ENT OF THE INTERIOR

Form 3160-3 (March 2012)

SEP 06 2012

NMOCD ARTESIA NITED STATES

FORM APPROVED OMB No 1004-0137 Expires October 31, 2014

APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allotee or	The Name (9)		
Ia. Type of work: ☐ DRILL ☐ REENTE	7 If Unit or CA Agreement, Name and No.					
lb. Type of Well: ☐ Oil Well	8. Lease Name and Well No. LONGVIEW DEEP FEDERAL 1-21 439					
2. Name of Operator RKI EXPLORATION & PRODUCTION,	LLC. = 24628	ĝ>	9. API Well No.	40651		
3a. Address 3817 NW EXPRESSWAY, SUITE 950 OKLAHOMA CITY, OK. 73112	10. Field and Pool, or Exploratory Aguna UNDESIGNATED MORROW SA					
4. Location of Well (Report location clearly and in accordance with an At surface 1215 FNL & 1260 FWL	11. Sec., T. R. M. or Blk. a SECTION 1, T. 23 S.,	. , 4//				
At proposed prod. zone SAME 14 Distance in miles and direction from nearest town or post office* 5 MILES NORTHEAST OF LOVING, NM	12 12 12 12 12 12 12 12 12 12 12 12 12 1		12. County or Parish EDDY	13. State NM		
15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	e, ft. 200 748-88			ing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 300' southeast of #15 well	19. Proposed Depth 13,500'	1	I/BIA Bond No. on file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3057.37' GL	22. Approximate date work will sta	urt*	23. Estimated duration 35 DAYS			
	24. Attachments					
 The following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	4 Bond to cover Item 20 above). Lands, the 5 Operator certifi	the operatio	is form: ns unless covered by an exi ormation and/or plans as ma			
25. Signature Out W. H. Title PERMIT AGENT FOR RKI EXPLORATION & PRODUCE PERMIT AGENT FOR RKI EXPLORATION & PRODUCE Out To the second sec	Name (Printed/Typed) BARRY W. HUNT		Da	ste 5/8/12		
Approved by (Signature) /s/ Jesse J. Juen Name (Printed/Typed)			A	y6 2 4 201 2		
Title STATE DIRECTOR	Office NM STATE OFFICE					
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	• .		ject lease which would enti	av		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as		willfully to n	nake to any department or a	gency of the United		

Carlsbad Controlled Water Basin

(Continued on page 2)

Approval Subject to General Requirements

& Special Stipulations Attached.

*(Instructions on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or RKI Exploration and Production, LLC am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 8th day of May 2012.

Signed:

Printed Name: Barry Hunt

Position: Agent for RKI Exploration & Production, LLC. Address: 1403 Springs Farm Place, Carlsbad, NM 88220

Telephone: (575) 361-4078

E-mail: specialtpermitting@gmail.com Field Representative: Gene Simer

Address: P. O. Box 370, Carlsbad, NM 88221

Telephone: Office: (575) 885-1313, Cell: (575) 706-3225

P.O. Box 370, Carlsbad, NM 88221 Office 505-885-1313 Fax 505-885-3509

July 17, 2009

To Whom It May Concern:

Mr. Barry Hunt is employed by RKI Exploration & Production to sign as their agent for APD's and Right of Ways in the states of New Mexico and Texas.

If you have any questions, please contact me at my office at 575-885-1313.

Sincerely,

RKI Exploration & Production, LLC

Gene Simer

Production Superintendent

DISTRICT I
1623 N French Dr. Hobbs, NM 88240
Phone (757) 930-1614 Fax. (575) 393-0720
DISTRICT II
811 5 First St. Antesia, NM 88210
Phone (757) 748-1226 Fax. (575) 748-9720
DISTRICT III
1000 Rue Brauos Rd. Azzec, NM 87410
Phone (505) 346-178 Fax. (505) 344-6170
DISTRICT IV
1220 S St Francu Dr., Santa Fe, NM 87503
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, New Mexico 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

S-40651

Pool Code

Property Name

LONGVIEW DEEP FEDERAL 1

Pool Name

Well Number

21

Operator Name Elevation 3057.37 246289 **RKI EXPLORATION & PRODUCTION** Surface Location UL or lot no Township Lot Idn Feet from the North/South line Feet from the East/West line Section Range 1260 WEST **EDDY** 4 1 23 S 28 E 1215 **NORTH** Bottom Hole Location If Different From Surface UL or lot no Feet from the North/South line Feet from the East/West line County Section Township Range Joint or Infill Consolidated Code Order No 8/24 13500

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.

1			OPERATOR CERTIFICATION
	·		I hereby certify that the information contained
<u> </u>	ì		herein is true and complete to the best of my knowledge and belief, and that this organization
10	İ		either owns a working interest or unleased
215	ł.		mineral interest in the land including the proposed bottom hole location or has a right to
7	į		drill this well at this location pursuant to a
\	j		contract with an owner of such a mineral or working interest, or to voluntary pooling
			agreement or a compulsory pooling order
			heretofore entered by the division.
1260' ——•			
LONGVIEW DEEP			K nA
FEDERAL 1-21		1	1 / 1/16 Vall de 1/1/2
NMSP-E (NAD 83)	1	i i	Signature Date
Y = 487066.5' N	1	l	
X = 630331 4' E		[Parry W-Hunt
N LAT.= 32° 20' 19.28" W LONG.= -104° 02' 42.65"			Print Name
W E0149.2 -104 02 42:03		}	/
NMSP-E (NAD 27)		1	E-mail Address
Y = 487006 85' N		1	E-mail Address
X = 589148 9' E N LAT.= 32.3385673°		i	
W LONG.= -104.0446863°			SURVEYORS CERTIFICATION
17 20176. 10 110 110000			I hereby certify that the well location shown on this
1	1		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 19, 2012
			Date of Survey
	1		F. TOW
1		1	Signature and Seal of Professional Surveyor
			WEX T
		1	(14729)
H I		1	
		1	14/29
		[
	{	1	
 			TOTAL STREET, THE
			The Target
1 '		4	Job No.: WTC48404
<u> </u>		1	JAMES E TOMPKINS 14729
	<u>.l</u>	<u> </u>	Certificate Number

DRILLING PLAN

Well

Longview Deep Fed 1-21

Location

1,215 FNL

1,260 FWL

Section 1-26S-28E

County Eddy

State

New Mexico

- 1) The elevation of the unprepared ground is 3,057 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 13,500 feet and run casing. This equipment will then be rigged down and the well will be completed with a workover rig.
- 4) Proposed depth is 13,500 feet.

5) Estimated tops:

108 5084

		BHP		Anticipated	
203		•		MW	
2,555					
2,775					
2,820	Oil	1,221	psi	8.33	ppg
6,355	Oil	2,752	psi	8.33	ppg
9,680	Gas	4,191	psi	8.33	ppg
11,405	Gas	5,703	psi	9.62	ppg
11,770	Gas	5,885	psi	9.62	ppg
12,240	Gas	7,099	psi	11.15	ppg
12,725	Gas	7,381	psi	11.15	ppg
12,885					
13,500		7,827	psi	175	degree F
	2,555 2,775 2,820 6,355 9,680 11,405 11,770 12,240 12,725 12,885	2,555 2,775 2,820 Oil 6,355 Oil 9,680 Gas 11,405 Gas 11,770 Gas 12,240 Gas 12,725 Gas 12,885	203	203 2,555 2,775 2,820 Oil 1,221 psi 6,355 Oil 2,752 psi 9,680 Gas 4,191 psi 11,405 Gas 5,703 psi 11,770 Gas 5,885 psi 12,240 Gas 7,099 psi 12,725 Gas 7,381 psi 12,885	203

Fresh water anticipated at 150 feet.

6) Casing program:	All new casing						Safety Factors	
						1.125	1	1.8
Hole	Тор	Bottom	OD Csg	Wt/Grade	Connection	Collapse	Burst	Tension
Size						Design	Design	Design
						Factor	Factor	Factor
17 1/2"	. 0	235	13 3/8"	54.5#/J-55	ST&C	11.11	54.54	42.71
12 1/2"	0	4,000	9 5/8"	40#/J-55	LT&C	1.48	4.64	3.25
8 3/4"	0	11,700	7" ·	29#/HCP-110	LT&C	1.68	2.66	2.35
6 1/8"	11,400	13,500	4 1/2"	11.6#/HCP-110	LT&C	1.12	1.55	9.75

All new pipe

7) Cement program:

 Surface
 17 1/2" hole

 Pipe OD
 13 3/8"

 Setting Depth
 235 ft

 Annular Volume
 0.69462 cf/ft

Excess 1 100 %

Lead: 244 sx 1.34 cf/sk 13.5 ppg

Lead: "C" + 4% PF20 (gel) + 2% PF1 (CC) + .125 pps PF29 (CelloFlake) + .2% PF46 (antifoam)

Top of cement: Surface

 Intermediate
 12 1/2" hole

 Pipe OD
 9 5/8"

 Setting Depth
 4,000 ft

Annular Volume 0.31318 cf/ft 0.3627 cf/ft Excess 1 0.3627 cf/ft $\frac{100 \%}{100 \%}$

DV Tool Depth 2000 ft

Stage 1

 Lead:
 477 sx
 2.07 cf/sk
 12.6 ppg

 Tail:
 200 sx
 1.33 cf/sk
 14.8 ppg

Lead: 35/65 Poz "C" + 5% PF44 (salt) + 6% PF20 (gel) + 3 pps PF42 (KoalSeal) + .125 pps PF29 (CelloFlake) + .25 pps PF 46 (antifoam)

Tail: "C" + .2% PF13 (retarder)

Top of cement: DV tool

Stage 2

 Lead:
 580 sx
 1.97 cf/sk
 12.9 ppg

 Tail:
 100 sx
 1.33 cf/sk
 14.8 ppg

Lead: 35/65 Poz "C" + 4% PF20 (gel) + 2% PF1 (CC) +.125 pps PF29 (CelloFlake) + .25 pps PF46 (antifoam)

Tail: "C" + .1% PF13 (retarder)

Top of cement: Surface

Production/Inter. 8 3/4" hole Pipe OD 7"

Setting Depth 11,700 ft

Annular Volume 0.15033 cf/ft 0.15848 cf/ft 300 ft

Excess 0.35 35 %

DV Tool Depth 5500 ft

Stage 1

Lead: 856 sx 1.47 cf/sk 13.0 ppg

Lead: PVL (C) + 2% PF174 (expanding agent) + .3% PF167 (UNIFLAC) + .1% PF65 (dispersant) +

.2% PF13 (retarder) + .25 pps PF46 (antifoam)

Top of cement: DV tool

Stage 2

 Lead:
 109
 sx
 2.04 cf/sk
 12.6 ppg

 Tail:
 100
 sx
 1.47 cf/sk
 13.0 ppg

 Lead:
 35/65 Poz "C" + 4% PF20 (gel) + 2% PF1(CC) +.125 pps PF29 (CelloFlake) + .25 pps PF46 (antifoam)

Tail: "C" + .1% PF13 (retarder)

Top of cement: 3,700 ft

Liner 6 1/8" hole Pipe OD 4 1/2"

Setting Depth 13,500 ft Top of Liner 11,400

Annular Volume 0.09417 cf/ft 0.09813 cf/ft 300 ft

Excess 0.35 35 %

Stage 1

Lead: 206 sx 1.21 cf/sk 14.6 ppg

Lead: 50:50 Poz "H" + 2% PF20 (gel) + .25 pps PF46 (antifoam) + .7% 606A (gel supressing agent) + .2% PF65 (dispersant)

Top of cement: Liner top

8) Pressure control equipment:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type (5,000 psi WP) preventer, a bag-type annular preventer (5,000 psi WP), and rotating head. Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and pipe rams (sized to accommodate the drill pipe size being utilized) on bottom.

A 13 3/8" SOW x 13 5/8" 5M casing head will be installed on the 13 3/8" casing and utilized until total depth is reached.

The 13 3/8" casing and BOP equipment will be tested to .22 psi per ft of length or 1,500 psi whichever is greater, but not exceeding 70% burst rating of the casing.

The 9 5/8" casing will be hung in the casing head and the BOP stack will not be nippled down.

The BOP equipment will be isolated with a test plug and tested to 250 psi / 5,000 psi.

The annular will be tested to 250 psi / 2,500 psi.

The 9 5/8" casing will be tested to .22 psi per ft of length

or 1,500 psi whichever is greater, but not exceeding 70% of the burst rating of the casing.

The 7" intermediate casing will be hung in the casing head and the BOP stack will not be nippled down.

The BOP equipment will be isoated with a cup test plug and tested to 250 psi / 5,000 psi.

The annular will be tested to 250 psi / 2,500 psi.

The 7" casing will be tested to .22 psi per ft of length

or 1,500 psi whichever is greater, but not exceeding 70% of the burst rating of the casing.

Based on a 11.2 ppg formation gradient for the Morrow (from offset data) the BOP pressure rating requirement is calculated as: (11.2 ppg)(.052)(13,500 ft) = 7,862 psi

Assuming a partially evacuated hole with a .22 psi/ft gradient: 7,862 psi - (.22 psi/ft)(13,500 ft) = 4,892 psi

After drilling approximately 10 feet of new formation below the 7" intermediate the shoe will be tested to an 11.5 ppg equivalent mud weight.

Pipe rams will be operated and checked each 24 hour period and each time the drill string is out of the hole.

These function test will be documented on the daily driller's log.

A drilling spool or blowout preventer with 2 side outlets (choke side shall be 3" minimum diameter, kill side shall be at least 2" diameter).

2 kill line valves, one of which will be a check valve.

2 chokes on the manifold along with a pressure gauge.

Upper kelly cock valve with handle available.

Safety valve and subs to fit all drill string connections in use.

All BOP equipment connections subjected to pressure will be flanged, welded, or clamped.

Fill up line above the upper most preventer.

9) Mud program:

Тор	Bottom	Mud Wt.	Vis	PV	ΥP	Fluid Loss	Type System
0	235	8.5 to 8.9	32 to 36	6 - 12	2 - 8	NC	Fresh Water
235	4,000	9.8 to 10.0	28 to 30	1 - 6	1 - 6	NC	Brine
4,000	11,700	8.9 to 9.1	28 to 36	1 - 6	1 - 6	NC	Cut Brine/Fresh Water
11,700	13,500	9.5 to 11.2	36 to 45	15 - 25	12 - 20	6 - 8	Cut Brine/Fresh Water

10) Logging, coring, and testing program: See CoA

No drillstem test are planned

Total depth to intermediate: CNL, Caliper, GR, DLL,

Intermediate to surface: CNL, GR

No coring is planned

See COA

guves extra or 10 M system within 10 % of 10 M system

11) Potential hazards:

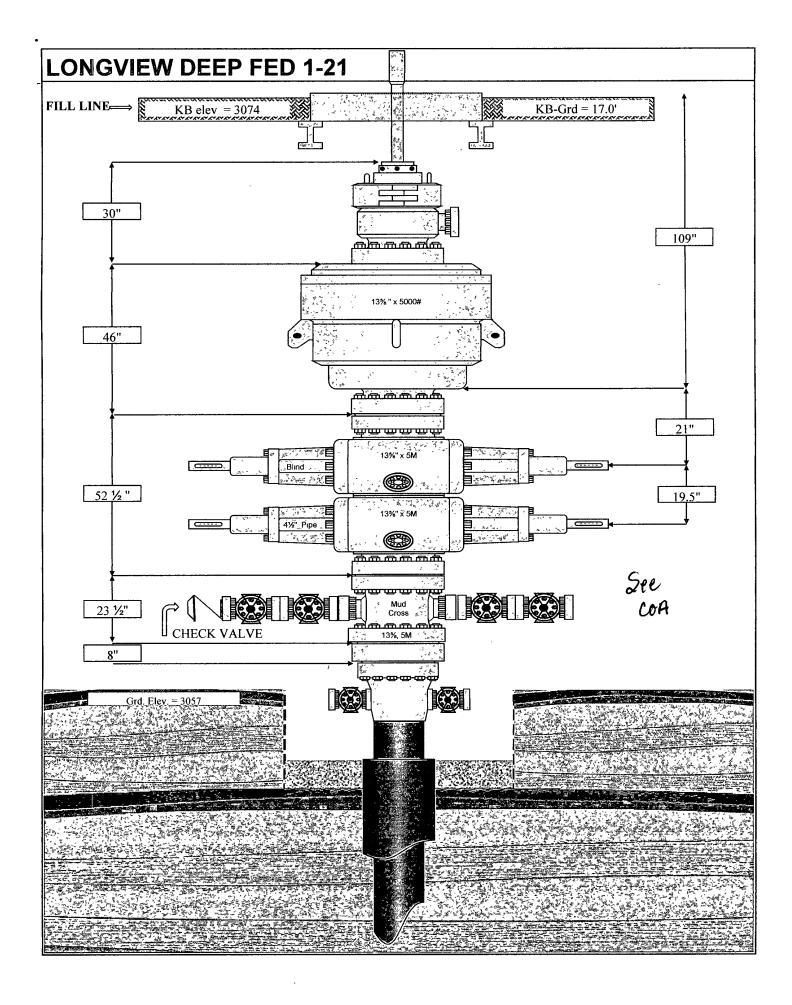
No abnormal pressure or temperature is expected. No H2S is known to exist in the area. Though lost circulation is not anticipated, lost circulation material will be available on location.

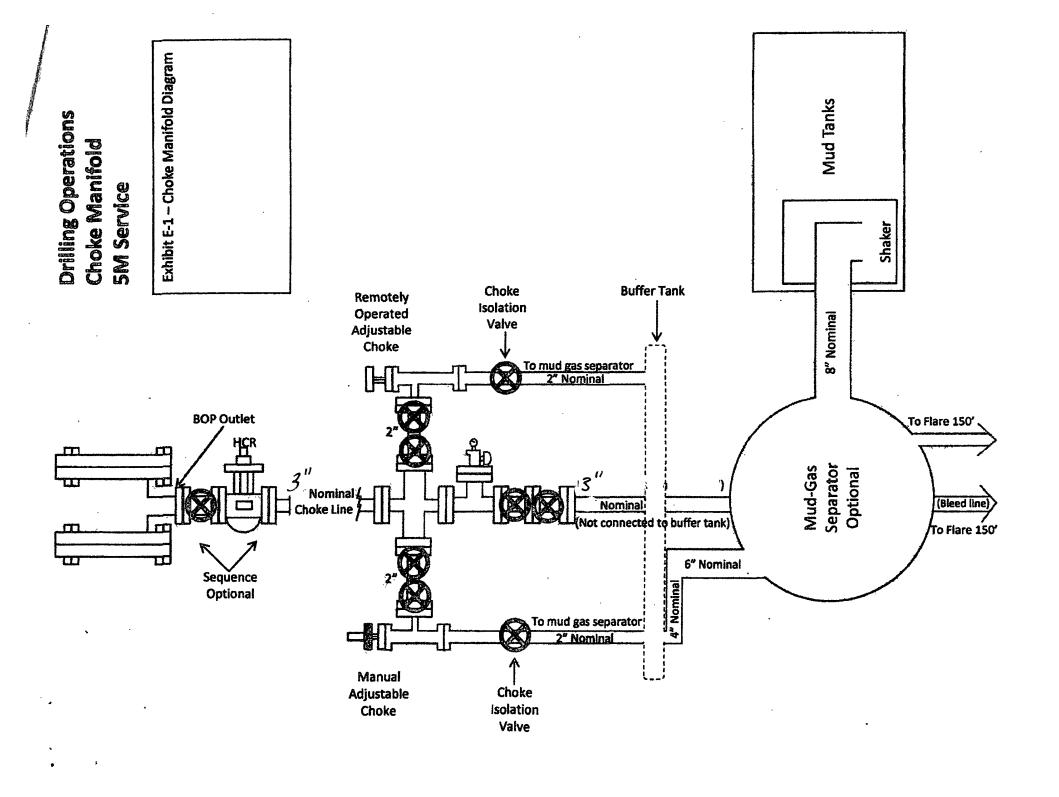
12) Anticipated Start Date

June '12

Duration

35 days





Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

This well and its anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be Hydrogen Sulfide production in the nearby area. There are no private Residences in the area but a contingency plan has been orchestrated. RKI Exploration and Production will have a Company Representative available to rig personnel through out drilling or production operations. If hydrogen sulfide is detected or suspected, monitoring equipment will be acquired for monitoring and/or testing.

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

TABLE OF CONTENTS

COVER PAGE AND REASONING	Page 1
GENERAL EMERGENCY PLAN	Page 3
EMERGENCY PROCEDURE FOR UNCONTROLLED RELEASES OF H2S	Page 3-4
EMERGENCY NUMBERS	Page 4-5
PRODUCTION OF THE GENERAL RADIUS OF EXPOSURE RADIUS OF EXPOSURE (ROE)	Page 6
PUBLIC EVACUATION PLAN	Page 6-7
PROCEDURE FOR IGNITING AN UNCONTROLLABLE:	
PROCEDURE FOR IGNITION	Page 7
REQUIRED EMERGENCY EQUIPMENT	Page 8
USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA)	Page 9
RESCUE & FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING	Page 9-10
H2S TOXIC EFFECTS	Page 11
H2S PHYSICAL EFFECTS	Page 11
Briefing Area	Page 12

HYDROGEN SULFIDE (H2S) CONTINGENCY DRILLING PLAN

This well and its anticipated facility are not expected to have hydrogen sulfide releases. However, there may be hydrogen sulfide production in the nearby area. There are no private residences in the area but a contingency plan has been orchestrated. RKI Exploration & Production will have a company representative available to rig personnel throughout the drilling and production operations. If hydrogen sulfide is detected or suspected, monitoring equipment will be acquired for monitoring and or testing.

GENERAL H2S EMERGENCY ACTIONS

- 1. All personnel will immediately evacuate to an up-wind and if possible up- hill "safe area".
- 2. If for any reason a person must enter the hazardous area, they must wear a SCBA (Self Contained Breathing Apparatus).
- 3. Always use the "buddy system"
- 4. Isolate the well/problem if possible
- 5. Account for all personnel
- 6. Display the proper colors warning all unsuspecting personnel of the danger at hand.
- 7. Contact the Company personnel as soon as possible if not at the location (use the enclosed call list)

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of the emergency response agencies and nearby residents.

EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H2S

- 1. All personnel will don the self-contained breathing apparatus
- 2. Remove all personnel to the "safe area" (always use the buddy system)
- 3. Contact company personnel if not on location
- 4. Set in motion the steps to protect and or remove the general public to an upwind "safe area". Maintain strict security and safety procedures while dealing with the source.
- 5. No entry to any unauthorized personnel
- 6. Notify the appropriate agencies.
- 7. Call NMOCD

If at this time the supervising person determines the release of the H2S cannot be contained to the site location and the general public is in danger he will take the necessary steps to protect the workers and the public.

EMERGENCY CALL LIST (Start and continue until ONE of these people has been contacted)

 RKI Exploration & Production
 1-800-667-6958

 Frank Collins
 575-725-9334

 Gene Simer
 575-706-3225

 Lonnie Catt
 575-202-1444

Brent Umberham 405-623-5080

Tim Haddican 405-823-2872

EMERGENCY RESPONSE NUMBERS

State Police Eddy County 575-748-9718
State Police Lea County 575-392-5588

Sheriff Eddy County 575-746-2701

Emergency Medical Eddy County 911 or 505-746-2701 Ambulance Lea County 911 or 505-394-3258

Emergency Response Eddy County SERC 575-476-2701

Carlsbad Police Dept 575-885-2111 Carlsbad Fire Dept 575-885-3125

Loco Hills Police Dept 575-677-2349

 Jal Police Dept
 575-395-2501

 Jal Fire Dept
 575-394-3258

 Jal Abulance
 575-395-2221

NMOCD District 1 (Lea, Roosevelt, Curry) 575-393-6161

District 2 (Eddy, Chavez) 575-392-2973

Baker Artesia 575-746-3140

Halliburton Artesia 1-800-523-2482 Hobbs 1-800-523-2482

ParFive Artesia 575-748-1288

Wild Well Control Midland 432-550-6202

PROTECTION OF THE GENERAL PUBLIC

- 1. 100 ppm at any public area (any place not associated with this site)
- 2. 500 ppm at any public road (any road the general public may travel)
- 3. 100 ppm radius of ¼ mile in New Mexico will be assumed if there is insufficient data to calculate radius of exposure and there is reasonable expectation that H2S could be present in concentrations greater than 100 ppm in the gas mixture.

CALCULATION FOR THE 100 PPM (ROE) "PASQULL-GIFFFORD EQUATION

 $X = ((1.589)(\text{mole fraction})(Q - \text{volume in scf}))^0.6258$

CALCULATION FOR THE 500 PPM (ROE)

 $X = ((.4546) \text{(mole fraction)}(Q - \text{volume in scf})^0.6258$

Example:

A well is determined to have 150 / 500 ppm H2S in the gas mixture and the well/facility is producing at a gas rate of 100 mcfd

150 ppm

 $X = ((1.589)(150/100,000)(100,000))^0.6258 = 7 \text{ ft}$

500 ppm

 $X = ((.4546)(500/100,000)(100,000))^0.6258 = 3.3 \text{ ft}$

These calculations will be forwarded to the appropriate NMOCD office when applicable

PUBLIC EVACUATION PLAN

- 1. Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- A trained person in H2S safety shall monitor with detection equipment the H2S concentration, wind and area of exposure.
 This person will determine the outer perimeter of the hazardous area. The extent of the evaluation area will be determined from the data being collected.
- 3. Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure. The company supervisor shall stay in communications with all agencies through the duration of the situation and inform them when the situation has been contained and the affected area(s) is safe to enter.

IGNITION OF THE GAS

- 1. Human life and or property are in danger
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site
- 3. Two people are required. They must be equipped with positive pressure, self-contained breathing apparatus and "D" ring style full body, OSHA approved safety harness. Non-flammable rope will be attached.
- 4. One of the people will be qualified safety person who will test the atmosphere for H2S, oxygen and LFL. The other person will be the company supervisor, he is responsible for igniting the well.
- 5. Ignite up wind from a distance no closer than necessary. Before igniting, make a final check of combustible gases.
- 6. Following ignition, continue with the emergency actions and procedures as before.

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air= 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	S0₂	2.21 Air= 1	2ppm	N/A	1000 ppm

REQUIRED EMERGENCY EQUIPMENT

1. Breathing apparatus

Rescue Packs (SCBA) – 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer with radio communications.

Work/Escape Packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.

Emergency Escape Packs – 4 – packs shall be stored in the doghouse for emergency evacuation.

2. Signage and Flagging

One color cod condition sign will be placed at the entrance to the site indicating possible conditions at the site

A colored conditions flag will be on display, indicating the conditions at the site at the time

3. Briefing Area (see attachment)

4. Wind Socks

Two windsocks will be placed in strategic locations, visible from all angles

5. H2S Detectors & Alarms

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible at 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: (gas sample tubes will be stored in the safety trailer)

Rig floor
Bell nipple
End of flow line or where well bore fluid is being discharged

6. Auxiliary Rescue Equipment and misc.

Stretcher
Two OSHA full body harnesses
100 ft. 5/8" OSHA approved rope
1 – 20# class ABC fire extinguisher
Communication via cell phones on location and vehicles on location
Flare gun/flares

Well Control Equipment

1. BOP Equipment

5,000 psi blowout preventer (pipe and blind rams)
5,000 psi annular preventer
5,000 psi rotating head
5,000 choke manifold (equipped with hydraulic choke)
Mud/gas separator
Flare stack with solar powered igniter (with battery backup igniter) 150' from the well

Mud info and H2S Operating Mud Conditions

Though no H_2S is anticipated during the drilling operation, this contingency plan will provide for methods to ensure the well is kept under control in the event an H_2S reading of 100 ppm or more are encountered. Once personnel are safe and the proper protective gear is in place and on personnel, the operator and rig crew essential personnel will ensure the well is under control, suspend drilling operations and shut-in the well (unless pressure build up or other operational situations dictate suspending operations will prevent well control), increase the mud weight and circulate all gas from the hole utilizing the mud/gas separator downstream of the choke, the choke manifold and the emergency flare system located 150' from the well. Bring the mud system into compliance and the H_2S level below 10 ppm, then notify all emergency officers that drilling ahead is practical and safe. Proceed with drilling ahead only after all provisions of Onshore Order 6, Section III.C. have been satisfied. Mud will be a fresh water/brine system with the proper H2S scavengers on location and utilized when necessary. Mud pH will also be kept at a level to minimize sulfide stress cracking and embrittlement when H2S is present in the mud system.

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED:
 - Working near the top or on the top of a tank
 - Disconnecting any line where H2S can reasonably be expected
 - Sampling air in the area to determine if toxic concentration of H2S can exist.
 - Working in areas where over 10 ppm on H2S has been detected.
 - At any time there is a doubt as the level of H2S in the area.
- All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.
- Air quality shall be continuously checked during the entire operation.
- After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected.
- All SCBA shall be inspected monthly.

RESCUE AND FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING:

- Do not panic
- Remain calm and think
- · Get on the breathing apparatus

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

- Remove the victim to the safe breathing area as quickly as possible. Up wind and uphill from source or cross wind to achieve upwind.
- Notify emergency response personnel.
- Provide artificial respiration and or CPR, as necessary.
- Remove all contaminated clothing to avoid further exposure.
- A minimum of two personnel on location shall be trained in CPR and First Aid.

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

H2S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H2S is approximately 20% heavier than air (Sp. Gr = 1.19) (Air = 1) and colorless. It forms an explosive mixture with air between 4.3% and 46%. By volume hydrogen sulfide is almost as toxic as hydrogen cyanide and is 5-6 times more toxic than carbon monoxide.

CHEMICAL ABBREY.	SPECIFIC GRVTY.	THRESHOLD LIMITS	ILAZARDOUS LIMITS	LETHAL CONCENTRATIONS
H2S	1.19	10 ppm 15 ppm	100 ppm/hr	600ppm
HCN	0.94	10 ppm	150 ppm/hr	300 ррт
\$O2	2.21	2 ppm	N/A	1000 ppm
Cl.2	2.45	1 ppm	4 ppm/hr	1000 ppm
CO	0.97	50 ppm	400 ppin/hr	1000 ppm
CO2	1.52	5000 ppm	5%	10%
CH4	0.55	90,000	Combustible @ 5%	N/A
	H2S HCN SO2 CL2 CO CO2	ABBREY. GRVTY. H2S 1.19 HCN 0.94 SO2 2.21 Cl.2 2.45 CO 0.97 CO2 1.52	ABBREV. GRVTY. LIMITS	ABBREV. GRVTY. LIMITS LIMITS H2S 1.19 10 ppm 15 ppm 100 ppm/hr HCN 0.94 10 ppm 150 ppm/hr SO2 2.21 2 ppm N/A Cl.2 2.45 1 ppm 4 ppm/hr CO 0.97 50 ppm 400 ppm/hr CO2 1.52 5000 ppm 5%

Threshold Limit: Concentrations at which it is believed that all workers may be repeatedly

exposed, day after day without adverse effects.

Hazardous Limit: Concentrations that may cause death.

Concentrations: Concentrations that will cause death with short term exposure.

Threshold Limit: NIOSH guide to chemical hazards

(10 ppm)

PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

CONCE	NTRATION	PHYSICAL EFFECTS
.001% 10 ppm		Obvious and unpleasant odor. Safe for 8 hr. exposure
.005%	50 ppm	Can cause some flu like symptoms and can cause pneumonia.
.01%	100 ppm	Kills the sense of smell in 3-15 minutes. May irritate the eyes and throat.
.02%	200 ppm	Kills the sense of smell rapidly. Severely irritates the eyes and throat. Severe flu-like symptoms after 4 or more hours. May cause lung damage and or death.
.06%	600 ppm	Loss of consciousness quickly, death will result if not rescued promptly.

H25 Briefing areas & Alarm Locations

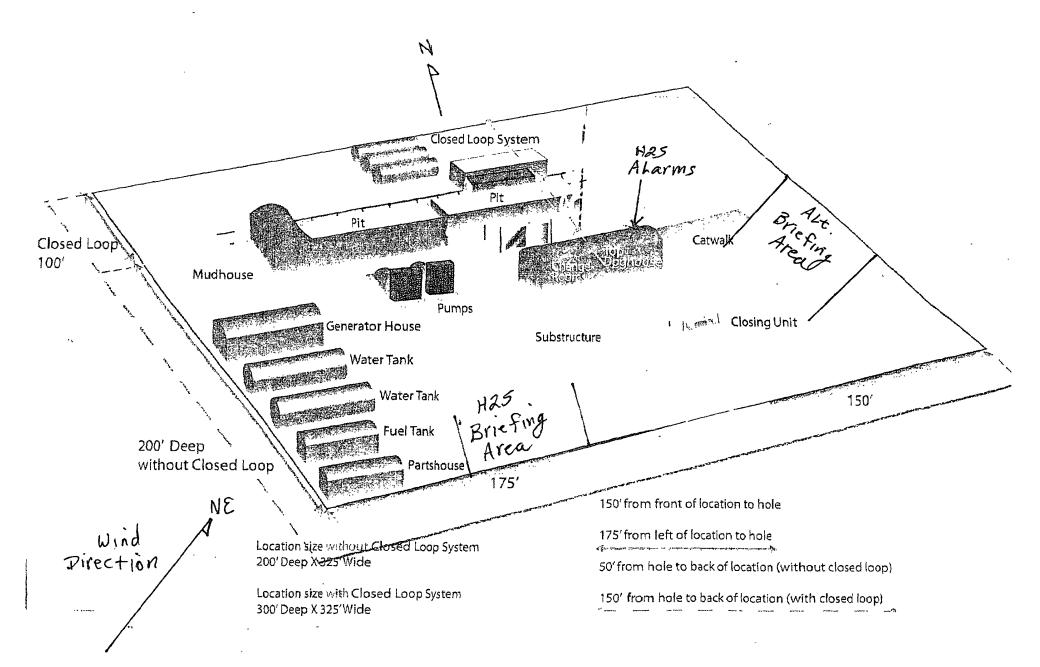
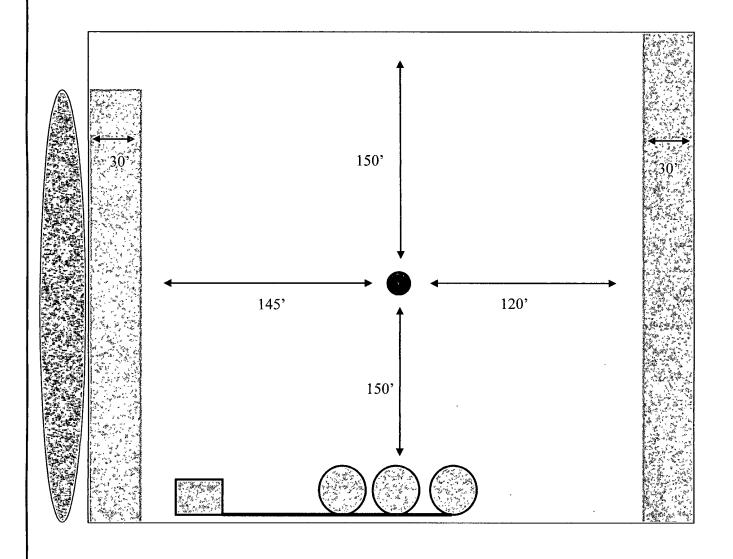
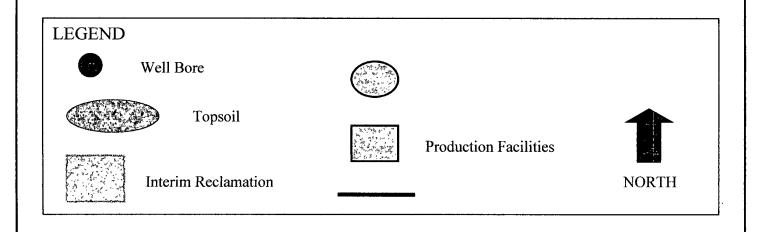


EXHIBIT C

Interim Reclamation & Production Facilities LONGVIEW DEEP FEDERAL 1-21 V-DOOR EAST





PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: RKI EXPLORATION
LEASE NO.: NM91078
WELL NAME & NO.: 21-LONGVIEW DEEP FEDERAL 1
SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE
LOCATION: Section 1, T. 23 S., R. 28 E., NMPM
COUNTY: Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.