	r -						
Form 3160-3 (November 1983) (formerly 9-331C)				SUBMIT IN TRIPLICATE* (Other instructions on reverse side)		Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO. LCO293336A	
APPLICATION	FOR PERMIT	TO DRILL, D	DEEPEN, C	OR PLUG	BACK	6. IF INDIAN, ALLOTTER	OR TRIBE NAME
				ACK 🗌	7. UNIT AGREEMENT NAME		
2. NAME OF OPERATOR	ELL OTHER	332-5108)				8. FARM OF LEASE NAM JACKSON A 9. WELL NO.	
BURNETT OIL CO., INC (817/332-5108) 3080						#19 (API# 30-015- <b>Storg</b> 10. FIELD AND FOOL, OR WILDCAT 3166 CEDAR LAKE-YESO 11. BEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC 13, T17S, R30E	
801 CHERRY STREET, SUITE 1500, FORT WORTH, TEXAS 76102 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface UNIT O, 330' FSL, 1650' FEL							
At proposed prod. zone SAME AS SURFACE							
14. DISTANCE IN MILES A APPROXIMATELY	AND DIRECTION FROM NEA	LOCO HILLS, NI	EW MEXICO	· · · · · · · · · · · ·		12. COUNTY OR PARISH EDDY	13. 8TATE NM
15. DISTANCE FROM PROPOSED <sup>®</sup> LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 330'			16. NO. OF ACRES IN LEASE 17. NO. 560		TO TH	OF ACEES ASSIGNED THIS WELL 40	
18. DISTANCE FROM PROFOSED LOCATION <sup>®</sup> TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 330'			19. PROPOSED DEPTH 20 5200'		20. ROTAB	20. ROTARY OB CABLE TOOLS ROTARY	
21. ELEVATIONS (Show when 3718' GR	ther DF, RT, GR, etc.)	·				22. APPROX. DATE WO APRIL 1, 200	
23.	]	PROPOSED CASIN	G AND CEMI	INTING PROG	RAM	Actional Company	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	ют в	TTING DEPTH	1	QUANTITY OF CEMEN	IT
12 1/4"	8 5/8"	24#	<u>.     </u>	500°475'	+/-400	Sks(Circ. to Surfa	ce)
7 7/8"	5 1/2"	15.50#	5	200'	<u>+/-1500</u>	) Sks in 2 Stages	
18 Hours of Follow Opt.2			(If water flows are encountered cementing program may vary.)				

A 12 1/4" hole will be drilled to Rustler Anhydrite. We will set 8 5/8" casing @ this depth & cement to surface. After a 12 hour cement wait, casing & BOP will be tested before drill out of the shoe. A 7 7/8" hole will be drilled to approx. 5200' to effectively test the Cedar Lake Yeso interval. The 5 1/2" 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 SUCC

	APTESIA	
IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM : If proposal is to deepen zone. If proposal is to drill or deepen directionally, give pertinent da preventer program, if any.	or plug back, give sam on present producti ta on subsurface, locations and measured an	d true vertical depths. Give blowout
24. SIGNED Marling Mandler TITLE.	PETROLEUM ENGINEER	DATE 2/21/2004

ATTACKE

TE AND

APPROVAL DATE	 
TITLE	 MAR 2 7 2001

### \*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the to consider a freadulent statements or server ediations as to any matter, within its number true

**DRILLING PLAN** 

BURNETT OIL CO., INC. LEASE NO.LC 029339A JACKSON A LEASE, WELL NO.19 UNIT LETTER O 330' FSL, 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.....270' Salt.....500' Base Salt.....1290' Yates.....1382' Seven Rivers....1718' Grayburg.....2703' San Andres.....3025' Glorieta.....4325'

(2) Estimated depths of producing formations:

Fresh water.....None
Saltwater flows..(?)\*
Oil and Gas.....1382'\*\*,2703\*\*

- \* 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. JACKSON A 19 DRILLING PLAN PAGE 2 OF 7

(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.

JACKSON A 19 DRILLING PLAN PAGE 3 OF 7

- (8) <u>Abnormal pressures or hazards</u>: 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. JACKSON A 19 DRILLING PLAN PAGE 4 OF 7

# (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:
  - 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.

JACKSON A 19 DRILLING PLAN PAGE 5 OF 7

#### 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:
  - No drill stem testing is anticipated. 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 4.9 miles. Turn north on Skelly road and go approximately 1 mile. Turn west onto lease road and follow to the location.
- (2) <u>Access roads to be constructed</u>: This location will require approx. 115' 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 200'of new flowline from this well along the existing roadway to the existing Jackson A 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.

JACKSON A 19 DRILLING PLAN PAGE 6 OF 7

- (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.

JACKSON A 19 DRILLING PLAN PAGE 7 OF 7

- (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: 7 21 200/

By: Mirling Mandder

Sterling P. Randolph Petroleum Engineer

DISTRICT I

F.O. Box 1960, Hob . NM 88241-1980

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

DISTRICT III 1000 Rio Brazos Ed., Astoc. NM 87410

DISTRICT IV

## State of New Mexico

Energy, Minerals and Natural Resources Departme

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION

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

#### P.O. BOX 2058, SANTA FE, N.M. 87504-2088 □ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name -015 -6831 EDAK VESO LAKE Property Code Property Name Well Number JR74 JACKSON A 19 OCRID Operator Name Elevation BURNETT OIL COMPANY 3718 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 0 13 17-S 30-E 330 SOUTH 1650 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 or Infill **Consolidation** Code Order No. 40 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. Signa 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 belief. JANUARY 17, 2001 Date Surveyed AWR Signature & Seal of Professional Surveyor 26/01 01-11-0053 Certificate No. RONALD J. EIDSON 3239 1650' GARY EIDSON 12641 Mary Charles



# LOCATION VERFICATION MAP



SCALE: 1" = 2000'

SEC. 13 TWP. 17-S RGE. 30-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 330'FSL & 1650'FEL ELEVATION 3718' OPERATOR BURNETT OIL COMPANY LEASE JACKSON A U.S.G.S. TOPOGRAPHIC MAP LOCO HILLS N.M. CONTOUR INTERVAL: 10' LOCO HILLS N.M.

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

> JACKSON A#19 EXHIBIT B

VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>13</u> TWP. <u>17–S</u> RGE. <u>30–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>330'FSL & 1650'FEL</u> ELEVATION <u>3718'</u> OPERATOR <u>BURNETT OIL COMPANY</u> LEASE JACKSON A

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117 JACKSON A#19

EXHIBIT C





JACKSON A#19 EXHIBIT E

# BURNETT OIL CO., INC.

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