

DATE IN 4/14/11	SUSPENSE	ENGINEER WJ	LOGGED IN 4/14/11	TYPE DHC	APP NO. 1110453722
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



RKI

Longview Fed #44

## ADMINISTRATIVE APPLICATION CHECKLIST 30-015-38070

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

### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM  
**COMMON OWNERSHIP**

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify \_\_\_\_\_

### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
 [B] ☐ Offset Operators, Leaseholders or Surface Owner  
 [C] ☐ Application is One Which Requires Published Legal Notice  
 [D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F] ☐ Waivers are Attached

### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **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.

Ben Stone, SOS Consulting

Print or Type Name

Signature

Agent for RKI E&P

Title

4/11/11

Date

ben@sosconsulting.us

e-mail Address



April 11, 2011

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

Attn: Ms. Jamie Bailey, Director

*Re: Applications of RKI Exploration & Production, LLC to downhole commingle production in its Pinnacle State Well No.25 and Longview Federal Well Nos.1-14, 1-34, 1-44 and 6-11 from the South Culebra Bluff Bone Spring and East Hederra Bend Delaware pools.*

Dear Ms. Bailey,

Please find enclosed the above-referenced application(s) for downhole commingling on Form C-107A and all supporting data.

RKI Exploration & Production seeks to continually optimize efficiency, both economically and operationally, of its operations. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

The Pinnacle State and Longview Federal properties are individually owned by the applicant or its wholly owned subsidiaries. The surface is owned by the State of New Mexico and U.S. Department of the Interior, Bureau of Land Management respectively. Royalties to the state or federal government will not be reduced as a result of this commingling. A copy of this application has been furnished to the Commissioner of Public Lands at the State Land Office as well as the Bureau of Land Management, Carlsbad office. ***Please note that production between leases will not be commingled.***

The existing wellbores of the subject wells are currently completed in the Bone Spring formation and RKI intends to perforate and complete the Delaware portion by April 2011 and will immediately conduct production tests on that zone. The vertical extents of separation between completions in the subject formations is well within the 150-percent guideline however, RKI will provide pressure data as it is available from any additional testing that may be conducted. Monthly well tests will be conducted and the wells may be separately metered in the future.




In the future, RKI further intends to apply for pre-approval for downhole commingling of production from additional Pinnacle wells from the East Hederra Bend Delaware and South Culebra Bluff Bone Spring pools. Production from these pools is mature and predictable in the subject area. Such pre-approval would also lend towards increased efficiencies for RKI as well as the NMOCD. This individual well application will be included as the initial dataset for a pre-approved downhole pool combination application. Due diligence for that effort is ongoing and all data in support of such application will be provided including notification to all operators with ownership in the subject pools.

Finally, RKI will provide recommended fixed allocation percentages for these wells after analysis of the data obtained from upcoming production tests.

I respectfully request that the processing of these applications proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone", written over the printed name.

Ben Stone, Partner  
SOS Consulting, LLC  
Agent for RKI E&P

Cc: State Land Office – Oil & Gas Division  
Bureau of Land Management - Carlsbad Office  
Application file





April 11, 2011

Bureau of Land Management  
Carlsbad Field Office  
Oil & Gas Section  
620 E. Greene St.  
Carlsbad, New Mexico 88220

Attn: Mr. Wesley Ingram, Supervisory Petroleum Engineer

*Re: Application of RKI Exploration & Production, LLC to downhole commingle production in its Longview Federal Well Nos. 1-14, 1-34, 1-44 and 6-11 from the South Culebra Bluff Bone Spring and East Herradura Bend Delaware pools.*

Dear Mr. Ingram,

Please find enclosed a copy of the above-referenced NMOCD application for downhole commingling on Form C-107A and all supporting data.

RKI Exploration & Production seeks to continually optimize efficiency, both economically and operationally, of its operations. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Ownership of the Longview Federal property is individually owned by the applicant or its wholly owned subsidiaries. *The surface is owned U.S. Bureau of Land Management and royalties to the federal government will not be reduced as a result of this commingling.*

The existing wellbores of the Longview Federal wells are currently completed in the Bone Spring formation and RKI intends to perforate and complete the Delaware portion by April or May 2011 and will immediately conduct production tests on that zone. The vertical extents of separation between completions in the subject formations is well within the 150-percent guideline however, RKI will provide pressure data as it is available from any additional testing that may be conducted. Monthly well tests will be conducted and the wells may be separately metered in the future.

In the future, RKI further intends to apply for pre-approval for downhole commingling of production from additional Pinnacle wells from the East Herradura Bend Delaware and South Culebra Bluff Bone Spring pools. Production from these pools is mature and




predictable in the subject area. Such pre-approval would also lend towards increased efficiencies for RKI as well as the NMOCD. This individual well application will be included as the initial dataset for a pre-approved downhole pool combination application. Due diligence for that effort is ongoing and all data in support of such application will be provided including notification to all operators with ownership in the subject pools.

Finally, RKI will provide recommended fixed allocation percentages for this well after analysis of the data obtained from upcoming production tests.

If you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone", written over the printed name.

Ben Stone, Partner  
SOS Consulting, LLC  
Agent for RKI E&P

Cc: NMOCD – Engineering Bureau  
Application file



District I  
1625 N. French Drive, Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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

Form C-107A  
Revised June 10, 2003

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

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

APPLICATION FOR DOWNHOLE COMMINGLING

RKI Exploration & Production, LLC

3817 NW Expressway, Suite 950, Oklahoma City, OK 73112

Operator

Address

Longview '1' Federal Well No.44

UL 'P', Section 1, Twp 23 South, Rng 28 East

Eddy County

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 246289 Property Code 37873 API No. 30 - 015 - 38070 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE <i>Hederra</i>	INTERMEDIATE ZONE	LOWER ZONE <i>UNDES</i>
Pool Name	East Hederra Bend; Delaware		South Culebra Bluff; Bone Spring
Pool Code	30670		15011
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	~5950' - ~6265' Perf		7424' - 7452' Perf
Method of Production (Flowing or Artificial Lift)	Artificial lift		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)			Not required per 150% rule
Oil Gravity or Gas BTU (Degree API or Gas BTU)	New zone (Inferred data Oil ~42.5; Gas ~1215		Oil ~42.5; Gas ~1250
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.)	Date: Estimates inferred Rates: (data attached)	Date: Rates:	Date: 11/30/2010 Rates: 10 o / 68 g / 38 w Per day
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 TBD % TBD %	Oil Gas % %	Oil Gas TBD % TBD %

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: \_\_\_\_\_

NSL-6246

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 *Ben Stone* TITLE Agent for RKI E&P DATE 4/07/2011

TYPE OR PRINT NAME Ben Stone TELEPHONE NO. ( 903 ) 488-9850

E-MAIL ADDRESS ben@sosconsulting.us





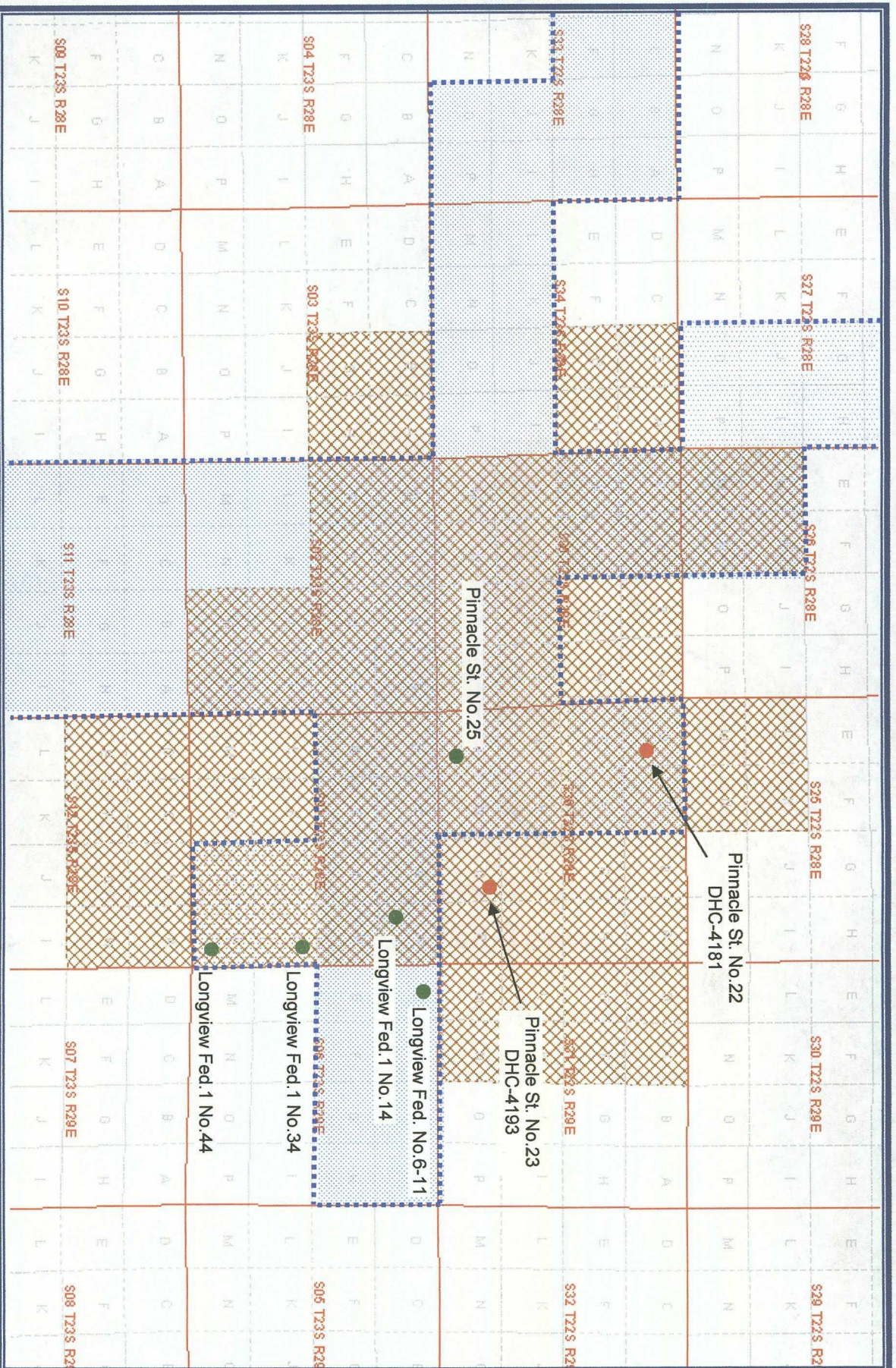
**Pinnacle State and Longview Federal Well Locations**  
**East Herradura Bend Delaware Pool – 30670 / South Culebra Bluff Bone Spring Pool - 15011**



## Attachment to C-107a for Downhole Commingling of Pool Production

● WELLS CURRENTLY APPLIED FOR DHC IN SUBJECT POOLS

● WELLS PREVIOUSLY APPROVED FOR DHC IN SAME POOLS



GIS Map by Sylvan Ascent  
 Drawn 4/7/2011  
 by Ben Stone, SOS Consulting, LLC  
 For RKI Exploration & Production



Pool boundaries generated  
 from RBDMS database with  
 most current nomenclature  
 provided by NMOCD



## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, Artesia, NM 88210

## District III

1000 Rio Brazos Rd., Aztec, NM 87410

## District IV

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

## State of New Mexico

Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-38070	<sup>2</sup> Pool Code 15011	<sup>3</sup> Pool Name South Culebra Bluff Bone Spring
<sup>4</sup> Property Code 37873	<sup>5</sup> Property Name Longview Federal '1'	<sup>6</sup> Well Number 44
<sup>7</sup> OGRID No. 246289	<sup>8</sup> Operator Name RKI Exploration & Production, LLC	<sup>9</sup> Elevation 3039 feet

<sup>10</sup> Surface Location

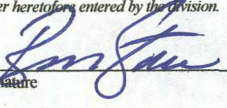
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	1	23-S	28-E		360	South	330	East	Eddy

<sup>11</sup> Bottom Hole Location If Different From Surface


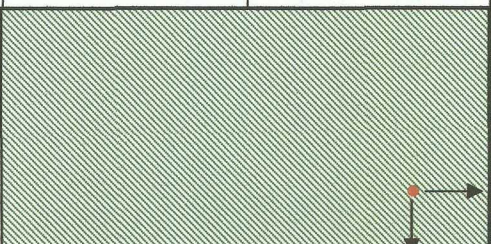
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres 80	<sup>13</sup> Joint or Infill Infill	<sup>14</sup> Consolidation Code n/a	<sup>15</sup> Order No. NSL-6246
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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.

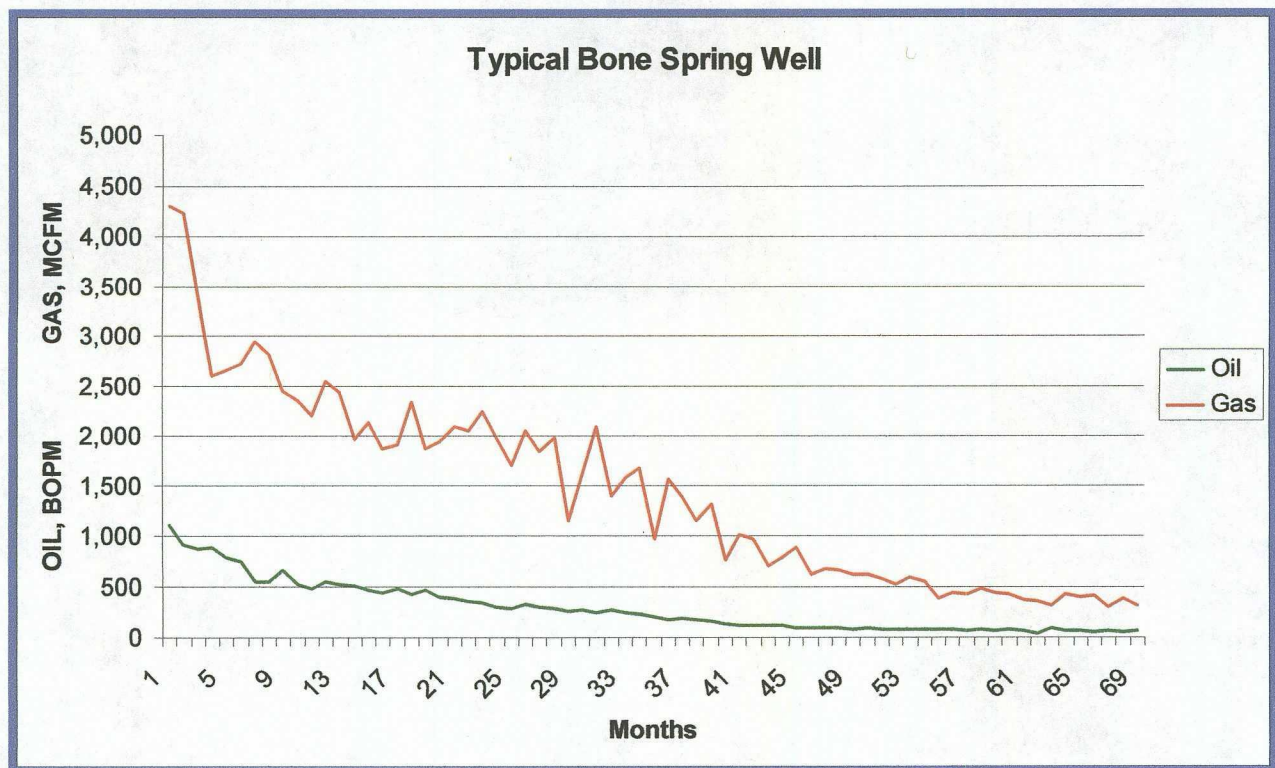
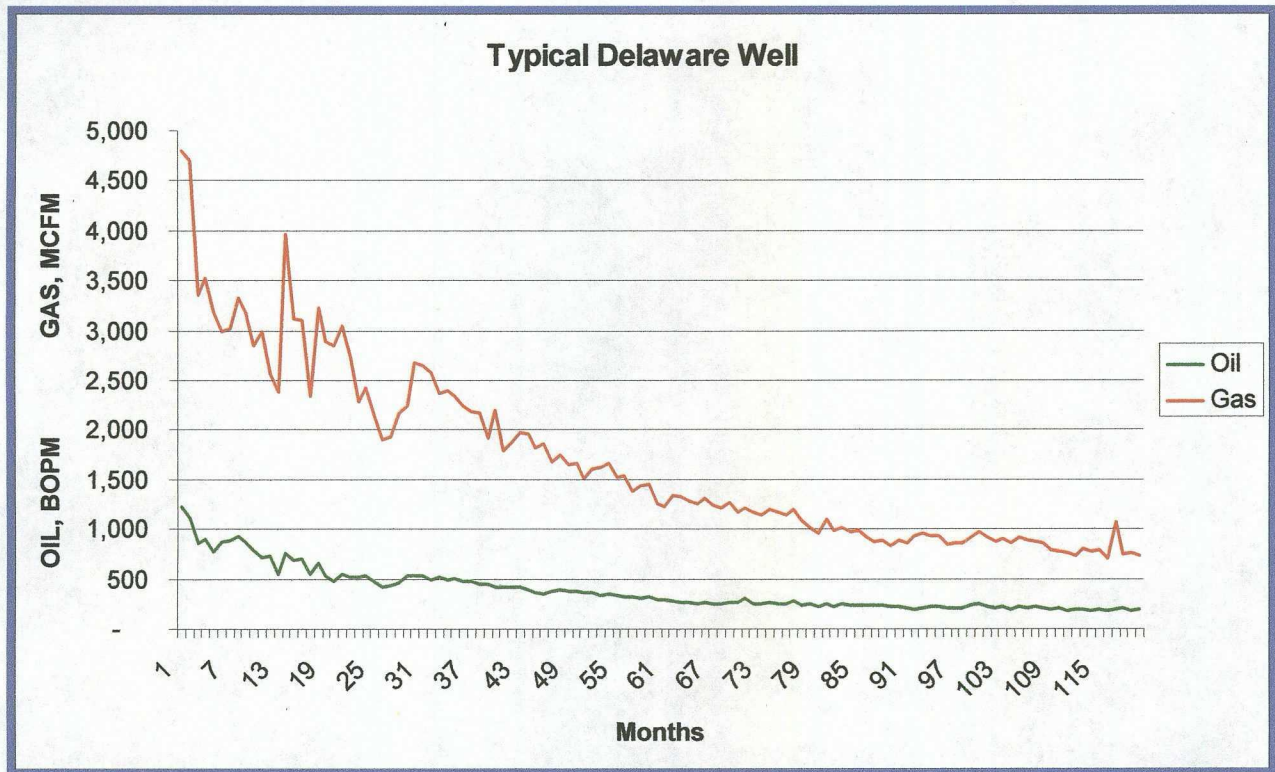
16				<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.  4.5.11 Signature Date Benjamin E. Stone 4/05/2011 Printed Name SOS Consulting, LLC agent for: RKI Exploration & Production, LLC
				<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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. 7/06/2010 Date of Survey Signature and Seal of Professional Surveyor: Gary L. Jones, Basin Surveys Cert. No.7977 Certificate Number
			330 feet	
			360 feet	



16				<p><b>17 OPERATOR CERTIFICATION</b></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 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> <u>4.5.11</u></p> <p>Signature Date</p> <p><b>Benjamin E. Stone</b> <b>4/05/2011</b></p> <p>Printed Name</p> <p><b>SOS Consulting, LLC agent for:</b> <b>RKI Exploration &amp; Production, LLC</b></p>
				<p><b>18 SURVEYOR CERTIFICATION</b></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><b>7/06/2010</b></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p><b>Gary L. Jones, Basin Surveys</b></p>
			330 feet	
	360 feet			<p><b>Cert. No. 7977</b></p> <p>Certificate Number</p>



**C-107a - Supporting Data**  
**Typical Production from Subject Pools**  
 (Data derived from one or more area wells.)





**Production Summary Report**  
**API: 30-015-38070**  
**[37873] LONGVIEW 1 FEDERAL #044**  
**Printed On: Tuesday, April 05 2011**

Year	Pool	Month	Production			
			Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I
2010	[15011] CULEBRA BLUFF;BONE SPRING, SOUTH	Oct	294	2000	1127	17
2010	[15011] CULEBRA BLUFF;BONE SPRING, SOUTH	Nov	183	1203	669	30

