

OCD-ARTESIA

OMB No. 1004-0137 Expires July 31, 2010

ATS-08- 997

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANA		UCD-AR	RTESI	M NM-10203€	6		
APPLICATION FOR PERMIT TO D				6. If Indian. Allo	lee or Tribe	Name	
la. Type of work: X DRILL REENTER	₹			7. If Unit or CA A	greement, N	lame and No.	
lb. Type of Well XX Oil Well Gas Well Other	XX Si	ngle Zone Multip	le Zone	8. Lease Name at RDX "I		34878	
2 Name of Operator RKI EXPLORATION & PRODUCTION, LLC. (PA)	T McCOI	.T.OM 405-996-	-5748)	9. API Well No.	1. 31.	750	
	3b. Phone No	6-996-5748	3.10)	10. Field and Pool, or Exploratory WILDCAT-BONE SPRING			
4. Location of Well (Report location clearly and in accordance with any	State réquiren	nents.*)		11. Sec., T. R. M. o	r Blk. and Si	urvey or Area	
At surface 2310' FSL & 1650' FWL SECTION At proposed prod. zone SAME	15 T2	26S-R30E EDDY	CO.	SECTION 15	Т26	6S-R30E	
14. Distance in miles and direction from nearest town or post office* Approximately 18 miles Southeast of M		12. County or Pari EDDY CO.	sh.	13.º State NM			
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of 320	acres in lease	17. Spacin	g Unit dedicated to t	his well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 560±*	19. Propose	•	20. BLM/B	BIA Bond No. on file NMB-0004			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approx	imate date work will sta		23. Estimated duration			
3083' GL	1	APPROVED	••				
	24. Atta	ichments					
The following, completed in accordance with the requirements of Onshore	e Oil and Gas	Order No.1, must be a	ttached to th	is form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	4. Bond to cover the litem 20 above).5. Operator certification of the site BLM.	cation	ns unless covered b ormation and/or pla			
25. Signature Lance	Name	e (Printed/Typed) Joe T. Jani	.ca		Date 09	9/15/08	
Title Permit Eng.							
Approved by (Signature) /S/ DAVID D. EVANS	Nam	e (Prinied/Typed) ISI DAY	VID D. E	EVANS	Date OC	T 2 8 2008	
FOR FIELD MANAGER	Offic	CARLS	BAD FI	ELD OFFIC			
Application approval does not warrant or certify that the applicant hold conduct operations thereon.	is legal or eq	uitable title to those rig	hts in the su	bject lease which wo	ould entitle th	ne applicant to	

(Continued on page 2)

Conditions of approval, if any, are attached.

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FUR CONDITIONS OF APPROVAL



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.

*(Instructions on page 2) APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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

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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

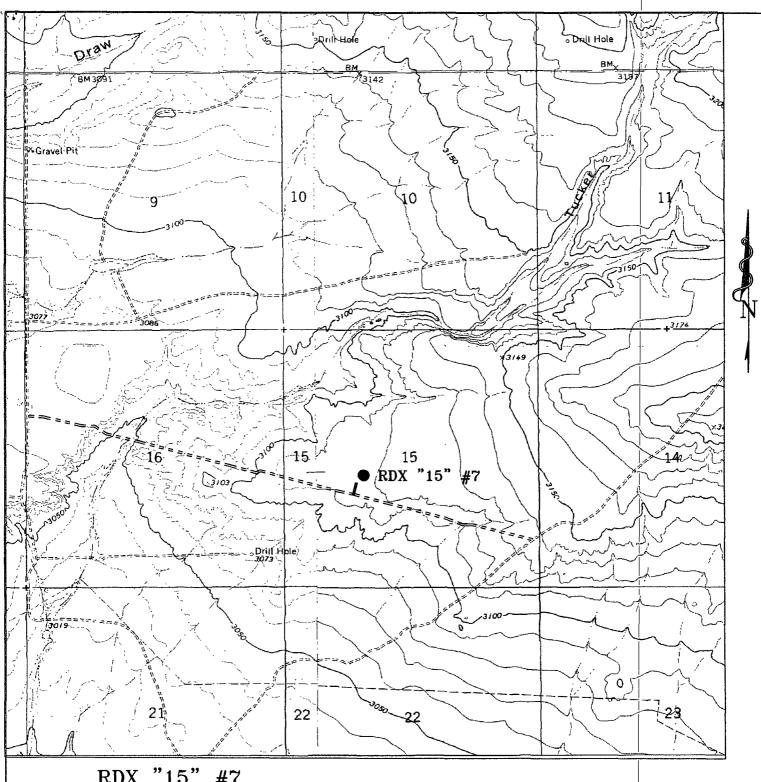
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67505 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

□ AMENDED REPORT

Bottom Hole Location If Different From Surface UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the Bast/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 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 of the best of my invalidation to desire from the working the incommendation of the content permanent of a content of the best of my invalidation of the permanent of a content of the best of my invalidation the propriete of the best of my invalidation of the permanent of the perma				WELL LO	CAT	ION AND	ACRE	AGE DEDICATI	ON PLAT		
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BASIN SURVEYS			2310,				- + -		Signature & Professional	Surveyor 7917	

SECTION 15, TOWNSHIP 26 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO. 600' 3120.8 3114.9' 150' NORTH 3118.3 RKI EXPLORATION & PRODUCTION -- -- RDX -"15" - #7 - - - -ELEV. - 3083' 150' WEST OFF_SET □ □ OFF SET 0 LAT-N 32"02'29.95" LONG-W 103°52'20.55" (NAD-83) 150' SOUTH 3119.6 3118.5 600' 200 200 400 FEET SCALE: 1" = 200'RKI EXPLORATION & PRODUCTION DIRECTIONS TO LOCATION: FROM THE JUNCTION OF HWY 285 AND LONGHORN, "15" REF: RDX Well Pad Topo GO EAST 3.9 MILES TO SECOND ROAD ON RIGHT PAST A LOW WATER CROSSING, GO EAST 5.9 MILES THE RDX "15" #7 LOCATED 2310' FROM TO LEAS ROAD, ON LEASE ROAD GO SOUTH 1.2
MILES TO 2-TRACK, GO EAST TO PROPOSED THE SOUTH LINE AND 1650' FROM THE WEST LINE OF SECTION 15, TOWNSHIP 26 SOUTH, RANGE 30 EAST, BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO N.M.P.M., EDDY COUNTY, NEW MEXICO. W.O. Number: 19974 Drawn By: J. M. SMALL Date: 07-30-2008 Sheet Sheets Disk: JMS 19974 Survey Date: 07-25-2008

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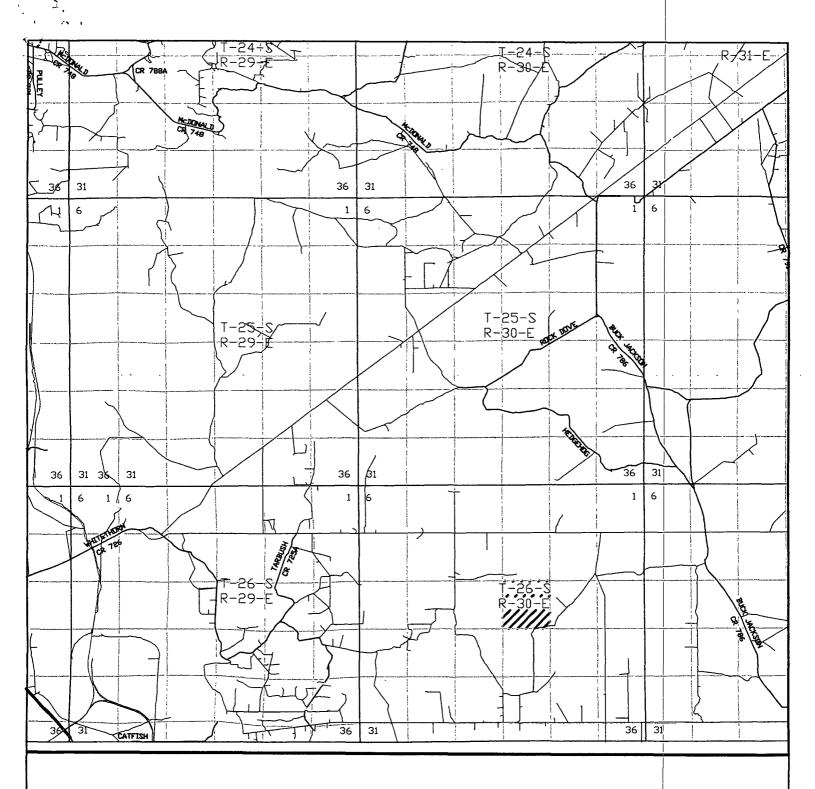
RDX "15" #7
Located at 2310' FSL AND 1650' FWL
Section 15, Township 26 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O. Number:	19974
Survey Date:	
Scale: 1" = 20	
Date: 07-28-	

RKI EXPLORATION & PRODUCTION



RDX "15" #7
Located at 2310' FSL and 1650' FWL
Section 15, Township 26 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393—7316 — Office (505) 392—3074 — Fax basinsurveys.com

W.O. Number:	JMS	19974	
Survey Date:	07-25	5-2008	
Scale: 1" = 2	MILES		
Date: 07-28-	-2008		

RKI EXPLORATION & PRODUCTION

RKI EXPLORATION & PRODUCTION, LLC.

RDX "15" # 7

UNIT "K" T26S-R30E SECTION 15 EDDY CO. NM

In response to questions asked under Section II of Bulliten NTL-6, the following information on the above will be provided.

1. LOCATION: 1650' FWL & 2310' FSL SECTION 15 T26S-R30E EDDY CO. NM

2. ELEVATION ABOVE SEA LEVEL: 3083' GL

3. GEOLOGICAL NAME OF SURFACE FORMATION: Quaternery Aeolian Deposits.

4. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.

5. PROPOSED DRILLING DEPTH: 7576'

6. ESTIMATED TOPS OF GEOLOGICAL FORMATIONS:

Rustler Anhydrite	751 '	Cherry Canyon Sd.	4675;
Salado Salt	1118'	Brushy Canyon Sd.	5730 ¹
Lamar Lime	33 4 7 *	Bone Spring Lime	7426 [*]
Belll Canyon	3598 ¹	TD	7576 '

7. POSSIBLE MINERAL BEARING FORMATIONS:

Bell Canyon 0il Brushy Canyon 0il Cherry Canyon 0il Bone Spring 0il

8. CASING PROGRAM:

	HOLE SIZE	INTERVAL	OD OF CASI	NG WEIGHT	THRE	AD COLLAR	GRADE	CO	NDITION
	26"	0-40	20"	NA	NA	NA	Conduc	tor	New
See COA	17½"	0-776	13 3/8"	54 . 5#	8-R	ST&C	J-:	55	New
CON	11"	0-3372	8 5/8"	32#	8-R	ST&C	J-:	 55	New
	7 7/8"	0-7576°	5½"	17#	8 - R	LT&C	J	5 5 5	New
	Design Fac	ctors:							
	Collapse	1.125	Burst 1.0	Body Yield	1.5	Joint Stre	ength	8-R	1.8

Butress 1.6

RKI EXPLORATION & PRODUCTION, LLC. RDX "15" # 7

UNIT "K"

SECTION 15

T26S-R30E

EDDY CO. NM

9. CASING CEMENTING & SETTING DEPTHS:

- 1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
- 2. Drill 17½" hole to 776'. Run and set 776' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 430 Sx. of 35/65 Class "C" POZ cement + 6% D-20, + 3#/Sx D-42, + 0.125#/Sx. D-130, + 3% S-1, Yield 1.95, tail in with 200 Sx. of Class "C" cement + 0.125#/Sx of D-130, + 2% S-1, Yield 1.34. Circualte cement to surface.
- 3.Drill 11" hole to 3372'. Run and set 3372' of 8 5/8" 32# J-55 ST&C casing. Cement with 545 Sx. of 35/65 Class "C" POZ cement + 6% D-20, + 2#/Sx. of D-42, + 0.125#/Sx. of D-130+ 1% S-1, Yield 1.97, tail in with 200 Sx. of Class "C" cement + 1% S-1, + 0.125#/Sx. of D-130, Yield 1.33, circulate cement to surface.
- 4. Drill 7 7/8" hole to 7576'. Run and set 7576' of 5½" 17# J-55 LT&C casing. Cement in two stages with DV Tool at 5475 Cement first stage with 226 Sx. of 35/65 Class "C" POZ cement + 5% D-44, + 6% D-20, + 0.125#?Sx. D-130, + 1% S-1, Yield 2.04, tail in with 200 Sx. of Class "C" cement + 0.125#/Sx. of D-130, + 0.2% D-13, Yield 1.32, cement 2md stage with 109 Sx. of 35/65 Class "C" POZ cement + 5% D-44, + 0.2% D-167, + 0.1% D-13, + 0.125#/Sx. of D-130, Yield 1.93, tail in with 200 Sx. of Class "C" cement + 0.125#/Sx. of D-130, + 0.2% D-13, Yield 1.4, estimated top of cement 3165'.

See COA

11. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 900 Series 3000 PSI working pressure B. O. P. consisting of an annular bag type preventor with middle blind rams and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when the drill pipe is out of the hole on trips. Full opening stabbing valve and upper kelly cock will be available at all times in case of need. Exhibit "E-1" shows a hydraulically operated closing unit and a 3" 5000 PSIworking pressure choke manifold with dual adjustable chokes. No abnormal pressures or abnormal temperatures are expected during the drilling of this well.

RKI EXPLORATION & PRODUCTION, LLC. RDX "15" # 7

UNIT "K" T26S-R30E

SECTION 15 EDDY CO. NM

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD Wt.	VISC	FLUID LOSS	TYPE MUD
40-776'	8.4-8.9	29–38	NC .	Fresh water spud mud add paper as needed in order to control seepage, use Soda Ash to maintain pH at 9.
776–3372	10.0-10.2	28–32	NC .	Brine water add paper to control seepage, use high viscosity sweeps to clean hole. Use lime to maintain pH at ± 10.
3372-5500*	9.0-9.3	28-32	NC	Cut!brine continue to use paper to control seepage, use high viscosity sweeps clean hole maintain pH at ±10 with Caustic Soda.
5500-TD	9.0-9.4	30∸34∜	12cc or 1ess	Same as above but to control use White Starch/impermex to control water loss.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run open hole logs, casing or other operations the mud system may have to be altered to meet these needs.

RKI EXPLORATION & PRODUCTION, LLC.

RDX "15" # 7

UNIT "K" T26S-R30E

SECTION 15 EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Laterolog, SNP, LDT, Density, Gamma Ray, Caliper from TD Back to the Intermediate casing shoe.
- B. Cased hole logs: Gamma Ray, Neutron from intermediate casing shoe back to surface.
- C. Rig up mud logger on the hole at approximately 2800'.
- D. No cores or DST's are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of $\rm H^2S$ in this area. If $\rm H^2S$ 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 $\underline{}$ PSI, and Estimated BHT $\underline{}$ 160°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 28 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The <u>Bone Spring</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

Permian Drilling Rig # 1 Plat for Closed Loop Sys

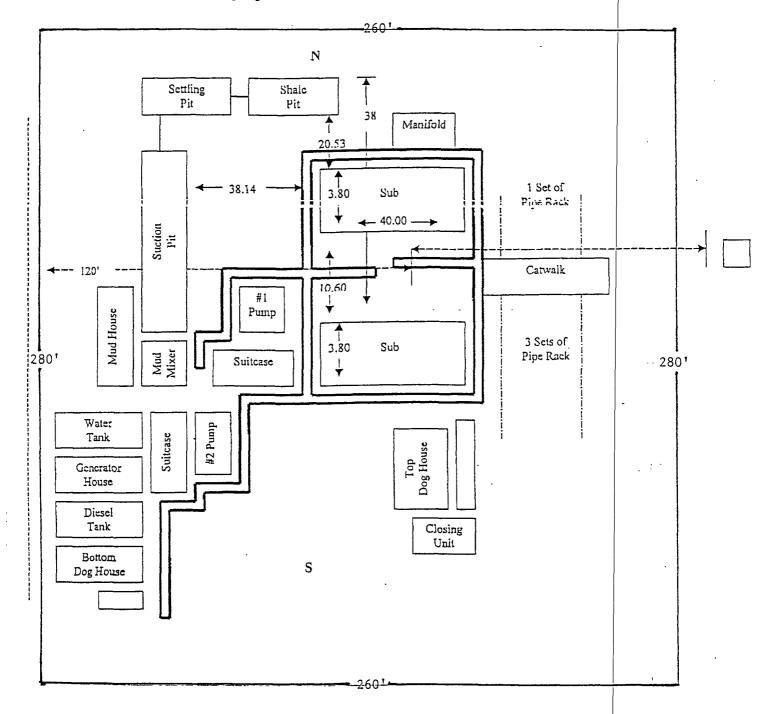
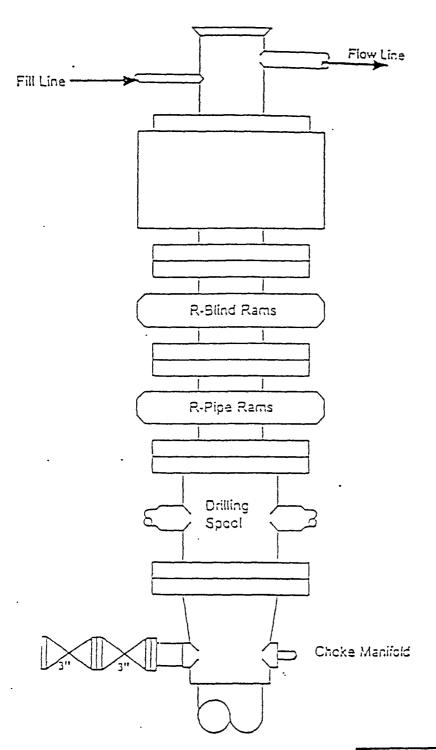


EXHIBIT "D"
RIG LAY OUT PLAT

RKI EXPLORATION & PRODUCTION, LLC. RDX "15" # 7

UNIT "K" T26S-R30E

SECTION 15 EDDY CO. NM



Type 900 Series 3000 psi WP

EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

RKI EXPLORATION & PRODUCTION, LLC. RDX "15" # 7

UNIT "K" T26S-R30E

SECTION 15 EDDY CO. NM

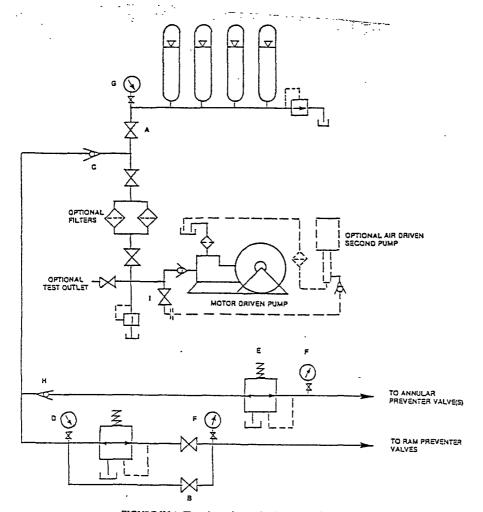
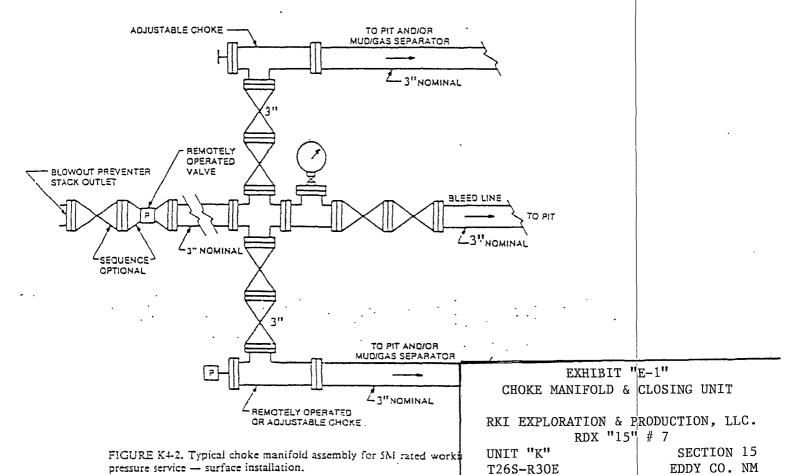


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.



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".
- 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 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	505-885-1313	505-706-3225	505-885-6302
Pat McCollom	405-996-5748	405-833-0332	405-277-3699
Tim Haddican	405-949-2329	405-823-2872	405-348-5515
EMERGENCY RESPO	NSE NUMBERS:		
State Police State Police	Eddy County Lea County		505-748-9718 505-392-5588
Sheriff Sheriff	Eddy County Lea County		505-746-2701
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		505-476-9620
Artesia Police Dept Artesia Fire Dept			505-746-5001 505-746-5001
Carlsbad Police Dept Carlsbad Fire Dept			505-885-2111 505-885-3125

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 ppm 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 \text{ cfd})] to the power of (.6258) X = 7 \text{ 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 1 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.
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTION FOR IGNITION:

- 1. 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.
- 3. 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
- <u>Emergency Escape Packs</u> 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 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.

COMMON NAME	CHEMICAL ABBREV.	SPECIFIC GRVTY.	THRESHOLD LIMITS	HAZARDOUS LIMITS	LETHAL CONCENTRATIONS
Hydrogen Sulfide	H2S	1.19	10 ppm 15 ppm	100 ppm/hr	600ppm
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Sulfur Dioxide	SO2	2.21	2 ppm	N/A	1000 ppm
Chlorine	CL2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	СО	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO2	1.52	5000 ppm	5%	10%
Methane	CH4	0.55	90,000	Combustible @ 5%	N/A

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.

RKI EXPLORATION & PRODUCTION, LLC.

RDX "15" # 7

UNIT "K" T26S-R30E

SECTION 15 EDDY CO. NM

1. EXISTING AND PROPOSED ROADS:

- A. Exhibit "B" is a reporduction of a County General Hi-way map showing existing roads. Exhibit "C" is a reproduction of a USGS topographic map showing existing roads and and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. All new roads will be constructed to BLM specifications.
- B. Exhibit "A" shows the proposed well site as staked.
- C. Directions to location: From Loving New Mexico take U. S. Hi-way 285 South for 17.1± miles to CR-725, turn Left (East) go 4.2 miles take pipeline road East for 9.1 miles, turn Right (South) go 1 mile, bear Right (Southwest) follow road 1.4 miles Turn Right on old lease road go .7 miles, 16cation is 200± on the North side of road.
- D. Exhibit "C" is a topographic map showing location and roads in the area. Proposed flowline to well # 2 is shown on map, along existing lease road.
- 2. PLANNED ACCESS ROADS: Approximately 200' of new road will be constructed.
 - A. The access roads will be crowned and sitched to a 14' wide travel surface, within a 30' R-O-W.
 - B. Gradient of all roads will be less than 5%.
 - C. Turn-outs will be constructed where necessary.
 - D. If require new access roads will be surface with a minimum of 4-6" of caliche. this material will be obtained from a local source.
 - E. Center line for new roads will be flagged, road construction will be done as field conditions require.
 - F. Culverts will be placed in the access road as drainage conditions require. Roads will be constructed to use low water crossings for drainage as required by the topographic conditions.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS: EXHIBIT "A-1"

A. Water wells

- None within 2 miles of location

B. Disposal wells

- None Known

C. Drilling wells

- None Known

D. Producing wells

- as shown on Exhibit "A-1"

E. Abandoned wells

- As shown on Exhibit "A-1"

RKI EXPLORATION & PRODUCTION, LLC.

RDX "15" # 7

UNIT "K" T26S-R30E SECTION 15 EDDY CO. NM

4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Exhibit "C" shows proposed roads, flowlines and powerlines.

5. LOCATION & TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the location access roads or piped to location in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of the drill site, if additional material is required it will be obtained from a local source and transported over the location access roads as shown on Exhibit "C".

7. METHODS OF HANDLING WASTE:

- A. All trash, junk and other waste material will be contained in trash cages or trash bins in order to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- B. Sewage from living quatersw will be drained into holding tanks and will be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of well.
- C. Where a closed loop mud system is used to drill a well the drilling fluid that remains after the drilling and casing is run or the well is Plugged and abandoned will be removed from the location and in some cases may be used on another well or transported to a State approve disposal site. The drilling cuttings that result from drilling the well will likewise be transported to a State approved disposal site.
- D. All water produced while completing this well and completion fluids will be treated in the same procedure as the drilling fluids.
- E. Any remaining salts or mud additive that was not used will be removed by the supplier, this includes all broken sacks and containers.

8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on this location.

RKI EXPLORATION, & PRODUCTION, LLC.
RDX "15" # 7

UNIT "K" T26S-R30E

SECTION 15 EDDY CO. NM

9. WELL SITE LAYOUT:

A. Exhibit "D" shows the proposed well site layout.

- B. This Exhibit shows the location of reserve pit, sump pits, and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pits will be unlined unless subsurface conditions encontered during pit construction indicate that a plastic liner is required to contain lateral migration.
- D. If needed the reserve pits will be lined with polyethelene. The pit liner will be no less than 21 mils thick and the liner will be extended at least 3 feet over the top of the dikes and secured in place to keep edge of liner in place.
- E. The reserve pit will be fenced on three sides and fenced with four strands of barbed wire during drilling and completionphases. The 4th side will be fenced after drilling operations are complete and the drilling rig has moved out. If the well is a producer the mud pits will remain fenced in until the mud has dried up enough to break out the pits and reclaimed according to BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE:

Rehabilitation of the location and reserve pits will be allowed to dry properly, fluids may be moved and disposed of in accordance with article 7-Ecas previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any will be reshaped to the original configuration with provisions made to alleviate furture erosion. In case of the well completed as a producer the drilling pad will be necessary to construct production facilities. After the area has been shaped and contoured top soil from the spoil pile will be placed over the disturbed area to the extent possible so that revegetation procedures can be accomplished to comply with the BLM specifications.

If the well is a dry hole the pad and road area will be contoured to match the existing terrain. Top soil will be spread to the extent possible and revegetation will be carried out according to the BLM specifications.

Should the well be a producer the previously noted procedures will apply to those areas which are not required for production facilities.

RKI EXPLORATION & PRODUCTION, LLC.
RDX "15" # 7

UNIT "K" T26S-R30E

SECTION 15

EDDY CO. NM

11. ADDITIONAL INFORMATION:

- A. This project area is located along a broad ridgeline that running in an East/West trend. The surface consists of sandy loams, mixed with alluvial gravel deposits.

 Drainage is in a generally Southwest direction toward the Pecos River. Vegetation consists of Broom weed, Prickley Pear, Mesquite, Creosote and various native grasses
- B. The surface and the minerals are owned by The U. S Department of Interior and is administered by The Bureau of Land Management. The Surface is used to graze livestock and for the production of oil & gas.
- C. An archaeological survey has been done or in the process of being done and filed with The Bureau of Land Management in the Carlsbad Field Office.
- D. There are no dwellings located within 2 miles of location. The nearest water well is approximately 2 miles Northwest of location.

CERTIFICATION

I HREBY CERTIFY THAT I OR PERSONS UNDER MY DIRECT SUPERVISION HAVE INSPECTED THE PROPOSED DRILL SITE AND THE ACCESS ROAD ROUTES, THAT I AM FIMILIAR WITH THE CONDITIONS THAT CURRENTLY EXIST, AND THAT THE STATEMENTS MADE IN THIS PLAN ARE TO THE BEST OF MY KNOWLEDGE ARE TRUE AND CORRECT, AND THAT THE WORK ASSOCIATED WITH THE OPERATIONS PROPOSED HERE IN WILL BE PERFORMED BY RKI EXPLORATION & PRODUCTION, LLC. ITS CONTRACTORS AND/OR IT'S SUB-CONTRACTORS AND IS IN CONFORMANCE WITH THIS PLAN AND THE TERMS AND THE CONDITIONS UNDER WHICH IT IS APPROVED. THIS STATEMENT IS SUBJECT TO THE PROVISIONS OF U.S.C. 1001 FOR FILING OF A FALSE REPORT.

OPERATOR'S REPRESENTATIVES

BEFORE CONSTRUCTION

DURING & AFTER CONSTRUCTION

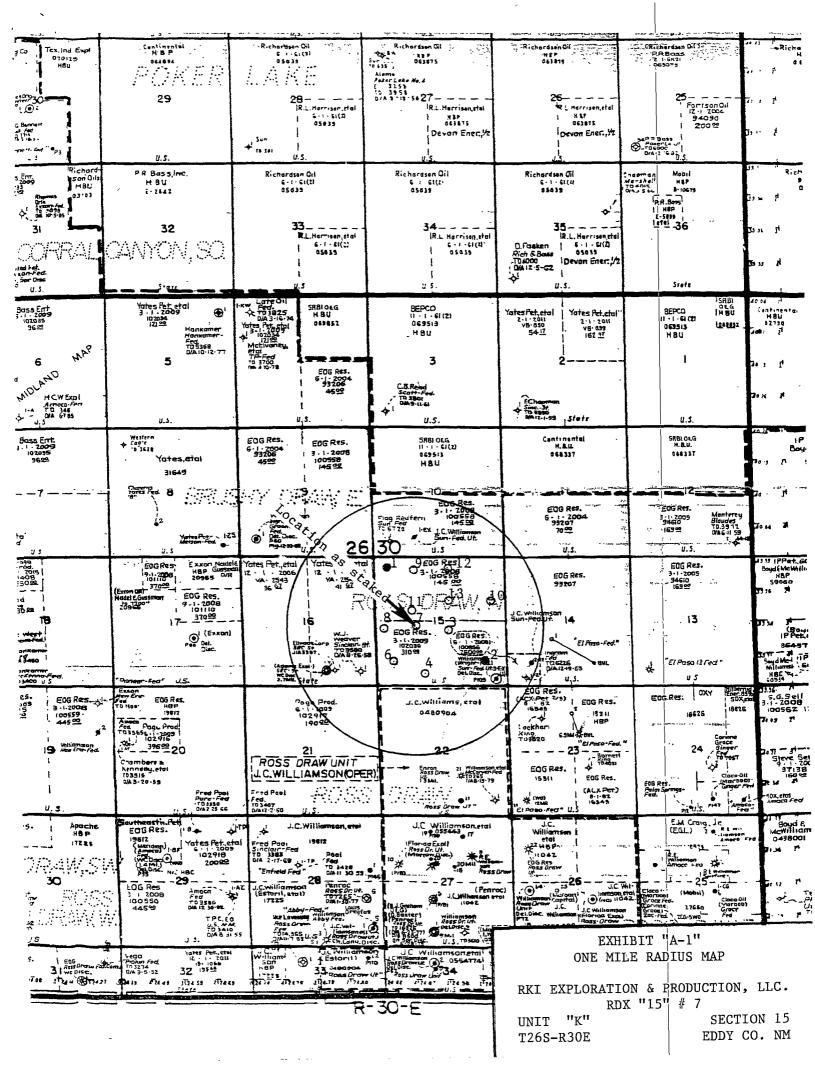
TIERRA EXPLORATION,INC HOBBS, NEW MEXICO 88241 P. O. BOX 2188 HOBBS, NEW MEXICO 88241 JOE T. JANIC... CELL 505-390-1598 OFFICE PHONE 505-391-8503 RKI EXPLORATION & PROD.
P. O. BOX 370
309 SOUTH HALAGUENO STREET
CARLSBAD, NEW MEXICO 88221-0070
GENE SIMER
CELL 505-706-3225
OFFICE 505-885-1313

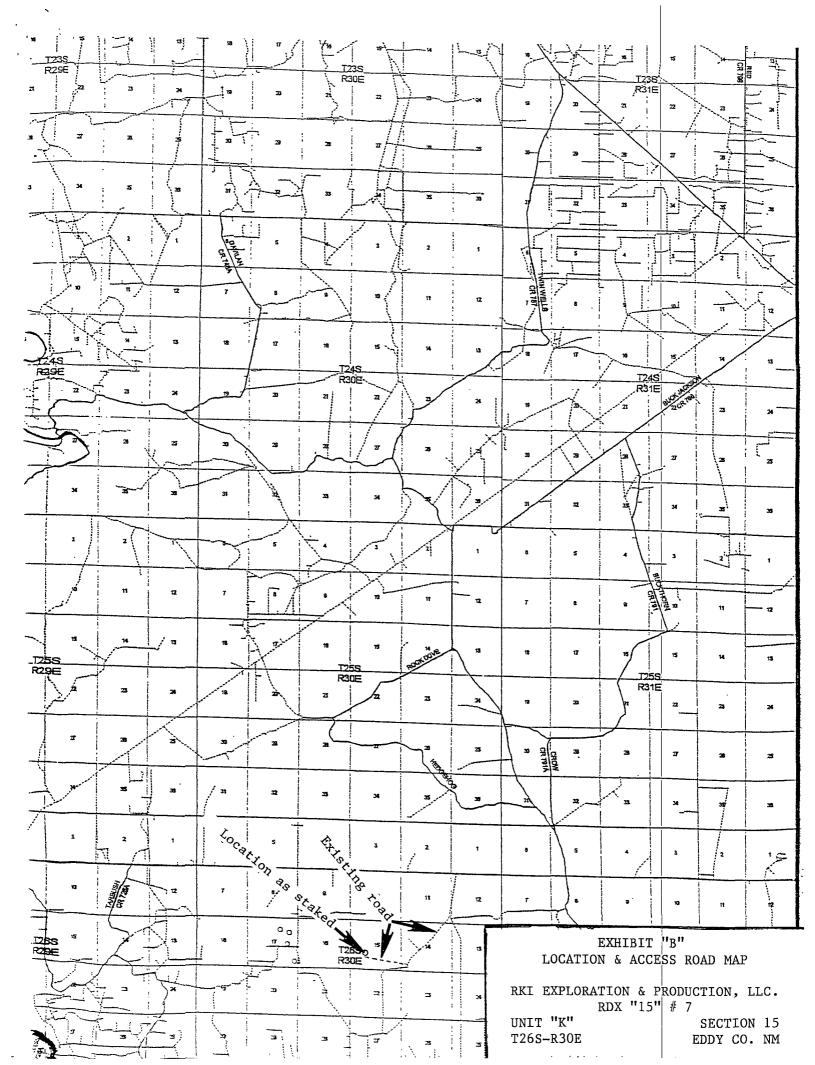
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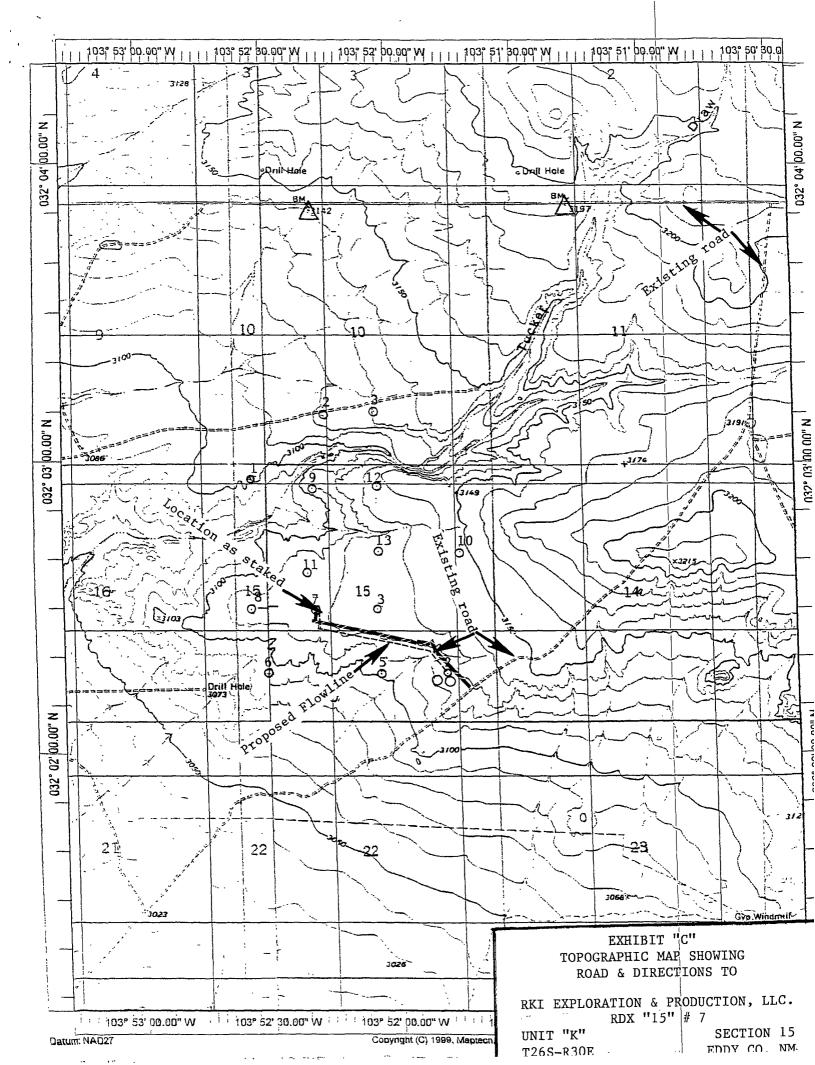
09/15/08

TITLE

Permit Eng.







PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	RKI Exploration and Production, LLC	
LEASE NO.:	NM-102036	
WELL NAME & NO.:	RDX 15 #7	
SURFACE HOLE FOOTAGE:	2310' FSL & 1650' FWL	
BOTTOM HOLE FOOTAGE		
LOCATION:	Section 15, T. 26 S., R 30 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.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Phantom Banks Heronries
☐ Construction
Notification
Topsoil
Reserve Pit
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
☐ Production (Post Drilling)
Well Structures & Facilities
Pipelines
☐ 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)

Phantom Banks Heronries

Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

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 (505) 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. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 4 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. RESERVE PITS

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (505) 234-5972.

E. 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.

F. 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.

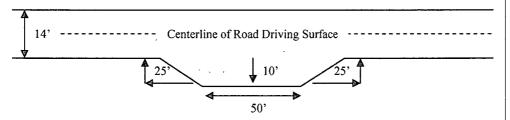
Ditching

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:

Standard Turnout - Plan View

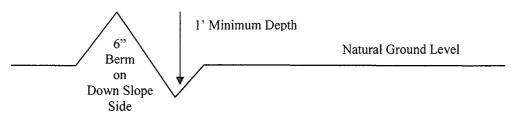


Drainage

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

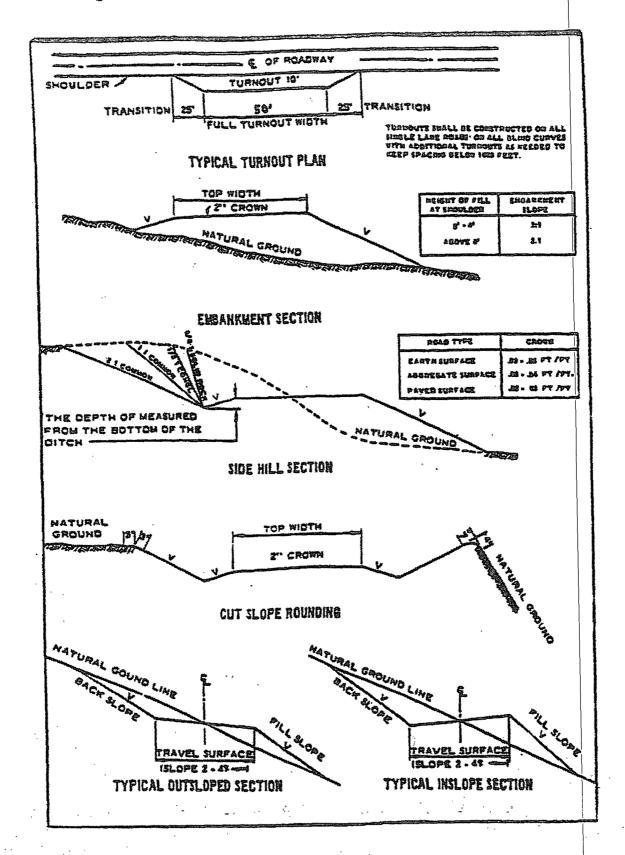
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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.

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 the area, 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.
- 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.

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.

Medium cave/karst.

Lost circulation in Redbeds, evaporites to base of Castile Group, Delaware and Bone Spring formations.

- 1. The 13-3/8 inch surface casing shall be set at approximately 776 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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.
 - 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 action will be done prior to drilling out that string.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

- 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. Casing to be set into the Lamar Limestone at approximately 3372'. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst concerns.

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 should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Additional cement may be required as excess cement calculates to less than 25%.
- 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

- 1. 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. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

 $NOTE-area\ code\ for\ Eddy/Lea\ counties\ is\ 575\ with\ effective\ date\ 10/05/2008\ according\ to\ Windstream.\ H2S\ plan\ still\ has\ 505\ numbers.$

WWI 102408

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

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the

release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of feet.
7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.
9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green , Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his hehalf, on public or Federal land shall be immediately reported to the authorized officer. Holder 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 will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting 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.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions 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 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.

Seed Mixture 3, for Shallow 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 of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/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:

Species		lb/acre
Plains Bristlegrass (Setaria magrostachya)	1.0	
Green Spangletop (Leptochloa dubia)		2.0
Side oats Grama (Bouteloua curtipendula)		5.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.