

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

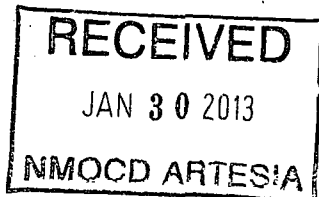
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM91078
2. Name of Operator RKI EXPLORATION & PRODUCTION E-Mail: cahn@rkixp.com		6. If Indian, Allottee or Tribe Name
3a. Address 210 PARK AVENUE, SUITE 900 OKLAHOMA CITY, OK 73102		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 405-996-5771 Fx: 405-996-5772		8. Well Name and No. LONGVIEW FEDERAL 12 14
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T23S R28E NENE 560FNL 730FEL		9. API Well No. 30-015-39159
		10. Field and Pool, or Exploratory S.CULEBRA BLUFF-BONE SPRG
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

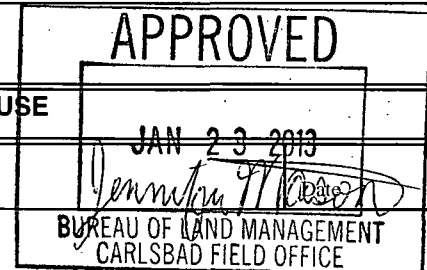
As detailed in the attached recompletion plan, RKI Exploration & Production, LLC needs to recompletable the subject well within the Delaware sands above the current perforations (7,414 feet to 7,447 feet). As shown on the attached wellbore schematic, the new perforations for Delaware sands will be 5,958 feet to 6,462 feet.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL***Provide NMOCs: C-102***SUBJECT TO LIKE
APPROVAL BY STATE**

Accepted for record

NMOC D *tes* 1/31/2013

14. I hereby certify that the foregoing is true and correct. Electronic Submission #180354 verified by the BLM Well Information System For RKI EXPLORATION & PRODUCTION, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 01/11/2013 ()	
Name (Printed/Typed) CHARLES K AHN	Title EH&S/REGULATORY MANAGER
Signature (Electronic Submission)	Date 01/10/2013
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By	Title
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office	



Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RKI Exploration & Production, LLC

Longview #12-14

Recompletion Procedure

Delaware sands
East Herradura Bend Field

Section 12-T23S-R28E
Eddy County, New Mexico

API # 30-015-39159
Property No. 211300

Spud Date: 7/7/11
Comp Date: 9/13/11

Producing Formation: 1st Bone Spring 7,414'-7,447' OA

KB Elev: 3,041'
GL Elev: 3,024'

TD: 7,750'
PBTD: 7,701'

Marker Joint: DV Tool @ 4,975' per CBL

CASING SUMMARY:

Safety Factor = 80% of new applied to burst, collapse and tension parameters in table.

Size	Depth (ft)	Weight (#/ft)	Grade psi	Connection Type	Capacity (bbls/ft)	ID (in)	Drift (in)	Burst (psi)	Collapse (psi)	Tension (lbs)
13 3/8"	324'	54.5	J-55	STC	0.1546	12.615	12.459	2,185	905	411,000
9 5/8"	2,728'	40	J-55	LTC	0.0758	8.835	8.679	3,160	2,055	449,000
5 1/2"	7,750'	17	N-80	LTC	0.0233	4.892	4.767	6,190	5,025	278,400

Surface: 13 3/8" 54.5# J-55 STC: 0-324' - TOC @ surface
Intermediate: 9 5/8" 40# J-55 LTC: 0' - 2,728' - TOC @ surface
Production: 5 1/2" 17# N-80 LTC: 0' - 7,750' - DV Tool @ 4,975'; TOC @ 874' per CBL

COMPLETION HISTORY TO DATE: 1st Bone Spring (7,414'-7,447' OA) perforated and fracture stimulated 6/10. Well on rod pump production.

OBJECTIVE: Perforate, fracture stimulate and test the Avalon and Delaware sands

NOTE: Maximum allowable surface pressure for Delaware sand treatments down 5 1/2" 17# N-80 is 6,150 psi. Test surface lines & frac pumps to 6,500 psi.

Make sure frac company installs a pressure transducer and a manual gauge on the annulus line so that the annulus pressure is monitored and recorded during the fracs.

RKI REQUIRES THAT HARD HATS, STEEL TOE BOOTS, FIRE RETARDANT CLOTHING, AND SAFETY GLASSES BE WORN ON LOCATION

HOLD SAFETY MEETING PRIOR TO COMMENCING PERFORATING, WIRE LINE AND PUMPING OPERATIONS

NO IGNITION SOURCES WITHIN 100 FT OF THE WELLHEAD, FLOWBACK TANKS OR MANIFOLD.

PROCEDURE:

- 1) Test safety anchors. SI flowline. Pressure test tubing to 400 psi using PU to pressure up tubing. Open flowline. Set clean frac tank and lay metal flowline.
- 2) MI RU Service Unit. Deliver 5 jts. new 2 7/8" 6.5# N-80 tubing. Deliver and set flowback frac tank. HU flowline. Set twenty frac tanks and fill each with 480 BFW.
- 3) HO PU. Unseat pump. MI RU Hot oiler. Hot oil tubing with 40 BO. RD MO Hot Oiler.
- 4) ROH w/ pump. Load pump with diesel when get to surface.
- 5) ND WH and NU 5M# Hydraulic BOP.
- 6) Release TA. TIH w/ 5 jts tubing and tag PBTD. LD 5 jts. new tubing.
- 7) MI RU Tuboscope. TOH and inspect tubing. RD MO Tuboscope. LD bad joints and replace w/ new 2 7/8" 6.5# N-80 tubing as required.
- 8) MI RU wireline and RU 5K# lubricator. Test lubricator 250 psi low and 4,000 psi high. RIH w/ JB/GR to 6,750'. RIH w/ wireline set 10K# Composite BP and set @ 6,675'.
- 9) MI RU HP Pump Truck. Load casing with 2% KCL water and test casing & plug to 3,500 psi for ³⁰10 minutes. RD MO HP Pump Truck.
- 10) RIH with 3 1/8" HSC gun loaded with 22.7 gram Titan EXP 3323-301T charges, 0.40 EHD, 35.60" pen and 60° phasing and perforate Avalon sand as listed below. (NOTE: Perforations correlated to Halliburton DS Neutron/ Spectral Density dated 7/18/11) POOH, ensure all shots fired.

Avalon sand (6,454'-6,462') Perforations

Set	Upper	Lower	Feet	SPF	Shots	Phasing
1	6,454'	6,462'	8	4	32	60°
TOTAL			8		32	60°

- 11) MI RU Frac company. Install 10K# WHIT. Pressure test lines/pumps to 6,500 psi. Fracture stimulate Avalon sand with 1,000 gals 15% NE FE acid + 50 ct. B.S. (1.3 SG) + 36,300 gals. 30# linear gel/x-link gel + 30,000# 16/30 Ottawa sand + 10,000# RC 16/30 Ottawa sand @ 35-40 BPM @ 2,600 psi (6,150 psi maximum STP) in the following stages:

Avalon sand Fracture Treatment Schedule

Stage	Fluid Type	Stage Vol (gal)	Cum Vol (gal)	Prop. Conc. (ppg)	Proppant/Fluid Type	Stage (lbs)	Cum Prop. (lbs)	Rate (BPM)
1	Linear (30#)	3,000	3,000		Load/Bkdn Well			10-15
2	Acid	1,000	4,000		15% HCL Acid/50 BS			10-15
3*	Linear (30#)	6,000	10,000		Acid Flush			10-15
4	X-Link (30#)	7,000	17,000		Pad			35-40
5	X-Link (30#)	3,000	20,000	1.0	16/30	3,000	3,000	35-40
6	X-Link (30#)	3,000	23,000	2.0	16/30	6,000	9,000	35-40
7	X-Link (30#)	3,000	26,000	3.0	16/30	9,000	18,000	35-40
8	X-Link (30#)	3,000	29,000	4.0	16/30	12,000	30,000	35-40
9	X-Link (30#)	2,000	31,000	5.0	16/30 RC	10,000	40,000	35-40
10	Linear (30#)	6,300	37,300		Flush			35-40

***(NOTE: SD, Surge (5 seconds) ball sealers after pump Stage 3, Wait 15 minutes, start Stage 4. If necessary RIH w/ JB/GR and knock balls off perforations)**

SD, Record ISIP, 5 min SIP, 10 SIP, 15 min SIP.

- 12) RU 5K# lubricator. Test lubricator 250 psi low and 4,000 psi high. RIH w/ JB/GR to 6,400'. RIH w/ wireline set 10K# Composite frac plug w/ built in ball and set @ 6,375'.
- 13) Load casing with 2% KCL water and test casing & plug to 3,500 psi for 10 minutes.
- 14) RIH with 3 1/8" HSC gun loaded with 22.7 gram Titan EXP 3323-301T charges, 0.40 EHD, 35.60" pen and 60° phasing and perforate Pinnacle A1 (Lentini) sand as listed below. (NOTE: Perforations correlated to Halliburton DS Neutron/ Spectral Density dated 7/18/11). POOH, ensure all shots fired.

Pinnacle A1 (Lentini) sand (6,260'-6,300' OA) Perforations

Set	Upper	Lower	Feet	SPF	Shots	Phasing
1	6,280'	6,300'	20	2	40	60°
2	6,260'	6,272'	12	2	24	60°
TOTAL			32		64	60°

- 15) Pressure test lines/pumps to 6,500 psi. Fracture stimulate Pinnacle A1 (Lentini) sand with 3,000 gals 15% NE FE acid + 96 ct. B.S. (1.3 SG) + 95,550 gals. 30# linear gel/x-link gel + 126,000# 16/30 Ottawa sand + 15,000# RC 16/30 Ottawa sand @ 70-80 BPM @ 3,200 psi (6,150 psi maximum STP) in the following stages:

Pinnacle A1 (Lentini) sand Fracture Treatment Schedule

Stage	Fluid Type	Stage Vol (gal)	Cum Vol (gal)	Prop. Conc. (ppg)	Proppant/Fluid Type	Stage (lbs)	Cum Prop. (lbs)	Rate (BPM)
1	Linear (30#)	3,000	3,000		Load/Bkdn Well			10-15
2	Acid	3,000	6,000		15% HCL Acid/96 BS			10-15
3*	Linear (30#)	6,500	12,500		Acid Flush			10-15
4	Linear (30#)	6,500	19,000		Pad			70-80
5	X-Link (30#)	20,000	39,000		Pad			70-80
6	X-Link (30#)	12,600	51,600	1.0	16/30	12,600	12,600	70-80
7	X-Link (30#)	12,600	64,200	2.0	16/30	25,200	37,800	70-80
8	X-Link (30#)	12,600	76,800	3.0	16/30	37,800	75,600	70-80
9	X-Link (30#)	12,600	89,400	4.0	16/30	50,400	126,000	70-80
10	X-Link (30#)	3,000	92,400	5.0	16/30 RC	15,000	141,000	70-80
11	Linear (30#)	6,150	98,550		Flush			70-80

***(NOTE: SD, Surge (5 seconds) ball sealers after pump Stage 3, Wait 15 minutes, start Stage 4. If necessary RIH w/ JB/GR and knock balls off perforations)**

SD, Record ISIP, 5 min SIP, 10 SIP, 15 min SIP.

- 16) RU 5K# lubricator. Test lubricator 250 psi low and 4,000 psi high. RIH w/ JB/GR to 6,225'. RIH w/ wireline set 10K# Composite frac plug w/ built in ball and set @ 6,200'.
- 17) Load casing with 2% KCL water and test casing & plug to 3,500 psi for 10 minutes.
- 18) RIH with 3 1/8" HSC gun loaded with 22.7 gram Titan EXP 3323-301T charges, 0.40 EHD, 35.60" pen and 60° phasing and perforate Pinnacle B sand as listed below. (NOTE: Perforations correlated to Halliburton DS Neutron/ Spectral Density dated 7/18/11). POOH, ensure all shots fired.

Pinnacle B sand (6,076'-6,116' OA) Perforations

Set	Upper	Lower	Feet	SPF	Shots	Phasing
1	6,102'	6,116'	14	2	28	60°
2	6,076'	6,090'	14	2	28	60°
TOTAL			28		56	60°

- 19) Pressure test lines/pumps to 6,500 psi. Fracture stimulate Pinnacle B sand with 3,000 gals 15% NE FE acid + 85 ct. B.S. (1.3 SG) + 95,350 gals. 30# linear gel/x-link gel + 126,000# 16/30 Ottawa sand + 15,000# RC 16/30 Ottawa sand @ 70-80 BPM @ 3,200 psi (**6,150 psi maximum STP**) in the following stages:

Pinnacle B sand Fracture Treatment Schedule

Stage	Fluid Type	Stage Vol (gal)	Cum Vol (gal)	Prop. Conc. (ppg)	Proppant/Fluid Type	Stage (lbs)	Cum Prop. (lbs)	Rate (BPM)
1	Linear (30#)	3,000	3,000		Load/Bkdn Well			10-15
2	Acid	3,000	6,000		15% HCL Acid/85 BS			10-15
3*	Linear (30#)	6,500	12,500		Acid Flush			10-15
4	Linear (30#)	6,500	19,000		Pad			70-80
5	X-Link (30#)	20,000	39,000		Pad			70-80
6	X-Link (30#)	12,600	51,600	1.0	16/30	12,600	12,600	70-80
7	X-Link (30#)	12,600	64,200	2.0	16/30	25,200	37,800	70-80
8	X-Link (30#)	12,600	76,800	3.0	16/30	37,800	75,600	70-80
9	X-Link (30#)	12,600	89,400	4.0	16/30	50,400	126,000	70-80
10	X-Link (30#)	3,000	92,400	5.0	16/30 RC	15,000	141,000	70-80
11	Linear (30#)	5,950	98,350		Flush			70-80

***(NOTE: SD, Surge (5 seconds) ball sealers after pump Stage 3, Wait 15 minutes, start Stage 4. If necessary, RIH w/ JB/GR and knock balls off perforations.)**

- 20) SD, Record ISIP, 5 min SIP, 10 SIP, 15 min SIP.
- 21) RU 5K# lubricator. Test lubricator 250 psi low and 4,000 psi high. RIH w/ JB/GR to 6,050'. RIH w/ wireline set 10K# Composite frac plug w/ built in ball and set @ 6,025'.
- 22) Load casing with 2% KCL water and test casing & plug to 3,500 psi for 10 minutes.
- 23) RIH with 3 1/8" HSC gun loaded with 22.7 gram Titan EXP 3323-301T charges, 0.40 EHD, 35.60" pen and 60° phasing and perforate Pinnacle C sand as listed below. (NOTE: Perforations correlated to Halliburton DS Neutron/ Spectral Density dated 7/18/11). POOH, ensure all shots fired. RD MO wireline.

Pinnacle C sand (5,958'-6,010' OA) Perforations

Set	Upper	Lower	Feet	SPF	Shots	Phasing
1	5,998'	6,010'	12	2	24	60°
2	5,980'	5,992'	12	2	24	60°
3	5,968'	5,974'	6	2	12	60°
4	5,958'	5,963'	5	2	10	60°
TOTAL			35		70	60°

- 24) Pressure test lines/pumps to 6,500 psi. Fracture stimulate Pinnacle C sand with 3,000 gals 15% NE FE acid + 110 ct. B.S. (1.3 SG) + 134,850 gals. 30# linear gel/x-link gel + 200,000# 16/30 Ottawa sand + 20,000# RC 16/30 Ottawa sand @ 70-80 BPM @ 3,200 psi (**6,150 psi maximum STP**) in the following stages:

Pinnacle C sand Fracture Treatment Schedule

Stage	Fluid Type	Stage Vol (gal)	Cum Vol (gal)	Prop. Conc: (ppg)	Proppant/Fluid Type	Stage (lbs)	Cum Prop. (lbs)	Rate (BPM)
1	Linear (30#)	3,000	3,000		Load/Bkdn Well			10-15
2	Acid	3,000	6,000		15% HCL Acid/110 BS			10-15
3*	Linear (30#)	6,000	12,000		Acid Flush			10-15
4	Linear (30#)	6,000	18,000		Pad			70-80
5	X-Link (30#)	30,000	48,000		Pad			70-80
6	X-Link (30#)	20,000	68,000	1.0	16/30	20,000	20,000	70-80
7	X-Link (30#)	20,000	88,000	2.0	16/30	40,000	60,000	70-80
8	X-Link (30#)	20,000	108,000	3.0	16/30	60,000	120,000	70-80
9	X-Link (30#)	20,000	128,000	4.0	16/30	80,000	200,000	70-80
10	X-Link (30#)	4,000	132,000	5.0	16/30 RC	20,000	220,000	70-80
11	Linear (30#)	5,850	137,800		Flush			70-80

***(NOTE: SD, Surge (5 seconds) ball sealers after pump Stage 3, Wait 15 minutes, start Stage 4. If necessary, RIH w/ JB/GR and knock balls off perforations.)**

- 25) SD, Record ISIP, 5 min SIP, 10 SIP, 15 min SIP. RD MO wireline unit. RD WHIT. RD MO frac company. SI well overnight.
- 26) Install flow valve/choke w/ carbide seat/stem. Open well, flow back and test.
- 27) **IF NECESSARY**, MI RU pump truck. Pump 120 bbls. 10.2 ppg brine water down caing to kill well. Feed in brine water as necessary to keep well dead.
- 28) MI RU pump, tank, and swivel.
- 29) TIH w/ 4¾" bit, 4 DC, XO, tubing. Clean out sand and DO Comp frac plugs and comp BP and push to PBTD. Circulate hole clean.
- 30) TOH, LD BHA. RD MO pump, tank, swivel.
- 31) Feed in brine water as necessary to keep well dead. TIH w/ purge valve, 2 jts tubing, D-2705-G Cavins combination GA/desander, SSN, 16 jts tubing, TAC, 175 jts. 2 7/8" 6.5# L-80 EUE. EOMA @ 5,983'±, SN @ 5,921'±, TAC @ 5,425'±.
- 32) ND BOP. Set TAC w/ 10K# tension @ 5,425'. NU B-1 flange. RD MO pump truck. Install pumping tee.
- 33) Load downhole pump with diesel. RIH w/ 2½" x 1¾" x 20' RHBC pump, on/off tool, 1' 7/8" lift sub, 160 ct. ¾" Norris 97 rods, 80 ct. 7/8" Norris 97 rods, 26' x 16' polished rod/liner. Space and seat pump. Load tubing and pressure pump to 400 psi. HO PU set @ 168" stroke @ 6.2 spm.
- 34) RD MO Service Unit. Start PU.

RKI Contact List:

RKI	Title	Office	Cell
Ed Glass	Completions Manager	405-996-5786	405-757-5448
Brent Umerham	Manager-Drlg & Prod Ops	405-996-5748	405-623-5080
Gene Thompson	Field Superintendent	575-885-1313	817-908-9219
Tim Winters	Completion Consultant	575-885-1313	432-448-4409
Clyde Thompson	Completion Consultant	575-885-1313	580-729-5370
Ken Fairchild	Production Manager	405-996-5764	469-693-6051
Danny Emerson	Senior Foreman	575-885-1313	505-614-4867
Jaime McAlpine	Engineering Consultant	405-996-5741	405-850-6685

Emergency Contacts – New Mexico:

Hospital: Carlsbad Medical Center (575) 887-4100
2430 W. Pierce St., Carlsbad, NM 88220

Sheriff's Office: Lea County Sheriff Dept (575) 396-3611
Eddy County Sheriff Dept (575) 887-7551

Emergency Contacts – Texas:

Hospital: Reeves County Hospital (432) 447-3551
2323 Texas St, Pecos TX 79772

Sheriff's Office: Reeves County Sheriff Dept (432) 445-4901
Loving County Sheriff Dept (432) 377-2411

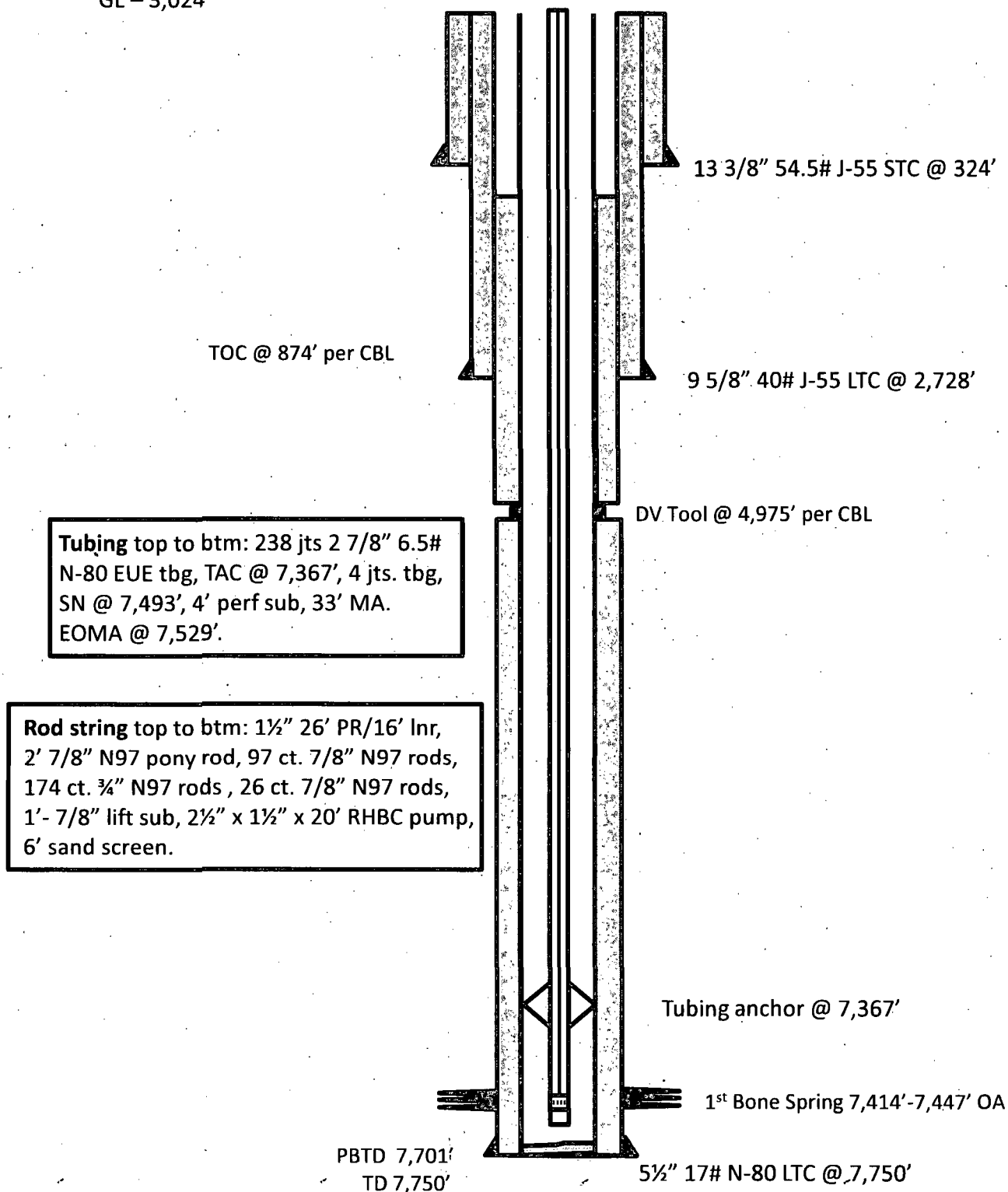
RKI Exploration and Production, LLC

Longview 12-14
Section 12 T23S R28E
Eddy County, New Mexico
API No. 30-015-39159

CURRENT

KB - 3,041'
GL - 3,024'

12/7/12; JLM



RKI Exploration and Production, LLC

Longview 12-14
Section 12 T23S R28E
Eddy County, New Mexico
API No. 30-015-39159

PROPOSED

KB - 3,041'
GL - 3,024'

12/17/12; JLM

TOC @ 874' per CBL

13 3/8" 54.5# J-55 STC @ 324'

9 5/8" 40# J-55 LTC @ 2,728'

DV Tool @ 4,975' per CBL

**Tubing top to btm: 175 jts 2 7/8" 6.5#
N-80 EUE tbg, TAC @ 5,425', 16 jts. tbg,
SN @ 5,921', D-2705 Cavins Desander,
2 jts. tubing, purge valve. EOMA @ 5,983'**

**Rod string top to btm: 1 1/2" 26' PR/16' lnr,
80 ct. 7/8" N97 rods, 160 ct. 3/4" N97 rods,
1'- 7/8" lift sub, on/off tool, on/off tool,
2 1/2" x 1 3/4" x 20' RHBC pump.**

Tubing anchor @ 5,425'

Pinnacle C 5,958' - 6,010' OA

Pinnacle B 6,076' - 6,116' OA

Pinnacle A1 (Lentini) 6,260' - 6,300' OA

Avalon 6,454' - 6,462'

1st Bone Spring 7,414' - 7,447' OA

PBTD 7,701'
TD 7,750'

5 1/2" 17# N-80 LTC @ 7,750'

**Longview Federal 12 14
30-015-39159
RKI Exploration & Production
January 23, 2013
Conditions of Approval**

- 1. Casing shall be tested to 3,500 psi and held for 30 minutes in accordance with Onshore Order #2 B. III 1. h. and submitted to the BLM.**
- 2. Surface disturbance beyond the existing pad must have prior approval.**
- 3. Closed loop system required.**
- 4. Operator to have H2S monitoring on location as H2S is always a potential hazard.**
- 5. A minimum of a 5M BOP is required and must be tested prior to beginning work.**
- 6. Subsequent sundry and completion report required. Completion report shall show production from each formation independently.**

JAM 012313