Submit 1 Copy To Appropriate District	State of New Mexico	Form C-103
Office District 1 – (575) 393-6161	Energy, Minerals and Natural Resources	Revised August 1, 2011
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II - (575) 748-1283	OIL CONSERVATION DIVISION	30-015-29179
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE S FEE
<u>District IV</u> – (505) 476-3460 ⁴ 1220 S. St. Francis Dr., Santa Fe, NM	Sama re, Mivi 67303	6. State Oil & Gas Lease No.
87505		
SUNDRY NOT	ICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	Pinnacle State
PROPOSALS.)	CATION FOR PERMIT" (FORM C-101) FOR SUCH	
1. Type of Well: Oil Well	Gas Well Other	8. Well Number
		15 SWD
2. Name of Operator	7	9. OGRID Number
RK1 Exploration & Production, LL	<u>.c</u>	246289
3. Address of Operator 210 Park Avenue, Suite 900, Oklah	homa City, OK, 73102	10. Pool name or Wildcat Herradura Bend: Delaware East
	Homa City, OK 75102	Herradura Bend. Delaware East
4. Well Location		
Unit Letter A		990 feet from the <u>East</u> line
Section # 36	Township 22S Range 28E	NMPM County Eddy
	11. Elevation (Show whether DR, RKB, RT, GR, etc.	
	3152 feet GR	2002
		•
12. Check	Appropriate Box to Indicate Nature of Notice	, Report or Other Data
NOTICE OF IN	ITENTION TO	OCCOUENT DEPORT OF
PERFORM REMEDIAL WORK	· · · · · · · · · · · · · · · · · · ·	BSEQUENT REPORT OF: RK
TEMPORARILY ABANDON		RILLING OPNS. P AND A
PULL OR ALTER CASING		_
DOWNHOLE COMMINGLE	MOETIFEE COMPE CASING/CEME	i i
BOWNINGEL COMMININGEL	•	
OTHER: Convert to Saltwater I	Injection Well 🖂 OTHER: ;	. 🗀
13. Describe proposed or comp	oleted operations. (Clearly state all pertinent details, a	nd give pertinent dates, including estimated date
of starting any proposed w	ork). SEE RULE 19.15.7.14 NIMAG From altiple Co	ompletions: Attach wellbore diagram of
proposed completion or rec	completion.	1
t ⁱ		:
DIZI Contention & Durdontion III		the state of the state of the state of
procedures guideline as well as well	C proposes to convert the subject well into a saltwater	injection well as detailed in the attached
procedures guideline as wen as wer	toore schematic diagram,	
ALLE PERDINEST S	SOUD PERMIT BY VSMATIVE APPLICATION JUN DCD-SANTA FE NMOCH PT-6/12/13	CEIVED
MUSI RECORD	APPLICATION!	
2108 AND ADMIN	V STRATIVE MITCHEN JUN	07 2013
	and chan F	
SENI TO THE C	NMOC	D ARTESIA
Color 6	PI-6/12/13	
CPHZ.	P# (1.7)	
ji.		•
		,
Spud Date: 9/30/1996	Rig Release Date: 10/10/1996	5
•		1
I hereby certify that the information	above is true and complete to the best of my knowled	ge and belief.
- 1		:
SIGNATURE Stocker K.	AR	
SIGNATURE Choiles R.	TITLE EH&S/Regulatory M	anager DATE 6/05/2012
Type or print name	Ahn Email address Lu Gul	DHONE. 405 007 5771
Type or print name Charles K For State Use Only	K. Ahn E-mail address: cahn@rkixp.co	PHONE: 405-996-5771
101 State OSE OTHY	olo N III s	· , 1
APPROVED BY:	TITLE 1/157 # Su	pewis DATE 6/12/13
Conditions of Approval (if any):		<u> </u>

DISTRICT I
1623 N. French Dr., Hobbs, NM 88240
Phone; (757) 3973-6161 Far; (373) 393-61720
DISTRICT II
811 S. Fries N., Artesia, NM 88210
Phone; (597) 378-1288 Far; (375) 748-9720
DISTRICT III
1000 Rio Bratos Rd., Aziec, NM 87410
Phone; (509) 346-178 Far; (309) 333-6170
DISTRICT IV
2120 S. S., Francis D., Smita Fc, NM 87505
Phone; (509) 476-3460 Far; (505) 476-3462

API Number

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

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

☐ AMENDED REPORT

JAMES E. TOMPKINS 14729 Certificate Number

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

30-015-29	179		306.7	0			Herradura Ber	nd; Delaware I	ast	
Property Cod	i.i	Property Name PINNACLE STATE				Well Nu 15 SV				
OGRID No			Operator Name RKI EXPLORATION & PRODUCTION				Elevation			
246289	<u></u>			KKIE			· · ·		3152'	
L or lot no.	Section	Township	Danua 1	Lot		ce Locatio	North/South line	Francisco de	East/West line	- C
_	- 1		Range	LGI	i			Feet from the		County
Α	36	22 S	28 E			90	NORTH	990	EAST	EDD
IL or lot no.	Section 1	Township	Range	OM H		om the	ent From Surface	Feet from the	East/West line	County
AL GI TOUTIO.	Section ,	Township	Range	LOC	Tan Teern	tom the	Norm/South Tine	reet from the	East/West fine	County
edicated Acres	Joint or	Infill	Consolidated Cod	le	Order No.		l	~~~		
40										1
	<u> </u>									
								I hereby certify	that the information	contained
								OPERATO	OR CERTIFICA	ATION
								I hereby certify		contained
•							i	knowledge and be either owns a wo	elief, and that this c orking interest or un	rganizatión leased
						066	: 1	proposed bottom	in the land includin hole location or has this location pursuo	g the a right to
								contract with an working interest,	owner of such a ma	ineral or ling
							990'	agreement or a c heretofore entered	compulsory pooling or I by the division	rder
						PINNÀCLE E-15 SWD		200		ļ
								Horles ,	K. Ahn 6/0	5/2013
								Signature	D.	ate
							. !	Charles K.	Ahn	
	1						;	cahn@rkix	n com	,
								E-mail Address	p.com	
								SHDVEV.	ORS CERTIFIC	ATLON
								I hereby certify th	at the well location.	shoum on
				•				made by me or un same is true and	rom field notes of a nder my supervision, correct to the best o	and that of my belie
								May 30, 2013		
							į.	Date of Survey	ET	0
	1		-					Signature and Seal of	Profit stated Surveyor:	XX/2/
	_								13/2/	18/3
									1472	

RKI Exploration & Production, LLCPinnacle State 15 SWD

Saltwater Injection Well Conversion Procedure

East Herradura Bend

Section 36 T22S R28E Eddy County, NM

API # 30-015-29179 Property No. 200935

Spud Date: 9/30/96 **Comp Date:** 11/1/96

Producing Formations: Delaware 5,342'-6,116' OA

KB Elev: 3,167° **GL Elev:** 3,152° **TD:** 6,475° **PBTD:** 6,427'

Marker Joint: DV Tool @ 3,515'

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"	3851.	54.5	J-55	ST&C	0.1546	12.615	12.459	2,184	905	195,000
8 5/8"	2,750'	40	J-55	LT&C	0.0637	8.097	8.599	2,360	1,100	448,000
51/2"	6,475,	15.5	J-55	LT&C	0.0238	4.950	4.825	3,850	3,250	174,000

Surface:

13 3/8" 54.5# J-55 STC: 0'-385'- TOC @ surface

Intermediate:

8 5/8" 24# J-55 LTC: 0' - 2,750'- TOC @ surface

Production:

5 1/2" 15.5# J-55 LTC: 0' - 6,475' - DV Tool @ 3,515'; TOC @ 2,950' per report

<u>COMPLETION HISTORY TO DATE:</u> Delaware completed 5,342'-6,116' (staged frac'd 10/96). Well on PU/rod pump production.

OBJECTIVE: Convert wellbore into SWD.

NOTE: Maximum allowable surface pressure for Delaware sand treatments down 5½" 15.5# J-55 is 3,750 psi. Test surface lines & frac pumps to 4,500 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 acid stimulation.

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) MI RU Service Unit. Deliver and set 4 clean frac tanks and fill with 480 bbls, produced water in each.

- 2) HO PU unit. Unseat pump. Hot oil tubing w/ 30 bbls. oil. ROH, LD rods, pump.
- 3) ND WH, NU 5K# BOP.
- 4) MI RU Tuboscope. Release TAC, TOH and inspect tubing. RD MO Tuboscope. Replace tubing as necessary to have 3,300' tested 2 7/8" 6.5# J-55 EUE onsite.
- 5) MI RU wireline unit. RIH w/ 4.75" JB/GR to 5,325'. RIH and set 5-1/2" CIBP @ 5,300'+/- (DO NOT SET IN COLLAR).
- 6) MI RU pump truck. Test plug to 2,000 psi for 30 minutes. RD MO pump truck.
- 7) Dump bail 2 sx cement on top of plug. RIH w/ 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 sand as listed below. (NOTE: Perforations correlated to Schlumberger Litho-Density/Comp Neutron dated 10/11/96). POOH, ensure all shots fired. RD MO wireline.

Upper Delaware sands (3,312'-3,546' OA) Perforations

Set	<u>Upper</u>	Lower	Feet	SPF ·	Shots	Phasing
: 1	3,532'	3,546'	14	2	28	60°
, 2	3,430'	3,460'	30	2	60	60°
13	3,404	3,418'	14	2	28	60°
4	3,312'	3,326'	14	2	28	60°
TOTAL	}		72		144	60°

- 8) T1H w/ 2-7/8" x 5-1/2" AS-1X packer, 3,100' 2 7/8" tubing. Set packer @ 3,100' w/ 15K# compression.
- 9) MI RU stimulation company. Pressure test lines/pumps to 4,500 psi. Load backside w/ 2% KCL water and pressure to 500 psi. Acid stimulate Delaware sand with 10,000 gals 7.5% NE FE acid w/ 5 gpt surface tension reducer + 1,800 bbls produced water + 126 ct. B.S. (1.3 SG) via tubing in the following stages:

Delaware sand Acid Treatment Schedule

Stage	Fluid Type	Stage Vol (gal)	Proppant/Fluid Type	Stage (lbs)	Cum Prop. (lbs)	Rate (BPM)
1	Acid	1,000	7 1/2% NE FE			5-7
2 ;	Produced Water	6,500	Produced Water :			8-10
3	Produced Water	1,000	Stage flush + 14 BS			8-10
4 1	Repeat steps 1-3	8,500				8-10
5 .	Repeat steps 1-3	8,500				8-10
6 1	Repeat steps 1-3	8,500				8-10
7 .	Repeat steps 1-3	8,500				8-10
8 .	Repeat steps 1-3	8,500				8-10
9	Repeat steps 1-3	8,500				8-10
101	Repeat steps 1-3	8,500	:			8-10
114	Repeat steps 1-3	8,500				8-10
. 12 ,	Repeat steps 1-2	7,500				8-10

- 10) SD, Record ISIP, 5 min SIP, 10 SIP, 15 min SIP. Surge BS. SI well in for 4 hours.
- 11) Install flow valve/choke. Open well, flow back until dead.
- 12) Release packer. TIH thru perforations to knock any balls off perforations.

- 13) TOH, LD tubing and packer.
- 14) Deliver, unload and tally 3,300° 3-½" 9.3# J-55 EUE tubing w/ turned down collars and lined with Tuboscope TK-15 lining, lined 2-7/8" x 5-½" lined AS-1X packer, lined XO, 3,250° lined 3-½" 9.3# J-55 EUE tubing with turned down collars.
- 15) MI RU pump truck. Pump/circulate 40 BFW w/ packer fluid down casing.
- 16) Set packer @/3,250' +/- w/ 12# compression.
- 17) ND BOP, NU wellhead.
- 18) Pressure test annulus and packer to 1,000 psi for 30 minutes. RD MO pump truck.
- 19) RD MO Service Unit.
- 20) Install surface equipment.
- 21) Run MIT. Turn on well for injection.

RKI Contact List:

RKI	·Title	Office	Cell
Brent Umberham	Manager-Drlg & Prod Ops	405-996-5748	405-623-5080
Gene Thompson	Area Superintendent	575-885-1313	817-908-9219
Ken Fairchild	Production Manager	405-996-5764	469-693-6051
Paul Munding	Production Engineer	405-987-2140	405-820-2825
Jaime McAlpine	Engineering Consultant	405-996-5741	405-850-6685

Emergency Contacts - New Mexico:

	•	
Hospital:	Carlsbad Medical Center	(575) 887-4100
HOSDItal.	Carisbau Mculcai Cellei	13/3/00/**100

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

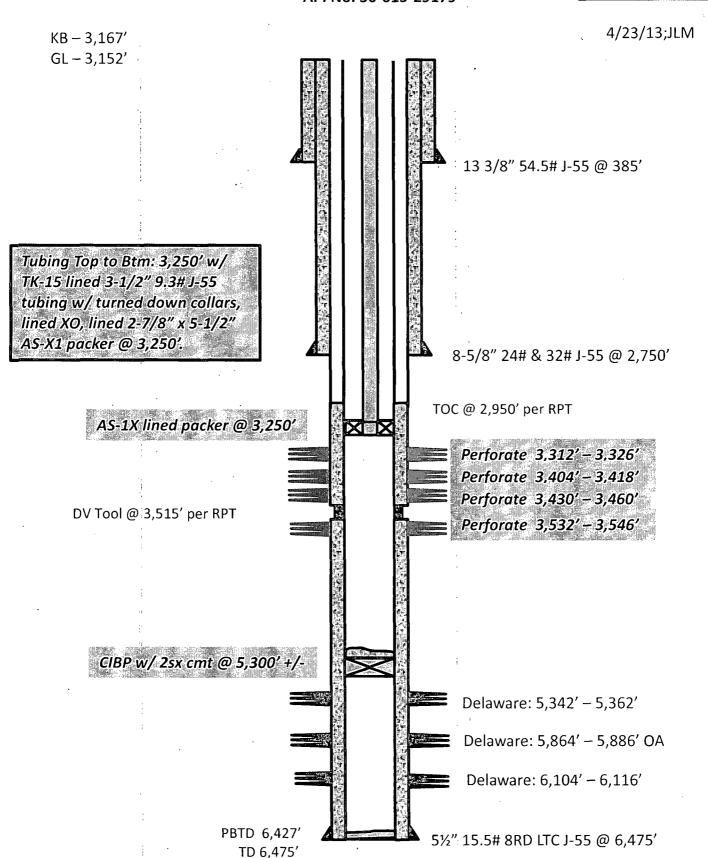
Loving County Sheriff Dept (432)·377-2411

RKI Exploration and Production, LLC

Pinnacle State 15

Section 36-225-28E Eddy County, New Mexico API No. 30-015-29179





RKI Exploration and Production, LLC

Pinnacle State 15

Section 36-22S-28E Eddy County, New Mexico API No. 30-015-29179



KB - 3,167' GL - 3,152' 3/28/13; BAB

Tubing Top to Btm: 166 Jts 2-7/8" 6.5# J-55 Tbg, 2-7/8" X 5-1/2" TAC, 29 Jts Tbg, SN,2-7/8' X 4' Perf Sub, 2-7/8' X 32' MA. TAC @ 5,223', SN @ 6,162', EOT @ 6,198'.

Rod Detail: Top to Btm: 26'X1-3/4" PR w/ 16'x1-1/2"liner, 8'& 6' 7/8" Pony Rods, 81 ct 1" WCN Rods, 68 ct 7/8" D-90 Rods, 83 ct 3/4" D-90 Rods, 12 ct 7/8" D-90 Rods, 2-1/2" x 1-1/4" x 20' RHBC-HVR Pump w/ 6' GA

8-5/8" 24# & 32# J-55 @ 2,750'

13 3/8" 54.5# J-55 @ 385'

TOC @ 2,950' per RPT

DV Tool @ 3,515' per RPT

TAC @ 5,223'

Delaware: 5,342' - 5,362'

Delaware: 5,864' – 5,886' OA

Delaware: 6,104' - 6,116'

5½" 15.5# 8RD LTC J-55 @ 6,475'

PBTD 6,427' TD 6,475'