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

Form C-101 May 27, 2004

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

NOV 28 Zuu/

☐ AMENDED REPORT

Submit to appropriate District Office

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, OCD-ARTESIA PLUGBACK OR ADD A ZONE

PLUGBA	CK, O	R ADI	A ZONE		·							
Operator Name and Address Tandem Energy Corporation								226192	² OGRID Numb	per		
P.O. Box 1559					236183		³ A DI Number					
Midland, TX 7970			K 79702						30 – 015-	3API Number	e	
³ Proper	-					roperty N						ell No.
3	02006			Balla	rd Grayl	burg Sa	n Andı	res Uni	t		235	
			9 Proposed Pool 1							10 Propo	osed Pool 2	
⁷ Surface	Location	1										1.20
UL or lot no	Section	Township	Range	Lot Idn Feet from					Feet from the	East/West line	County	
N	5	18-S	29-E	<u> </u>		120	0	So	uth	1475	West	Eddy
° Proposed I	Bottom H	ole Loca Township	tion If Differen	t From S		Feet from	n the	North/So	with line	Feet from the	East/West line	County
						Totalion	ii uic	140141/30	Julii iiiic	1 cat from the	Last west me	County
Additiona		<u>nforma</u>				12					1 16	
" Work T	Type Code		12 Well Type Co	de		13 Cable/ R			14	Lease Type Code P	13 Gr	ound Level Elevation 3563
	ultiple		17 Proposed De	oth		18 Form						20 Spud Date
N	10		3200'			Perm	ian		Mixo	n Drilling Company	у	12-15-2007
Depth to Groun	ndwater			Distance N/A	e from nea	rest fresh	sh water well Distance from nearest surface water N/A			water		
Pit: Liner:	Synthetic [mils thick Clay	<u> </u>	olume:	bbls	ols Drilling Method					
Closed	d-Loop Syste	em 🗌						Fre	esh Water	X Brine X Die	esel/Oil-based	Gas/Air
²¹ Propose	ed Casin	g and (Cement Prog	ram								-
Hole Si	ze	Са	sing Size	Casing weight/foot Setting Depth		pth	Sacks of Cement Estimated TO		Estimated TOC			
12 1/4			8 5/8"	24#		0'-300'		150 Lite: 100 C		Surface		
7 7/8	"		5 ½"	1	5.50#	(0'-TD 650 Lite: 1		65 C	Surface	
						-				-		
22 Describe th	e proposed	program.	If this application	is to DEEI	PEN or PL	UG BA	CK, give	the data	on the pr	Esent productive ze	one and proposed	d new productive zone.
			ogram, if any. Use						-	•	• •	
See attached program plans												
ere mannen broßemer bemee												
23	10.4.4											
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be				the II be	OIL CONSERVATION DIVISION							
constructed according to NMOCD guidelines A, a general permit , or					OIL CONSERVATION DIVISION							
an (attached) alternative QCD-approved plan						Approved by:						
ofen Soft					BRYAN G. ARRANT							
Printed name: Toben Scott					Title: DISTRICT II GEOLOGIST							
Title: Vice President - Operations					Approval Date: DEC 1 0 2007, Expiration Date: DEC 1 0 2008							
E-mail Address: tscott@tandem-energy.com				Conditions of Approval Attached								
Date: 11/27/2007 Phone: 432-686-7136					Conditio	ons of Ap	proval At	tached 📋				

District I 1625 N. French Dr., Hobbs, NM 88240 District II

District III

1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies

PEROS IUNAL

Certificate Number

15079

WO# 060106WL-k (CDG)

1000 Rio Brazos Rd., Aztec, NM 87410 Fee Lease-3 Copies District M Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 39520 LOCO HILLS QU-GB-SA Property Code Well Number **23-5** 235 BALLARD GRAYBURG - SAN ANDRES UNIT 236183 OGRID No. TANDEM ENERGY CORPORATION 3563' Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 5 18 SOUTH 29 EAST, N.M.P.M. 1200 SOUTH 1475 WEST **EDDY** Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idin Feet from the North/South line Feet from the East/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 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Date /QBEN Printed Name SURVEYOR CERTIFICATION I hereby certify rtion NEW MEXICO EAST NAD 1927 me or under my superision, and the same is the ord correct to LAT.: N 32.7724208 LONG.: W 104.1002034 15079 <u>JAN </u> 1475 Date of

,



Drilling Plan

Attachment to Form 3160-3
Tandem Energy Corporation
Ballard Grayburg San Andres Unit (BGSAU)
Eddy County, New Mexico

Trac	et Well#	Legals		Gr. Elev.
6	6-4	SW/SE 6-18S-29E	80' FSL, 2540' FEL	3599'
6	6-5	SE/SE 6-18S-29E	70' FSL1025' FEL	3588'
12	12-3	NW/NW 8-18S-29E	150' FNL 225' FWL	3577'
12	12-4	NW/NW 8-18S-29E	1125' FNL 115' FWL	3556'
12	12-5	NE/NW 8-18S-29E	253' FNL 1068' FWL	3567'
15	15-10	SW/NW 8-18S-29E	2350' FNL 200' FWL	3550'
11	11-3	SE/NE 6-18S-29E	· 1770' FNL 1090' FEL	3610'
23	23-5	SE/SW 5-18S-29E	1200' FSL 1475' FWL	3563'

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Formations:

<u>Formation</u>	<u>Top</u>
Top of Salt	+/- 325'
Base of Salt	+/- 725'
Yates	+/- 900'
Seven Rivers	+/- 1250'
Queen	+/- 1875'
Grayburg	+/- 2275'
Loco Hills	+/- 2350'
Top of Unit	+/- 2400'
Metex	+/- 2450'
Premier	+/- 2575'
San Andres	+/- 2650'
TD	+/- 3150'

3. Estimated Depths of Anticipated Fresh Water, Oil, or Gas

Water: None Anticipated
Oil: 2475'-3100'
Gas: None Anticipated

No other formations are expected to yield oil, gas, or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 8-5/8" casing at

+/- 400' and circulating cement back to surface. The Grayburg and San Andres intervals will be isolated by setting 5-1/2" csg. to TD of +/- 3200' and circulating cement to surface.

4. Casing Program:

Hole Size	<u>Interval</u>	Casing Size	Weight	<u>Grade Type</u>
12-1/4"	0'-400'	8-5/8"	24#	K-55 ST&C
7-7/8"	0'-TD	5-1/2"	15.50#	J-55 ST&C

Cementing Program:

8-5/8" Surface Casing: Cement to surface with 150 sx Lite (35% Poz, 65% Class "C", 6% gel) with 2% CaCl and ¼ lb/sx Cellophane flakes + 100 sx Class "C" with 2% CaCl and ¼ lb/sx Cellophane flakes.

5-1/2" Production Casing: Cement to surface with 650 sx Lite (35% Poz, 65% Class "C", 6% gel) with 5 lb/sx salt and ¼ lb/sx Cellophane flakes + 165 sx Class "C" ¼ lb/sx Cellophane flakes.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach surface.

5. Minimum Specifications for Pressure Control:

The blowout prevention equipment (BOP) shown in exhibit #1 will consist of a 3K (3000 psi working pressure) annular preventer. This unit is air operated with a backup hand pump. The BOP will be installed on top of the 8-5/8" surface casing and utilized continuously until total depth is reached. As per BLM Drilling Operations Order #2, prior to drilling out the 8-5/8" casing shoe, the BOP will be function tested and pressured to 1000 psi with the rig pump.

The annular preventer will be operated and checked each 24 hour period and each time that the drill pipe is pulled out of the hole. These function tests will be documented on the daily drillers log. Tandem Energy requests an exception to the minimum BOP equipment due to the shallow depth, low anticipated reservoir pressures, and extensive drilling knowledge of this lease.

6. Types and Characteristics of Proposed Mud Systems:

The surface holes on all subject wells will be drilled with fresh water. The same fresh water will be used to drill out of surface and allowed to gain chlorides through the salt section. Each new hole will start with a small volume of fresh water, and then cut brine from the previous well will be transferred over and re-used on all successive wells after the surface hole has been drilled.

<u>Depth</u>	Type	Weight	<u>Viscosity</u>	Water Loss
0'-400'	Fresh water	8.3-8.8	28-36	No control
400'-TD'	Cut brine	8.8-9.2	28-32	No control

7. Logging, Testing and Coring Program:

- A. No DST's are planned.
- B. The open hole electrical logging program will be: GR/DLL/CAL/DSN
- C. No coring program is planned.
- D. No additional testing will be initiated subsequent to setting the 5-1/2" production easing.

8. Abnormal Pressures, Temperatures, and Potential Hazards

No abnormal pressures or temperatures are foreseen. The anticipated bottomhole temperature at total depth is 110 degrees and maximum bottom pressure is 1500 psi. No major loss circulation intervals have been encountered in adjacent wells. Small quantities of H2S are associated with the Queen, Grayburg and San Andres formations in this area. An H2S plan is attached.

9. Anticipated Starting Date and Duration of Operations

Barry Hunt of the Carlsbad, New Mexico BLM office has performed the onsite inspection of the proposed pad site of this location. A cultural resources examination will be submitted by Boone Archaeological Services to the BLM Carlsbad, New Mexico office.

Road and location preparation will not be undertaken until approval has been received from the BLM. If approved, this well will be drilled as part of a development project. The anticipated spud date for this project is approximately February 25, 2006. The eight well package is anticipated to take 80 days. If the wells are deemed productive, completion operations could require an additional 30 days.



Surface Use and Operation Plan

Attachment to Form 3160-3
Tandem Energy Corporation
Ballard Grayburg San Andres Unit (BGSAU)
Eddy County, New Mexico

Trac	t Well#	Legals		Gr. Elev.
6	6-4	SW/SE 6-18S-29E	80' FSL, 2540' FEL	3599'
6	6-5	SE/SE 6-18S-29E	70' FSL1025' FEL	3588'
12	12-3	NW/NW 8-18S-29E	150' FNL 225' FWL	3 <i>577</i> '
12	12-4	NW/NW 8-18S-29E	1125' FNL 115' FWL	3556'
12	12-5	NE/NW 8-18S-29E	253' FNL 1068' FWL	3567'
15	15-10	SW/NW 8-18S-29E	2350' FNL 200' FWL	3550'
11	11-3	SE/NE 6-18S-29E	1770' FNL 1090' FEL	3610'
23	23-5	SE/SW 5-18S-29E	1200' FSL 1475' FWL	3563'

1. Existing Roads:

- A. The well sites and elevation plats for the above proposed wells are reflected in Exhibit 2. The wells were staked by Terry Asel Surveying of Hobbs, New Mexico
- B. All roads to location are depicted in Exhibit #3. No more than 600' of new road will have to be constructed for any one location.
- C. Directions to locations: From Artesia, New Mexico, go east on Highway 82 for 14 miles to State Road 360 and go approximately 5.1 miles. Turn left (East) onto caliche road at the BGSAU sign. Go approximately 0.7 miles to water plant. Follow Exhibit #3 map to each location.

2. Proposed Access Roads:

Exhibit #3 shows the new access roads to be constructed from the existing lease roads. They will be constructed as follows.

- A. The maximum width of the road will be fifteen feet.
- B. It will be crowned and made of 6 inches of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- C. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest to the location.

- C. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest to the location.
- D. Grades will be no more than 8%.
- E. No cattle guards, grates, or fence cuts will be required.
- F. No turnouts are planned.

3. Location of Existing Wells:

Exhibit #4 shows all active wells within the unit offsetting the planned new-drills.

4. Location of Existing and/or Proposed Facilities:

- A. The production facilities will be located at Tandem's central tank battery.
- B. In the event that the wells are found to be productive, they will be added to the facilities shown in Exhibit #5.
- C. The wells will be operated by means of electric motors.
- D. If the wells are productive, rehabilitation plans are as follows:
 - 1. The reserve pit will be back-filled after the contents of the pit are dry (within 120 days of completion, weather permitting)
 - 2. Caliche from unused portions of the drill pad will be removed. The original top soil from the well sites will be returned to the location. The drill site will then be contoured to the original source.

5. Location and Type of Water Supply:

All wells will be drilled with fresh water and cut brine mud systems (outlined in drilling program). The fresh water will be obtained from commercial sources and pumped through poly line to each location. No water wells will be drilled on any location.

6. Source of Construction Materials:

All caliche utilized for the drilling pad and proposed access roads will be obtained from an exiting BOM approved pit. All roads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal:

- A. Drill cuttings will be disposed into the reserve pit.
- B. Drilling fluids will be contained in the reserve pits. The reserve pit will contain excess drilling fluid, or fluid from the well during drilling, cementing, and completion operations. The reserve pits will be three rectangular 90' x 10' x 5' pits.
- C. The reserve pits will be fenced on four sides throughout drilling operations and will be totally isolated upon removal of the rotary rig. The pit will be lined using a 12 mil plastic to minimize loss of drilling fluids.
- D. Water produced from the well during completion operations will be disposed into a steel tank or reserve pit, if volumes prove excessive. After placing the well on production through the production facilities, all water will be collected in tanks and injected into the water injection system. Produced oil will be separated into steel stock tanks and sold.

- E. Garbage, trash, and waste paper produced during drilling operations will be collected in a contained trailer and disposed at an approved landfill. All waste material will be contained to prevent scattering by the wind. All water, fluids, salt or other chemicals will be disposed into the reserve pit. No toxic or hazardous chemicals will be generated by this operation.
- F. All waste material will be removed within 30 days after the well is either completed or abandoned. The reserve pit will be completely fenced until it has dried. At the point the reserve pit is found sufficiently dry, it will be backfilled and reclaimed. The portion of the drilling pad used by the production equipment (pumping unit) will remain in use. If the well is deemed non-commercial, only a dry hole marker will remain.

8. Ancillary Facilities:

No campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout:

- A. The drill pad is shown on exhibit #6. Approximate dimensions of the pad, pits, and general location of the rig equipment are displayed. Top soil, if any found will be stored adjacent to the pad until reclamation efforts are undertaken. Only modest cuts will be necessary to build the pads which will be covered with 6" of compacted caliche.
- B. No permanent living facilities are planned, but temporary trailers for the tool pusher, and mud loggers may be on location throughout drilling operations.
- C. The reserve pit and earthen pits will be lined using plastic sheeting of 12 mil thickness.

10. Plans for Restoration of Surface:

- A. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original pit or used for other drilling locations or access roads. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these efforts are feasible. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.
- B. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and location leveled, weather permitting, within 120 days after abandonment.
- C. The location and road will be rehabilitated as recommended by the BLM.
- D. The reserve pit will be fenced on four sides throughout drilling operations and will remain in place when the rotary rig is removed to precluded endangering wildlife. The fencing will be in palace until the pit is reclaimed.
- E. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days after the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. The

unused area of the drill pad will be contoured, as close as possible to match the original topography.

11. Surface Ownership

Tract 6, 11, 12, & 15 well sites are owned by Bogle, Ltd.

The tract 23 well site (and all of S/2 of section 5) is on BLM surface and minerals and has an undetermined surface lessee.

Tract 26 well sites are on private surface and minerals.

12. Other Information

- A. The area surrounding the well site is gypsiferous and supportive of desert scrub and grassland formation. The vegetation is moderately sparse with desert scrub.
- B. There are no known active water wells within a 1 mile radius of any wellsite. The nearest permanent water is a water stock tank located approximately near the southeast edge of the unit.
- C. A cultural resources examination will be submitted by Boone Archaeological Services to the BLM office in Carlsbad, New Mexico.

13. Lessee's and Operators Representative

The Tandem Energy Corporation representative responsible for ensuring compliance of the surface use plan is

Toben Scott VP-Operations (o) 432-686-7136 ext. 1102

(m) 432-528-3127 e-mail: tscott@tandem-energy.com Tandem Energy Corp.
P.O. Box 1559
Midland, TX 79702-1559

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill sites and access roads, that I am familiar with the conditions that presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; an that the work associated with the operations proposed herein will be performed by Tandem Energy Corporation and its contractors under which it is approved.

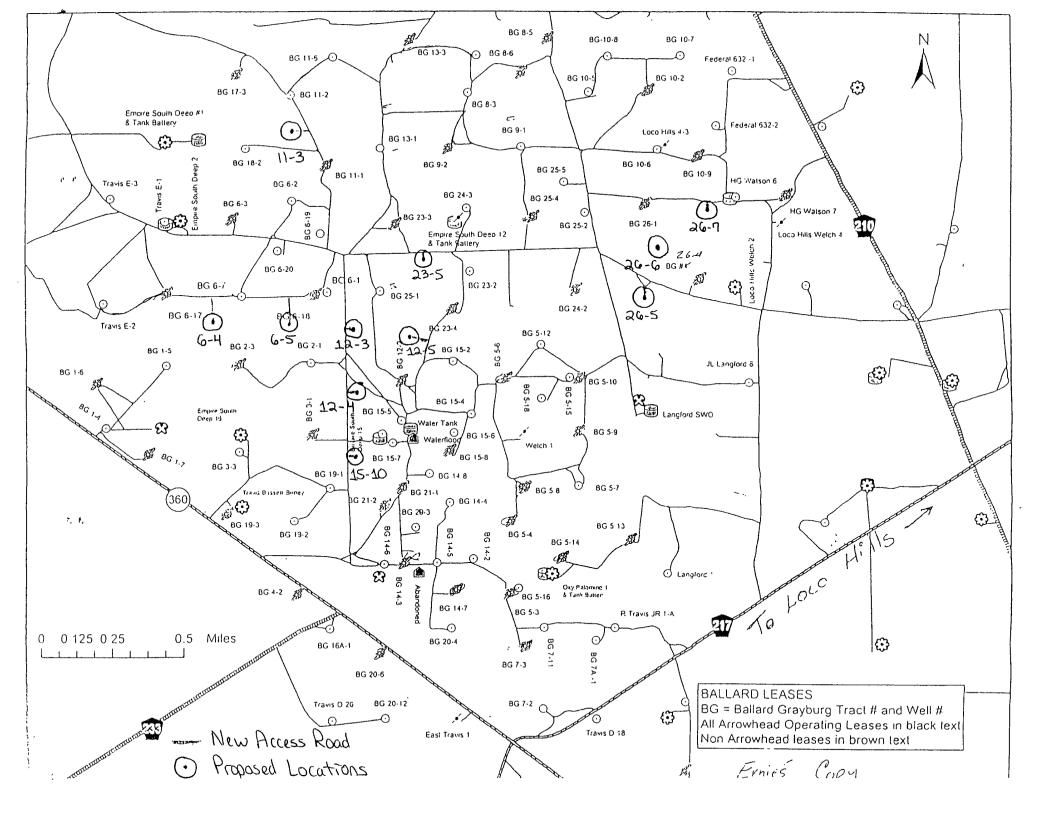
Singed: Ohn What Taken Scott VR Operations

Date: 1/23/06



PATTERSON DRILLING COMPANY, LP

VG COM A LIMITED PARTNERSHIP
TANDEM ENERGY CORPORATION
MIXON DRILLING RIG = 11
Blowart Preventer Hadrup
Flouline
3X Annuar BOP
8-5/8" Larkin Bradenhead
Kill Line M Croke Line
8-5/8" Suf. Csg.



ENERGY SITE FACILITY DIAGRAM
P.O. DRAWER 130
ARTESIA, NEW MEXICO 38211-0130
BALLARD GRAYBURG-SAN ANDRES
UNIT NO. 3910123990
SWILM NWILL, SEC. 8 TI8S-R23E
EDDY COUNTY, NEW MEXICO
LSE, PLC-061702 ------Ō WATER INJECTION PLANT PROGUETION 37371M-CLQ480 I. On sales by last unit from tank #117007. 1. 3m lates 39 last one from tank military.
2. Sank hemoterments:
A. President and Sales for Angle who and decidenting.
(1) And lates by a reside theory.
(2) And lates by an example deposit.
(3) And lates by the sales deposit.
(3) And lates by the sales deposit. (2) An *2 water for the season and not become.

3 Promotion and Solve Phase none strengthing (and Switzers,

(1) Air ell valves per facility may being directlying (and Switzers,

(2) all ell had *2 valves on (anne temp giffuriated in the
facility season.

(2) all ell had *2 valves on the season product of the control of the
facility season.

(2) all ell valves on a season season product of the control

(2) all ell valves on a season season season.

(3) all ell valves on a season season season designed

(4) all valves on a season season season designed

(5) all valves on a season season season designed

(5) all valves on a season season season designed

(6) all valves on a season season season designed

(6) all valves on a season season season designed

(6) all valves on a season season season designed

(6) all valves on a season season season season designed

(6) all valves on a season season season season designed

(6) all valves on a season season season season designed

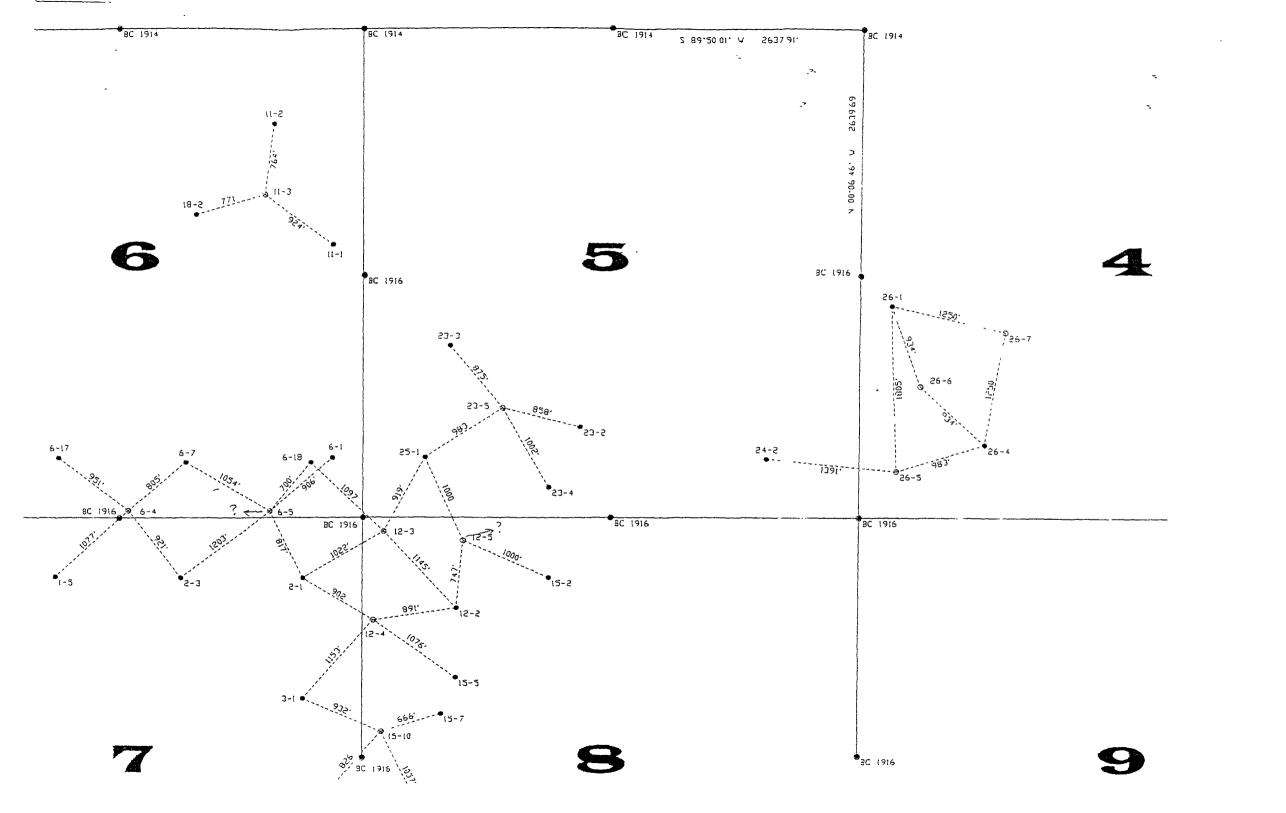
(6) all valves on a season season season season designed

(6) all valves on a season season season season designed

(6) all valves on a season season season season season designed

(6) all valves on a season sea 18-96

٠,





Hydrogen Sulfide Drilling Operations Plan

A. Hydrogen Sulfide Training

All rig crews and company personnel will receive training from a qualified instructor in the following areas prior to penetrating any hydrogen sulfide bearing formations during drilling operations.

- 1. The hazards and characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of the H2S safety equipment and of personal protective equipment to be utilized at the location such as H2S detection monitors, alarms, and warning systems, and breathing equipment. Briefing areas and evacuation procedures will also be discussed and established.
- 3. Proper rescue techniques and procedures will be discussed and established.

In addition to the above, supervisory personnel will be trained in the prevention of oil and gas well blowouts in accordance with Minerals Management Service Standards Subpart -0-250-212.

Prior to penetrating any known H2S bearing formation, H2S training will be required at the rig sight for all rig crews and company personnel that have not previously received such training. This instruction will be provided by a qualified instructor with each individual being required to pass a 20 question test regarding H2S safety procedures. All contract personnel employed on an unscheduled basis will be required to have received appropriate H2S training.

This Hydrogen Sulfide Drilling and Operations Plan shall be available at the well site during drilling operations.

B. H2S Safety Equipment and Systems

All H2S safety equipment and systems will be installed, tested and operational when drilling operations reach a depth of approximately 500' above any known or probable H2S bearing formation. The safety systems to be utilized during drilling operations are as follows:

1. Well Control Equipment

ė,

- a. 3K annular BOP with a properly sized closing unit.
- 2. H2S Detection and Monitoring Equipment

- a. Three H2S detection monitors will be placed in service at the location. One monitor will be placed near the bell nipple on the rig floor, one will be placed at the rig substructure, and one will be at the working mud pits or shale shaker. This monitoring system will have warning lights and audible alarms that will alert personnel when H2S levels reach 10 ppm.
- 3. Protective Equipment for Essential Personnel

Protective equipment will consist of the following:

- a. Two five minute escape packs located at strategic points around the rig.
- 4. Visual warning system will consist of the following:
 - a. One wind direction indicator
 - b. One condition/warning sign which will be posted on the road providing direct access to the location. The sign will contain lettering of sufficient size to be legible at a reasonable distance from the immediate location. The sign will inform the public that a hydrogen sulfide gas environment could be encountered at the location.

5. Mud Program

a. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight and safe drilling practices (for example, keeping the hole filled during trips) will minimize the hazards when drilling in H2s bearing formations.

6. Metallurgy

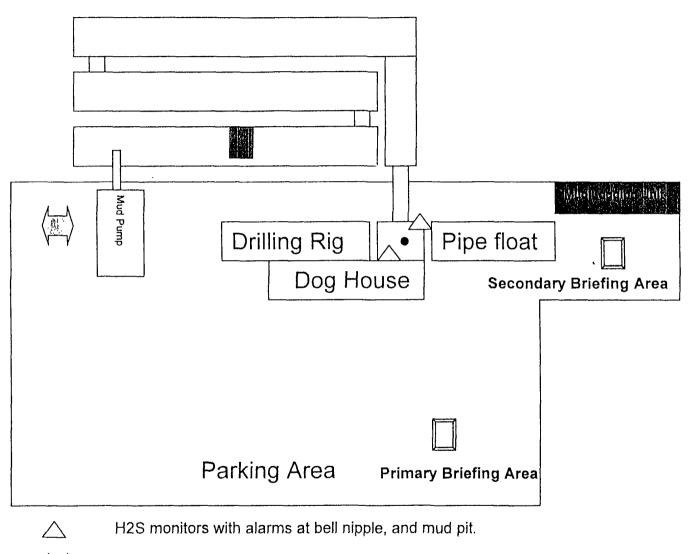
a. All drill strings, casings, tubing, wellhead, blowout preventers, drilling spools, kill lines, and valves shall be suitable for H2S service.

7. Communication

a. Cellular telephone communication will be available by and between rig crews and company supervision.

C. Diagram of Drilling Location

1. Attached is a diagram representing a typical location layout as well as the location of H2S monitors, briefing areas, and wind direction indicators.

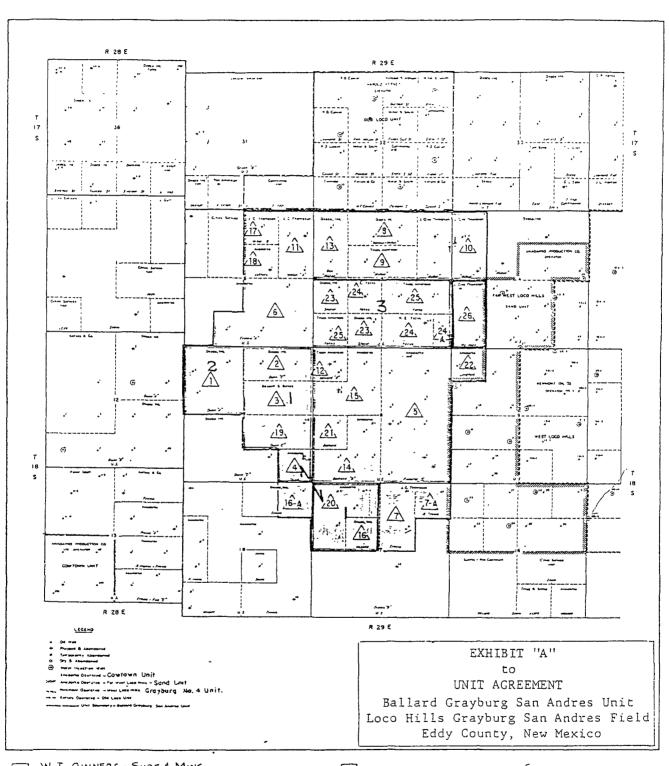




Wind direction indicators



Safe briefing areas with caution signs and protective breathing equipment



W.I.OWNERS - SURF & MINS.
(NO R.O.W. PROBLEM)

OWNERS RATIFIED UNIT - SURF & MINS.
(NO R.O.W. PROBLEM)

: - U.S.A.- MINS., BOXLE FARMS - SURF.

U.S.A-MINS., C.A. BISHOP-SURF.

U.S.A. · SURE & MINS. BOYLE FARMS - GRAZING LESSEE

U.S.A. - SURF. & MINS., J. W. SALT - GRAZING LESSEE

3 U.S.A. - SURF & MINS., ? GRAZING LESSEE

Attachment to Exhibit #1 Attachment to Form C-101 Tandem Energy Corporation Ballard Grayburg San Andres Unit (BGSAU) Eddy County, New Mexico

- 1. The drilling nipple (bradenhead) will be male-type and screwed into the API drifted and tested 8-5/8" csg. collar. It can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Blowout preventer and all associated fittings will be in operable condition to withstand 1000 psi surface shut-in pressure. This pressure assumes a 1500 psi max bottomhole pressure less a partially evacuated hole with a pressure gradient of 0.22 psi/ft. The BOP and surface csg. will be tested hydrostatically to 1000 psi prior to drilling out the surface shoe.
- 3. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 4. Rig air supply and backup hand pump to operate the annular BOP will be properly installed and tested for safe operation.
- 5. All BOP equipment will meet API standards.

