NI M Oil Cone DIV Diet o

Form 3160-3 (November 1983)	11811	TED CTATE				Budget Bureau 1 Expires August	No. 1004-0136	
(formerly 9-331C)	DEPARTMEN BUREAU O	IT OF THE I	NTERIOR SEMENT	esia, NM	8821	MWTC(
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
1a. TIPE OF WORK	ILL 🛛	DEEPEN		PLUG BA		7. UNIT AGREEMENT N	IND	
	AS OTHER		SINGLE ZONE	MULTI ZONE	PLE [S. FARM OR LEASE NAM	(E	
2. NAME OF OPERATOR		•••			J	GISS	LER A	
BURNETT OIL (332-5108)		<u> </u>	77,	9. WELL NO. #24 (API#	³⁰⁻⁰¹⁵⁻ 334	
4. LOCATION OF WELL (R	TREET, SUITE 150	id in accordance wi	/. V	quirements.*)	(C)	10. FIELD AND POOL, O		
At surface ONII J	, 1650' FSL, 1776' F	.EL	31		14.15	11. SEC., T., R., M., OR B AND SURVEY OR AR	LK.	
At proposed prod. son	e SAME AS	SURFACE	9300	RECEIVED OCD - ARTES	- 61	1	T17S, R30E	
14. DISTANCE IN MILES APPROXIMATI	AND DIRECTION FROM NE ELY 6 MILES EAST	OF LOCO HILL	S, NEW ME	KICO	3	12. COUNTY OR PARISH EDDY	18. STATE NM	
15. DISTANCE FROM PROPE LOCATION TO NEARES PROPERTY OR LEASE I (Also to nearest drig	r Line, ft.	330'	16. NO. OF AC	22232409 122324099	1/17: NO. C	(47. NO. OF ACRES ASSIGNED TO THIS WELL 40		
18. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	330'	19. PROPOSED	5400'	20. ROTARY OR CABLE TOOLS ROTARY			
21. ELEVATIONS (Show who 3694' GR	ether DF, RT, GR, etc.)	koswell Cor	ntrolled Wat	er Basin		22. APPROX. DATE WOL	ST 1, 2004	
23.		PROPOSED CASII			AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT SETTING DEPTH		1	QUANTITY OF CEMENT			
14 7/8"	9 5/8"	32.30#	32.30# ,375' 500 * +/~		+/-40	+/-400 Sks(Circ. to Surface)		
8 3/4"	7"	23# 5390' +/-1500 Sks		00 Sks in 2 Stages				
	•				(If wa	ater flows are encour	ntered	

A 14 7/8" hole will be drilled to Rustler Anhydrite. We will set 9 5/8" casing @ this depth & cement to surface. After a 18 hour cement wait, casing & BOP will be tested before drill out of the shoe. An 8 3/4" hole will be drilled to approx. 5400' to effectively test the Cedar Lake Yeso interval. The 7" casing will be run and set @ TD and cemented to 600' above highest potential producing horizon(approx. 2100'.) We will perforate and treat productive intervals as recommended by service company.

> APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

cementing program may vary.)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen of sone. If proposal is to drill or deepen directionally, give pertinent data preventer program, if any.		
SIGNED Stuling & Cantle TITLE	PETROLEUM ENGINEER	DATE Juna 3, 2004
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY /S/ Joe G. Lara PUTILE F	IELD MANAGER	JUL 0 7 2004

APPROVAL FOR 1 YEAR

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

Form C-144

March 4, 2004

Pit or Below-Grade Tank Registration or Closure

Type of action: Registration of a pit	or below-grade tank X Closure of a pit or below-	grade tank 🔲			
Operator: BURNETT OIL CO., INC. Telephone: §	817/332-5108 e-mail address:				
Address: 801 CHERRY STREET- UNIT #9, 1500 BURNETT PLAZA, FC					
Facility or well name: GISSLER A #24 API #: 30-015-		R 30 E			
County: EDDY Latitude 32°49'53.96" N Longitude			n 🗌		
Pit	Below-grade tank				
Type: Drilling X Production Disposal	Volume:bbl Type of fluid:				
Workover	Construction material:				
Lined X Unlined □	Double-walled, with leak detection? Yes 🔲 l	f not, explain why not.			
Liner type: Synthetic X Thickness 20/40 mil Clay Volume			_		
<u>8300</u> bbl					
Depth to ground water (vertical distance from bottom of pit to seasonal high	Less than 50 feet	(20 points)	DE0-		
water elevation of ground water.) MORE THAN 100'	50 feet or more, but less than 100 feet	(10 points)	RECEIVED		
water elevation of ground water.)	100 feet or more	(0 points)	JUN 0 7 2004		
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)	OSP-ARTESIA		
water source, or less than 1000 feet from all other water sources.) NO	No	(0 points)			
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)			
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(20 points)			
MORE THAN 1000'	1000 feet or more	(10 points)			
WORE THAN 1000	1000 feet of more	(0 points)			
	Ranking Score (Total Points)		,		
If this is a pit closure:					
(1) attach a diagram of the facility showing the pit's relationship to o	other equipment and tanks.				
(2) Indicate disposal location: onsite offsite If offsite, name	of facility				
(3) Attach a general description of remedial action taken including re	emediation start date and end date.				
(4) Groundwater encountered: No \(\subseteq \text{Yes} \subseteq \subseteq \text{If yes, show depth below ground surface} \) ft. and attach sample results.					
(4) Groundwater electrical (5) It is in a yes, show deput below ground surface. It and attach sample results.					
I hereby certify that the information above is true and complete to the best of	my knowledge and belief. I further certify that	the above-described n	it or below-grade tank has		
been constructed or closed according to NMOCD guidelines.	4 1	_	and the same same same same same same same sam		
Date: MANUAL TITLE STEPLING PANIDOLPH/ BETPOLEUM ENCINE	CER Signature Della (landeld	•		
Printed Name/Title STERLING RANDOLPH/ PETROLEUM ENGINE Your certification and NMOCD approval of this application/closure does not		carringe			
otherwise endanger public health or the environment. Nor does it relieve the regulations.	operator of its responsibility for compliance with	any other federal, state,	or local laws and/or		
Approval:					
APPROUN 9 2004 July Lan U	$\cap 0 \cap$				
Printed Name/Title	Signature				
Times (valle) Title	_ Signature				

6666

DRILLING PLAN

BURNETT OIL CO., INC.
LEASE NO.NMLC 029338A
GISSLER A LEASE, WELL NO.24
UNIT LETTER J
1650' FSL, 1776' FEL
SECTION 14, TOWNSHIP 17 SOUTH, RANGE 30 EAST
EDDY COUNTY, NEW MEXICO

(A) DRILLING PROGRAM

(1) Estimated tops of geologic markers:

Alluvium....Surface
Anhydrite.....223'
Salt.......423'
Base Salt.....1163'
Yates......1320'
Seven Rivers...1604'
Grayburg.....2610'
San Andres....2975'
Glorieta.....4470'

(2) Estimated depths of producing formations:

Fresh water.....None
Saltwater flows..(?)*
Oil and Gas.....1604'**,2610'**

- * 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 9-5/8" OD 32.30# H40 OR 36# J-55 ST&C R3 pipe and will be run into a 14-7/8" hole with notched Texas Pattern shoe on bottom, insert float valve in first collar, Two(2) centralizers around shoe joint and first collar. Bottom three (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 9-5/8" 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 BLM) to fill this annular space using sufficient rat hole mix to bring cement to surface per BLM specification. Eighteen (18) hours WOC 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 7" OD 23# 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 be 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 cementer 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 7" 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 7" 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.

- (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 to 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:

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, 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:

1. Drill stem testing 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 3.9 miles. Turn north on County road 220(Square Lake) and go approximately 1 mile. Turn west onto lease road and follow to the location.
- (2) Access roads to be constructed: This location will <u>not</u> require any additional lease road from the well pad to an existing lease road. 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 A2 production facility on the lease. We propose to above ground commingle this Loco Hills Paddock (Cedar Lake, Yeso) production with the approved existing Yeso & Grayburg production by laying approximately 200' of new flowline from this well pad along an existing roadway route to the existing Gissler A2 Tank Battery.
- (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) Construction materials: 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. Belton Mathews, District Supt. P.O. Box 188
Loco Hills, New Mexico 88255
Office phone: 505-677-2313
Home phone: 505-677-2358
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: June 3, 2004

Sterling P. Randolph Petroleum Engineer

By: Steeling & Randoff

State of New Mexico

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

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

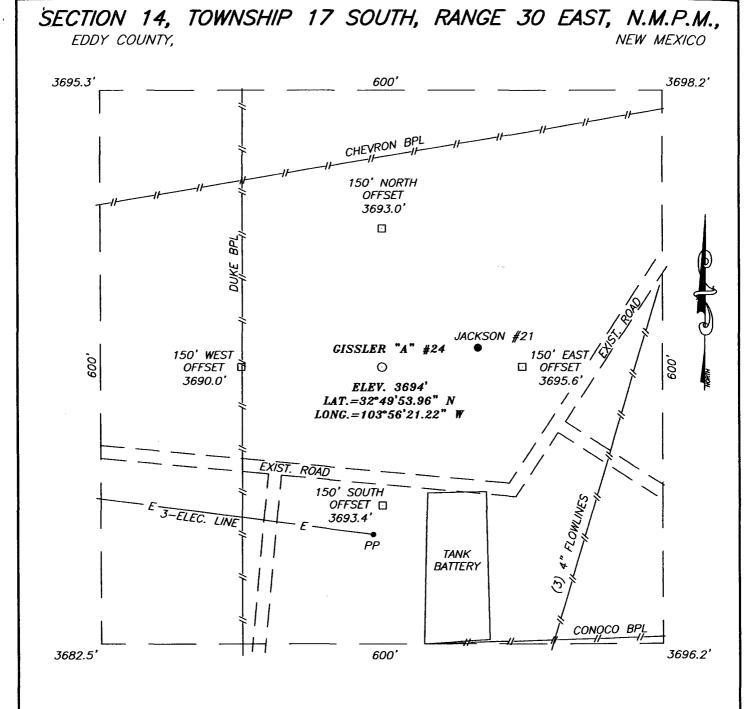
DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

DISTRICT IV p.o. box 2066, santa fe, n	1.M. 87504-2088	WELL LO	CATION	AND ACREA	GE DEDICATI	ON PLAT	☐ AMENDI	ED REPORT
30-015-		96	Pool Code	1	OCO 414	Pool Name	OCK	
Property Code	de Property Name							aber
Ø Ø 2 388 GISSLER "A"						24		
OGRED No.			BUR	Operator Nam NETT OIL C			Elevation 3694	
				Surface Loca	ation			
UL or lot No. Sect	tion Towns	hip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J 14	4 17	-S 30-E		1650'	SOUTH	1776'	EAST	EDDY
		Bottom	Hole Loc	cation If Diffe	rent From Sur	face		
UL or lot No. Sect	tion Towns	hip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
40			TO THIS		INTIL ALL INTER		EEN CONSOLIDA	ATED
		GEODETIC CO NAD 27 Y=66649 X=62105 LAT.=32*49' LONG.=103*56	NME 12.9 N 155.1 E 153.96" N 16'21.22" V	3698.2	1776'	I hereby contained hereit best of my known best of my known signature Signature STERLING Printed Nam PETROLEU Title SURVEYO I hereby certify on this plat we actual surveys supervison or correct to the signature of the professional surveys signature is a professional surveys signature.	OR CERTIFICAT The state of the same is the best of my belte. AY 10, 2004 Section 10, 2004	Off TION In notes of under my true and

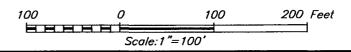


DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #82 AND EDDY CO. RD. #220 (SQUARE LAKE) GO NORTH ON EDDY CO. RD. #220 FOR 1.0 MILES TO A CALICHE ROAD ON THE LEFT. TURN LEFT AND GO WEST 0.15 MILES TO A FORK IN THE ROAD. TAKE LEFT FORK AND GO 0.1 MILES. THIS LOCATION IS 150' WEST.



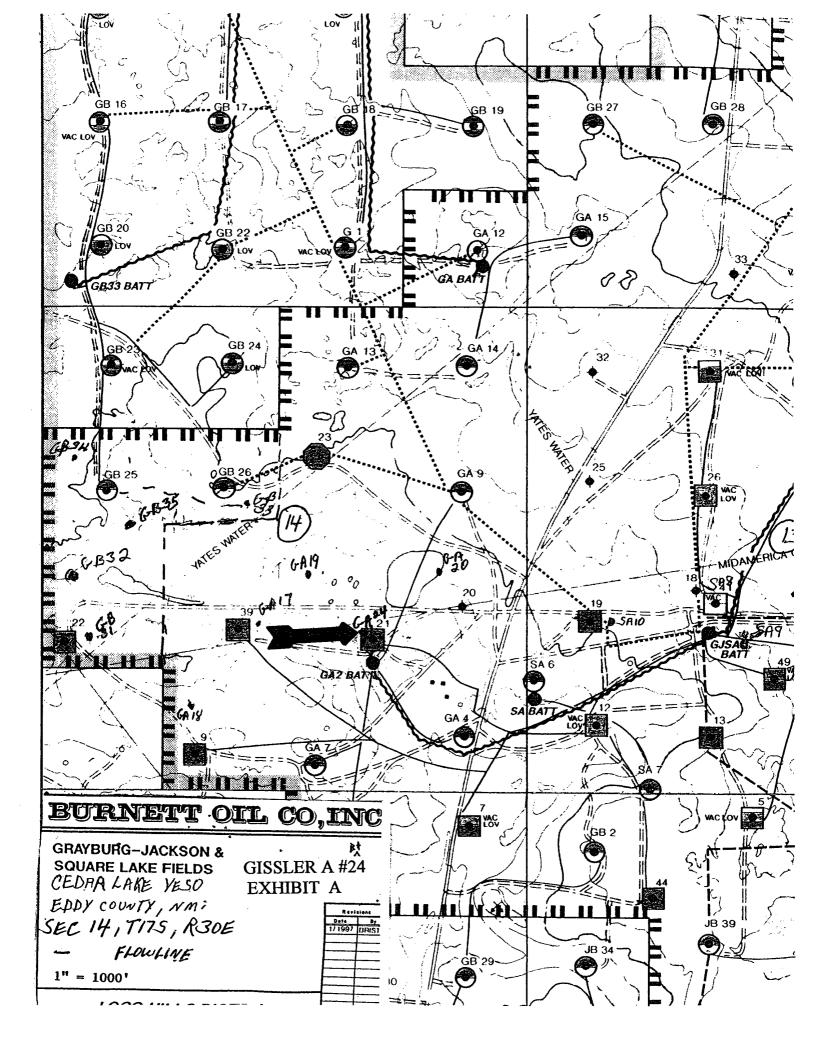
PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 383-3117



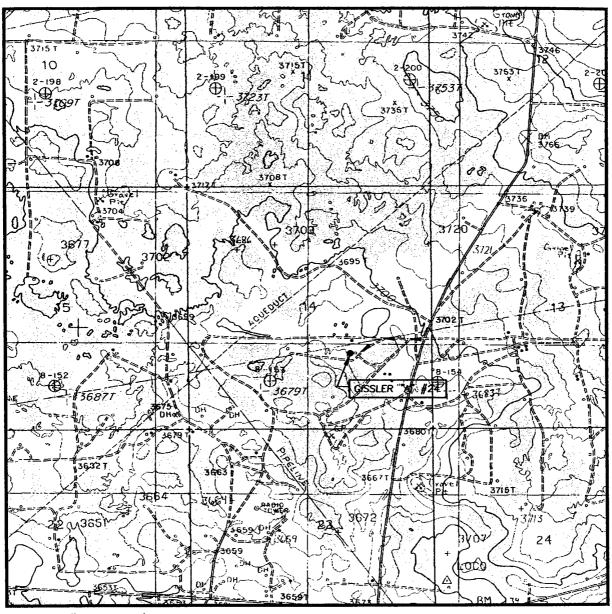
BURNETT OIL COMPANY

GISSLER "A" #24 WELL
LOCATED 1650 FEET FROM THE SOUTH LINE
AND 1776 FEET FROM THE EAST LINE OF SECTION 14,
TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Survey Date: 5	/10/04	Sheet	1	of	1	Sheets
W.O. Number: 04	4.11.0502 L	r By: LA		Re	v 1:	N/A
Date: 5/12/04	Disk: CD#3	041	1050	2	Scal	le:1"=100'



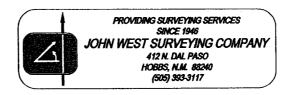
LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

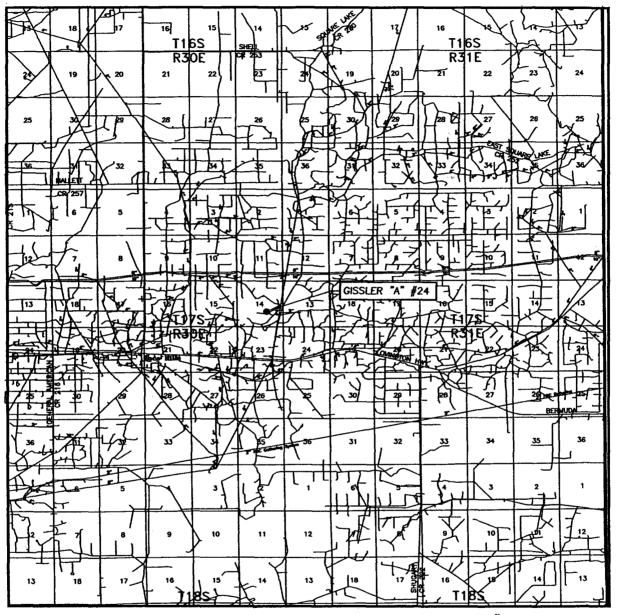
CONTOUR INTERVAL: LOCO HILLS, N.M. - 10'

SEC. <u>14</u> T	WP. <u>17-S</u> RGE. <u>30-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1 1650' FSL & 1776' FEL
ELEVATION	3694'
OPERATOR	BURNETT OIL COMPANY
	GISSLER "A"
U.S.G.S. TOF	POGRAPHIC MAP , N.M.



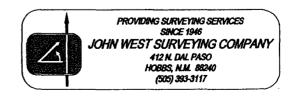
GISSLER A #24 EXHIBIT B

VICINITY MAP

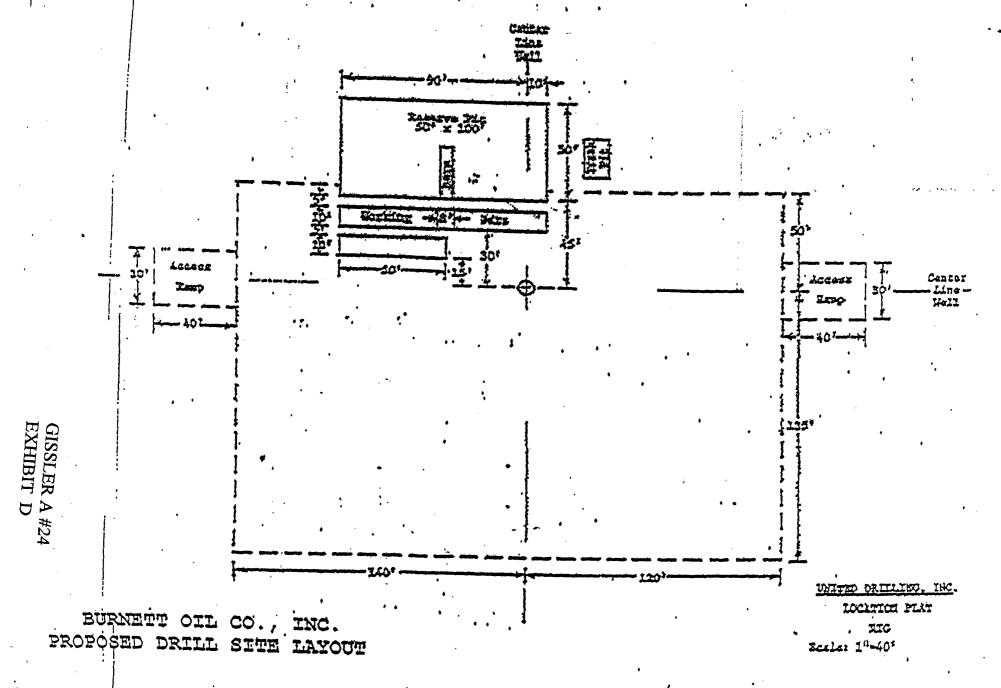


SCALE: 1" = 2 MILES

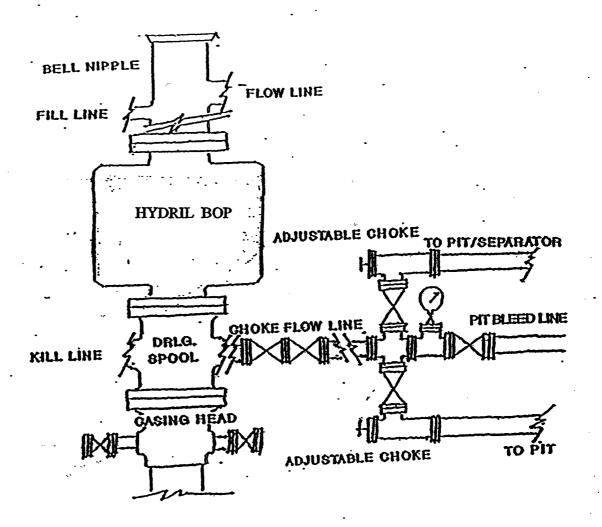
SEC. 14 T	WP. <u>17-S</u> RGE. <u>30-E</u>			
SURVEY	N.M.P.M.			
COUNTY	EDDY			
DESCRIPTION	1650' FSL & 1776' FEL			
ELEVATION	3694'			
OPERATOR BURNETT OIL COMPANY				
	GISSI FR "A"			



GISSLER A #24 EXHIBIT C



11 1



BURNETT OIL CO., INC.

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

GISSLER A #24 EXHIBIT E



June 3, 2004

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

Re: H2S Rule 118 Contingency Plan. Gissler A #24, Unit J, 1650' FSL, 1776' FEL SEC.14, T17S, R30E- Eddy County, New Mexico JUN 0 7 2004

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