District I · 1625 N. French Dr., 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

June 16, 2008 Submit to appropriate District Office

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

AMENDED	REPORT

Form C-101

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN

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	¹ Operator Name and Address ² OGRID Number						1 11						
I KKI EAI EOKATION & I KODOCTION, EEC.				V	246289 ³ API Number								
		17 NW Exp	ressway, Suite 950), Oklahom					30-015	73	\$ 56		
Prope	erty Code 3211					ty Name le State 💆	Name 6 Well No. State 29						
200	<i>) - · ·</i>	9	Proposed Pool 1		7				10 Prop	osed Pool 2			
70.6	т		ulebra Bluff Bone	Spring ^	/								
Surface UL or lot no.	Location Section	n Township	Panga	Lati	Idn Foot	from the					Country		
P P	36	22S	Range 28E	Lot Idn Feet fro		560	North/South line South		Feet from the 560	East/West line East		County Eddy	
⁸ Proposed	Bottom H	lole Loca	tion If Differer	nt From S	Surface		1			I			
UL or lot no.	Section	Township	Range	Lot	Idn Feet	from the	the North/South line Feet from the			East/West line County			
Additiona	al Well l	Informa	tion				1			<u> </u>	J		
	Type Code	,	¹² Well Type Co O		1	ble/Rotary Rotary					15 Ground Level Elevation 3128		
	N - Iultiple	_	17 Proposed Dep	oth	i	ormation		:	19 Contractor	<u> </u>	20	Spud Date	
	No -		9000	~		ne Spring						ASAP	
21													
			Cement Prog										
Hole S			sing Size		g weight/foot		Setting Do	•	Sacks of Ce	ment	Estimated TOC		
17 1/			13 3/8" 9 5/8"		54.5# 40#		450°		400		Surface /		
12 1/ 8 3/4			1/2"		40# 17#		2840 9000		1059 1261		Surface / 2540'		
. 0 3/			1/2		1111.		7000		1201			2540	
			If this application ogram, if any. Us				e the data	a on the pi	esent productive z	one and pro	posed ne	w productive zone	
Describe the	blowout pre	evention pro	ogram, many. Os	c additiona	ii siicets ii iicec	ssary.							
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²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.				OIL CONSERVATION DIVISION									
				OIL CONSERVATION DIVISION									
Signature:			Approved by:										
Printed name: Barry W. Hunt				Title:	Title:								
Title: Permit Agent for RKI Exploration & Production, LLC.				Appro	Approval Date: Expiration Date:								
E-mail Address: specialtpermitting@gmail.com					3	/4/ô	NO		3/4	12013			
Date: 2/16/11 Phone: 575-361-4078			Condi	Conditions of Approval Attached									

RKI EXPLORATION & PRODUCTION, LLC.

Pinnacle 29 560' FSL & 560' FEL 36-22S-28E Eddy County, NM

- 1. The elevation of the unprepared ground is 3,145 feet above sea level.
- 2. The geologic name of the surface formation is Quaternary Alluvium.
- 3. A rotary rig will be utilized to drill the well to 9,000' and run casing. This equipment will then be rigged down and the well will be completed with a workover rig.
- 4. Proposed total depth is 9,000'.
- 5. Estimated tops of important geologic markers:

Lamar Lime	2,820'
Intermediate Casing Pt	2.840'
Base of Lime	2,860'
Delaware Top	2,900'
Bell Canyon Sand	2,900'
Cherry Canyon Sand	3,890'
Brushy Canyon Sand	4,885'
Bone Spring Lime	6,410'
Bone Spring Avalon Sand	6,515'
Bone Spring 1 st Sand	7,515'
Bone Spring 2 nd Sand	8,285'
TD	9,000'

6. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Bell Canyon	Oil
Cherry Canyon	Oil
Brushy Canyon	Oil
Bone Spring Avalon Sand	Oil
Bone Spring 1 st Sand	Oil

7. The proposed casing program is as follows:

Surface: 13-3/8" 54.5# J-55 ST&C casing set from 0' - 450' Tension SF 2.0, Collapse SF 1.125, Burst SF 1.8.

Intermediate: 9-5/8" 40# J-55 ST&C casing set from 0' – 2,840' Tension SF 2.0, Collapse SF 1.125, Burst SF 1.8.

Production: 5-1/2" 17# N-80 LT&C casing set from 0' - 9,000' Tension SF 2.0, Collapse SF 1.125, Burst SF 1.8.

8. Casing setting depth and cementing program:

- a. 13 3/8" surface casing set at 450' in 17-1/2" hole. Circulate cement to surface with **400 sx** Halcem with 2% Calcium Chloride mixed at 14.8 ppg (1.35 cf/sk).
- b. 9 5/8" intermediate casing set at 2,840' in 12 ¼" hole. Cement will be circulated to surface with **859 sx** Econocem with 5% Salt, .25 pps Pheno Seal mixed at 12.4 ppg (2.12 cf/sk) followed by **200 sx** Halcem mixed 14.8 ppg (1.33 cf/sk).
- c. 5-1/2" production casing set at 9,000' in 8 ¾" hole. Hole will be callipered to determine cement volume to bring TOC to 2,540'. The well will be cemented in two stages as follows: Stage 1: 769 sx Versacem with .5% LAP-1, .25 pps D-Air 3000, .4% CFR-3, 3 pps Salt mixed at 13.2 ppg (1.64 cf/sk). Stage 2: 392 sx Econocem mixed at 12.4 ppg (2.01 cf/sk) followed by 100 sx Halcem mixed at 14.8 ppg (1.33 cf/sk). DV tool at approximately 5000'.

9. Pressure Control Equipment

Annular preventer (1,500 psi)

BOP stack with pipe and blind rams (5,000 psi)

Drilling spool with 2 side outlets (choke side will be 3" minimum diameter, kill side shall be 2" diameter

Choke line will be 3" diameter with 2 - 3" valves

Kill line will be 2" with 2-2" valves and check valve

2 chokes with 1 being remotely operated from rig floor

Upper kelly cock valve with handle available

Lower kelly cock valve with handle available

Inside BOP or float sub available

Pressure gauge in choke manifold

Fill-up line above uppermost preventer

A drilling head will be installed on the 13 3/8" surface casing and utilized until the 9 5/8" casing is set. At this time a 3,000 psi casing head will be installed on the 9 5/8" casing and be utilized to TD. After setting the 13 3/8" casing all BOP's and associated equipment will be tested to rated pressure. Before drilling out the 13 3/8" casing shoe the casing will be tested to 1,500 psi. After setting the 9 5/8" casing all BOP's and associated equipment will be tested to rated pressure. Before drilling out the 9 5/8" casing will be tested to 1,500 psi. Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log.

10. Mud Program:

0' - 450' Auagel/Lime mud. Paper for losses and seepage. 8.4 to 9.0 ppg, 32 to 34 vis, PV 1 to 3, YP 1 to 3, WL NC. Sweep hole with Aquagel pills.

450' - 2,840' Brine. As needed LCM for losses and seepage. 10.0 to 10.2 ppg, 28 to 29 vis, PV 1, YP 1, WL NC. Sweep hole with Aquagel pills.

2,840' – 5,800' Drill out with fresh water. 8.4 to 8.6 ppg, 28 to 29 vis, PV 1, YP 1, WL NC.

5,800' - 7,300' Cut brine. 9.0 to 9.2 ppg, 36 to 38 vis, PV 6 to 10, YP 8 to 12, WL 18 to 25. Lower water loss <20. Sweep hole with Auagel pills.

11. Testing, Logging and Coring Program:

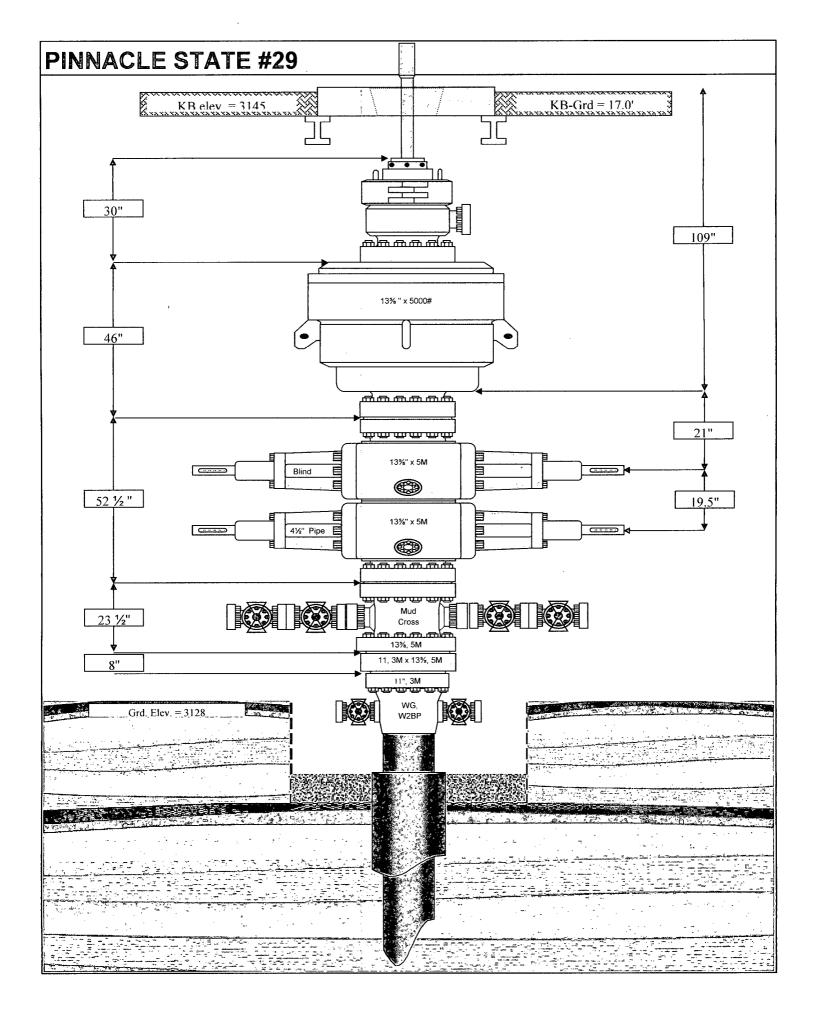
Testing program: No drillstem tests are anticipated.

Electric logging program: CNL/CAL/GR, DLL/CAL/GR.

Coring program: None.

12. Potential Hazards:

No abnormal conditions or hazards are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well.



Choke Manifold OPTIONAL AIR GRIVEN SECONO PUMP TO ANNULAR PREVENTER VALVE(S) TO RAM PREVENTER VALVES

FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

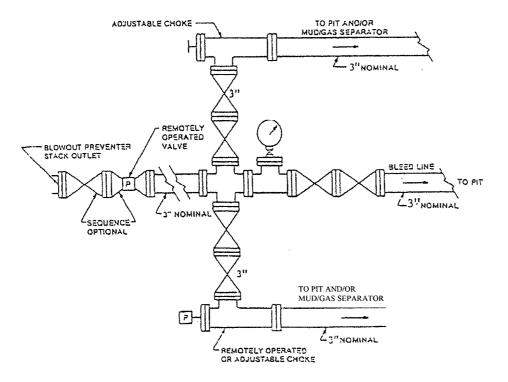
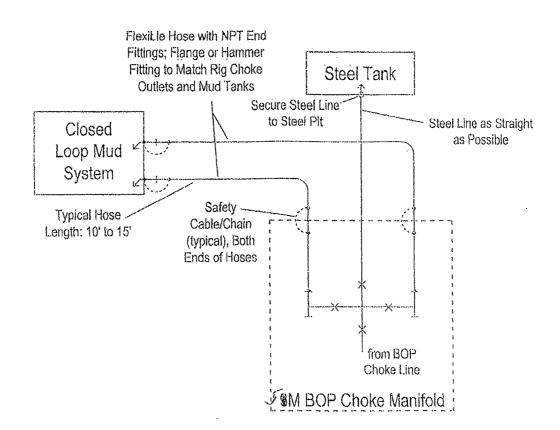
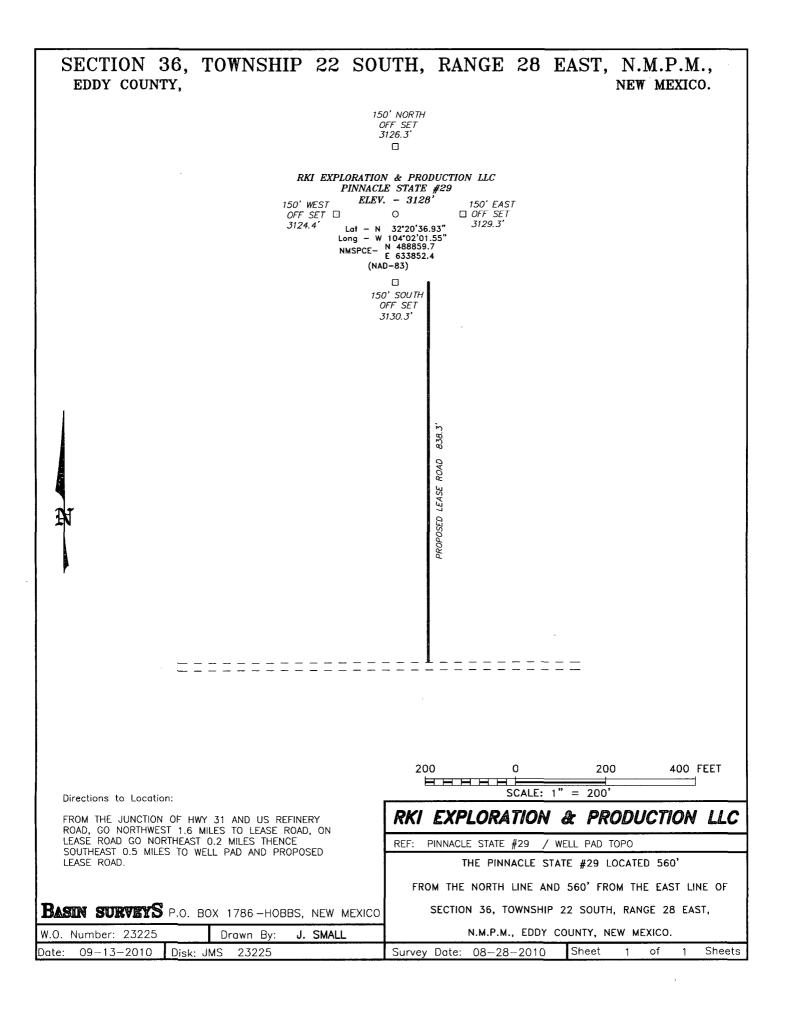
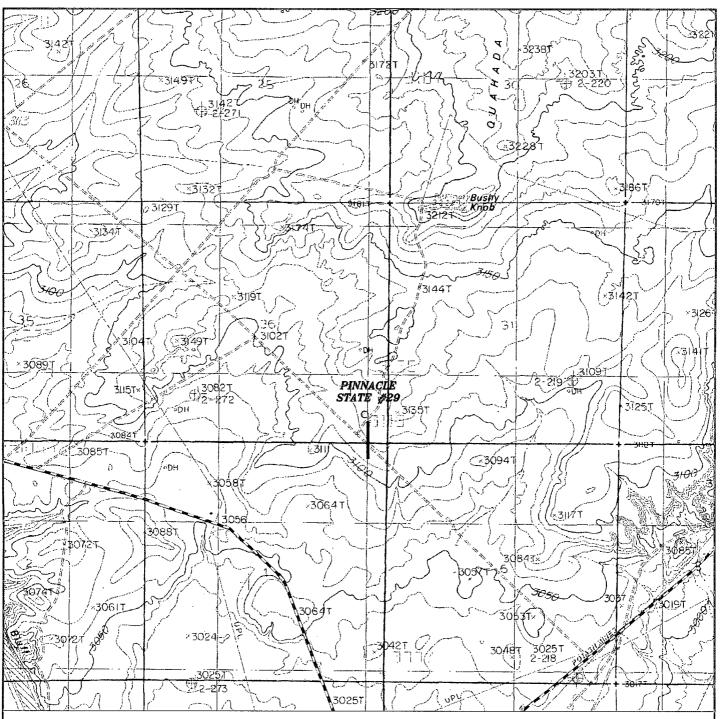


FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service – surface installation.







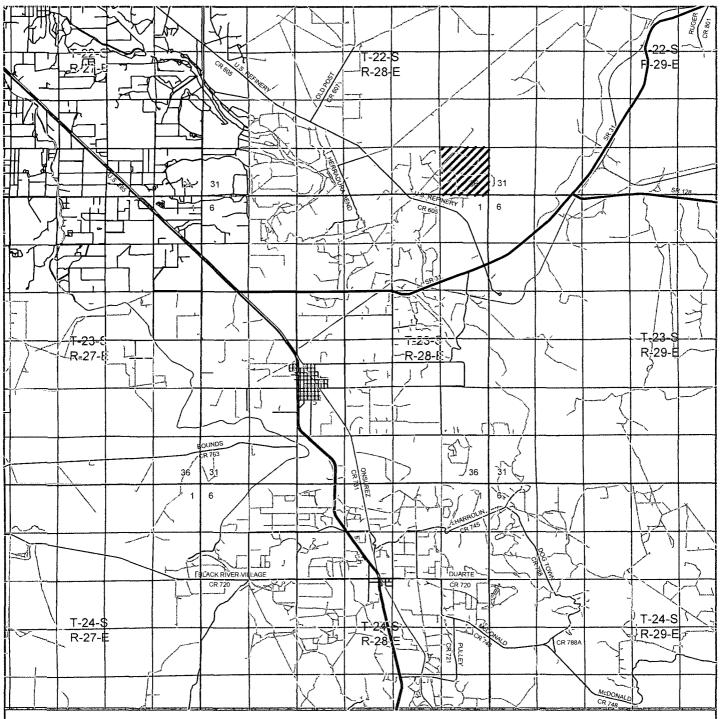
PINNACLE STATE #29 Located 560' FSL and 560' FEL Section 36, Township 22 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

W.O. Number:	JMS 23225
Survey Date:	08-28-2010
Scale: 1" = 2	5000,
Date: 09-13	-2010

RKI EXPLORATION & PRODUCTION LLC



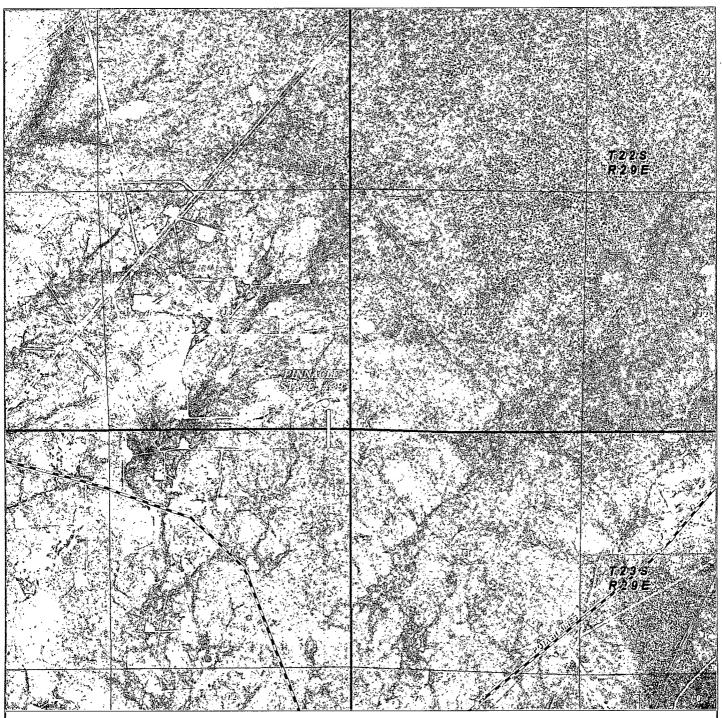
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Scale: 1" = 2000'

YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND

RKI EXPLORATION & PRODUCTION LLC