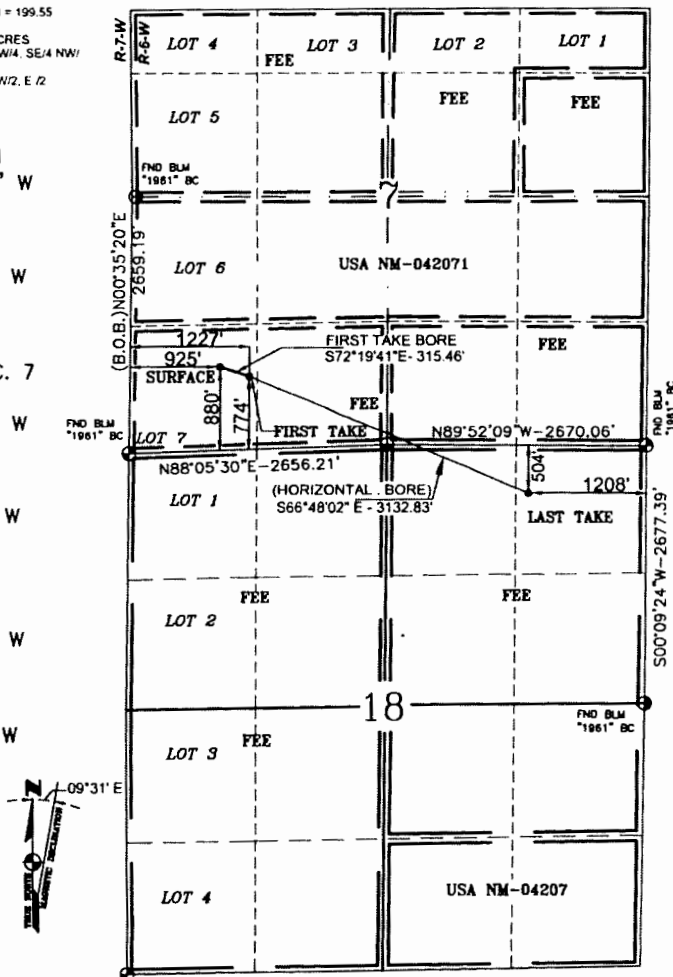
774' FSL 1227' FWL SEC. 7
LATITUDE: 36°59.3834' N
LONGITUDE: 107°30.2599' W
NAD27

LATITUDE: 36.989729° N
LONGITUDE: 107.504937° W
NAD83

LAST TAKE

LATITUDE: 36°59.1800' N
LONGITUDE: 107°29.6686' W
NAD27

LATITUDE: 36.986338° N
LONGITUDE: 107.495083° W
NAD83



¹⁷ OPERATOR CERTIFICATION

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 undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Ray 4/17/18
Signature Date

Amanda Ray
Printed Name

mrav@hilcorp.com
E-mail Address

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.

MARCH 10, 2018
Date of Survey

Signature and Seal of



GLEN W. RUSSELL
Certificate Number 15703

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-29363		² Pool Code 71629		³ Pool Name BASIN FRUITLAND OPERAL 2 SIDETRACK 1	
⁴ Property Code 318864		⁵ Property Name ALLISON UNIT			⁶ Well Number 145 H
⁷ OGRID No. 372171		⁸ Operator Name HILCORP ENERGY COMPANY			⁹ Elevation 6519'

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
M	7	32-N	6-W	7	880	SOUTH	925	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
G	18	32-N	6-W		2004	NORTH	2491	EAST	SAN JUAN

¹² Dedicated Acres PROJECT AREA 1,707.11 ACRES SEE DETAIL BELOW	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-8768-C
--	-------------------------------	----------------------------------	--

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

¹⁶ DETAIL:
SEC. 12 T32N-R7W - LOTS 1-2, SE/4 = 199.55 ACRES
SEC. 13 T32N-R7W - E/2 = 320.00 ACRES
SEC. 7 T32N-R6W - LOTS 1-7, E/2 SW/4, SE/4 NW/4, S/2 NE/4, SE/4 = 549.74 ACRES
SEC. 18 T32N-R6W - LOTS 1-4, E/2 W/2, E/2 = 637.82 ACRES

SURFACE

LATITUDE: 36°59.3992' N
LONGITUDE: 107°30.3216' W
NAD27

LATITUDE: 36.989992° N
LONGITUDE: 107.505966° W
NAD83

FIRST TAKE

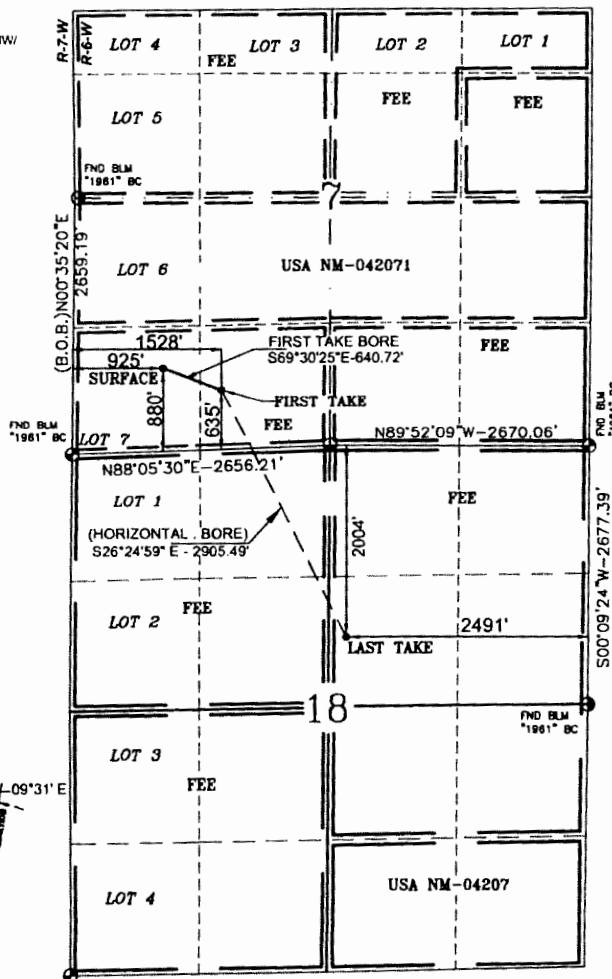
635' FSL 1528' FWL SEC. 7
LATITUDE: 36°59.3622' N
LONGITUDE: 107°30.1983' W
NAD27

LATITUDE: 36.989376° N
LONGITUDE: 107.503912° W
NAD83

LAST TAKE

LATITUDE: 36°58.9335' N
LONGITUDE: 107°29.9331' W
NAD27

LATITUDE: 36.982230° N
LONGITUDE: 107.499491° W
NAD83



17 OPERATOR CERTIFICATION

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 or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Ray 4/17/18
Signature Date
Amanda Ray
Printed Name
mray@hilcorp.com
E-mail Address

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.

MARCH 11, 2018
Date of Survey

Signature and Seal of
GLEN W. RUSSELL
15703
Certificate Number **15703**

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Artec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-29363		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL LATERAL 3	
*Property Code 318864	*Property Name ALLISON UNIT		NMOC	*Well Number 145 H
*GRID No. 372171	*Operator Name HILCORP ENERGY COMPANY		APR 17 2018	*Elevation 6519'

¹⁰ Surface Location

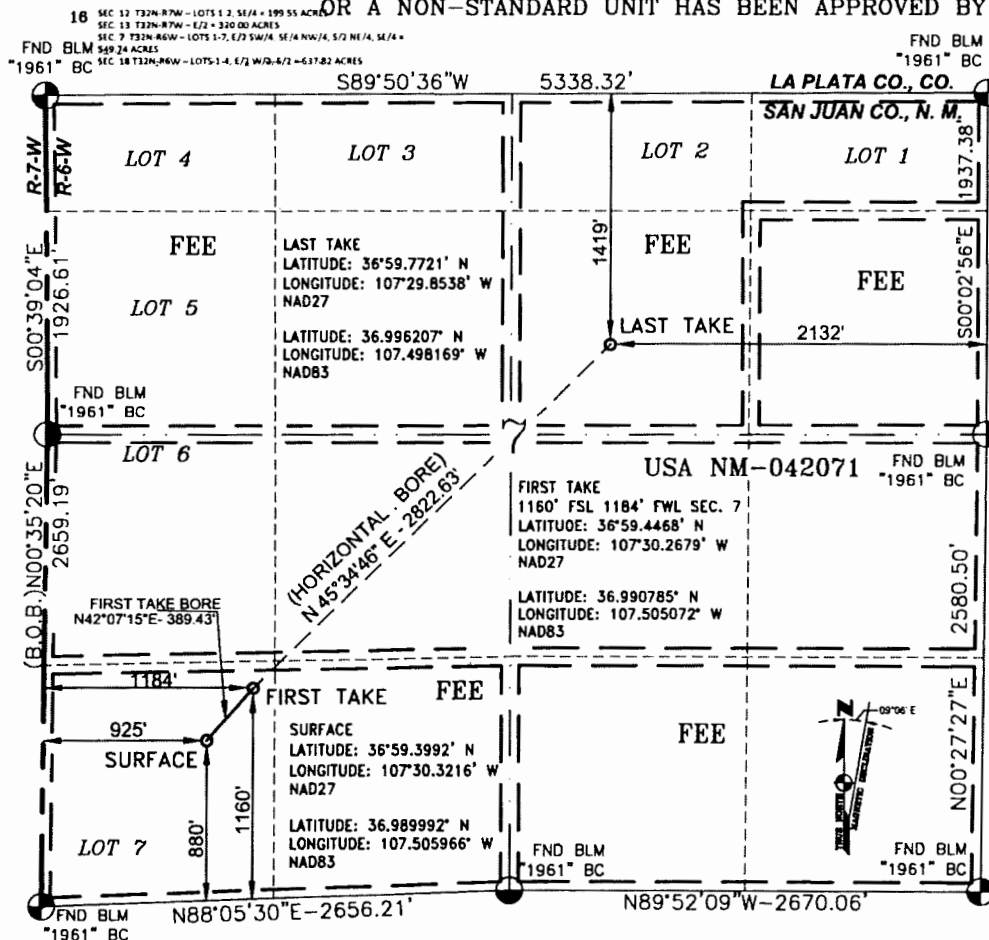
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	32-N	6-W	7	880	SOUTH	925	WEST	SAN JUAN

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
G	7	32-N	6-W		1419	NORTH	2132	WEST	SAN JUAN

¹³ Dedicated Acres PROJECT AREA: 1,707.11 ACRES See Detail Below	¹² Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-8768-C
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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



17 OPERATOR CERTIFICATION

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 or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Ray
 Signature
 Amanda Ray
 Printed Name
 mray@hilcorp.com
 E-mail Address

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.

MARCH 8, 2018

Date of Survey

Signature and Seal



GLEN W. RUSSELL

Certificate Number

15703

ALLISON UNIT 145H
(3004529363)

PROJECT AREA:
1,707.11 ACRES

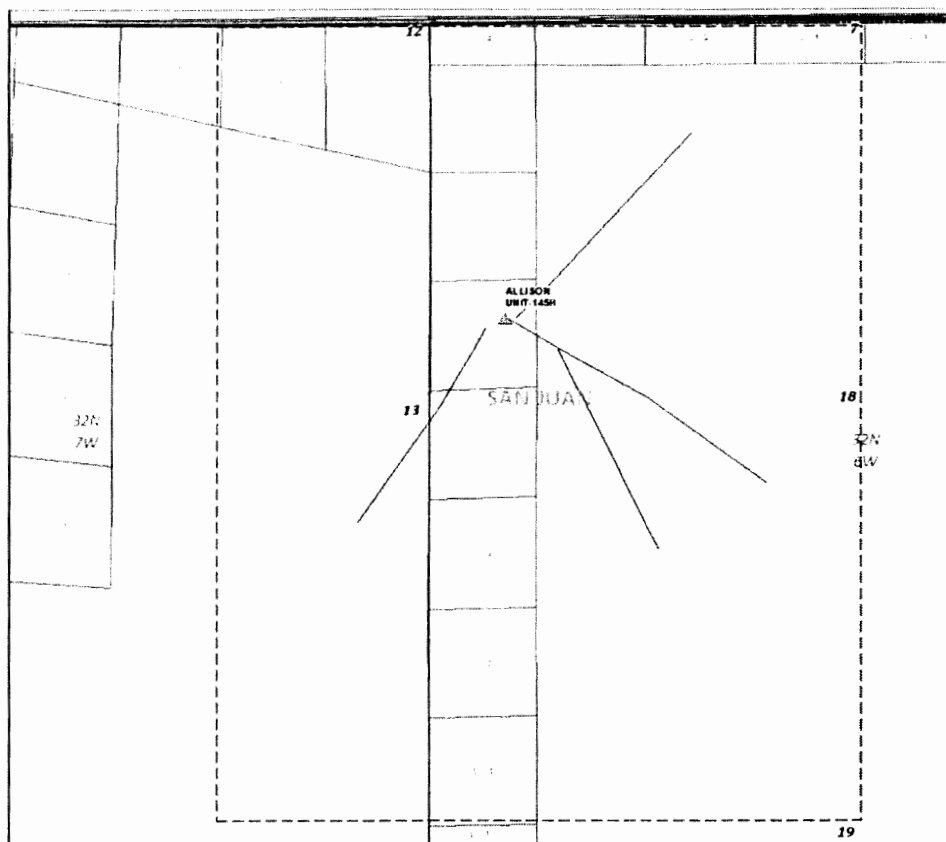
SEC. 12 T32N-R7W –
LOTS 1-2, SE/4 =
199.55 ACRES

SEC. 13 T32N-R7W –
E/2 = 320.00 ACRES

SEC. 7 T32N-R6W –
LOTS 1-7, E/2 SW/4,
SE/4 NW/4, S/2 NE/4,
SE/4 = 549.74 ACRES

SEC. 18 T32N-R6W –
LOTS 1-4, E/2 W/2,
E/2 = 637.82 ACRES

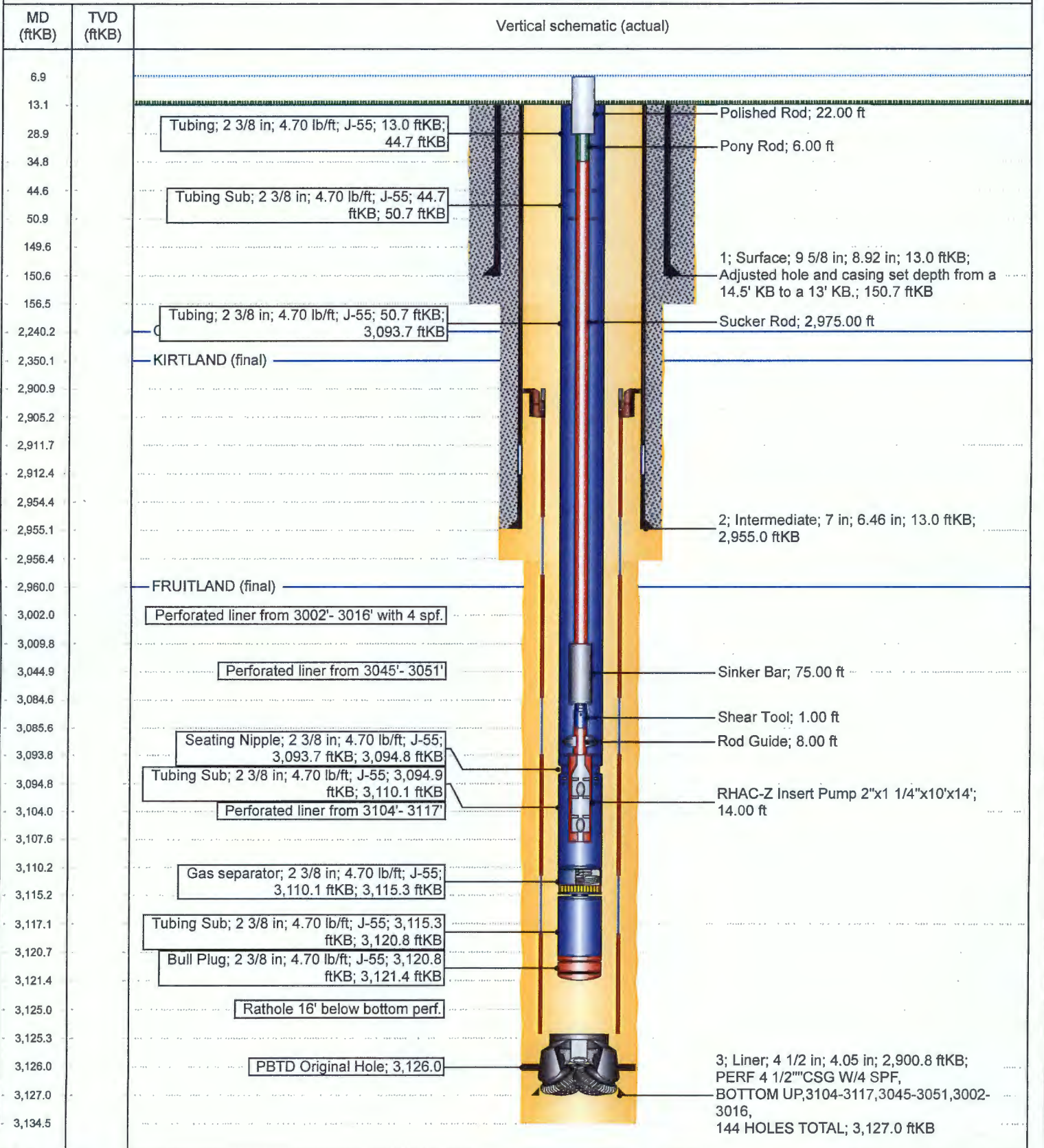
*BOUNDARY DEPICTED
IN RED DASHED LINE.
LATERAL ORIENTATION
NOT EXACT. FOR
REFERENCE ONLY.



Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL)	License No. #3046	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

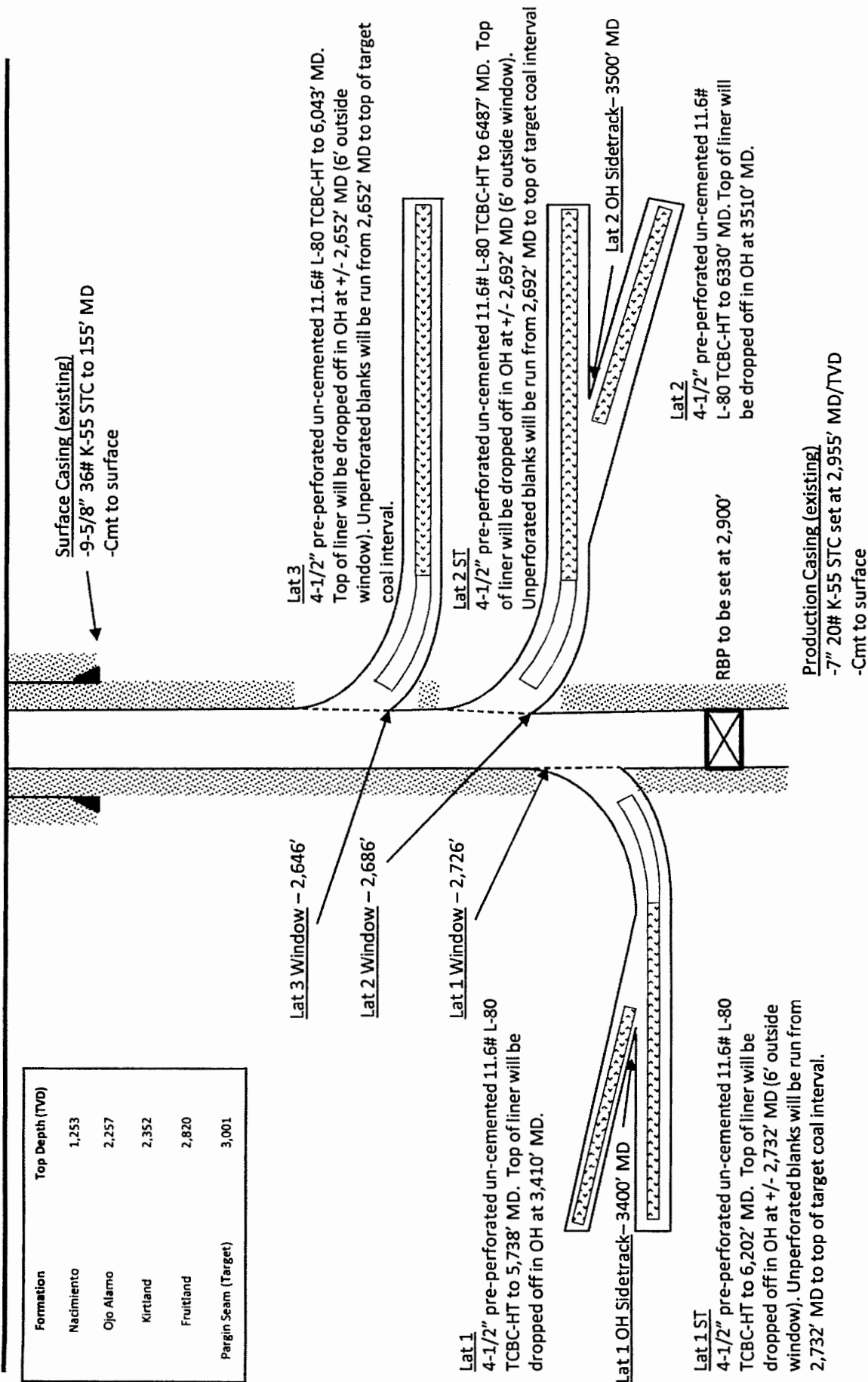
VERTICAL, RE HZ, 5/30/2018 10:38:33 AM





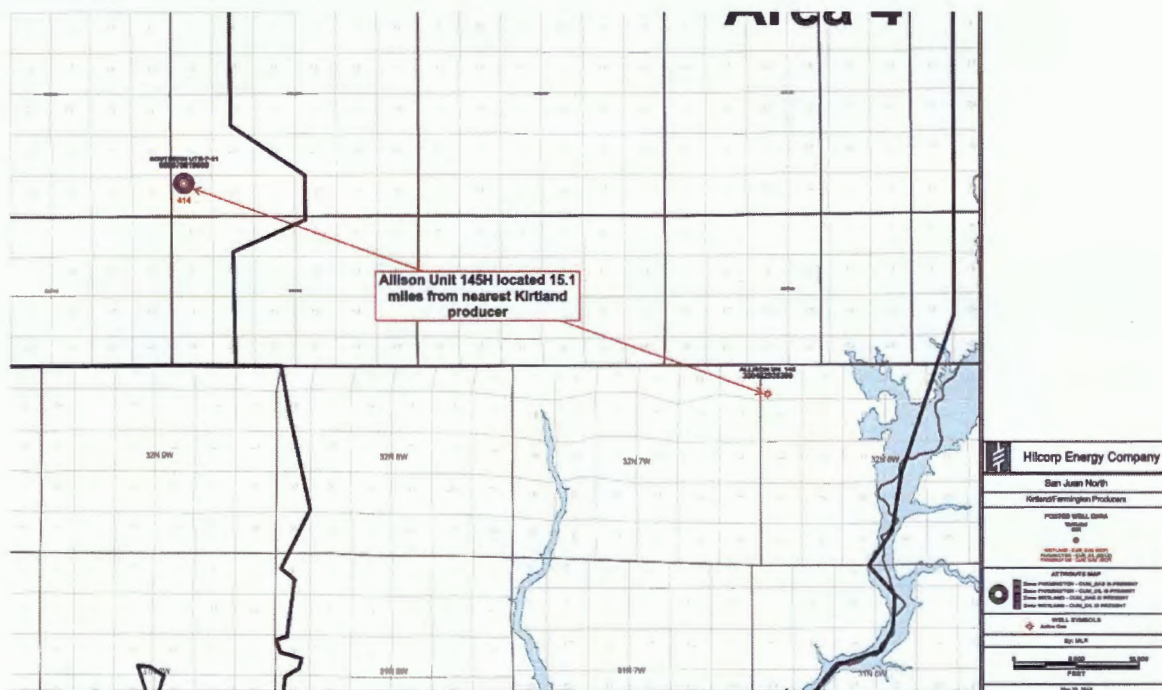
Allison Unit #145H ST Planned Well Schematic

Formation	Top Depth (TVD)
Nacimiento	1,253
Ojo Alamo	2,257
Kirtland	2,352
Fruitland	2,820
Pargin Seam (Target)	3,001



Estimated Production Rate and Supporting Data (Kirtland)

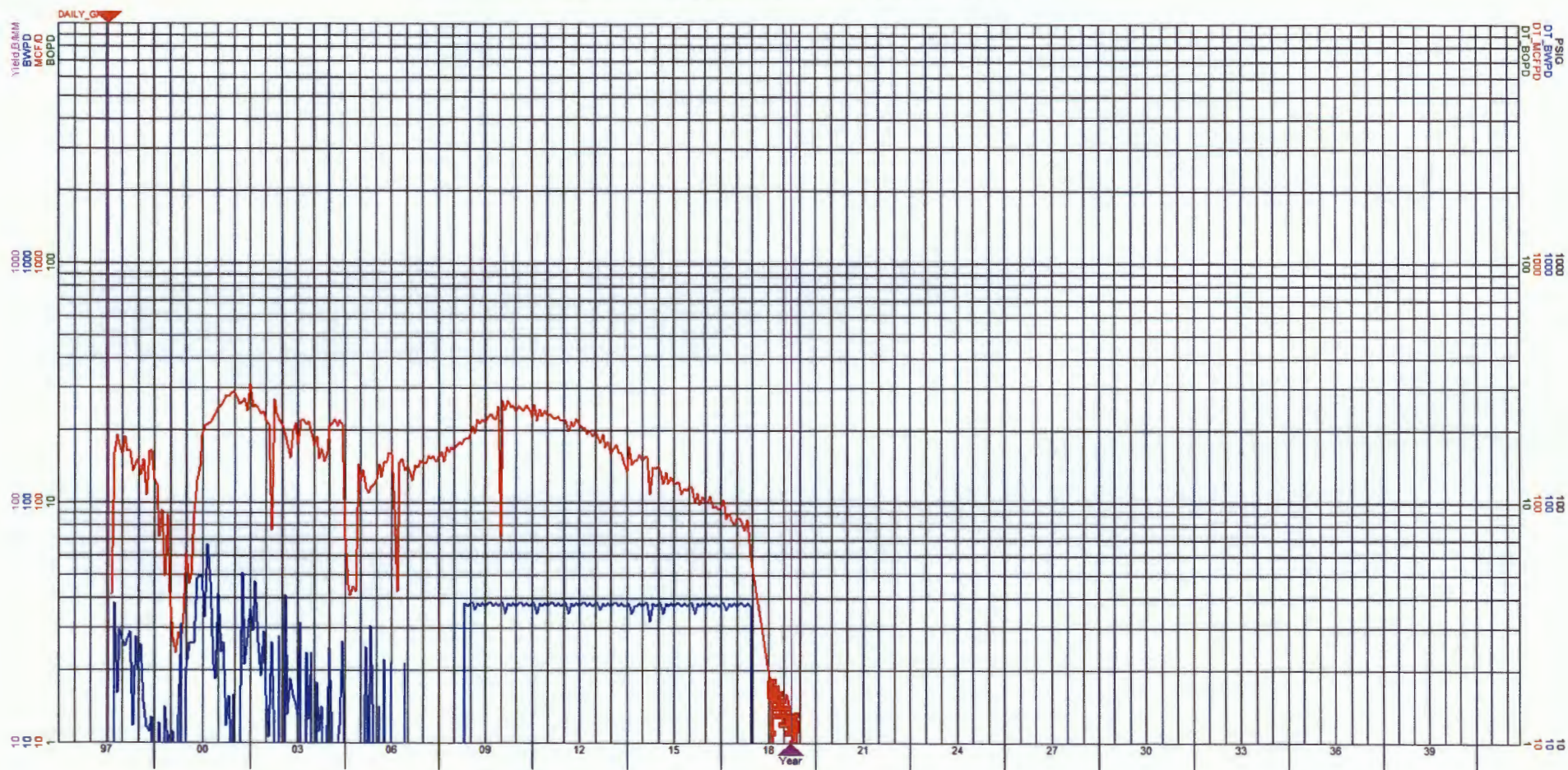
The Kirtland Pool in the Allison Unit 145H is not expected to contribute any gas, oil, or water production over the life of the well. The nearest Kirtland producer is located 15.1 miles away from the Allison Unit 145H. The openhole log from the nearest offset (Allison Unit 24 30-045-13187) indicates that the Kirtland sand is low permeability and not productive based on low SP deflection from baseline and low resistivity. The Allison Unit 24 is located less than 100' away from the Allison Unit 145H. Based on the rock properties from the openhole log and the lack of offset production, we conclude that the Kirtland will not be productive and 100% of gas should be allocated to the Fruitland.



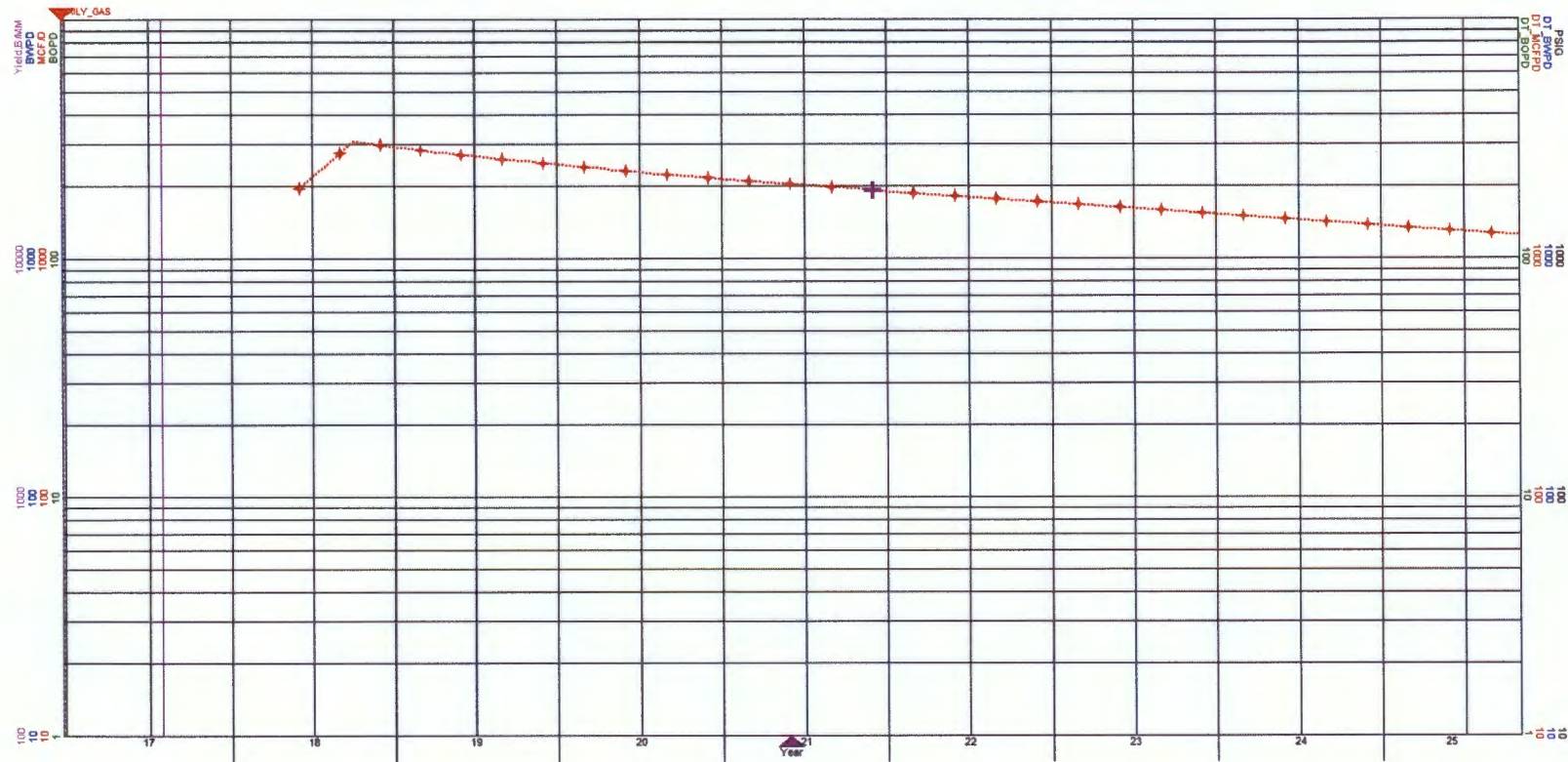
Support of allocation method:

The Kirtland and Fruitland will be open to production. 100% of gas will be allocated to the Fruitland because the Kirtland is not productive based on offset openhole log analysis and offset production data. The offset openhole log that indicates that the Kirtland is tight and not productive was run in a wellbore less than 100' away from the Allison Unit 145H. The Fruitland will be the sole productive formation open in the wellbore, and 100% of production will be allocated to the Fruitland.

Historical Allison Unit 145 Fruitland Production Curve



Estimated Production Rate and Supporting Data (Fruitland)



Results	Fcost
Qual	JFB
Ref	12/2016
Vact	0.000
Vest	267.635
Qbeg	252.694
Qeb	20.000
"b"	0.660000
Dew	-291.838607
Dmin	0.000
Yrs	46.000
Psum	9783707
Cum	0
EUR	9783707

The Fruitland Pool in the Allison Unit 145H is expected to initially flow at 1,900 MCFD and incline to 3,100 MCFD over the course of a four month cleanup and dewatering period. After reaching peak rate of 3,100 MCFD, the well will go on hyperbolic decline according to the profile seen in the plot above. These production estimates are based on the production profile of offset analog horizontal Fruitland producers.



IHS Markit™

Production Report: Summary Production Report

User: John BROWN

Run Date: 2018-05-30

(Total Production ID in this report is 1)



Summary Production Report

Wed May 30, 2018

Production Summary

Data Source:	PI	Country Name:	UNITED STATES
Lease Name:	ALLISON UNIT	Cum Oil:	
Lease Number:	006784	Cum Gas:	1,198,871 MCF
Operator Name:	HILCORP ENERGY COMPANY	Cum Water:	188,764 BBL
State/Prov:	NEW MEXICO	First Production Date:	Aug 01, 1996
County:	SAN JUAN	Last Production Date:	Feb 28, 2018
Field:	BASIN		
Production ID:	SUM0430452936371629		
Reservoir/Pool Name:	FRUITLAND COAL		
Prod Zone:	FRUITLAND COAL		
Basin:	SAN JUAN BASIN (737400)		
Status:	ACTIVE GAS		

Annual Production

Data Source:		PI		
(22 years)		Oil BBLS	Gas MCF	Water BBLS
Beginning Cum:				
1996			21,653	3,364
1997			53,116	6,670
1998			19,769	5,308
1999			58,770	13,704
2000			97,048	7,428
2001			79,172	7,307
2002			69,655	6,309
2003			64,507	4,800
2004			34,422	3,148
2005			47,539	2,558
2006			51,773	31
2007			60,115	3,724
2008			73,197	13,729
2009			87,464	13,691
2010			81,157	13,687
2011			72,338	13,686
2012			59,984	13,685
2013			52,356	13,497
2014			43,175	13,684
2015			36,154	13,684
2016			28,083	13,726
2017			6,539	1,344
2018			885	
TOTALS		-----	-----	-----
			1,198,871	188,764

Monthly Production

Data Source:	PI				
Year	Month	Oil BBLs	Gas MCF	Water BBLs	# of Wells Days On
1996	AUG		1,225	0	1 19
1996	SEP		4,763	1,162	1 30
1996	OCT		5,705	490	1 25
996	NOV		5,181	894	1 30
996	DEC		4,779	818	1 31



Summary Production Report

Wed May 30, 2018

Year	Month	Oil BBLs	Gas MCF	Water BBLs	# of Wells	Days On
Totals 1996			21,653	3,364		
1997	JAN		5,598	769	1	31
1997	FEB		4,870	815	1	28
1997	MAR		4,878	880	1	31
1997	APR		4,016	358	1	30
1997	MAY		4,301	845	1	28
1997	JUN		4,477	620	1	30
1997	JUL		3,874	783	1	31
1997	AUG		4,480	452	1	31
1997	SEP		3,191	354	1	30
1997	OCT		4,850	340	1	31
1997	NOV		4,873	388	1	30
1997	DEC		3,708	66	1	31
Totals 1997			53,116	6,670		
1998	JAN		3,539	248	1	31
1998	FEB		2,122	370	1	28
1998	MAR		2,748	220	1	31
1998	APR		1,463	432	1	30
1998	MAY		2,621	299	1	28
1998	JUN		1,257	321	1	30
1998	JUL		816	338	1	31
1998	AUG		699	162	1	31
1998	SEP		850	395	1	30
1998	OCT		835	949	1	31
1998	NOV		1,015	787	1	30
1998	DEC		1,804	787	1	31
Totals 1998			19,769	5,308		
1999	JAN		1,356	787	1	31
1999	FEB		1,458	787	1	28
1999	MAR		2,654	787	1	28
1999	APR		3,656	1,454	1	30
1999	MAY		4,154	1,494	1	31
1999	JUN		5,611	1,482	1	30
1999	JUL		6,177	1,012	1	31
1999	AUG		6,308	2,023	1	31
1999	SEP		6,381	1,415	1	30
1999	OCT		6,713	645	1	31
1999	NOV		6,964	560	1	30
1999	DEC		7,338	1,258	1	31
Totals 1999			58,770	13,704		
2000	JAN		7,560	727	1	31
2000	FEB		7,741	797	1	29
2000	MAR		8,296	357	1	31
2000	APR		8,211	477	1	30
2000	MAY		8,554	227	1	31
2000	JUN		8,589	483	1	30
2000	JUL		8,174	0	1	31
2000	AUG		7,599	260	1	31
2000	SEP		7,842	1,535	1	30



Summary Production Report

Wed May 30, 2018

Year	Month	Oil BBLs	Gas MCF	Water BBLs	# of Wells	Days On
2000	OCT		8,078	645	1	31
2000	NOV		7,132	830	1	30
2000	DEC		9,272	1,090	1	31
Totals 2000			97,048	7,428		
2001	JAN		7,390	890	1	31
2001	FEB		7,528	1,421	1	28
2001	MAR		7,366	800	1	31
2001	APR		6,967	580	1	30
2001	MAY		7,063	880	1	31
2001	JUN		6,513	480	1	30
2001	JUL		6,315	320	1	31
2001	AUG		2,269	800	1	27
2001	SEP		7,989	296	1	26
2001	OCT		7,043	0	1	31
2001	NOV		6,511	840	1	30
2001	DEC		6,218	0	1	31
Totals 2001			79,172	7,307		
2002	JAN		5,649	1,245	1	31
2002	FEB		5,193	400	1	28
2002	MAR		4,569	560	1	31
2002	APR		5,918	480	1	30
2002	MAY		6,362	440	1	31
2002	JUN		5,172	400	1	30
2002	JUL		6,542	960	1	31
2002	AUG		6,521	0	1	31
2002	SEP		6,290	720	1	30
2002	OCT		6,487	384	1	31
2002	NOV		5,816	720	1	30
2002	DEC		5,136	0	1	31
Totals 2002			69,655	6,309		
2003	JAN		5,576	544	1	31
2003	FEB		4,539	338	1	28
2003	MAR		4,964	432	1	31
2003	APR		4,398	184	1	30
2003	MAY		4,838	360	1	31
2003	JUN		6,198	752	1	30
2003	JUL		6,338	288	1	31
2003	AUG		6,583	288	1	31
2003	SEP		6,178	304	1	30
2003	OCT		6,522	360	1	31
2003	NOV		6,264	806	1	30
2003	DEC		2,109	144	1	31
Totals 2003			64,507	4,800		
2004	JAN		1,347	288	1	31
2004	FEB		1,215	144	1	29
2004	MAR		1,319	72	1	31
2004	APR		1,262	72	1	30
2004	MAY		4,278	72	1	31
2004	JUN		3,643	0	1	30



Summary Production Report

Wed May 30, 2018

Year	Month	Oil BBLs	Gas MCF	Water BBLs	# of Wells	Days On
2004	JUL		4,055	144	1	31
2004	AUG		3,400	760	1	31
2004	SEP		3,254	232	1	30
2004	OCT		3,443	932	1	31
2004	NOV		3,524	288	1	30
2004	DEC		3,682	144	1	31
Totals 2004			34,422	3,148		
2005	JAN		4,274	432	1	31
2005	FEB		3,795	0	1	28
2005	MAR		4,369	676	1	31
2005	APR		4,400	144	1	30
2005	MAY		4,794	0	1	31
2005	JUN		4,755	658	1	30
2005	JUL		2,786	0	1	31
2005	AUG		1,265	0	1	31
2005	SEP		4,342	0	1	30
2005	OCT		4,515	0	1	31
2005	NOV		4,051	648	1	30
2005	DEC		4,193		1	31
Totals 2005			47,539	2,558		
2006	JAN		3,936	0	1	31
2006	FEB		3,648	0	1	28
2006	MAR		4,245	0	1	31
2006	APR		4,170	0	1	30
2006	MAY		4,436	0	1	31
2006	JUN		4,361	0	1	30
2006	JUL		4,307	0	1	31
2006	AUG		4,648	0	1	31
2006	SEP		4,518	0	1	30
2006	OCT		4,657	0	1	31
2006	NOV		4,380	0	1	30
2006	DEC		4,467	31	1	31
Totals 2006			51,773	31		
2007	JAN		4,642	31	1	31
2007	FEB		4,257	28	1	28
2007	MAR		4,890	31	1	31
2007	APR		4,729	30	1	30
2007	MAY		4,979	31	1	31
2007	JUN		4,896	30	1	30
2007	JUL		5,069	31	1	31
2007	AUG		5,209	31	1	31
2007	SEP		5,120	30	1	30
2007	OCT		5,400	1,163	1	31
2007	NOV		5,351	1,125	1	30
2007	DEC		5,573	1,163	1	31
Totals 2007			60,115	3,724		
008	JAN		6,044	1,163	1	31
008	FEB		5,620	1,088	1	29
008	MAR		6,400	1,163	1	31



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Year	Month	Oil BBLs	Gas MCF	Water BBLs	# of Wells	Days On
2008	APR		6,258	1,125	1	30
2008	MAY		6,531	1,163	1	31
2008	JUN		6,379	1,125	1	30
2008	JUL		6,699	1,163	1	31
2008	AUG		6,852	1,163	1	31
2008	SEP		6,604	1,125	1	30
2008	OCT		6,523	1,163	1	31
2008	NOV		7,306	1,125	1	30
2008	DEC		1,981	1,163	1	31
Totals 2008			73,197	13,729		
2009	JAN		7,773	1,163	1	31
2009	FEB		7,075	1,050	1	28
2009	MAR		7,723	1,163	1	31
2009	APR		7,332	1,125	1	30
2009	MAY		7,496	1,163	1	31
2009	JUN		7,102	1,125	1	30
2009	JUL		7,397	1,163	1	31
2009	AUG		7,226	1,163	1	31
2009	SEP		7,092	1,125	1	30
2009	OCT		7,453	1,163	1	31
2009	NOV		7,153	1,125	1	30
2009	DEC		6,642	1,163	1	31
Totals 2009			87,464	13,691		
2010	JAN		7,454	1,163	1	31
2010	FEB		6,379	1,050	1	28
2010	MAR		7,160	1,163	1	31
2010	APR		6,769	1,125	1	30
2010	MAY		7,056	1,163	1	31
2010	JUN		6,804	1,125	1	30
2010	JUL		6,845	1,162	1	31
2010	AUG		6,611	1,162	1	31
2010	SEP		6,597	1,125	1	30
2010	OCT		6,627	1,162	1	31
2010	NOV		6,402	1,125	1	30
2010	DEC		6,453	1,162	1	31
Totals 2010			81,157	13,687		
2011	JAN		6,373	1,163	1	31
11	FEB		5,756	1,050	1	28
11	MAR		6,324	1,162	1	31
1	APR		6,113	1,125	1	30
1	MAY		6,568	1,162	1	31
	JUN		6,192	1,125	1	30
	JUL		6,064	1,162	1	31
	AUG		5,968	1,163	1	31
	SEP		5,646	1,125	1	30
	OCT		5,801	1,162	1	31
	NOV		5,621	1,125	1	30
	DEC		5,912	1,162	1	31
2011			72,338	13,686		



Summary Production Report

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Year	Month	Oil BBLs	Gas MCF	Water BBLs	# of Wells	Days On
2012	JAN		5,641	1,162	1	31
2012	FEB		5,286	1,088	1	29
2012	MAR		5,746	1,162	1	31
2012	APR		5,039	1,125	1	30
2012	MAY		5,324	1,162	1	31
2012	JUN		4,786	1,125	1	30
2012	JUL		5,002	1,162	1	31
2012	AUG		5,187	1,162	1	31
2012	SEP		4,841	1,125	1	30
2012	OCT		4,791	1,162	1	31
2012	NOV		4,328	1,125	1	30
2012	DEC		4,013	1,125	1	30
Totals 2012			59,984	13,685		
2013	JAN		5,094	1,162	1	31
2013	FEB		4,287	1,050	1	28
2013	MAR		4,433	1,125	1	30
2013	APR		4,463	1,125	1	30
2013	MAY		4,693	1,162	1	31
2013	JUN		4,480	1,125	1	30
2013	JUL		4,601	1,162	1	31
2013	AUG		4,602	1,162	1	31
2013	SEP		3,230	975	1	26
2013	OCT		4,168	1,162	1	31
2013	NOV		4,109	1,125	1	30
2013	DEC		4,196	1,162	1	31
Totals 2013			52,356	13,497		
2014	JAN		4,066	1,162	1	31
2014	FEB		3,578	1,050	1	28
2014	MAR		3,989	1,162	1	31
2014	APR		3,555	1,125	1	30
2014	MAY		3,796	1,162	1	31
2014	JUN		3,556	1,125	1	30
2014	JUL		3,581	1,162	1	31
2014	AUG		3,639	1,162	1	31
2014	SEP		3,208	1,125	1	30
2014	OCT		3,410	1,162	1	31
2014	NOV		3,346	1,125	1	30
2014	DEC		3,451	1,162	1	31
Totals 2014			43,175	13,684		
2015	JAN		3,445	1,162	1	31
2015	FEB		2,973	1,050	1	28
2015	MAR		3,246	1,162	1	31
2015	APR		2,916	1,125	1	30
2015	MAY		3,129	1,162	1	31
2015	JUN		2,992	1,125	1	30
2015	JUL		3,004	1,162	1	31
2015	AUG		3,156	1,162	1	31
2015	SEP		2,834	1,125	1	30
2015	OCT		2,852	1,162	1	31
2015	NOV		2,787	1,125	1	30



Summary Production Report

Wed May 30, 2018

Year	Month	Oil BBLs	Gas MCF	Water BBLs	# of Wells	Days On
2015	DEC		2,820	1,162	1	31
Totals 2015			36,154	13,684		
2016	JAN		3,037	1,162	1	31
2016	FEB		2,545	1,088	1	29
2016	MAR		2,679	1,162	1	31
2016	APR		2,509	1,125	1	30
2016	MAY		2,407	1,162	1	31
2016	JUN		2,534	1,125	1	30
2016	JUL		2,547	1,163	1	31
2016	AUG		2,471	1,163	1	31
2016	SEP		2,272	1,125	1	30
2016	OCT		2,506	1,163	1	31
2016	NOV		1,789	1,125	1	30
2016	DEC		787	1,163	1	31
Totals 2016			28,083	13,726		
2017	JAN		741	1,163	1	31
2017	FEB		664	28	1	28
2017	MAR		728	31	1	31
2017	APR		641	30	1	30
2017	MAY		528	31	1	31
2017	JUN		519	30	1	30
2017	JUL		506	31	1	31
2017	AUG		446		1	3
2017	SEP		485		1	30
2017	OCT		433		1	31
2017	NOV		406		1	30
2017	DEC		442		1	31
Totals 2017			6,539	1,344		
2018	JAN		476		1	31
2018	FEB		409		1	28
Totals 2018			885			

Explanation for lack of production curves:

The Allison Unit 145H is a new drill sidetrack, so there is no historical production from either the Kirtland or Fruitland.

Support of allocation method:

The Kirtland and Fruitland will be open to production. 100% of gas will be allocated to the Fruitland because the Kirtland is not productive based on offset openhole log analysis and offset production data. The Fruitland will be the sole productive formation open in the wellbore, and 100% of production will be allocated to the Fruitland.



June 1, 2018

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

Re: Application for Downhole Commingling
Allison Unit 145H
API: 30-045-29363
T32N-R6W-Section 7, Unit Letter: M
San Juan County, NM

Ladies and Gentlemen:

Concerning the subject application, please accept this letter as confirmation that all working, royalty and overriding royalty interests are identical between the Wildcat Kirtland (98280) and Basin Fruitland Coal (71629) in the subject well.

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 'R. Carlson'.

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

Hilcorp Energy Company
ATTN: Rob Carlson
P.O. Box 61229, Houston, TX 77208-1229