<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 District II
1301 W Grand Avenue, Artesia, NM 88210
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

RECEIVED JUN 21 2010

Form C-144 CLEZ July 21, 2008

NMOCD ARTESIA ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

#### Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: X Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator: Read & Stevens, Inc. OGRID #: 18917
Address: P. O. Box 1518, Roswell, NM 88202
Facility or well name: Bandit State #9
API Number: 30-015-37939 OCD Permit Number: 2/0466
U/L or Qtr/Qtr M Section 10 Township 23S Range 26E County: Eddy
Center of Proposed Design:         Latitude         32.314256¹ N         Longitude         104.285973¹ W         NAD:         □1927 ☒ 1983
Surface Owner:  Federal State Private Tribal Trust or Indian Allotment
2.  \[ \textstyle \tex
Signs: Subsection C of 19.15.17.11 NMAC  X 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  ☐ Signed in compliance with 19.15.3.103 NMAC
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  \[ \textstyle{\textstyl
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.  Disposal Facility Name: CRI (Control Recovery Inc.) Disposal Facility Permit Number: NM-01-0006
Disposal Facility Name: Gandy-Marley, Inc. Disposal Facility Permit Number: NM-01-0019
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations?  Yes (If yes, please provide the information below)  No
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC
6. Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): David Luna Title: Operations Engineer
Signature:
e-mail address: dluna@read-stevens.com Telephone: 575-622-3770 ext. 305

OCD Approval: Permit Application (including closure plan) Cosure No.	in (only)	
OCD Representative Signature:	Approval Date: Olo 23 2010	
Title: DIST R SuperVISE	OCD Permit Number: 210466	
8. Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.		
	Closure Completion Date:	
9. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems</u> Instructions: Please indentify the facility or facilities for where the liquids, drillit two facilities were utilized.		
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No	in areas that will not be used for future service and operations?	
Required for impacted areas which will not be used for future service and operation  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	ns:	
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

### **Closed Loop System Plan**

#### **Design Plan**

Equipment list,

- 1. 2-250 BBL tanks to hold fluid
- 2. 2-CRI Bins with track system
- 3. 2-500 BBL frac tanks for fresh water
- 4. 1-500 BBL frac tank for brine water

#### **Operation and Maintenance Plan**

Closed Loop equipment will be inspected daily by each tour and any necessary maintenance performed.

Any leak in system will be repaired and/or contained immediately.

State notified within 48 hours.

Remediation process started

#### **Closure Plan**

During drilling operations all liquids, drilling fluid and cuttings will be hauled off via CRI (Permit NM-01-0006).

# READ & STEVENS, INC. HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN FOR DRILLING/COMPLETING/WORKOVER/FACILITY WITH THE EXPECTATION OF H2S IN EXCESS OF 100 PPM

BANDIT STATE #9 SECTION 10 T23S-26E EDDY COUNTY, N.M.

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#### **GENERAL H2S EMERGENCY ACTIONS:**

In the event of an H2S emergency, the following plan will be initiated.

- 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 co-ordinate the necessary duties to bring the situation under control, and if necessary, the notification of emergency response agencies and residents.

#### EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H2S

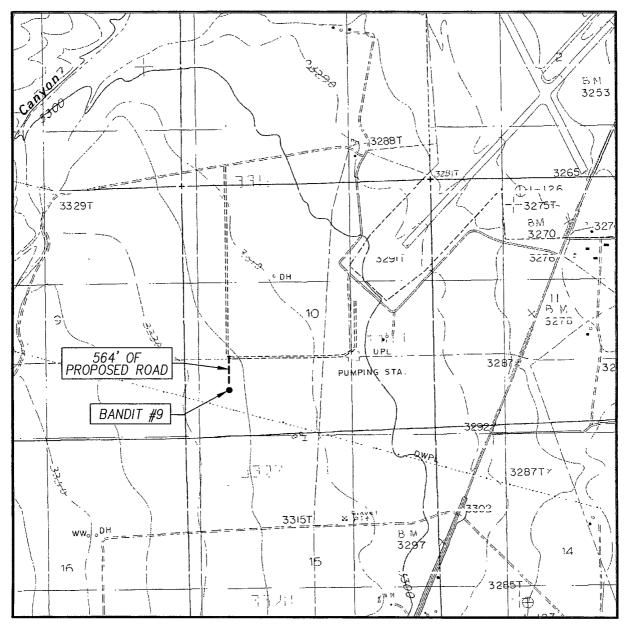
- 1) All personnel will don the self-contained breathing apparatus.
- 2) Remove all personnel to the "safe area" (always use the "buddy system")
- 3) Contact company personnel if not on location.
- 4) Set in motion the steps to protect and or remove the general public to an upwind "safe area". Maintain strict security & 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.
  (will assist in general public evacuation/safety while maintaining roadblocks)
- 7) Call the NMOCD

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 necessary steps to contact the following:

#### EMERGENCY CALL LIST: (Start and continue until ONE of these people have been reached)

	OFFICE	MOBILE	<u>HOME</u>
Read & Stevens, Inc.	575-622-3770		
David Luna	575-622-3770 x 213	575-626-9395	575-625-0666
Bud Thorp	575-390-4676	575-691-8520	575-396-7282
John Maxey	575-622-3770 x224	575-626-7602	575-625-1354
Will Palmer	575-396-5391	575-390-2424	575-396-7560
EMERGENCY RESPO	NSE NUMBERS: Edd	ly County, New Mexico	
State Police		575-748-9718	
Eddy County Sheriff		575-887-7551	
Emergency Medical Se	ervice (Ambulance)	911 or 575-746-2701	
Eddy County Emergen	cy Management (Joel Ar	rnwine ) 575-887-9511	
State Emergency Resp	oonse Center (SERC)	575-476-9620	
Artesia Police Departmer		575-746-5000 575-746-5000	
Carlsbad Police Depar Carlsbad Fire Departm		575-885-2111 575-885-3125	
Loco Hills Fire Department 575-677-2349			
(NMOCD) New Mexico Oil Conservation Division, District I (Lea, Roosevelt, Chaves, Curry) 575-393-6161 District II (Eddy, Chaves) 575-748-1283			
American Safety Indian Fire & Safety Callaway Safety		575-746-1096 575-746-4660 575-746-2847	or 800-530-8693
BJ Services		575-746-3569	

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: KITCHEN COVE, N.M. - 10'

SEC. 10 TWP. 23—S RGE. 26—E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 990' FSL & 990' FWL

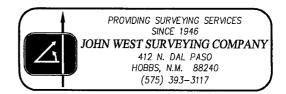
ELEVATION 3324'

OPERATOR READ & STEVENS, INC

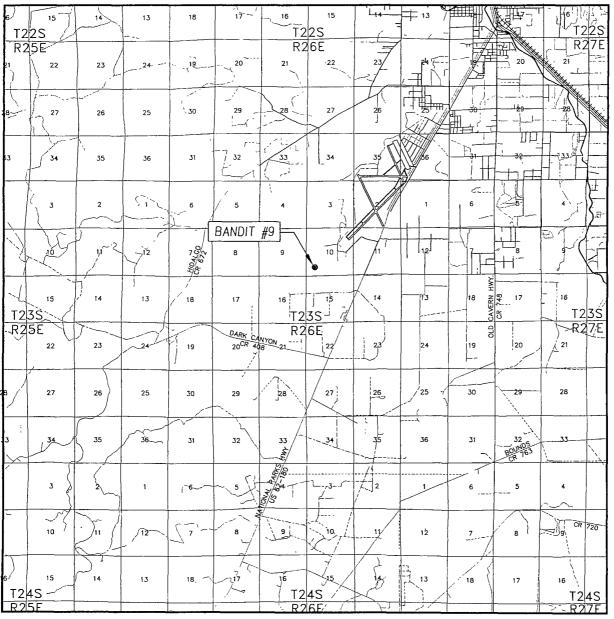
LEASE BANDIT

U.S.G.S. TOPOGRAPHIC MAP

KITCHEN COVE, N.M.



# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 10 TWP. 23-S RGE. 26-E

SURVEY N.M.P.M.

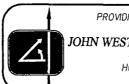
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 990' FSL & 990' FWL

ELEVATION 3324'

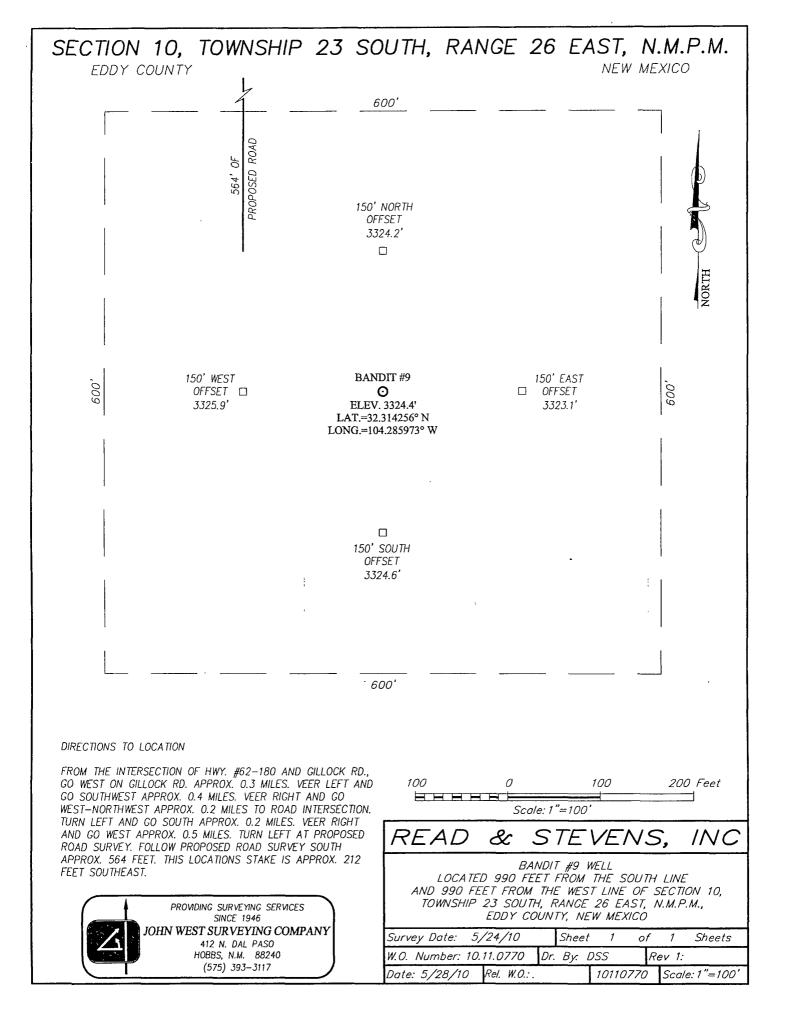
OPERATOR READ & STEVENS, INC

LEASE BANDIT



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117



#### PROTECTION OF THE GENERAL PUBLIC/ROE:

In the event greater than 100 ppm H2S is present, the ROE (Radius Of Exposure) calculations will be done to determine if the following is warranted:

- 100 ppm at any public area (any place not associated with this site)
- 500 ppm at any public road (any road which the general public may travel)
- 100 ppm radius of 3000' 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.

#### Calculation for the 100 ppm ROE:

 $X = [(1.589) (concentration) (Q)]^{(0.6258)}$ 

#### Calculation for the 500 ppm ROE:

 $X = [(0.4546) (concentration) (Q)]^{(06258)}$ 

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

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

#### **PUBLIC EVACUATION PLAN:**

(When the supervisor has determined that the General Public will be involved, the following plan will be implemented)

- Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- 2) A trained person in H2S safety, shall monitor with detection equipment the H2S concentration, wind and area of 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 I, hazardous locations. All monitors will have a minimum capability of measuring H2S values.)
- 3) Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- 4) The company supervising personnel shall stay in communications 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.

The decision to ignite a well should be a last resort and one if not both of the following pertain.

- 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.

#### **INSTRUCTIONS 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.
- 2) One of the people will be a qualified safety person who will test the atmosphere for H2S, Oxygen, & 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 25mm flare gun shall be used, with a +500' range to ignite the gas.
- 4) Prior to ignition, make a final check for combustible gases.
- 5) Following ignition, continue with the emergency actions & procedures as before.

#### 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 reflecting the possible conditions at the site.
  - A Colored Condition flag will be on display, reflecting the condition at the site at that time.
- 3) Briefing Area: Two, perpendicular areas will be designated by signs and readily accessible.

angles.

- 5) H2S Detectors and Alarm: The stationary detector with three (3) sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 15 ppm. Calibrate a minimum of every 30 days or as needed. The 3 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' of 5/8" OSHA approved rope
  - 1 20# Class ABC fire extinguisher
  - Communication via cell phones on location and vehicles on location.

#### USING SELF-CONTAINED BREATHING AIR EQUIPMENT (SCBA):

SCBA should be worn when any of the following are performed:

- Working near the top or on top of a tank.
- Disconnecting any line where H2S can reasonably be expected.
- Sampling air in the area to determine if toxic concentrations of H2S 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 continuously be checked during the entire operation.

After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected.

All SCBA shall be inspected monthly.

Do not panic.

Remain calm & think.

Get on the breathing apparatus.

Remove the victim to the safe breathing area as quickly as possible. Upwind an uphill from source of 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 (2) personnel on location shall be trained in CPR and First Aid.

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 46.0%. By volume hydrogen sulfide (H2S) is almost as toxic as hydrogen cyanide and is 5-6 times more toxic than carbon monoxide.

#### Various Gases

Common Name	Chemical Abbrev.	Sp. Gr.	Threshold Limits	Hazardous Limits	Lethal Concentration
Hydrogen Sulfide	H2S	1.19	10 ppm 15 ppm	100 ppm/hr	600 ppm
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

- 1 Threshold limit Concentrations at which it is believed that all workers may be repeatedly exposed, day after day without adverse effects.
- 2. Hazardous limit Concentration that may cause death,
- 3 Lethal concentration Concentration that will cause death with short-term exposure
- 4 Threshold limit 10 ppm NIOSH guide to chemical hazards
- 5. Short-term threshold limit

#### PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

CONCE	NTRATIONS	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 eyes and throat.
.02%	200 ppm	Kills the sense of smell rapidly. Severely irritates eyes and throat. Severe flu-like symptoms after 4 or more hours. May cause lung damage and/or death.
.06%	600 ppm	

# READ & STEVENS, INC. OIL PRODUCERS

Mailing address P. O. Box 1518 Roswell, New Mexico 88202 400 Penn Plaza, Suite 1000 Roswell, New Mexico 88201 Phone: 575/622-3770 Fax: 575/622-8643

June 17, 2010



Oil Conservation Division 1301 W. Grand Ave. Artesia, NM 88210

RE: Bandit State #9

Section 10, T23S-R26E 990' FSL & 990' FWL Eddy County, NM

Read & Stevens, Inc. submitted online an APD for the Bandit State #9. Please find attached the C-144 CLEZ w/Closed Loop System Plan and the H2S Contingency Plan.

Please contact me if you need any other information.

Sincerely,

Kelly Barajas

Production Analyst

kbarajas@read-stevens.com

Attachments: as stated