Form 3160-3	04-42 Dan	N.M. O	il Cons. DIV- W. Grandi Av	Dist.	Form approved.		
(November 1983) (formerly 9-331C)	UNI	ED DIATED			Budget Bureau l Expires August	No. 1004-0136 31, 1985	
n AL			MBIDER NM 882	טר:	5. LEASE DESIGNATION	AND SERIAL NO.	
BUREAU OF LAND MANAGEMENT					NMLC029		
APPLICATION	FOR PERMIT	TO DRILL, DEEP	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
1a. TYPE OF WORK  DRII  b. TYPE OF WELL	LL 🛛	DEEPEN	PLUG BAC	OK 🗆	7. UNIT AGREEMENT N	AME	
OIL GA	SLL OTHER		INGLE MULTIP	re 🗌	S. FARM OR LEASE NAM	(E	
2. NAME OF OPERATOR					JACKS	ON_A	
BURNETT OIL CO	D., INC (817/33	2-5108)	REC	EIVED	9. WELL NO. #28 (ADI# 30	)-015- <b>3334</b> 0	
	DEET CHITE 1500	EODT MODTH TEV	AS 76102 MAR	2 4 2004	10. FIELD AND POOL, O		
I. LOCATION OF WELL (Re At surface	port location clearly and	in accordance with any	State requirements.*)		CEDABIAN	E VESO	
	, 990' FNL, 1650' FE	L	OCD-A	ARTES	A11. SEC., T., R., M., OR B AND SURVEY OR AR	LK.	
At proposed prod. sone	SAME AS S	URFACE	essential and the second of th		SEC 13, T1		
4. DISTANCE IN MILES A		REST TOWN OR POST OFFIC	· **		12. COUNTY OR PARISH	•	
APPROXIMATEL'	Y 6 MILES EAST OF	LOCO HILLS, NEW	/ MEXICO		EDDY	NM	
15. DISTANCE FROM PROPU- LOCATION TO NEAREST		16. N	O. OF ACRES IN LEASE	17. NO. O	F ACRES ASSIGNED		
PROPERTY OR LEASE LI (Also to nearest drig	unit line, if any)	330'	560		40		
8. DISTANCE FROM PROPO TO NEAREST WELL, DE OR APPLIED FOR, ON THE	illing, Completed,	330'	ROPOSED DEPTH 5400'	20. ROTAL	RY OR CABLE TOOLS ROTARY		
1. ELEVATIONS (Show whe		330 1	3400	1	22. APPROX. DATE WOI	RK WILL START*	
3752' GR			•		JANUAR'	Y 30, 2004	
23.	I	PROPOSED CASING AN	D CEMENTING PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	<del>                                     </del>	QUANTITY OF CEMEN	T	
14 7/8"	9 5/8" -	32.30#	500'	+/-40	00 Sks(Circ. to Surface) WITN		
8 3/4"	7 <u>"</u>	23#	5390'		00 Sks in 2 Stages	<del></del>	
		dhos.	1		(If water flows are encountered		
			•	ceme	enting program may	vary.)	
surface. After a 18 hole will be drilled will be run and se	3 hour cement wait, of to approx. 5400' to to @ TD and cemente	casing & BOP will be effectively test the Ce ed to 600' above high	et 9 5/8" casing @ thi tested before drill out edar Lake Yeso interv est potential producin ended by service com	t of the shal. The 7 al. The 7 g horizor	noe. An 8 3/4" " casing		
GENE AND	OVAL SUBJEC RAL REQUIRE SPECIAL STIP CHED	EMENTS		ROSWI	ELL CONTROLLED	WATER BASIN	
	irill or deepen directions		plug back, give data on pi on subsurface locations an				
SIGNED HELD	ing Lands	ffl title_	PETROLEUM ENGI	NEER	DATE 2//	9/2004	
(This space for Feder	al or State office use)						
PERMIT NO.		<u></u>	APPROVAL DATE	····		<del> </del>	
	Leslie A. Theiss		FIELD MAN	JAGER	2 2	MAR 2004	
ADDDVASU DA		ment p	A STATE OF THE STA				

APPROVAL FOR 1 YEAR

CONDITIONS OF APPROVAL, IF ANY:



#### **DRILLING PLAN**

BURNETT OIL CO., INC.
LEASE NO.LC 029339A
JACKSON A LEASE, WELL NO.28
UNIT LETTER B
990' FNL, 1650' FEL
SECTION 13, TOWNSHIP 17 SOUTH, RANGE 30 EAST
EDDY COUNTY. NEW MEXICO

## (A) DRILLING PROGRAM

(1) Estimated tops of geologic markers:

Alluvium....Surface
Anhydrite.....272'
Salt.......500'
Base Salt....1290'
Yates.....1383'
Seven Rivers...1718'
Grayburg....2705'
San Andres...3025'
Glorieta....4325'

(2) Estimated depths of producing formations:

Fresh water.....None
Saltwater flows... (?)\*
Oil and Gas.....1383'\*\*,2705'\*\*

- \* 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 BIM) to fill this annular space using sufficient rat hole mix to bring cement to surface per BIM 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 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.

- (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. Blind rams and pipe rams 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:

- 1. 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 quidelines 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 4.9 miles. Turn north on CR #221(Skelly road) and go approximately 1.5 miles. Turn west onto the location.
- (2) Access roads to be constructed: This location will not require any additional 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 Jackson A production facility on the lease. We propose to above ground commingle this Cedar Lake, Yeso production with the existing Yeso & Grayburg production by laying approximately 4950'of new flowline.

  Approximately 500' will be a new route. The balance will be along an existing flowline to the existing Jackson A (Yeso) 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) <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. 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: 2//9/2004

Sterling P. Randolph Petroleum Engineer DISTRICT I P.O. Box 1980, Hobbs, NM 86241-1960

# State of New Mexico

Energy, Minerals and Natural Resources Department

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

Pool Name

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

Pool Code

Consolidation Code

Santa Fe, New Mexico 87504-2088

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

P.O. BOX 2068, SANTA PE, N.M. 87504-2086

API Number

DISTRICT IV

Dedicated Acres

Joint or Infill

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

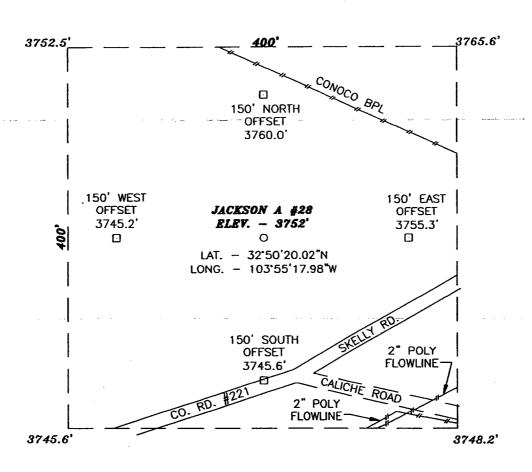
2076	57	JACKSON A					28	28	
OGRID N	o.	Operator Name BURNETT OIL COMPANY					Elevation 3752'		
	Surface Location								
UL or lot No.	Section 13	Township 17-S	Range 30-E	Lot Idn	Feet from the	North/South line NORTH	Feet from the 1650	East/West line EAST	County EDDY
В	13	17-3				<u>i</u>		LASI	CODI
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

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

Order No.

	3752.5' 3765.6' 1650' 1650' 3745.6' 3748.2'	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature
GEODETIC COORDINATES NAD 27 NME Y = 669147.6 N X = 626440.7 E LAT. 32'50'20.02"N LONG. 103'55'17.98"W		STERLING RANDOLPH Printed Name PETROLEUM ENGINEER Title Date  SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my boile!  JANUARY 20, 2004  Date Surveyed  L.A.  Signature 4 Sent of the same is true and correct to the best of the best o
		Signature & Send Processional Surveyor 2/3/04  O4.1 1.0076  Certificate No. GARY. FIRSON 12641

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



### DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF U.S. HWY #82 AND CO. RD. #221 (SKELLY RD) GO 1.5 MILES NORTH ON SKELLY RD. ROAD WILL BEND WEST. CONTINUE FOR ANOTHER 0.38 MILES TO THIS LOCATION SITUATED ON THE NORTH SIDE OF ROAD.

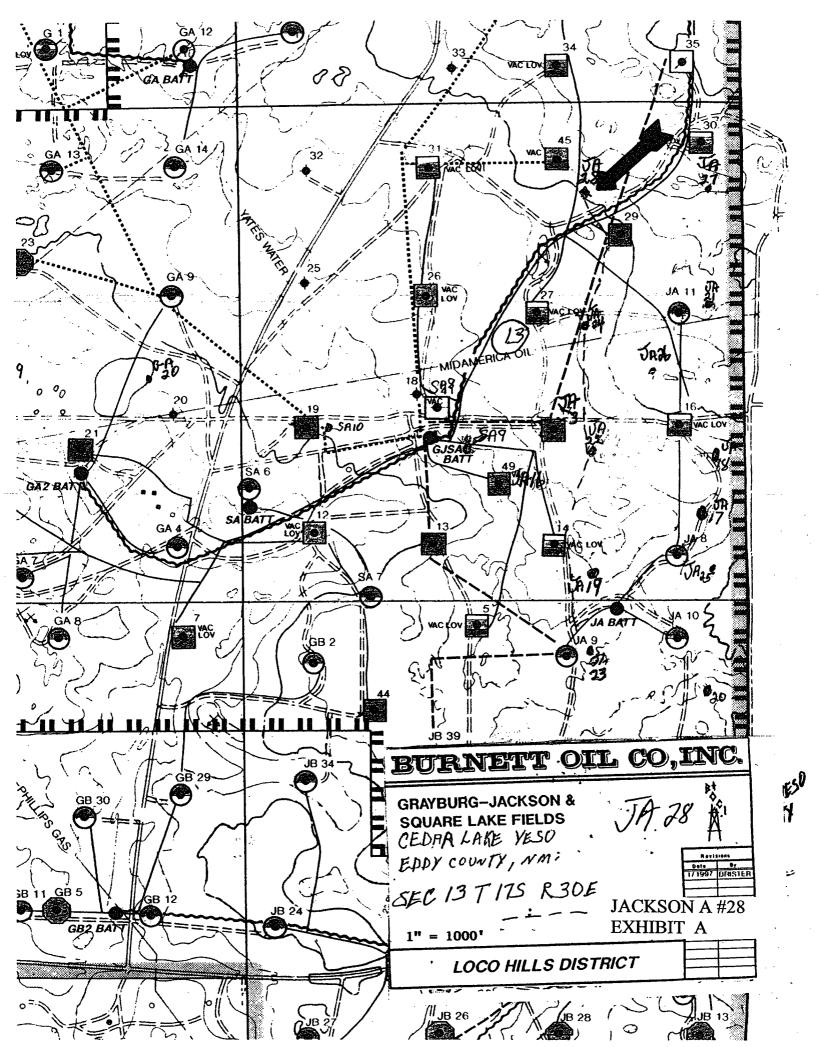
JOHN WEST SURVEYING COMPANY 412 N. DAL PASO - HOBBS, NEW MEXICO - 505-393-3117

100	0	100	200
BBB	HH <del></del>		
	SCALE:	1"=100'	

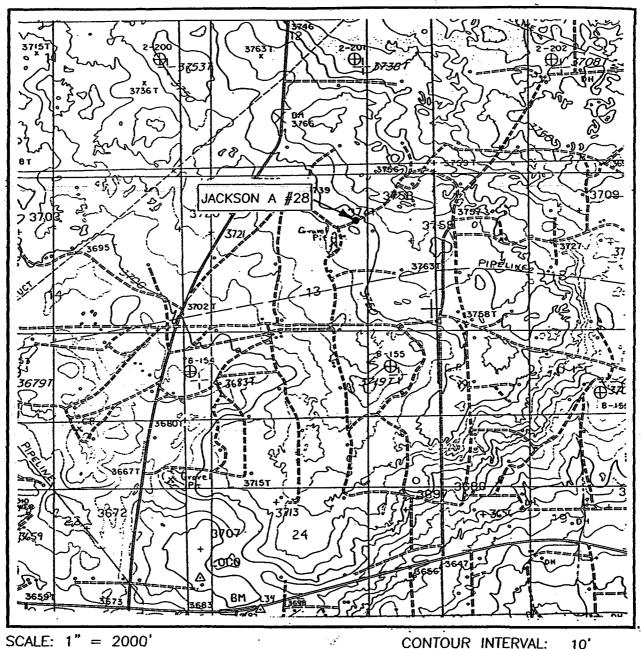
# BURNETT OIL COMPANY

THE JACKSON A #28 LOCATED 990 FEET FROM THE NORTH LINE AND 1650 FEET FROM THE EAST LINE SECTION 13, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 1/2	Sheet	1	of	1	Sheets	
W.O. Number: 04.	Drawn	By:	L.A.			
Date: 1/28/04 DISK:CD#3		041	1007	6		



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: LOCO HILLS, N.M.

SEC. <u>13</u> TWP. <u>17-S</u> RGE. <u>30-E</u>

SURVEY N.M.P.M.

COUNTY\_\_\_\_ EDDY

DESCRIPTION 990' FNL & 1650' FEL

ELEVATION 3752'

OPERATOR BURNETT OIL COMPANY

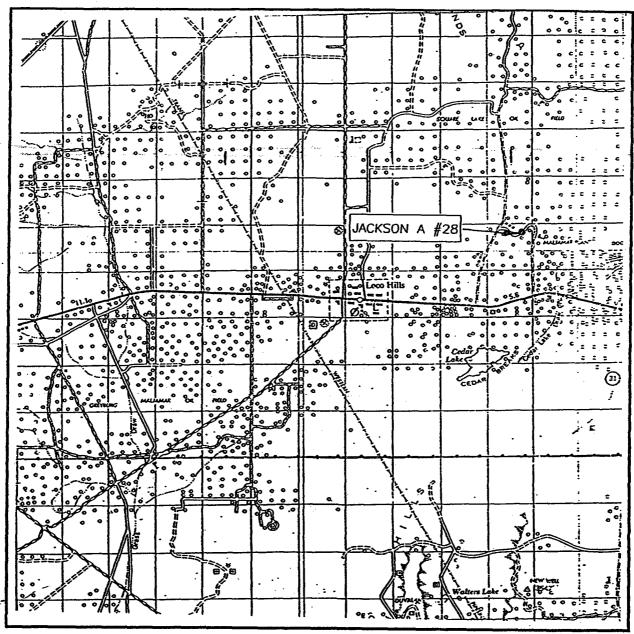
LEASE\_\_\_\_ JACKSON A

U.S.G.S. TOPOGRAPHIC MAP LOCO HILLS, N.M.

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

> **JACKSON A #28** EXHIBIT B

# VICINITY MAP

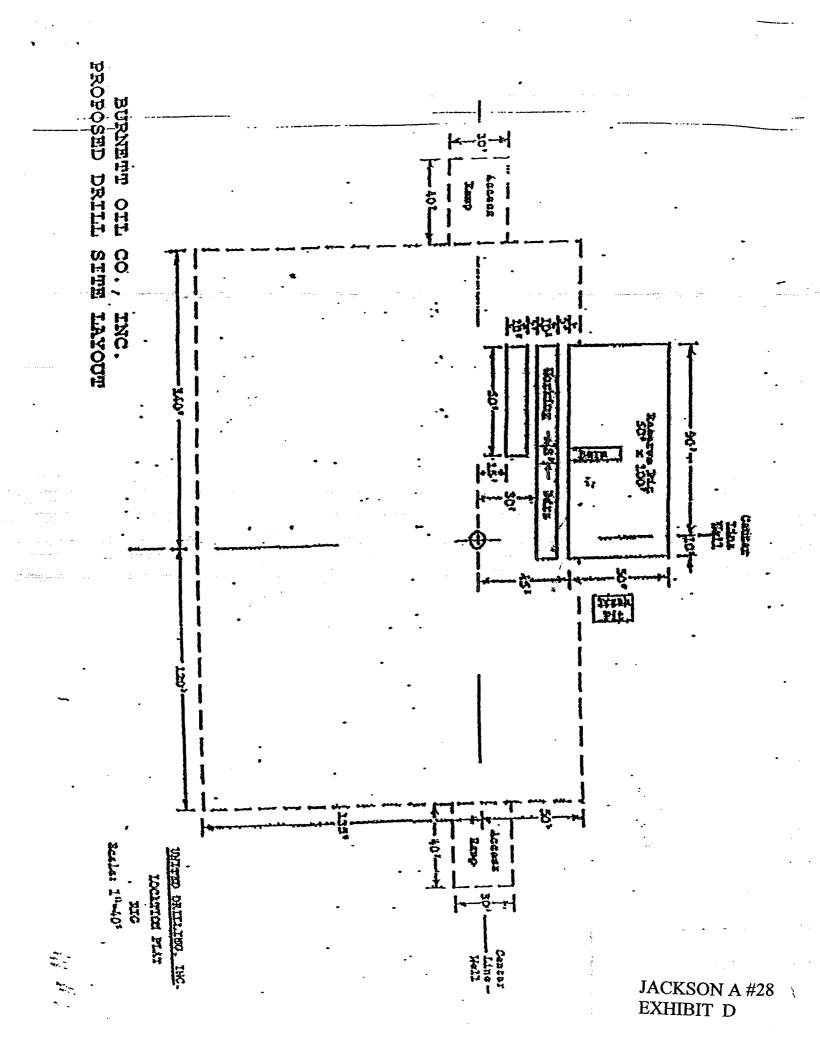


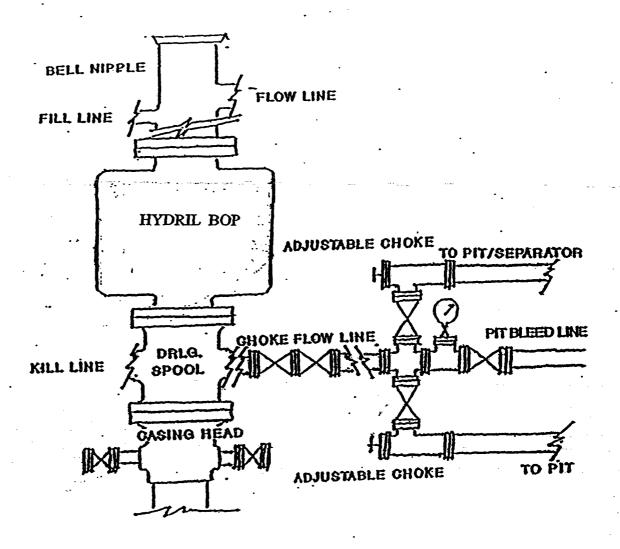
SCALE: 1" = 2 MILES

SEC. <u>13</u>	TWP. 17-S RGE. 30-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTIO	N 990' FNL & 1650' FEL
ELEVATION_	3752
OPERATOR	BURNETT OIL COMPANY
	IACKCON V

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

> JACKSON A #28 EXHIBIT C





# BURNETT OIL CO., INC.

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

JACKSON A #28 EXHIBIT E



February 20, 2004

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

RECEIVED
FEB 2 7 7004
OCD-ARTESIA

Re: H2S Rule 118 Contingency Plan.
Jackson A #28,Unit B, 990' FNL, 1650' FEL
SEC.13, 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