N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia NM 88210

	n 3160-3 just 1999) 0297	11 (00104)	(1)		0	ORM APPROMB No. 1004 es Novembe	1-0136
	UNITED STATES	Λ	115		5. Lease Serial N	No.	
	DEPARTMENT OF THE IN	(t			NM 105206		Na.
	BUREAU OF LAND MANG	EMEN!			6. If Indian, Allot	tee or 1 ribe	warne
	APPLICATION FOR PERMIT TO D	RILL OR R	EENTER				
1a.	1a. Type of Work: X DRILL REENTER				7. If Unit or CA A	\greement, I	Name and No.
		_			8. Lease Name a	and Well No.	
1b.	1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone					n No.1	
2.	Name of Operator				9. API Well No.	_	
	EOG Resources, Inc.				10- OC	<u>5-33</u>	918
3a.	Address	3b. Phone N	lo. <i>(include area d</i>		10. Field and Poo		- A
	P.O. Box 2267 Midland, TX 79702	<u> </u>	(432) 686-3714	- Ord		ا إمالا	
4.	Location of Well (Report location clearly and in accordance	` `		-	11. Sec., T., R., N	•	
At surface — 1980 Fold El per attacked 5N de At proposed prod. Zone same				detel	Sec.33 T-18-S;R-2	:I-E 5'H	4
14	At proposed prod. Zone same Distance in miles and direction from nearest town or pos	1. 0.00			12. County or Par	rish 13	State
	16 mi north from Carlsbad	it office			Eddy	NM	Otate
15.	Distance from proposed* 1980	16. No. of A	cres in lease	17. Spacin	g Unit dedicated to		
	location to nearest	320		E/2 Sec 33(-		RECEIVED
	property or lease line, ft.						NECEIVED
	(Also to nearest drlg. Unit line, if any) 1,980						FFB 0 1 7005
	Distance from proposed location*	19. Propose	•		A Bond No. on file		OCL STREET
	to nearest well, drilling, completed	10100)	NM2308		,	OCH-HH I HH
	applied for, on this lease, ft.				<u> </u>		
	Elevations (Show whether DF, KDB, RT, GL, etc)		nate date work wi	li start"	23. Estimated duration		
<u>GL 3</u>	381	1/15/2005	Attachments		31		
The f	following completed in accordance with the requirements of O			hall be attach	ed to this form:		
1110,1	onowing completed in accordance with the requirements of or	nonore on an	000 0100, 110, 1, 5	nan be attach	ed to this form.		
1W	/ell plat certified by a registered surveyor.		4. Bond to cover	the operations	unless covered by:	an existing b	ond on file (see
2. A	Drilling Plan.		item 20 above		•	_	·
3A	Surface Use Plan (if the location is on National Forest Sytem	Lands, the	5. Operator certif	fication.			
SI	JPO shall be filed with the appropriate Forest Service Office)		6. Such other sit	•	rmation and/or plans	s as may be r	equired by the
25.	Signature 19	Name (Printe	ed/Typed)		Date		
	Mike lune	Mike Francis			12/	/6/2004	
Title	Agent						
Appr	oved by (Signature) /S/ Joe G. Lara	Name <i>(Printe</i>	/s/Joe (3. Lara	Date	JAN	2 8 2005
Title	WEIELD MANAGETT	Office	CARLSB	AD FIE	LD OFFIC	CE	
Applic opera Condi	ation approval does not warrant or certify the applicant holds legal or tions theron. tions of approval, if any, are attached	equitable title to	those rightes in the	NPPRO	VAL FOR	applicant to co	7997 ·
Title 1	8 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr			lifully to make t	o any department or a	gency of the U	nited
	any false, fictitious or fraudulent statements or representations as to						

APPROVAL SUBJECT TO General requirements and special stipulations

Kobwall Controlled Water Basin



OCD-ARTESIA

			FORM APPROVED			
(August 1999)	DEPARTMENT OF THE INT		0	OMB NO. 1004-0135		
	BUREAU OF LAND MANAG		Expires: November 30, 2000			
•	NDRY NOTICES AND REPORT		5 Lease Serial N			
	e this form for proposals to di		NM 105			
abandoned	abandoned well. Use Form 3160-3 (APD) for such proposals.			tee or Tribe Name		
SUBMIT IN TR	IPLICATE - Other instructions	s on reverse side	7 If Unit or CA/A	greement, Name and/or No.		
I. Type of well Oil Well Gas Well	Other		8 Well Name and	1 No.		
2. Name of Operator			—	Fed Com No 1		
EOG Resource			9 API Well No.			
Ba. Address	3b. Phone No. (include are	ea code)	40. Field and Bont	E		
P.O. Box 2267, Midland, TX	79702 (915)686-3714 c., T.,R.,M., or Survey Description)	 	10 Field and Pool Wildca			
	FEL(U/L J) Sec 33	m 10 a n on -				
1000 FCT: 1000	O' FEL(U/L J) Sec.	T-18-S; R-2/-E				
1900 1900	FEL(U/L J) Sec.	33	Eddy			
12. CH	ECK APPROPRIATE BOX(ES) TO IND			R DATA		
YPE OF SUBMISSION		TYPE OF AC	TION			
<u></u>	Acidize Dec	epen Prod	uction (Start/Resume)	Water Shut-Off		
Notice of Intent	Alter Casing Fra	cture Treat Rect	emation	Well Integrity		
_	Casing Repair New		mplete	Change Change		
Subsequet Report	Change Plans Plu	g and Abandon 🔣 Tem	porarily Abandon 🚲 🕏	urface Location		
• •						
If the proposal is to deepen directional Attach the Bond under which the work following completion of the involved or	Convert to Injection Plui eration (clearly state all pertinent details, includ ally or recomplete horizontally, give subsurface will be performed or provide the Bond No. on perations. If the operation results in a multiple andonment Notices shall be filed only after all r	ling estimated starting date of any locations and measured and true file with BLMBIA. Required subscompletion or recompletion in a n	vertical depths of all pertir equent reports shall be file ew interval, a Form 3160-4	ent markers and zones. d within 30 days shall be filed once		
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the work following completion of the involved of testing has been completed. Final Abdetermined that the site is ready for finit BLM— Carlesbad location for this will nece	Convert to Injection Plui eration (clearly state all pertinent details, includ ally or recomplete horizontally, give subsurface will be performed or provide the Bond No. on perations. If the operation results in a multiple andonment Notices shall be filed only after all r	ling estimated starting date of any locations and measured and true file with BLM/BIA Required subscompletion or recompletion in a n requirements, including reclamating Resources Indecause of Topos directional	proposed work and approventical depths of all pertire equent reports shall be file ew interval, a Form 3160-4 on, have been completed, on the completed of the	ent markers and zones. d within 30 days shall be filed once and the operator has it's surface Concerns.		
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States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ch Dr., Hobbs NM 88240

Grand Avenue, Artesia, NM 88210

00 Rio Brazos Rd., Aztec, NM 87410

District_IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

18 Miles N of Carlsbad

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Revised June 10, 2003 Submit to Appropriate District Office

File No. A-2645A1.DWG

State Lease - 4 Copies

Fee Lease - 3 Copies

Form C-102

Santa Fe, NM 87505

220 S. St. Fran	cis Dr., San	ta Fe, NM 8		. LOCA	ATION AND A	ACREAGE D	EDICATION		AMENDED REPOR
	'API Number								
⁴ Propert	y Code					erty Name		⁶ Well Number	
ZOCETO) No	Nu	bes "33"	Fed C		ston Name			1 Elevation
	70GRID No. Operator Name 7377 EOG Resources, Inc.				3389'				
					¹⁰ Surface	Location			
UL or lot no.	Section	Township	Range	Lot idn		North/South line	Feet from t	the East/West line	County
J	33	18 S	27 E		2612	South	1795	East	Eddy
			¹¹ Bot	tom H	ole Location I	f Different F	rom Suri	ace	
UL or lot no.	Section	Township	Range	Lot Idn		North/South line	Feet from t		County
J	33	18 S	27 E		1980	South	1980	East	Eddy
² Dedicated Acres	¹³ Joint or	· Infill 1	⁴ Consolidation	Code 1	¹⁵ Order No.				
320									
NO ALLOWA	BLE WIL	L BE AS			S COMPLETION I			IAVE BEEN CONSOL	IDATED OR A NON-
16						7			CERTIFICATION
		İ							brmation contained herein is
				İ				true and complete to the best	l of my knowledge and
				=		-	=	belief.	
]]	Mike Tu	mus
								Signature	
		-				_		Mike Franci	.s
			Coordinates	and Bec	arings are	1		Printed Name	
			NAD 27 Ne	w Mexico	East Zone			7	
					CI	ļ	<u></u>	Agent Title and E-mail Address	- , <u></u> , ,
					SL No. 1	l		1 /05 /0005	
					Elev. 3389' X= 516210.6			1/05/2005 Date	****
					Y= 619853.1				
		1		s	16'20 W	1795' —		18SURVEYOR C	ERTIFICATION
					661.8'			I hereby certify that the well	location shown on this plat
		Ì		- =	/			was plotted from field notes i	
				0		1980' —		me or under my supervision,	
				BHL X= 516	6024.6 9218.1			and correct to the best of my	•
	•			Y= 619	9218.1			12-21-2004	NEL L. STAN
·		 	- · <u></u>					Date of Survey	MEL L. STANOR
		1			, <u>,</u>			Signature and Seal of Profession	
		[- 1980,			(8)	10324) (SOLUTION OF THE PARTY O
				=			7	121	
								An A REGISTER	CT JEI
								11 brhal X	OFESS TONNE THE
					1 1 1	1	,	Certificate Number 10324	- VIII

_____, New Mexico.

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-144 March 12, 2004

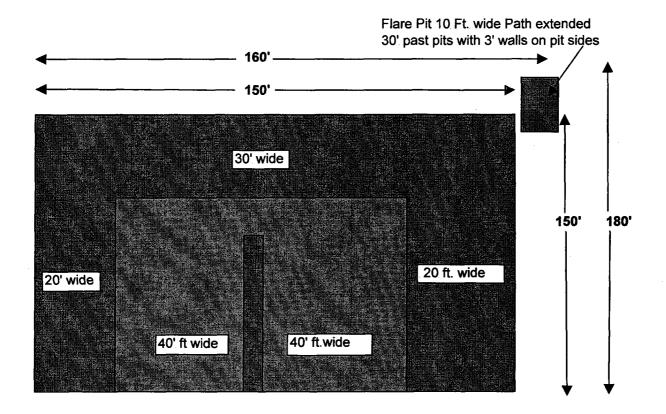
For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

	ade Tank Registration or Clos		
Type of action: Registration of a pit of the properties of the second of the properties of the propert	or below-grade tank X Closure of a pit or below-	grade tank 🔲	e francis@ resources.com
Address: PO Box 2267 Midland Tx. acility or well name: Nubes 33 Fed Com 1/ API #:	U/L or Qtr/Qtr Sec33T	18 R 27	
Pit Type: Drilling ☑ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☑ Unlined ☐	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If		-
Liner type: Synthetic Thickness 12 mil Clay Volumebbl			
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	PECEIVED
Wellhead protection area: (Less than 200 feet from a private domestic vater source, or less than 1000 feet from all other water sources.)	Yes (60)	(20 points) (0 points)	DEC 1 3 2004
Distance to surface water: (horizontal distance to all wetlands, playas, prigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	909-ANTEBIA
	Ranking Score (Total Points)	20	
If this is a pit closure: (1) attach a diagram of the facility showing the pit's onsite offsite If offsite, name of facility date. (4) Groundwater encountered: No Yes If yes, show depth below diagram of sample locations and excavations.	(3) Attach a general description of remedial a	ction taken including re	
hereby certify that the information above is true and complete to the best of reen/will be constructed or closed according to NMOCD guidelines , a pate: 12/10/04 rinted Name/Title Mike Francis Agent our certification and NMOCD approval of this application/closure does not recommend.	general permit, or an (attached) alternativeSignature	OCD-approved plan	ninate ground water or
therwise endanger public health or the environment. Nor does it relieve the organisms. pproval: DEC 16 2004 ate:		ny other federal, state, or	local laws and/or
rinted Name/Title As	per Guidelines, a		
' de	tailed closure plan must		· · .

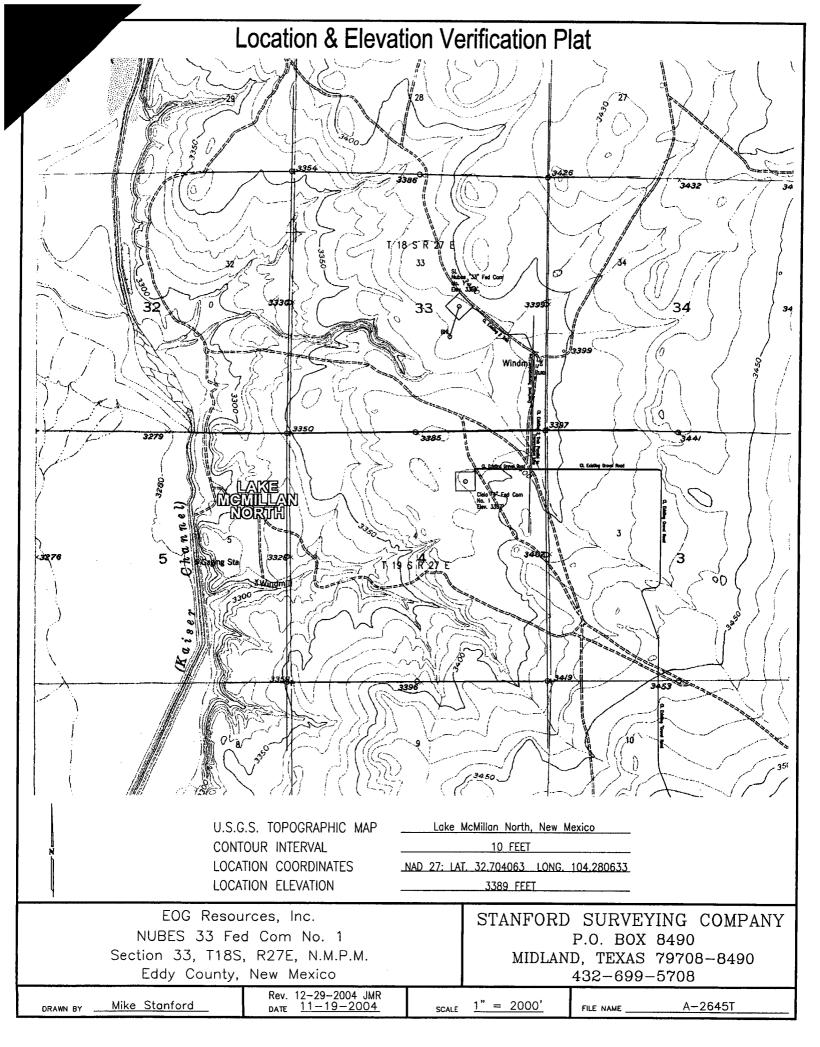
be submitted prior to

closure.

New Mexico Ground Level Double Horseshoe Pits (EOG)



Pits will be 150' deep X 150' wide ground level. Flare pit is 10 X30



EOG RESOURCES, INC. Nubes 33 Fed Com No.1

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	600'
Grayburg	1500'
San Andres	1800'
Bone Spring	4400'
Strawn	8850'
Atoka	9300'
Morrow	9530'
Barnett	9900'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	Above 200'	Fresh Water
Grayburg	1600	Oil
Strawn	8850	Gas
Atoka	9350	Gas
Morrow	9600	Gas

CASING PROGRAM

Hole Size	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond. Type
14 3/4	0-400'	11 3/4"	42# H-40 ST&C
11"	0-2400'	8 5/8"	32# J-55 LT&C
7 7/8'	0-10'100	5 1/2'	17# N80/S95 LT&C

Cementing Program:



11 3/4" Surface Casing:

Cement to surface with 100 sx Prem Plus, 3%

Econolite, 2% Calcium Chloride, 0.25#/sx Flocele,

150 sx Prem Plus, 2% Calcium Chloride

8 5/8" Intermediate:

Cement to surface with 550 sx Interfill C, .25#/sx flocele, 230 sx Premium Plus, 2% Calcium Chloride

5 ½" Production:

Cement w/600 sx Premium, 3% Econolite, 5#/sx Salt (3%), 0.2% HR5, .25#/sk Flocele, 485sx 50/50 Poz with retarders.. This is designed to bring TOC

to 2000'.

EOG RESOURCES, INC. Nubes 33 Fed Com No.1

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. EOG request authorization to use a 2M system, providing for an annular preventer to be used prior to drilling the surface casing shoe before drilling out of surface casing. Before drilling out of 1st intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/5000-psig pressure.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

		Wt Viscosi	ity Waterl	oss
<u>Depth</u>	<u>Type</u>	(PPG)	(sec)	<u>(cc)</u>
0-400'	Fresh Water	8.5	40-45	N.C.
400'-2400'	Brine Water	10.0	30	N.C.
2400'- TD	Cut Brine + Polymer/KCI	2.8.8 - 9.2	32	10

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 5000' to TD.

EOG RESOURCES, INC. Nubes 33 Fed Com No.1

8. LOGGING, TESTING AND CORING PROGRAM:

Electric logging will consist of GR-Dual Induction Focused and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron run from intermediate casing to surface and optional Sonic from TD to Intermediate casing.

Possible sidewall cores based on shows.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5000 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG RESOURCES, ÍNC. Nubes 33 Fed Com No.1

ATTACHMENT TO EXHIBIT #1

- 1. Wear ring to be properly installed in head.
- 2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.
- 3. All fittings to be flanged
- 4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 5. All choke and fill lines to be securely anchored especially ends of choke lines.
- 6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 7. Kelly cock on kelly.
- 8. Extension wrenches and hand wheels to be properly installed.
- 9. Blow out preventer control to be located as close to driller's position as feasible.
- 10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

Nubes 33 Fed Com No.1

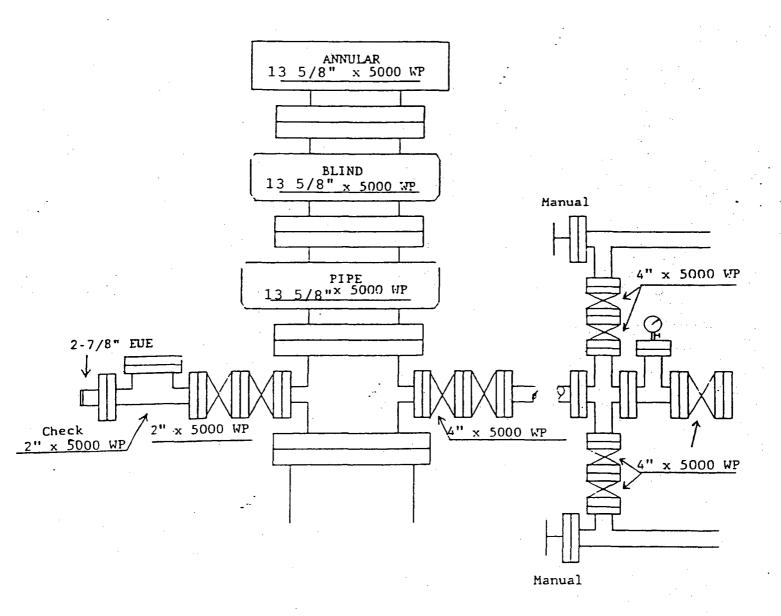
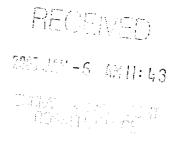


Exhibit 1



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

EOG Resources, Inc. Nubes 33 Fed Com. No.1 Well Eddy Co. NM

TABLE OF CONTENTS

GENERAL EMERGENCY PLAN	Page 2
EMERGENCY PROCEDURE FOR UNCONTROLLED RELEASE OF H2S	Page 2
EMERGENCY NUMBERS OF NOTIFICATION	Page 3
LOCATION MAP	Page 4
PROTECTION OF THE GENERAL (ROE) RADIUS OF EXPOSURE	Page 5
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SENERAL H2S EMERGENCY ACTIONS:

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

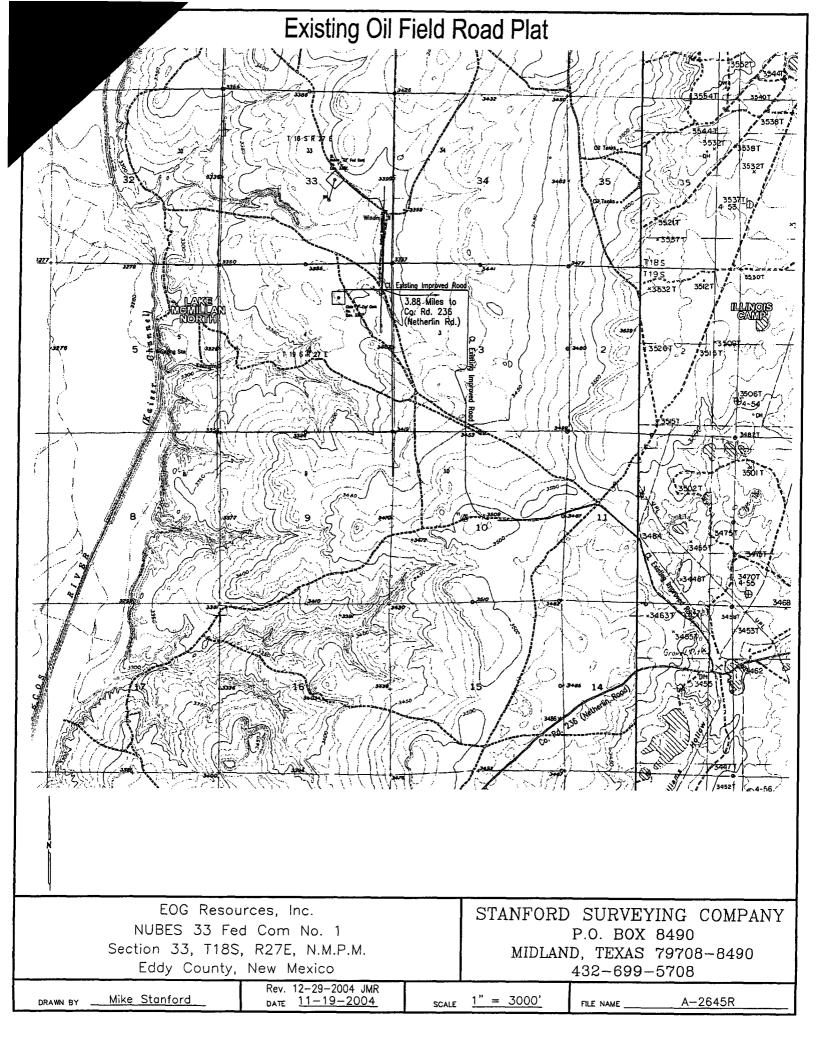
- 1) All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area".
- 2) If for any reason a person must enter the hazardous area, they must wear a SCBA (Self contained breathing apparatus)
- 3) Always use the "buddy system"
- 4) Isolate the well/problem if possible
- 5) Account for all personnel and provide for medical treatment if needed.
- 6) Display the proper colors warning all unsuspecting personnel of the danger at hand.
- 7) As per EOG's Crisis Management Plan contact EOG Management.

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 RESLEASE 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. Provide for medical treatment if necessary
- 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

EOG Resources, Inc.	<u>OFFICE</u> 432/686-3600	MOBI	<u>LE</u>	<u>HOME</u>
David Anderson	432/686-3601 432/6		34-1002	
Billy Helms	432/686-3795	432/5	57-5345	
Howard Kemp	432/686-3704	432/6	34-1001	
EMERGENCY RESPONSE	NUMBERS: Eddy	County	, New Mexico	
State Police			505/748-9718	3
Eddy County Sheriff			505/746-2701	
Emergency Medical Service		911 or 505/746-2701		
Eddy County Emergency Ma	anagement (Harry Burg	gess)	505/887-9511	
State Emergency Response		505/476-9620)	
Artesia Police Department Artesia Fire Department			505/746-5001 505/746-5001	
Carlsbad Police Department Carlsbad Fire Department			505/885-2111 505/885-3125	
Loco Hills Fire Department	Loco Hills Fire Department			١
(NMOCD) New Mexico Oil Conservation Division, District I (Lea, Roosevelt, Chavez, Curry) District II (Eddy, Chavez)			505/393-6161 505/748-1283	
American Safety Indian Fire & Safety Callaway Safety		505/746-1096 800/530-8693 505/392-2973		
BJ Services			502/746-3146	



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

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

Q=Gas flow rate, SCFPD

concentration = decimal equivalent of the volume fraction of hydrogen sulfide in the gaseous mixture

PUBLIC EVACUATION PLAN:

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

- 1) 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, oxygen, and flammable 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 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.

ROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:

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 brining the situation under control with the prevailing conditions at the site.

INSTRUCTIONS 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.
- 2) One of the people will be a 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' range to ignite the gas.
- 4) Prior to ignition, make a final check for combustible gases.
- 5) Following ignition, continue with the emergency actions and 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 and 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.

- 4) Wind Socks: Two windsocks will be placed in strategic locations, visible from all 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.

ESCUE & FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING:

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 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 (2) personnel on location shall be trained in CPR and First Aid.

2S TOXIC EFFECTS:

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 (H2)) is almost as toxic as hydrogen cyanide and is 5-6 times more toxic than carbon monoxide.

Various Gasses

Common Name	Chemical Abbrev.	Sp. GR.	Threahold 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 Leathal 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:

CONCENTRATIONS		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	Loss of consciousness quickly, death will result if not rescued promptly