Fonn 3160-3 (April 2004) UNITED STATES			FORM API OMB No. 14 Expires Man 5. Lease Serial No.	PROVED 004-0137 #31, 2007
DEPARTMENT OF THE I BUREAU OF LAND MAN			NM-91078	·
APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allotee or	Tribe Name
ia. Type of work: DRILL REENTE	R SECRETARY'S POT	ASH	7 If Unit or CA Agreem	
Ib. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip	le Zone	8. Lease Name and Wel Longview Federa	- /
2 Name of Operator RKI Exploration & Production, LLC.	(246289)		9. API Well Na 30-01	15-3807
3a. Address 3817 NW Expressway, Suite 950 Oklahoma City, Oklahoma 73112	3b. Phone No. (include area oxk) 405-996-5750		10. Field and Pool, or Exp South Culebra B	•
4 Location of Well (Report location clearly and in accordance with any At surface 3/3 510 FSL & 330 FEL, Section 01, T. At proposed prod. zone Same	y State requirements.*) 23 S., R. 28 E. 42. P)	11. Sec., T. R. M. or Blk. Section 01, T. 23	•
 Distance in miles and direction from nearest town or post office^b Approximately 3 miles northeast of Loving, NM. 	- p-1	•	12 County or Parish Eddy	13 State
15. Distance from proposed* location to nearest	16. No. of acres in lease	17, Spacin	ng Unit dedicated to this wel	<u> </u>
property or lease line, ft. (Also to nearest drig, unit line, if any)	800	80		
18 Distance from proposed location*	19. Proposed Depth	20. BLM	BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, fl. 1800 ft.	9200 ft.	NLM	-NMB-000460	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3042' GL	22 Approximate date work will sta	ri*	23. Estimated duration 30 days	
	24. Attachments			
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office)	Lands, the 5. Operator certific 6. Such other site authorized offic	ation specific info	ormation and/or plans as m	ay be required by the
25. Signature Land	Name (Printed Typed) Barry W. Hunt		U	4130/10
Title Permitting Agent for RKI Exploration & Product	flon, LLC.			
Approved by Approved Man Schall	Name (Printed Typed)	1. R	undell D	ale, /16 /10
STATE DIRECTOR	Office	STAT	e office	, ,
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equitable title to those righ		oject (Lase which would enti ROVAL FOR T	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a constant statements or representations as it	nime for any person knowingly and vote any matter within its jurisdiction.	villfully to r	nake to any department or a	ngency of the United
*(Instructions on page 2) Carlsbad Controll	ed Water Basin			
OCD CONDITION OF APPROVAL of Drilling:		1		
Intent to drill ONLY CANNOT produce until the No Location has been approved by OCD Santa Fe office	on-Standard			
ATTACHED FOR	275		Approval Subject t & Special Sti	o General Require pulations Attached
DITIONS OF APPROVAL			,	,

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenue, Artesie, NM 88210

DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised October 15, 2009

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

1000 Rio Brazos Rd., Azteo, NM 67410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe. NM 67505

	WELL LOCATION AND	ACREAGE DEDICATION PLAT	LI AMENDED REPOR
API Number 30-015-38070	Pool Code 15011	Pool Name SOUTH CULEBREA BLUFF BO	NE SPRING
Property Code	Property Name Well Nu LONGVIEW FEDERAL "1" 44		Well Number 44
OGRID No.	• *	ator Name & PRODUCTION LLC	Elevation 3039'

Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Ρ 1 23 S 28 E 360 SOUTH 330 **EAST EDDY** Bottom Hole Location If Different From Surface UL or lot No. Section Lot Idn Feet from the North/South line East/West line Township Range Feet from the County Dedicated Acres Joint or Infill Consolidation Code Order No. 80

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

 MAIG-NON A NO	DARD UNIT HAS BEE	N APPROVED DI IN	E DIAISION
			OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the location or has a right to drill this well at this 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. Barry W. Huxi
 o pany nama sanna sonna huwa pana so	 		SURVEYOR CERTIFICATION 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
			supervison and that the same to true and correct to the brotton my belief. Date Buryeyin Co Signature & Seal of
	SURFACE LOCATION Lat - N 32*19*42.58" Long - W 104*01*58.89" NMSPCE- N 483368.173 E 634095.864 (NAD-83)	3040.0' <u>3037</u> 3 330' 3033.8'	Certificate No. Ggry L. Jones 7977

OPERATOR'S COPY

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

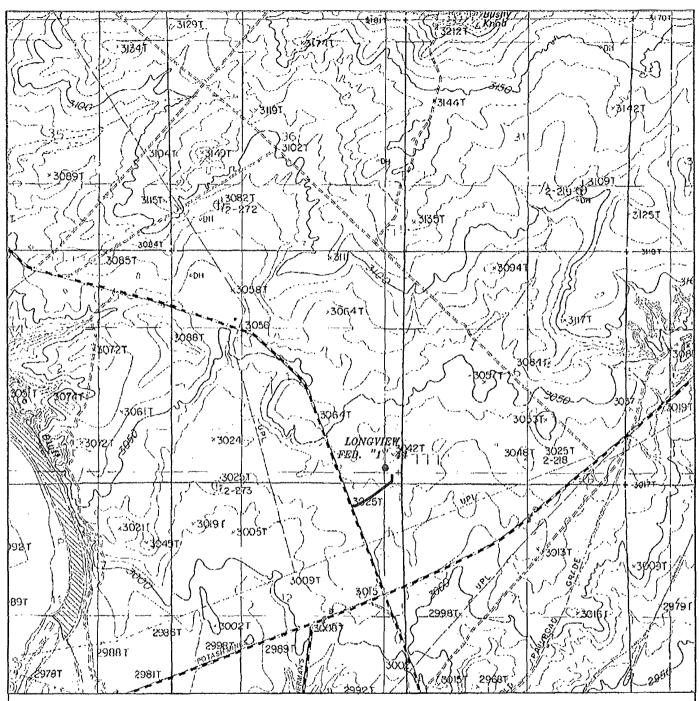
BUREAU OF LAND MANAGEMENT		5. Lease Serial No. NM-91078		
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.			6. If Indian, Allottee or	Tribe Name
SUBMIT	IN TRIPLICATE – Other instructions or	n page 2.	7. If Unit of CA/Agree	ment, Name and/or No.
1. Type of Well			8. Well Name and No.	
Oil Well Gas W	ell Other	·	Longview Federal 1-	44
Name of Operator RKI Exploration & Production, LLC.			9. API Well No.	
3a. Address 3817 NW Expressway, Suite 950		(include area code)	10. Field and Pool or E South Culebra Bluff	•
Oklahoma City, Oklahoma 73112 4. Location of Well (Footage, Sec., T., I	R. M. or Survey Description)	J (Blil Aubrey)	11. Country or Parish.	
360 FSL & 330 FEL, Section 1, T. 23 S , R. 28 E			Eddy	
12. CHEC	K THE APPROPRIATE BOX(ES) TO IND	ICATE NATURE OF NO	OTICE, REPORT OR OTHE	R DATA
TYPE OF SUBMISSION		TYPE OF A	ACTION	
Notice of Intent	Acidize Deep	en 🔲 I	Production (Start/Resume)	☐ Water Shut-Off
	Alter Casing Fracti	ure Treat 🔲 I	Reclamation	Well Integrity
Subsequent Report			Recomplete	Other Move of location
r			Temporarily Abandon	
Final Abandonment Notice	Convert to Injection Plug Peration: Clearly state all pertinent details, in		Water Disposal	
Attached are the new plats for the re Old location: 510 FSL & 330 FEL, S to New location: 360 FSL & 330 FEL		entioned well due to the	e close proximity of a Play	a.
14. I hereby certify that the foregoing is to	rue and correct. Name (Printed/Typed)	Title Pormit Agant fo	r RKI Exploration & Produ	uction LLC
Signature Bay W	. Hist	Date 7	6/10	Action between
	THIS SPACE FOR FEDE	RAL OR STATE	OFFICE USE	
Approved by Conditions of approval, if any, are attached	Muleul d. Approval of this notice does not warrant or or		DIRECTOR ,	Dalo 7/16/10

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.

NM STATE OFFICE

(Instructions on page 2)

that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.



LONGVIEW FEDERAL "1" #44 Located 360' FSL and 330' FEL Section 1, Township 23 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.



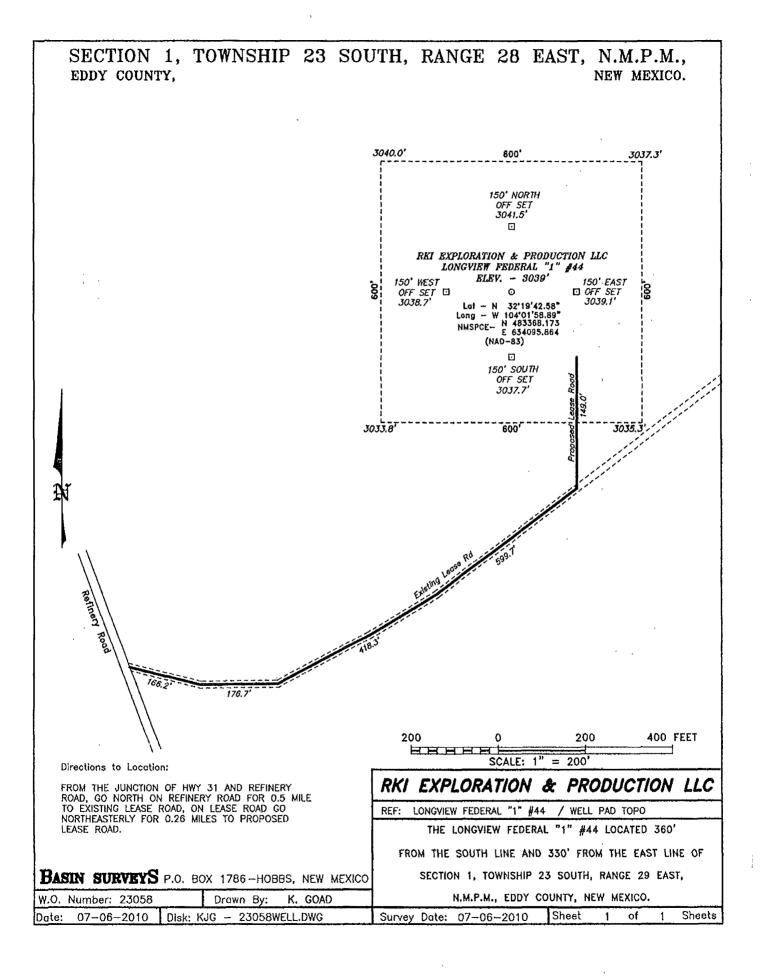
P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax

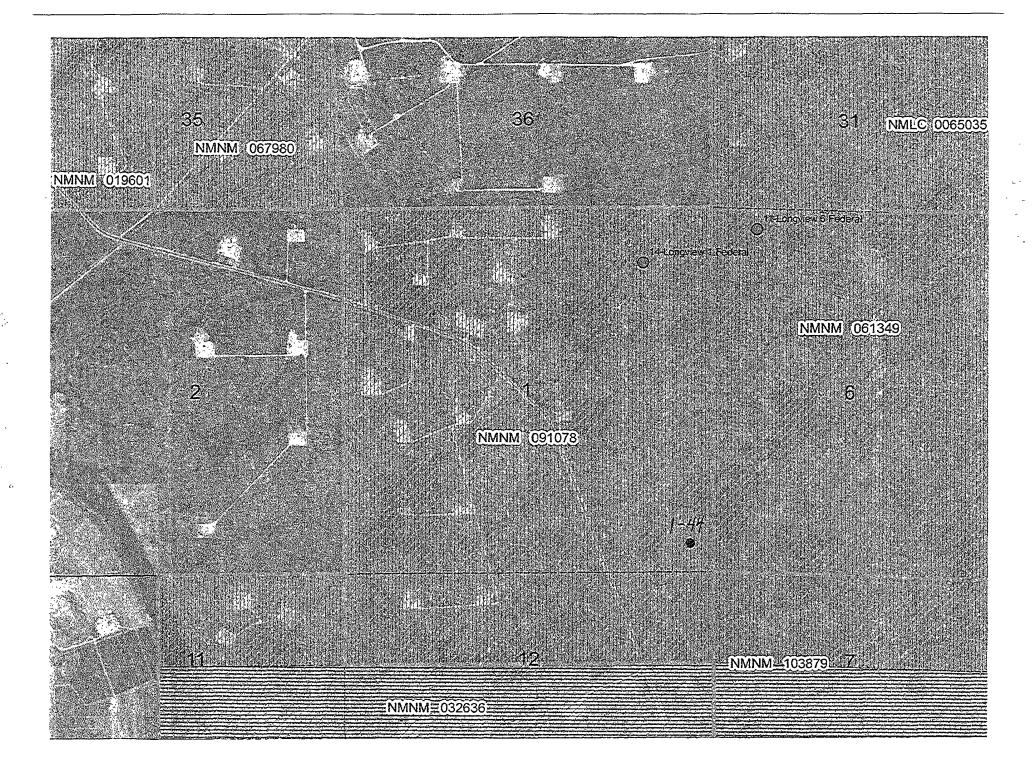
basinsurveys.com

W.O. Number: KJG 23058 07-06-2010 Survey Date: Scale: 1" = 2000'

Date: 07-06-2010

RKI EXPLORATION & PRODUCTION LLC





RKI EXPLORATION & PRODUCTION, LLC. **DRILLING PLAN**

Jongview Federal #1-44 Jones FSL & 330 FEL UNIT "P" SEC. 1-23S-28E EDDY CO., NM

- 1. The elevation of the unprepared ground is 3042 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 9,200' md. and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.
- 4. Proposed total depth is 9,200' md.
- 5. Estimated tops of important geologic markers:

Quaternary - Alluvium	Surface	
Rustler	203'	md.
Salado	245'	md.
Top of Salt	512'	md.
Base of Salt	2,635	md.
Lamar Lime	2,740'	md
Base of Lime	2,780'	md.
Delaware Top	2,840'	md.
Bell Canyon Sand	2,840'	md,
Cherry Canyon Sand	3,850'	md.
Brushy Canyon Sand	4,815'	md.
Bone Spring	6,400°	md.
Bone Spring 1st Sand	7,510'	md.
Bone Spring 2 nd Sand	8,280'	md.
TD	9,200'	md.

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

Bell Canyon	Oil	2,840' md,
Cherry Canyon	Oil	3,850' md.
Brushy Canyon	Oil	4,815' md.
Bone Spring	Oil	6,400' md.

7. The proposed new casing program is as follows:

Surface (New): 13-3/8" 68# J-55 ST&C casing set from 0' - 260' Tension SF 2.0, Collapse SF 1.125, Burst SF 1.8.

Intermediate (New): 8-5/8" 32# J-55 ST&C casing set from 0'-3,530' 5ee C 0 A Tension SF 2.0, Collapse SF 1.125, Burst SF 1.8.

Production (New): 5-1/2" 17# N-80 LT&C casing set from 0' - 9,200' 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 260' in 17-1/2" hole. Circulate cement to surface with 335 sx Class C + 2% S1 mixed at 14.8 ppg, yield 1.34 cf/sk.
- b. 8-5/8" 36# casing set at 3,530' in 12-1/4" hole. A fluid caliper will be performed to determine exact cement volume required. Cement will be circulated to surface with 750 sx 35:65 Poz Class C + 5% D44 + 6% D20 + .2% D46 + 0.125 pps D130 mixed at 12.6 ppg, yield 2.05 cf/sk and 200 sks Class C + .2% D13 mixed at 14.8 ppg, yield 1.33 cf/sk.
- c. 5-1/2" 17# J-55 casing set at 9,200' in 7-7/8" hole. Hole will be logged to determine exact cement volume to circulate cement surface. The well will be cemented in two stages as follows: Stage 1: 750 sx PVL with 3% D174, .3% D167, .1% D65, .2% D46, .4% D800 mixed at 13.00 ppg (1.43cf/sk). DV tool at approximately 4500'
 Stage 2. 600 sx 35:65 Poz "C" with 5% D44, 6% D20, .2% D46, .3% D13, 2pps D42, .125 pps D130 mixed at 12.6 ppg (2.08 cf/sk).

These are estimates final volumes will be determined from caliper log.

9. Pressure Control Equipment

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (5M system) double ram type (5000 psi WP) preventor and a bag-type (Hydril) preventor (5000 psi WP) and rotating head. Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4 - 1/2" drill pipe rams on bottom. The drilling head will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested before drilling out the 13 3/8" casing shoe (70% of 68#, J-55 casing). Prior to drilling out the 8 5/8" casing shoe, the BOP's and Hydrill will be tested as per BLM Drilling Operations Order #2.

Longview Federal #1-44

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. A 2" kill line with a 2" check valve and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having 5000 psi WP rating.

10. Mud Program:

0' - 260' Fresh water/native mud. Lime for pH control (9-10). Paper for seepage. Wt. 8.4 - 9.4 ppg, viscosity 32 - 34 cp.

Saturated brine. Sweep as necessary, weight 10.0 ppg. 2750° 3,530° - 4,000° Fresh Water/mud, weight 8.4 - 9.3. Sweep as necessary.

4,000' - 9,200' Brine/Fresh water mud system, weight 8.4 - 9.5 ppg viscosity 30 - 34 cp. Control fluid loss < 15cc.

11. Testing, Logging and Coring Program: See COA

Testing program: No drillstem tests are anticipated.

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

Coring program: None.

12. Potential Hazards:

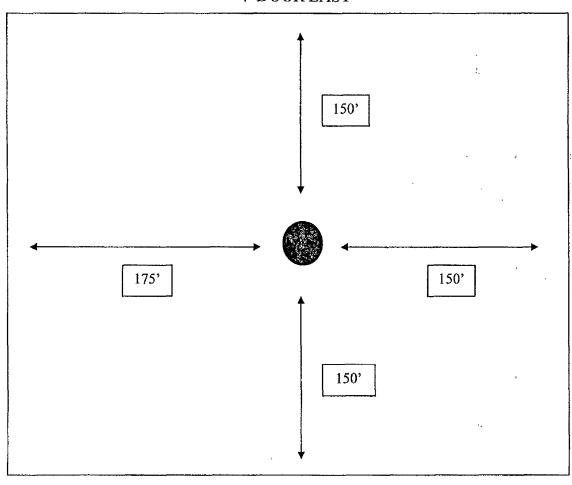
No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3500 psi and estimated BHT 135

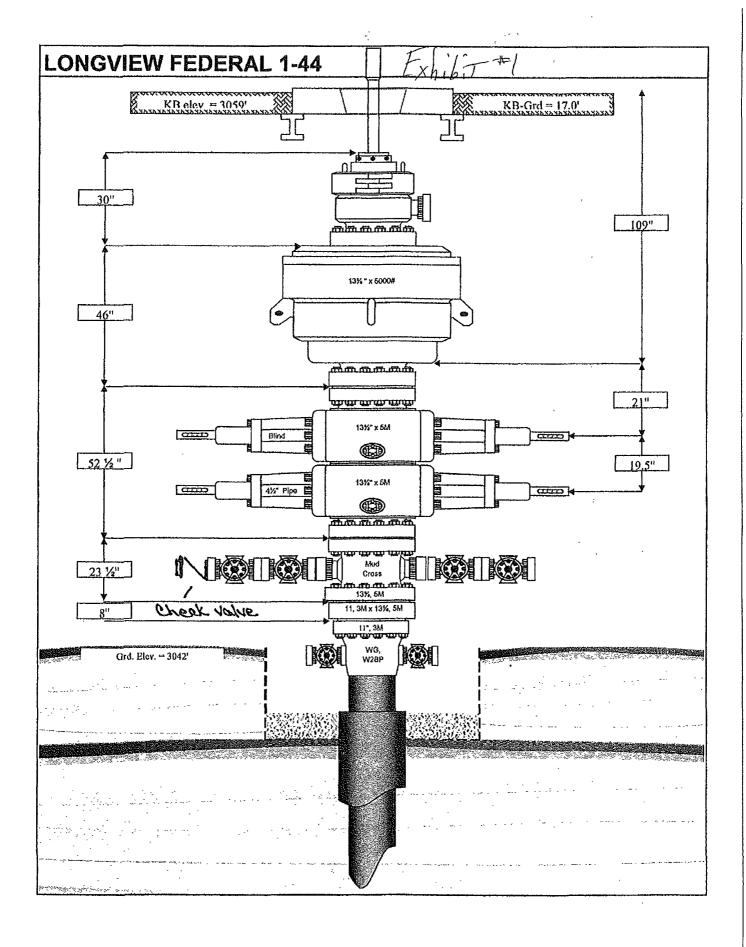
13. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be soon after BLM approval and as soon as a rig will be available, Move in operations and drilling is expected to take 32 days. If production casing is then an additional 30 days will be needed to complete the well and to construct surface facilities and/or lay flow lines in order to place well on production.

Rig Plat Only Silver Oak Drilling, LLC Rig #6, #7 & #9

V-DOOR EAST





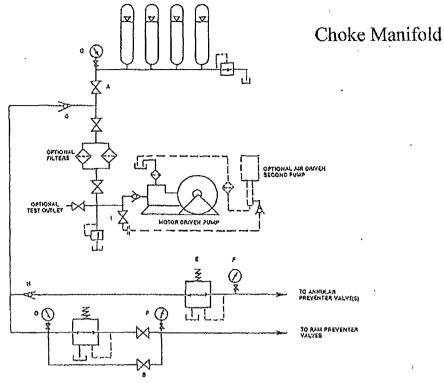
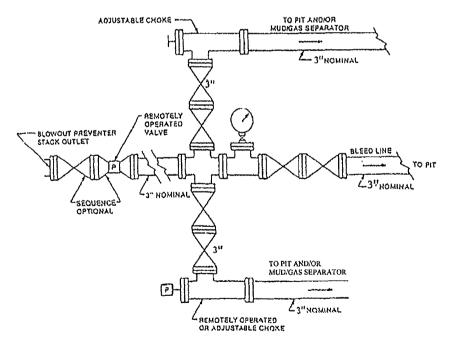
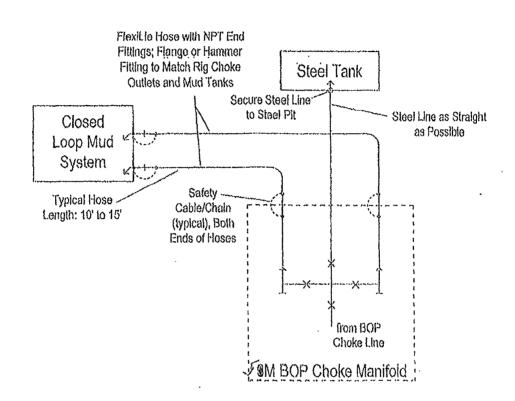


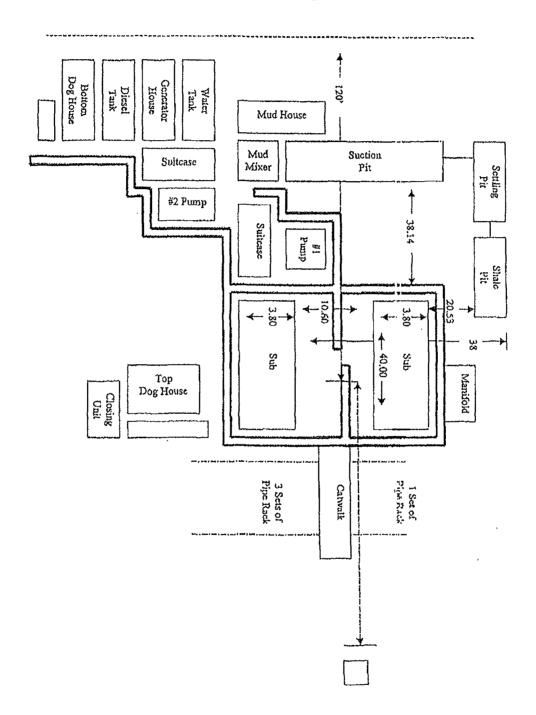
FIGURE X61. The schematic sketch of an accumulator system shows required and optional components,



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



Plat for Closed Loop System



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

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Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

General H2S Emergency Actions:

- 1. All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area".
- 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.
- Contact the Company personnel as soon as possible if not at the location (use the enclosed call list as instructed)

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 and upwind "safe area" Maintain strict security & safety procedures while dealing with the source.
- 5. No entry to any unauthorized personnel
- 6. Notify the appropriate agencies: City Police -- City Street(s)

State Police - State Rd. County Sheriff - County Rd.

7. Call the NMOCD

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

If at this time the supervising person determines the release of H2S cannot be contained to the site location and the general public is in harms way 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)

	OFFICE	MOBILE	HOME
RKI E&P	1-800-667-6958		
Gene Simer	575-885-1313	575-706-3225	575,-885-6302
Tim Haddican	405-949-2329	405-823-2872	405-348-5515
EMERGENCY RESPO	NSE NUMBERS:		
State Police State Police	Eddy County Lea County		575 -748-9718 575-392-5588
Sheriff Sheriff	Eddy County Lea County		575-746-2701
Emergency Medical Service (Ambulance)	Eddy County Lea County	Eunice	911 or 505-746-2701 911 or 505-394-3258
Emergency Response	Eddy County SERC Lea County		575476-9620
Artesia Police Dept Artesia Fire Dept			575746-5001 575 746-5001
Carlsbad Police Dept Carlsbad Fire Dept			575-885-2111 575885-3125

EMERGENCY CALL LIST (CONT.)

Loco Hills Police Dept		575677-2349
Jai Police Dept Jai Fire Dept Jai Ambulance		575395-2501 575395-2221 575395-2221
Eunice Police Dept Eunice Fire Dept Eunice Ambulance		575394-0112 575394-3258 575394-3258
Hobbs Police Dept Hobbs Fire Dept		575397-3365 57 <u>5-</u> -397-9308
NMOCD	District 1 (Lea, Roosevelt, Curry) District 2 (Eddy, Chavez)	575393-6161 575748-1283
Lea County Information		5.75393-8203
Callaway Safety	Eddy/Lea Counties	575392-2973
BJ Services	Artesia Hobbs	575746-3140 575392-5556
Halliburton	Artesia Hobbs	1-800-523-2482 1-800-523-2482
Wild Well Control	Midland Mobile	432-550-6202 432-553-1166

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

PROTECTION OF THE GENERAL PUBLIC (ROE)

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

CALCULATIONS FOR THE 100 PPM (ROE) "PASQUILL-GIFFORD EQUATION"

X = [(1.589) (mole fraction) (Q-volume in std cu ft)] to the power of (0.6258)

CALCULATION FOR THE 500 PPM ROE:

X = [(.4546) (mole fraction) (Q - volume in std cu ft)] to the power of (0.6258)

Example:

If a well/facility has been determined to have 150 / 500 ppm H2S in the gas mixture and the well/facility is producing at a gas rate of 100 MCFPD then:

150 ppm X = [(1.589) (.00015) (100,000 cfd)] to the power of (.6258) X = 7 ft.

500 ppm X = [(.4546) (.0005) (100,000 cfd)] to the power of (.6258) X = 3.3 ft,

(These calculations will be forwarded to the appropriate District NMOCD office when Applicable)

PUBLIC EVACUATION PLAN:

- 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 exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. (All monitoring equipment shall be UL approved, for use in class I groups A, B, C & D, Division 1, hazardous locations, All monitor will have a minimum capability of measuring H2S, oxygen and flammable values.)

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

- 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 supervising personnel shall stay in communication with all agencies
 through out the duration of the situation and inform such agencies when the situation has
 been contained and the effected area(s) is safe to enter.

PROCEDURE FOR IGNITING AN UNCONTROLABLE CONDITION:

- 1. Human life and/or property are in danger.
- There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTION FOR IGNITION:

- Two people are required. They must be equipped with positive pressure, self-contained breathing apparatus and a "D" ring style full body, OSHA approved safety harness. Non flammable rope will be attached.
- 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.
- Ignite up wind from a distance no closer than necessary. Make sure that where you ignite
 from has the maximum escape avenue available. A 25 mm flare gun shall be used, with a
 ± 500 ft. range to ignite the gas.
- 4. Prior to ignition, make a final check with combustible gases.
- 5. Following ignition, continue with the emergency actions & procedures as before.

Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

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.
- 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 & Flagging:

- One color code condition sign will be placed at the entrance to the site reflection the
 possible conditions at the site.
- A colored conditioned flag will be on display, reflecting the condition at the site at the time.

3. Briefing Area:

Two perpendicular areas will be designated by signs and readily accessible.

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 are being discharged.

6. Auxiliary Rescue Equipment:

- Stretcher
- · Two OSHA full body harness
- 100 ft. 5/8 inch OSHA approved rope.
- 1-20# class ABC fire extinguisher
- Communication via cell phones on location and vehicles on location.

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 Ald,

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.

ł		ŧ.	j	CONCENTRATIONS
H2S	1,19	10 ppm 15 ppm	100 ppm/hr	600ppm
HCN	0.94	10 ppm	150 ppm/hr	300 ppm
\$02	2,21	2 ppm	N/A	1000 ррт
Cl.2	2.45	1 ppm	4 ppm/hr	1000 ppm
co	0.97	50 ppm	400 ppm/lir	1000 ppm
CO2	1,52	5000 ppm	5%	10%
CH4	0.55	90,000	Combustible @ 5%	N/A
	\$02 Cl.2 CO	\$02 2,21 C1.2 2.45 C0 0.97 CO2 1.52	HCN 0.94 10 ppm SO2 2.21 2 ppm CL2 2.45 1 ppm CO 0.97 50 ppm CO2 1.52 5000 ppm	HCN 0.94 10 ppm 150 ppm/hr \$02 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 repidly. Severely imitates the eyes and threat. Severe tlu-like symptoms after 4 or more hours. May cause lung damage and or death.
.06%	600 ррт	Loss of consciousness quickly, death will result if not rescued promptly.

SURFACE USE PLAN

RKI Exploration & Production, LLC Longview Federal 1-44 360 510 FSL & 330 FEL Section 01, T. 23 S., R. 28 E Eddy County, New Mexico

This plan is submitted with form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

A. DIRECTIONS: Go east of Carlsbad, NM, on Highway 62/180, 1.2 miles. Turn southeast onto the Old Refinery Road for 11.5 miles. The new road will begin at an old two-track road in the NE1/4NE1/4 of section 12, T. 23 S., R. 28 E. This will be the beginning point of the new access road for the Longview 6-41 and the Longview 1-44.

All existing roads are either paved or a caliche lease road.

B. See attached plats and maps provided by Basin Surveys.

2. PROPOSED ACCESS ROAD:

- A. The new access road will begin at a point off the proposed access road to the Longview 6-41 well, at the SE1/4SE1/4 of section 1, T. 23 S., R. 28 E. From the Old Refinery Road, the new road will be 1360.9 ft. of an old two-track road to be upgraded, then north for 299 ft. to the southeast corner of the proposed well location.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The road will be surfaced with a 6" rolled and compacted caliche,
- D. No culverts, cattleguards or fence cuts will be necessary. The new road will be ditched on both sides of the road for proper drainage.

3. LOCATION OF EXISTING WELLS:

- A. There is an existing well 3/4 mile to the north. (Longview 1 #14 NENE1/4 of section 1, T. 23 S., R. 28 E., a Chevron well ½ mile northwest in the NWSE1/4). And a Yates well, ½ mile south, in the NENE1/4 of section 12, T. 23 S., R. 28 E.
- B. See attached lease map showing all the wells within a one mile radius around the proposed well.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad.

5. LOCATION AND TYPE OF WATER SUPPLY:

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from commercial water stations in the area and hauled to the location by transport truck using the existing and proposed roads shown in the attached survey plats. If a commercial water well is nearby, a temporary, surface poly line, will be laid along existing roads or other ROW casements and the water pumped to the well. No water well will be drilled on the location.

6. SOURCE OF CONSTRUCTION MATERIALS:

All caliche obtained for the proposed well pad and access road will be up to the dirt contractor to locate prior to construction.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.
- B. Drilling fluids will be contained in steel mud pits.
- C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill.

8. ANCILLARY FACILITIES:

No campsite, airstrip, or other facilities will be built as a result of the operation of this well.

9. WELL SITE LAYOUT:

- A. Exhibit A shows the dimensions of the proposed well pad.
- B. The proposed well pad size will be 300' x 325'. There will be no reserve pit due to the well being drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
- C. The Basin Surveyor's plat, Form C-102 and Exhibit A, shows how the well will be turned to a V-Door East.
- D. A 600' x 600' area has been staked and flagged.

10. PLANS FOR SURFACE RECLAMATION:

- A. After concluding the drilling and/or completion operations, if the well is found non-commercial, all the equipment will be removed, the surface material, caliche, will be removed from the well pad and road and transported to the original caliche pit or used for other roads. The original stock piled top soil will be returned to the pad and contoured, as close as possible, to the original topography. The access road will have the caliche removed and the road ripped, barricaded and seeded as directed by the BLM.
- B. If the well is a producer, the portions of the location not essential to production facilities or space required for workover operations, will be reclaimed and seeded as per BLM requirements.

11. SURFACE OWNERSHIP:

- A. The surface is owned by the U. S. Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- B. The grazing lessee is H & K Farms (Brushy Knob Grazing Allotment).

12. OTHER INFORMATION:

- A. The area surrounding the well site is in a gentle sloped, shallow gravelly loam, rolling hills type area. The vegetation consists of White Thorn Acacia, Creosote, Mesquite, three-awns and some dropseed species.
- B. There is no permanent or live water in the immediate area.
- C. There are no dwellings within 2 miles of this location.
- D. A Class III Cultural Resources Examination has been completed and the results will be forwarded to the BLM office.

13. BOND COVERAGE:

Bond Coverage is Nationwide Bond Number NMB-000460.

OPERATORS REPRESENTATIVE:

The RKI Exploration and Production, LLC representatives responsible for ensuring compliance of the surface use plan are listed below:

Surface:

Barry W. Hunt – Permitting Agent 1403 Springs Farm Place Carlsbad, NM 88220 (575) 885-1417 (Home) (575) 361-4078 (Cell)

Drilling & Production:
Bill Aubrey – RKI Exploration and Production, LLC.
3817 NW Expressway, Suite 950
Oklahoma City, Ok.73112
(405) 996-5748 (Office)
(405) 625-7838 (Coll)

ON-SITE PERFORMED ON 4/2/10 RESULTED IN THE ORIGINAL PROPOSED LOCATION AT 990 FSL & 330 FEL BEING MOVED, SOUTH 480 FT., TO THE PRESENT FOOTAGE OF 500 FSL & 330 FEL, DUE TO A LOW DRAINAGE AREA. THE LOCATION WILL BE ORIENTED TO A V-DOOR EAST. THE ACCESS ROAD WILL RUN FROM THE SOUTHEAST CORNER, SOUTH, TO TIE INTO THE PROPOSED ROAD OF THE LONGVIEW 6-44.

PRESENT AT ON-SITE:

BARRY HUNT – PERMITTING AGENT FOR RKI EXPLORATION & PRODUCTION JOHN FAST – BLM DANNY BOONE – CONTRACT ARCHAEOLOGIST (BOONE ARCHAEOLOGICAL SERVICES)
BASIN SURVEYORS

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

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 30th day of April 2010.

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

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	RKI Exploration & Production, LLC
LEASE NO.:	NM91078
WELL NAME & NO.:	Longview Federal 1 #44
SURFACE HOLE FOOTAGE:	0360' FSL & 0330' FEL
BOTTOM HOLE FOOTAGE	
LOCATION:	Section 1, T. 23 S., R 28 E., NMPM
	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.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Berming
Tank battery
Pipelines
☐ Construction
Notification
V-Door Direction
Topsoil
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Well Pads
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Road Section Diagram
☐ Drilling
Secretary's Potash
Casing Depth Change
Medium Cave/Karst
Logging Requirements
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
☐ Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Berming

- The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.
- Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.

Tank Battery COAs Only:

- Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Automatic shut off, check values, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Surface Pipeline COAs Only:

 A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. V-DOOR DIRECTION: East

C. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

D. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

E. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

F. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road

deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

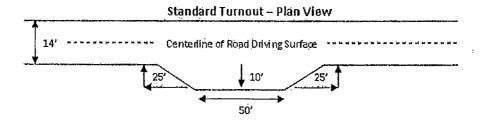
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

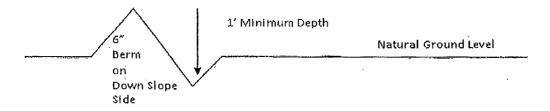


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\frac{400'}{4\%}$ + 100' = 200' lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

- center line of roadwayturnovi 10' transition
literatifile hymoots shall be constructed on
all single lane roads on all blad cun es with
additional knoots as needed to keep spocing
below 1000 feat. Typical Turnout Plan erboskment 1°050 height of hill at shootder 0'-4' 3:1 **Embankment Section** toad hpe 03 - .65 k/k eath sufoce .02 - .04 h/h .02 - .03 h/h aggrego's stilec pared virlace Depth measured ham the bottom of the dirch Side Hill Section libre 2 - 4% Typical Outsloped Section Typical Inslope Section

Figure 1 - Cross Sections and Plans For Typical Road Sections

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

⊠ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash Medium Cave/Karst Possible lost circulation in the Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 260 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is penetrated, set casing shoe 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and potash. Set casing in Lamar Limestone at approximately 2750 feet.

Formation below the 8-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch intermediate casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

- B. PIPELINES (not applied for in APD)
- C. ELECTRIC LINES (not applied for APD)

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared; these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

New Mexico State Office
1474 Rodeo Rd. 301 Dinosaur Trail
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm



RECEIVED
JUL 2 1 2010

NM91078 3160 (P0220)

July 16, 2010

Your Reference: NM91078 Longview Federal 1 #44 SHL: 0360'/S. & 0330'/E., sec. 1, T. 23 S., R. 28 E. Eddy County, New Mexico

CERTIFIED--RETURN RECEIPT REQUESTED 7008 3230 0002 0987 3987

RKI Exploration & Production, LLC. 3817 NW Expressway, Suite 950 Oklahoma City, OK 73112

Gentlemen:

We have approved your application at the well location requested. A copy of the approved application with stipulations is enclosed. Please contact our Carlsbad Field Office at (575) 234-5972, should you have any questions or if we can be of any additional help.

Sincerely,

Linda S.C. Rundell State Director

1 Enclosure