Form 3160-3 (November 1983) (formerly 9-331C)

# (Other instructions on reverse side) **UNITED STATES**

SUBMIT IN TRIP. ATE.

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

(1011111)	DEPARTMENT BUREAU OF	5. LEASE DESIGNATION AND SERIAL NO.  LCO2933						
APPLICATION	FOR PERMIT			OR PLUG B	ACK	6. IF INDIAN, ALLOTTE		
la. TYPE OF WORK		DEEPEN		PLUG BAC		7. UNIT AGREEMENT	NAME	
b. Tree of Well	LL 🛭	DEEPEN []			_			
OIL WELL WI	SLL OTHER		SING! ZONE			8. FARM OR LEASE NA		
2. NAME OF OPERATOR			_			JACKSON	A 20767	
BURNETT OIL CO	D., INC (817/	332-5108)	30	80		9. WELL NO. #18 (API# 30-		
	DEET OUTE 1500	FORT WORTH	TEVA	VC 76100		10. FIELD AND POOL,	<u>J</u>	
801 CHERRY ST 4. LOCATION OF WELL (Re	REET, SUITE 1500 port location clearly and	, FORT WORTH, in accordance with a	IEXA any Stat	te requirements.*)		CEDAR LAKE		
At surface						11. SEC., T., R., M., OR	BLK.	
ONII I, T	<del>-650</del> ' FSL, 330' FE . 1 <i>700</i>	L				AND SURVEY OR A		
At proposed prod. some	SAME AS SU	JRFACE				SEC 13, T17S,	R30E	
14. DISTANCE IN MILES A						12. COUNTY OR PARISE	i i	
	6 MILES EAST OF					EDDY	NM	
15. DISTANCE FROM PROPUL LOCATION TO NEAREST		į	6. NO. O	F ACRES IN LEASE	17. NO. C	F ACRES ASSIGNED		
PROPERTY OR LEASE LI (Also to nearest drig.	unit line, if any)	330'	0	560	20 2024	40 RY OR CABLE TOOLS		
18. DISTANCE FROM PROPO TO NEAREST WELL, DR	ILLING, COMPLETED,	330'	9. PROP	5200'	ZU. KUTA	ROTARY		
OR APPLIED FOR, ON THE 21. ELEVATIONS (Show whe		330		3200		22, APPROX. DATE W	ORK WILL START*	
						APRIL 1, 20	01	
3734' GR 23.		PROPOSED CASING	AND C	EMENTING PROGRA	M	.' APRIL 1, 20	ି ଜମସ୍ଥିତ	
				<del></del>		المستعدد والمستعدد المستعدد ال		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		SETTING DEPTH		QUANTITY OF CEMENT		
12 1/4"	8 5/8"	24#		<b>500</b> ' 475'		) Sks(Circ. to Sur		
<del>7 7/8"</del>	5 1/2"		15.50# 5200'			00 Sks in 2 Stage		
		1 25. 2				ter flows are enco		
18 Hevrs	cD or Fello	w Op.				ting program may		
A 12 1/4" noie v	vili de arillea to Rus	tier Annyunte. v	ve wii					
	hour cement wa							
hole will be drille	d to approx. 5200'	to effectively te	st the	Cedar Lake Yeso	interval	. The 5 1/2" casi	ng	
will be run and se	et @ TD and cemer		ve hig	hest potential pro	ducing l	horizon( approx. 2	1001.)	
We will perforate	and treat producti	ve intervals as re	comn	nended by service	compar	ny.		
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in above space describe cone. If proposal is to de preventer program, if any	irill or deepen directions	proposal is to deepen lly, give pertinent de	or plug ata on s	g backfille data on pr subsurface locations an	esent prod d measure	uctive sone and propos d and true vertical dept	ed new productive hs. Give blowout	
24.	1 1	, ,		-		~ /		
SIGNED Mell	ng Lordky	TITLE		PETROLEUM EN	IGINEER	DATE A	2//200/	
(This space for Feder	al or State office use)							
PERMIT NO.			^P	PROVAL DATE				
1.00	- 4 0 0 0	M	James .	* 4		MAF	1 (1)	
CONDITIONS OF APPROVE	nothy V. O'Brien		1-11	<u> </u>		DATE		

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 State Lease - 4 Copies Fee Lease - 3 Copies

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

# OIL CONSERVATION DIVISION

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT IV

P.O. BOX 2058, SANTA FE, N.M. 87504-2088

# WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code Pool Name							
30-015	96831	50						
Property Code	Pı	Well Number						
020767	JAC	18						
OGRID No.		Elevation						
003080	BURNETT	Operator Name BURNETT OIL COMPANY						
	Sur	face Location						

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	13	17-S	30-E		1700	SOUTH	330	EAST	EDDY

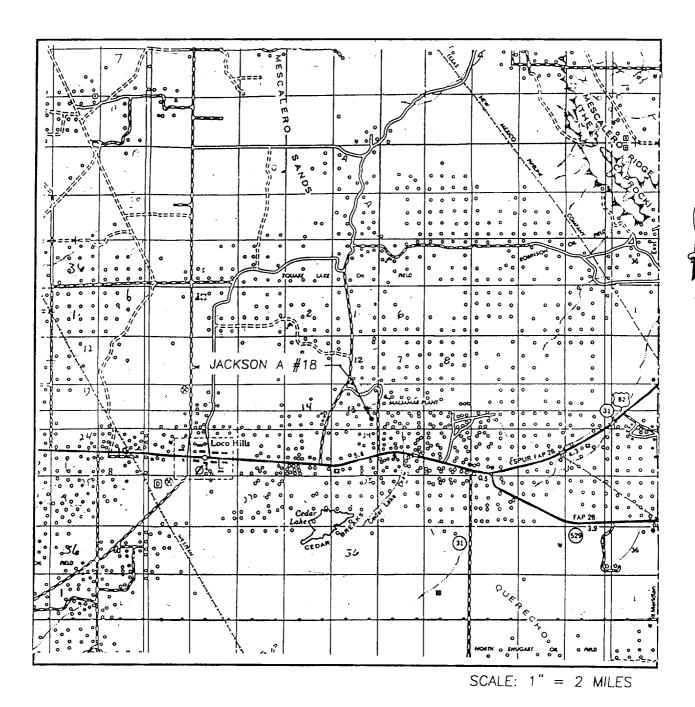
#### Bottom Hole Location If Different From Surface

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 (	Code Oro	der 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 the the information contained herein is true and complete to the best of my knowledge and belief.
	Signature  BOBBY CLABORN  Printed Name
	Printed Name    DIST. SUPT.
	SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field nates of
	actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.  MARCH 26, 2001
	Date Surveyed AWB Signature & Sear of Professional Surveyor  Date Surveyed AWB Signature & Sear of Professional Surveyor  Date Surveyed AWB
	01-11-0403.  Certificate No. RONALD J. KIDSON 3239  GARY KIDSON 12841

# VICINITY MAP



SEC. 13 TWP. 17-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1700'FSL & 330'FEL

ELEVATION 3734'

OPERATOR <u>BURNETT OIL COMPANY</u>
LEASE <u>JACKSON</u> A

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

# LOCATION VERFICATION MAP



SCALE: 1'' = 2000'

SEC. 13 TWP. 17-S RGE. 30-E SURVEY N.M.P.M.

COUNTY\_\_\_\_EDDY

DESCRIPTION 1700'FSL & 330'FEL

ELEVATION 3734'

OPERATOR BURNETT OIL COMPANY

LEASE\_\_\_\_\_\_JACKSON A

U.S.G.S. TOPOGRAPHIC MAP

LOCO HILLS N.M.

CONTOUR INTERVAL:

LOCO HILLS N.M.

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





DRILLING PLAN

BURNETT OIL CO., INC.
LEASE NO.LC 029339A
JACKSON A LEASE, WELL NO.18
UNIT LETTER I
1650' FSL, 330' 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.....265'
Salt......495'
Base Salt....1285'
Yates.....1377'
Seven Rivers...1713'
Grayburg....2698'
San Andres....3020'
Glorieta....4320'

# (2) Estimated depths of producing formations:

Fresh water.....None
Saltwater flows..(?)\*
Oil and Gas.....1377'\*\*,2698'\*\*

- \* 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 3000 PSI Double Ram 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 is not achieved due to lost circulation, annular space will be cemented via 1" from the surface as per BLM specifications. Twelve(12) hours WOC will be allowed. casing will be tested to 800 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.

- (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. No drill stem testing is anticipated. 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 Skelly road and go approximately 1 mile. Turn west onto lease road and follow to the well location.
- (2) Access roads to be constructed: This location will require approx. 223' of 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 Grayburg production by laying approximately 2100'of new flowline from this well along the existing roadway to the existing Jackson A Tank Battery. This will upgrade the flowline for the Jackson A #17 and #8 wells. The old JA#17 and #8 line will be removed in this work.
- (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.
- 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: 505-677-2382

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: 2/3//200/

Sterling P. Randolph Petroleum Engineer

By Sterling Plantifol

# State of New Mexico

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

1000 Rio Brazos Rd., Axtec, NM 87410

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV

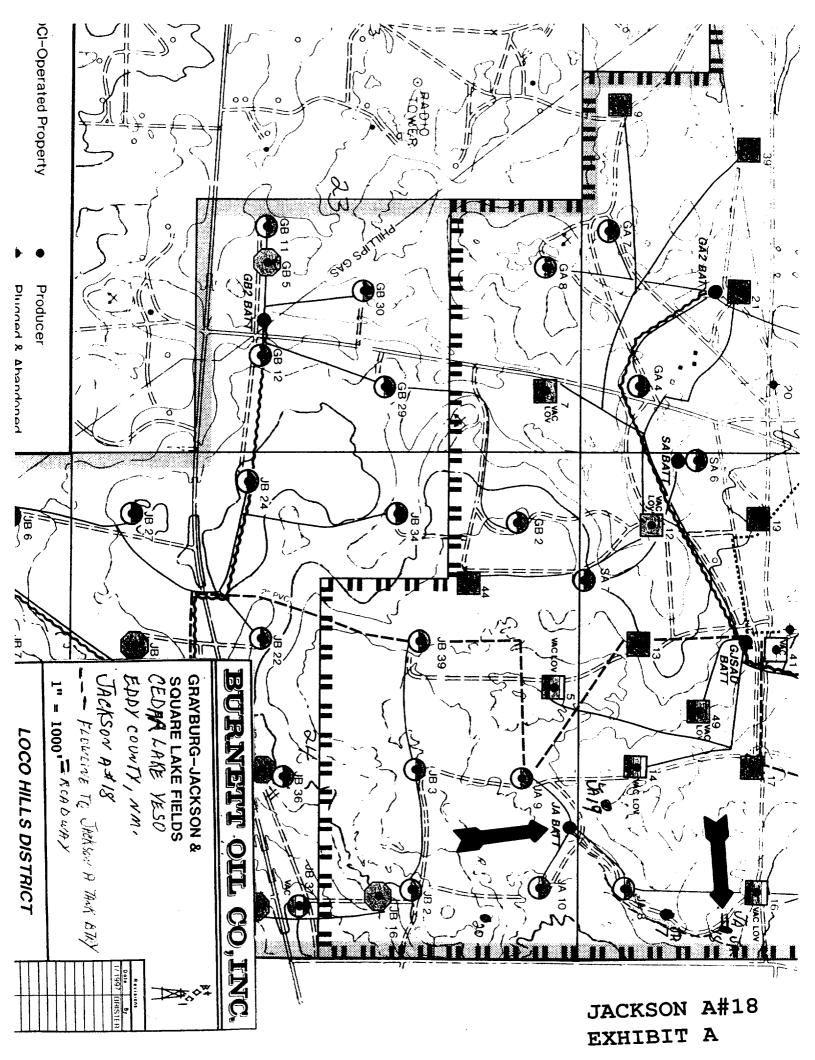
DISTRICT III

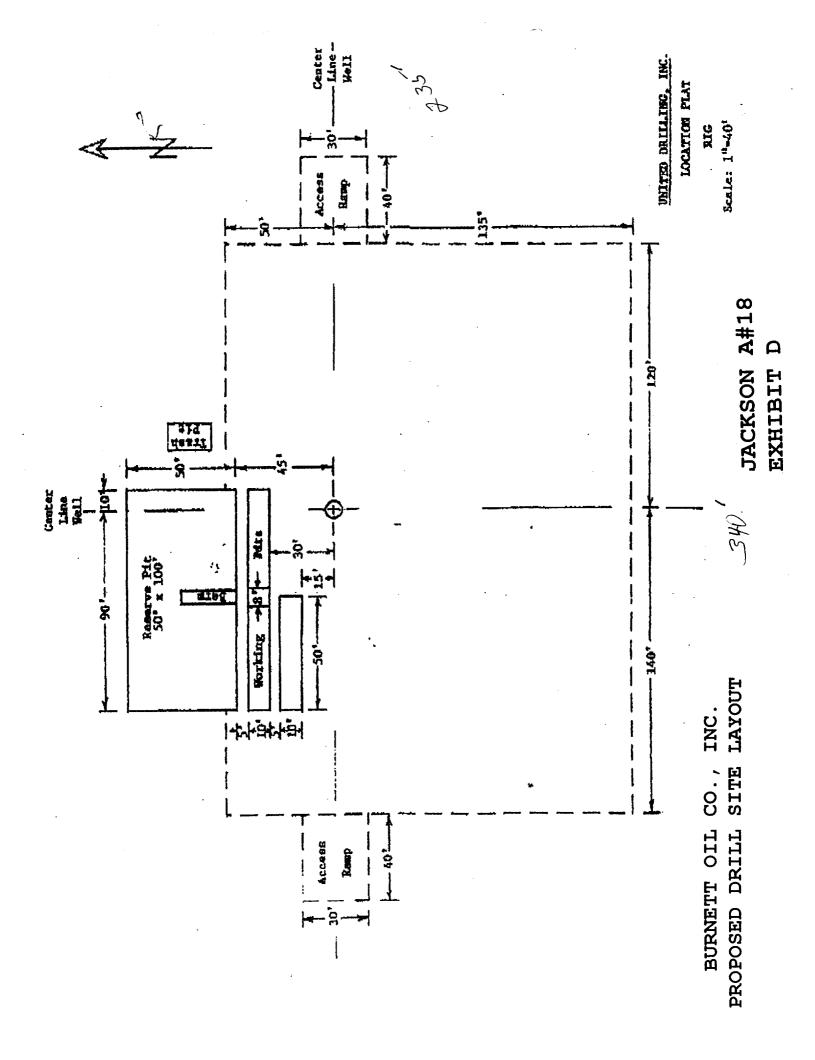
P.C. BOX 2088, SANTA FE, N.M. 87504-2088

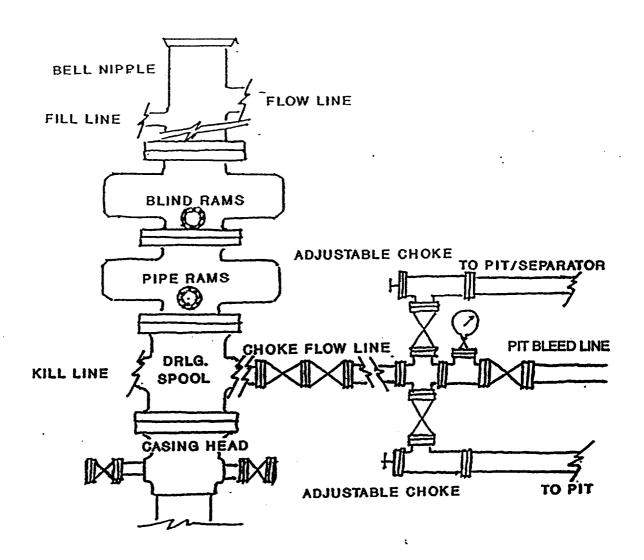
WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

			WELL IC		AND ACKI	AGE DEDIC	AIIU.		- ARENDEL	
3X-01	Number	Pool Code Pool Name (						K SD		
Property C	ode 7		1 100		Property No.	me		~ <i>!!!!!!</i>	Well Num	ber
OGRID No.	<u>/</u>				Operator Na				Elevation	
1 2232	8R		BURNETT OIL COMPANY							<b>1</b> '
	<u>-</u>	•			Surface Lo	cation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/West line	County
1	13	17-S	30-E		1650	SOUTH	1	330	EAST	EDDY
			Bottom	Hole Lo	cation If Dif	ferent From	Surfa	.ce		
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	Consolidation	Code Or	der No.				<u> </u>	L
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								Certificate N	o. RONALD J. EIDS GARY EIDSON	ON 3239 12641
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JACKSON A#18 EXHIBIT E

# BURNETT OIL CO., INC.

BLOWOUT PREVENTER &
CHOKE MANIFOLD DIAGRAM
3000 PSI WORKING PRESSURE
SERIES 900 FLANGES