N.M. Oil Cons. DIV-Dist. 2

Form 3160-3 (November 1983) (formerly 9-331C)	DEPAR	UNITEI	O STATE	1301	W:" G sia, Ñ	and At	/ e n 210	Form approved. Budget Bureau Expires Augus LEASE DESIGNATION	No. 1004-0136 31, 1985	_
	BUR	EAU OF LA	AND MANA	GEMENT			i	NMNMO		
APPLICATION	ON FOR PE	RMIT TO	DRILL,	DEEPEN,	OR PLI	JG BAC	K	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
1a. TYPE OF WORK	RILL 🔯		DEEPEN			BACK [7. UNIT AGREEMENT >	EMA	
b. TITE OF WELL	CAS U	OTHER		Bingle Zone		MULTIPLE [o	S. FARM OR LEASE NA	XB	-
2. NAME OF OPERATOR					/22324	25263		GISSI	ER B	
BURNETT OIL		(817/332-	5108)		222	76	- 77	9. WELL NO. #33 (API# :	20 015 73 73	
3. ADDRESS OF OPERATO 801 CHERRY		TE 1500, FC	ORT WORT	H, TEXAS	76102 💯	7200-	33	10. FIELD AND POOL,		1 62
4. LOCATION OF WELL At surface				th any State	requirements		- ≌	GEBAR-E	HE-VEOO	
At surface UNI	F,2195' FNL, ک	, 2215' FWL web & \$	Loce	H1115/2	Padri	a facil	-1	11. SEC., T., R., M., OR AND SURVEY OR AL	BLK. REA	
At proposed prod. 1		ME AS SUF		N. S.	C.	1 ^{CS} 14	ري الم		17S, R30E	
14. DISTANCE IN MILE APPROXIMAT					1172 E	016819		12. COUNTY OR PARISH	1	
15. DISTANCE PROM PRO		EAST OF L	OCO HILLS	·	ACRES IN LE		1	EDDY F ACRES ASSIGNED	NM NM	-
LOCATION TO MEAN PROPERTY OR LEAS (Also to Bearest d	LIKE, FT.	ny)	330'		240		TO TH	40		
18. DISTANCE FROM PR TO NEAREST WELL,	DRILLING, COMPL		2201	19. PROPOSE		20.	ROTAR	Y OR CABLE TOOLS		-
OR APPLIED FOR, ON 1		D eta \	330'	1	5250'			ROTARY 1 22, APPROX. DATE WO		-
3695' G		,							ER 15, 2003	
23.		PROP	OSED CASI	NG AND CE	CENTING P	ROGRAM	R	OSWELL CONTRO	iien water	· PIRACYNY
SIZE OF HOLE	SIZE OF CA		weight per p	00T	BETTING DEPT	н		QUANTITY OF CEMEN		PUSHA
·	TINESS8 5	/8"	24#		500'		+/-40(0 Sks(Circ. to Surfa	ace) WITNI	ESS
7 7/8"	5 1	/2"	15.50#		5200'			00 Sks in 2 Stages		-
							(If wa	ater flows are enco	untered	
	1	•				•	ceme	enting program may	vary.)	
A 12 1/4" hole surface. After a hole will be run and We will perfora	18 hour ceme ed to approx. set @ TD and	ent wait, casi 5200' to effe cemented to	ing & BOP ctively test of 600' above	will be teste the Cedar I e highest p	ed before d Lake Yeso otential pro	Irill out of t interval. T oducing ho	he sh The 5 orizon	noe. A 7 7/8" 1/2" casing n(approx. 2100'.) /	2021222324	25.26.25 W
	VAL SUBJ AL REQUI PECIAL ST		TS IONS					15 16 15 16 TA	000 ROCK 18 18 18 18 18 18 18 18 18 18 18 18 18	3 3751

ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout

preventer program, i	if any.		
24. SIGKED M	ding landlyst	PETROLEUM ENGINEER	DATE 9/17/2003
(This space for	Federed or State office use)		
PERMIT NO.		APPROVAL DATE	
APPROVED BY	/s/ Joe G. Lara	ACTINFIELD MANAGER	2 3 OCT 2003
CONDITIONS OF AP	PROVAL IF ANY:		

6666

DRILLING PLAN

BURNETT OIL CO., INC.
LEASE NO.NMNM 074939
GISSLER B LEASE, WELL NO.33
UNIT LETTER F
2195' FNL, 2215' FWL
SECTION 14, TOWNSHIP 17 SOUTH, RANGE 30 EAST
EDDY COUNTY, NEW MEXICO

(A) DRILLING PROGRAM

(1) Estimated tops of geologic markers:

Alluvium....Surface
Anhydrite.....275'
Salt.......505'
Base Salt.....1295'
Yates.....1387'
Seven Rivers...1723'
Grayburg.....2708'
San Andres....3030'
Glorieta....4330'

(2) Estimated depths of producing formations:

Fresh water.....None
Saltwater flows..(?)*
Oil and Gas.....1387'**,2708'**

- * As waterflows, if any, are encountered, their depth will be recorded, and drilling will continue to total depth. Multiple stage cementers will be placed in the production casing string to enable us to confine the waterflows to their respective depths by cementing.
- ** Oil and gas bearing zones, if any, will be determined by log analysis, and will be confined by cementing; subsequently perforated, stimulated and produced in a conventional manner.

(3) Blowout Preventer Specifications:

A 2000 PSI Hydril unit with hydraulic closing equipment. (See Exhibit E schematic). The preventer will be tested before drilling out below surface pipe setting depth. The exact description of the preventer and related equipment will depend on the successful contractor, who has not yet been selected. No high pressure hydrocarbon zones are anticipated.

(4) Supplementary drilling equipment information:
Not available at this time.

(5) Supplementary casing program information:

- a. Surface casing: Surface casing will consist of new 8-5/8" OD 24# J-55 ST&C R3 pipe and will be run into a 12-1/4" hole with notched Texas Pattern shoe on bottom, insert float valve in first collar, Two(2) centralizers around shoe joint and first collar. Bottom 3 joints will be thread locked. Setting depth will be +/- 475'in the Rustler Anhydrite, depending on where a suitable casing seat can be found. Cement will be circulated back to the surface. Initial cement volume will be calculated to be 100% excess of the calculated annular volume between the 8-5/8" casing and the hole. If circulation of cement to the surface is not achieved due to lost circulation, we would like permission (without having to call BIM) to fill this annular space using sufficient rat hole mix to bring cement to surface per BIM specifications. Eighteen(18) WOC time will be allowed as per NMOCD. Casing will be tested to 1000 PSI before drilling out.
- b. Production casing: Production casing will consist of new 5-1/2" OD 15.50# J55 R3 8rd LT&C pipe being run to total depth with float shoe on bottom, float collar in first collar, centralizers throughout intervals and above and below any multiple stage cementers, and being cemented with sufficient volume to bring top of cement 600' above the top of the highest potential producing horizon. If water flow is encountered, we will cement from TD back to the stage cementer, open stage cementer, cement from stage enter with sufficient volume of Class C or equivalent to bring cement up to at least 600' above the highest potential producing horizon, then balancing hydrostatic weight of the cement by adjusting the flow of water to surface through the 5-1/2" casing, enabling the 2nd stage of cement to set up. Casing will be shut in after twelve(12) hours. If there is no flow of water to surface around the 5-1/2" casing, we will cement the water flow proper through the stage cementer with +/- 900 sacks. In case the 2nd stage is not successful in shutting off any annular flow, we will repeat the 2nd stage until successful. After drilling out and testing the casing to 2000 PSI, a cement bond log will be run to evaluate the cement job.
- (6) <u>Mud program:</u> Native mud (red beds and shale) will be used to total depth. The surface hole will be drilled with fresh water and lost circulation materials as needed. The remaining hole will be drilled with brine water with necessary additives.
- (7) Logging program: If no water flow(s) are encountered, we will run Neutron Litho density-DLL logs. If water flow(s) are encountered, no open hole logging will be attempted, and after casing is set, cased hole GR/CN logs will be run. No other testing or coring is anticipated.

200

- (8) Abnormal pressures or hazards: No abnormal pressures or potential hazards are anticipated. The maximum anticipated bottom hole pressure is 1000#. The maximum anticipated bottom hole temperature is 91°F.
- (9) Other facets of the operation to be pointed out: None.

(B) HYDROGEN SULFIDE DRILLING PROGRAM

(1) Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of Hydrogen Sulfide (H2S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing wind.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well, blowout prevention and well control procedures.
- c. The contents and requirements of the H2S Drilling Operations Plan and the Public Protection Plan (if applicable.)

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan (if applicable). This plan shall be available at the wellsite. All personnel will be required to carry documentation that they have received the proper training.

(2) H2S SAFETY EQUIPMENT AND SYSTEMS

Note: all H2S safety equipment and systems will be installed, tested and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S.

a. Well Control Equipment:

- 1. Choke manifold with a minimum of one remote-controlled choke.
- 2. The Hydril BOP will accommodate all pipe sizes with a properly sized closing unit.

b. Protective equipment for essential personnel:

- 1. Mark II Surviveair (or equivalent) 30 minute units located in the dog house and at the primary briefing area(to be determined.)
- c. H2S detection and monitoring equipment:
- 1. Three(3) portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

d. Visual warning systems:

- 1. Wind direction indicators will be positioned for maximum visibility.
- 2. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

e. Mud program:

A. ...

1. The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

f. Metallurgy:

- All drill strings, casings, tubing, wellheads, Hydril BOPS, drilling spools, kill lines, choke manifold, valves and lines will be suitable for H2S service.
- 2. All elastomers used for packing and seals shall be H2S trim.

g. Communication:

- Cellular Telephone and/or 2-way radio will be provided at wellsite.
- 2. Landline telephone is located in field office.

h. Well testing:

 Drill stem testing or coring may be done in this well bore.
 Completion testing, if required, will be conducted under the same Applicable H2S guidelines that were used in drilling.

(C) SURFACE USE PROGRAM

- (1) Existing roads: Exhibits A, B and C show maps of the general area. From Loco Hills, New Mexico, go east on U.S. Highway 82 approximately 3 miles. Turn north on County road 220 and go approximately 1 mile. Turn west onto lease road and follow to the location.
- (2) Access roads to be constructed: This location will not require any additional lease road from the existing lease road into the well pad. See Exhibit A.
- (3) Location of existing wells: See Exhibit A.
- (4) Location of existing or proposed production facilities:

 See Exhibit A for location of existing Gissler B3-3 production facility on the lease. We propose to above ground commingle this Cedar Lake, Yeso production with the approved existing Yeso & Grayburg production by laying approximately 3600'of new flowline from this well pad along and existing road route to the existing Gissler B #3-3 Tank Battery. We will apply for an amended ROW for the approx. 300' portion of the line that crosses the lease line.
- (5) Location and type of water supply: All water to be used in drilling the well will be brine or fresh water trucked from Loco Hills, New Mexico or fresh or produced water furnished by our waterflood facilities.

- (6) <u>Construction materials</u>: Construction material will be caliche which may be available at the proposed location. If not available on location or road, caliche will be hauled from nearest approved caliche pit.
- (7) Methods of handling waste disposal: Drill cuttings will be disposed of in the lined reserve drilling pit. Auxiliary emergency water containment pits may be necessitated by large volume water flows and these pits, which will hold only water, will not be lined. All drilling fluids will be allowed to evaporate after drilling is completed, at which time pits will be back filled, leveled and reseeded. Trash, waste paper, garbage and junk will be placed in a portable screened trash container on location. All trash and debris will be transported to an authorized disposal station within 30 days following completion activities. Oil and/or water produced during testing operations will be stored in steel tanks until either sold or disposed of through one of our approved disposal methods.
- (8) Ancillary Facilities: There are no planned ancillary facilities.
- (9) Well site layout: Exhibit D shows the relative location and dimensions of the drilling pad and related components. Only minor differences, if any, in length and/or width of the drilling pad are anticipated, depending on which drilling contractor is selected to drill the well. Only minor leveling of the drilling site is anticipated.
- (10) Plans for restoration of the surface:
 - (a) After drilling and successful completion operations are finished, all equipment and other materials not required for normal production operations will be removed. Pits will be backfilled, leveled and re-seeded. Well site will be left in a neat condition.
 - (b) Any unguarded pits containing fluid will be fence until backfilled.
 - (c) After abandonment of the well, surface restoration will be in accordance with regulations of the SMA. Pits will be backfilled and location will be cleaned. The pit area, well pad and all unneeded access roads will be ripped to promote revegetation. Rehabilitation should be accomplished within 90 days after abandonment.
- (11) Surface ownership: All lands are Federal.

- (12) Other information: The topography of the area is relatively flat, with small hills and sand dunes. The soil is fine, deep sand underlain by caliche. Vegetation cover is generally sparse and consists of mesquite, yucca, oak shinnery and sparse native grasses. Wildlife in the area is typical of that of semi-arid lands and includes coyotes, rabbits, rodents, reptiles, dove and quail. There are no ponds, streams or residences in the area. There is intermittent cattle grazing and hunting in the area; however, the principal land use is for oil and gas production. An archaeological clearance report will be sent to you by a BLM approved archaeological service.
- (13) Operator's representative: Our field representative responsible for compliance with the approved surface use and operations plan is:

Mr. Bobby Claborn, District Supt. P.O. Box 188
Loco Hills, New Mexico 88255
Office phone: 505-677-2313
Home phone: 505-677-2151
Cellular phone: 505-746-7979

I hereby certify that I, or persons under my direct supervision have inspected the drill site and access route; that I am familiar with the conditions that currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Burnett Oil Co., Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date: 9/17/2003

Sterling P. Randolph Petroleum Engineer

By Steeling Plandigh

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

DISTRICT II P.O. Drawer DD, Artonia, NM 88211-0719

OIL CONSERVATION DIVISION

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 67410

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DIS	STR	ICT	IV			
P.O.	ROT	2088.	SANTA	FE.	N.M.	87504-2068

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

30 - 015	9683/	CEDAR LAKE,	YESO
Da 2389		Property Name HISSLER B	Well Number 33
00000 No. 810		Operator Name OIL COMPANY INC.	Elevation 3695'

Surface Location

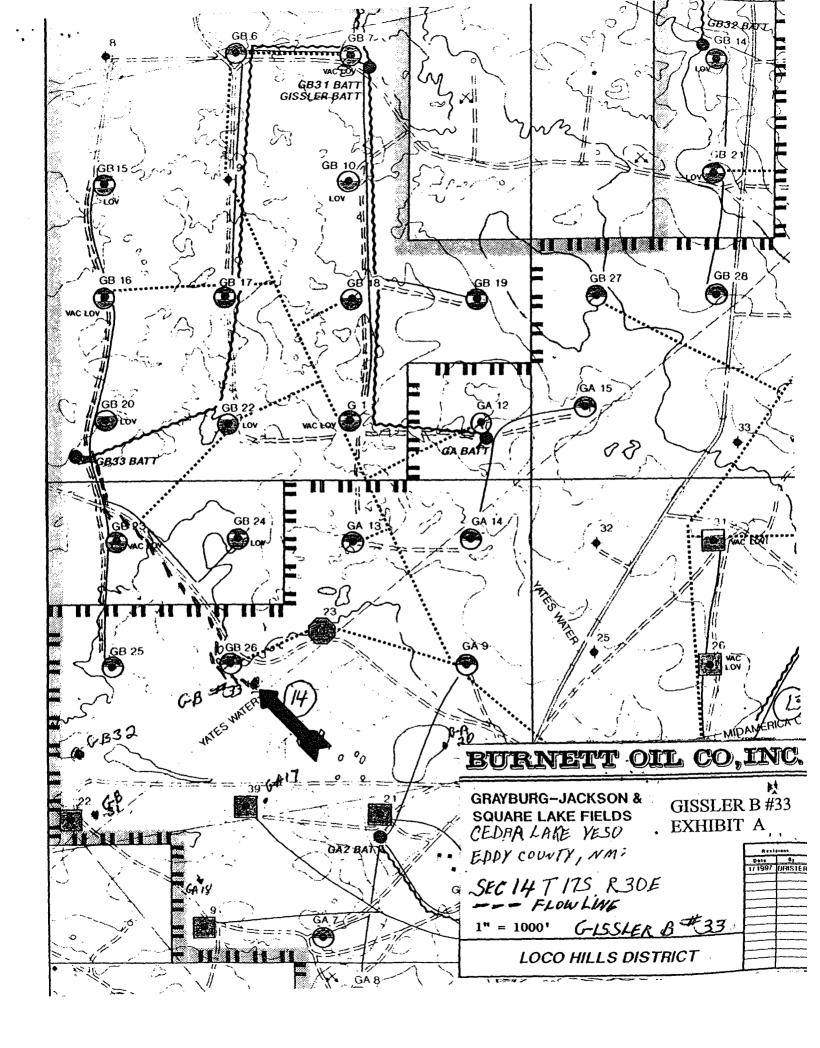
-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	F	14	17-S	30-E		2195'	NORTH	2215'	WEST	EDDY

Bottom Hole Location If Different From Surface

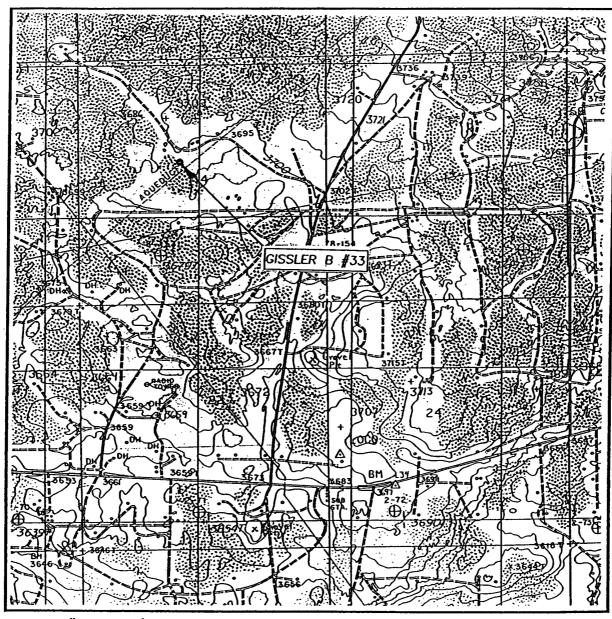
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation C	ode Oro	ler No.				

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

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY	OPERATOR CERTIFICATION
	I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	Signature STERLING RANDOLPH
3695.4' 3692.0'	Printed Name PETROLEUM ENGINEER Title 9 //6 /2003 Date
3692.1' L 400' J 3689.9'	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of
NAD 27 NME Y = 667921.7 N X = 619749.4 E LAT. 32"50"08.14"N LONG. 103"56"36.47"W	actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief. August 21, 2003
	Date Surveyed Elos A.W.B. Signature & Seat of Solution Professional Surveyor. Date house of 2/3/03
	Certificate No GARY EUSER 12641



LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

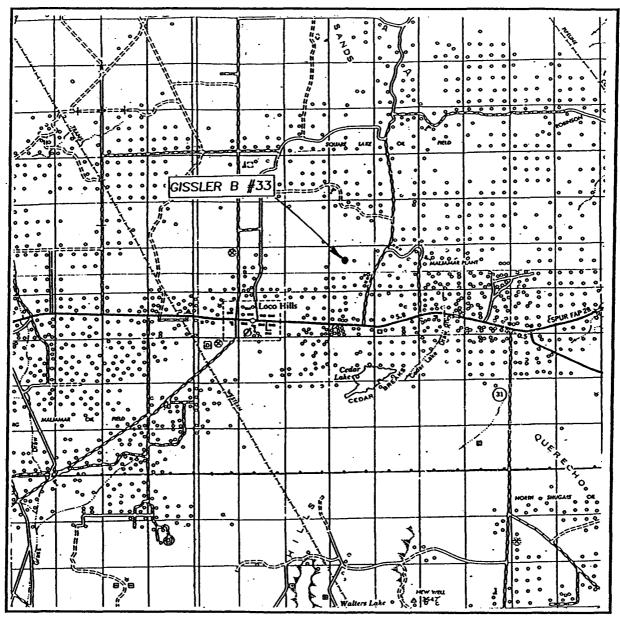
CONTOUR INTERVAL: 10' LOCO HILLS, N.M.

SEC. 14 TWP. 17-S RGE. 30-E
SURVEY N.M.P.M.
COUNTYEDDY
DESCRIPTION 2195' FNL & 2215' FWL
ELEVATION 3695'
OPERATOR BURNETT OIL COMPANY LEASE GISSLER B
U.S.G.S. TOPOGRAPHIC MAP

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

> GISSLER B #33 EXHIBIT B

VICINITY MAP

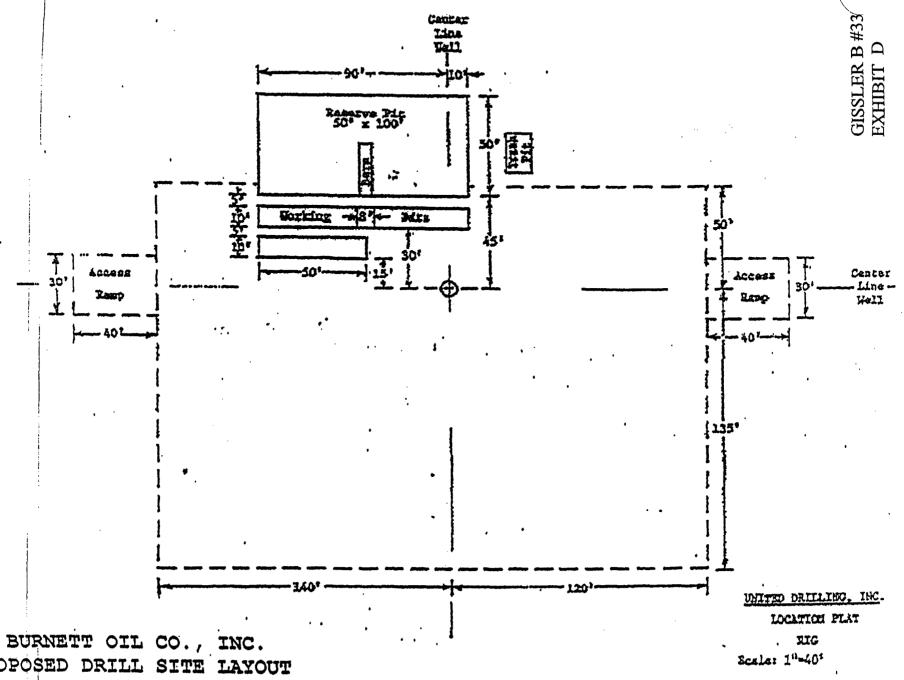


SCALE:	1" =	2	MILES
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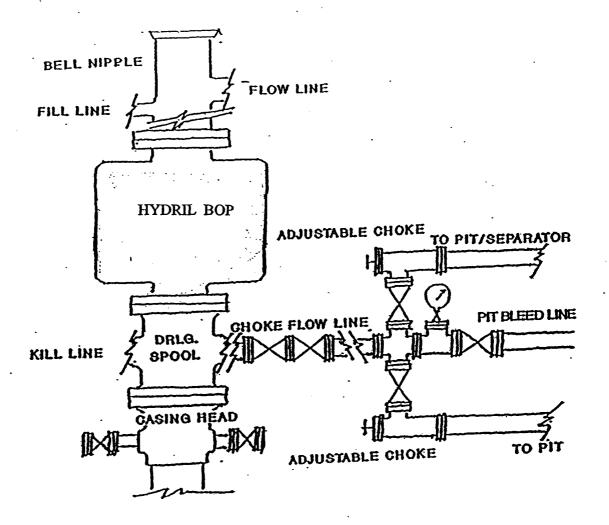
SEC. <u>14</u> T	WP. <u>17-S</u> RGE	. <u>_30-Е</u>
SURVEY	N.M.P.M.	
	EDDY	
	2195' FNL &	
	3695'	
OPERATOR	BURNETT OIL	<u>COMPANY</u>
LEASE	GISSLER B	

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

GISSLER B #33 EXHIBIT C



PROPOSED DRILL SITE LAYOUT



BURNETT OIL CO., INC.

BLOWOUT PREVENTER & CHOKE MANIFOLD DIAGRAM 2000 PSI WORKING PRESSURE SERIES 600 FLANGES

GISSLER B #33 EXHIBIT E



November 20, 2003

New Mexico Oil Conservation Division 1301 Grand Avenue Artesia, New Mexico 88210 Attn: Mr. Byran Arrant

Re: H2S Rule 118 Contingency Plan.
Gissler B #33, Unit F, 2195' FNL, 2215' FWL
SEC.14, T17S, R30E- Eddy County, New Mexico

Dear Mr. Arrant:

Please accept this letter as our notice we do not believe the referenced plan is required for the referenced well. We have calculated the hazard volume as follows: highest H2S quantity 10,000 PPM, and using a production rate of 255 MCFGPD the 100 PPM radius is 181' and the 500 PPM radius is 83'. This footage does not get off our well locations.

Please contact our Mr. Sterling Randolph or the undersigned if you require additional information.

Yours truly.

James H. Arline

Materials Coordinator