14. His wife construction administration P. O. BOX 1980

(July 1992)

Form 3160-3 HOBBS, NEW MEXICO 8, 0

SUBMIT IN TRIPLIC

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136

UNITED STATES DEPARTMENT OF THE INTERIOR

Expires: February 28, 1995 5. LEASE DESIGNATION AND SERIAL NO.

NM 87268

	RUREALLOE	LAND MANAG	FMFNT	L.	NM 0/200		
					6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
	ICATION FOR I	PERMIT TO	DRILL OR DEEP		7. UNIT AGREEMENT NA	ME	
1a. TYPE OF WORK b. TYPE OF WELL	IILL X	DEEPEN	5-27-97 A	Asis		•••	
OIL X	GAS CTHER		SINGLE X MULTI ZONE ZONE	PLE	8. FARM OR LEASE NAM Jackalope '24		
2. NAME OF OPERATOR	one Oil & Cas Comp				Federal		
BUT I INGTON RESOUR 3. ADDRESS AND TELEPHONE	rces Oil & Gas Compa	ariy	<u> </u>	⁹	API WELL NO.	24000	
	idland, TX 79710-	1810	915-	688-6943	30 - 625 - 10. FIELD AND POOL, OR	WILDCAT	
4. LOCATION OF WELL (Repo	ort location clearly and in accord				West Red Tank	Delaware	
At surface 1980' FNL & 660'	FFI			<u> </u> .	Red Tank Bone		
At proposed prod. zone	ILL		, 1		11. SEC., T., R., M., OR BLK. AND SURVEY OF, AREA		
		Unit	H		Sec. 24, T22S		
	DIRECTION FROM NEAREST TOV				12. COUNTY OR PARISH	13. STATE	
30.8 miles north,	/northeast of Jal,		C VO CO LODGE BUILDING		Lea	NM	
LOCATION TO NEAREST	E ET	1	16. NO. OF ACRES IN LEASE 17. NO. OF TO THIS				
PROPERTY OR LEASE LIN (Also to nearest drig. uni	t line, if any) DOU		320		40		
 DISTANCE FROM PROPOS TO NEAREST WELL, DRIL 	ED LOCATION*	1	9. PROPOSED DEPTH		RY OR CABLE TOOLS		
OR APPLIED FOR, ON THE	S LEASE, FT.		9100'	Rotary		TO BUODA BUILL OF A DOTA	
21. ELEVATIONS (Show whe	ther DF, KT, GK, etc.)				22. APPROX. DATE WO		
3690		 			Upon Approv		
23.	1	PROPOSED CASING	AND CEMENTING PROGRAM C	arlsbal) CONTROLL	ED WATER BAS	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CE		
12 1/4"	9 5/8"	36 #	850'	365 sxs	WITNES	<u>S</u>	
8 3/4"	7"	23#	4650'	800 sxs	3		
6 1/8"	4 1/2"	11.6#	9100'	650 sxs	;		
	ļ	O.	PER. OGRID NO26	485			
				·			
_	nated Potash Area			964	***		
	ie Chicken Area	PC	OL CODE 51689/	51683	_ = =		
Not in Hydro	gen Sulfide Area		F. DATE 6-17-	-97		סז	
Notice of St	aking Submitted on			3 11 1 - 0	- 82 I	កែ	
Notice of Sta	aking Submitted on	may 5, 1997 AF	1NO. 30-025-	04029		Ö	
Contact Perso	on: Donna Williams	. 915-688-6943	APPROVAL SUB	JECT TO		1 :1	
00.110000 1 01 01		, 520 000 05 10	GENERAL REQU		SAND	Atter and Entertain	
			SPECIAL STIPUL		U Harris		
				-MIIONO	हां ह	:: ::	
			ATTACHED				
IN ABOVE SPACE DESCRI	BE PROPOSED PROGRAM:	If proposal is to deepe	n, give data on present productive z ue vertical depths. Give blowout pre	one and proposed	d new productive zone. I	f proposal is to drill or	
deepen unectionally, give per	CHINAIR OR SUBSULIACE LOCATIO	no and measured and tr	ac verucar depuis. Give blowout pre	rencer program,	13 4117 .		
4.							
	au-		_{LE} Regulatory Complian	nce	DATE 5/22/	97	
SIGNED		III	LE		DATE		
(This space for Federal	or State office use)						
DEDMIT NO			ADDDOVALDATE				
PERMIT NO.	at minematics and file that the smaller of	alda lanak na a-sisakla dide s	APPROVAL DATE	الاحمد عله مانامه الا	ant to conduct anatolicus des		
Application approval does no CONDITIONS OF APPRO		mus logal of equitable title t	o those rights in the subject lease which wo	on curite the applies	ann to consumer operations thei	DAL.	
i	ORIG. SGD.) TONY L	FERGUSON	ADM, MI	NERALS	/ :	97	
APPROVED BY	OTHER STORY	тпг			DATE	1. 1. 1.	
		*See Instruc	tions On Reverse Side				

<u>DISTRICT I</u> P. O. Box 1980 Hobbs, NM 88241-1980

State of New Mexico
Energ Minerals, and Natural Resources Deprement

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

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

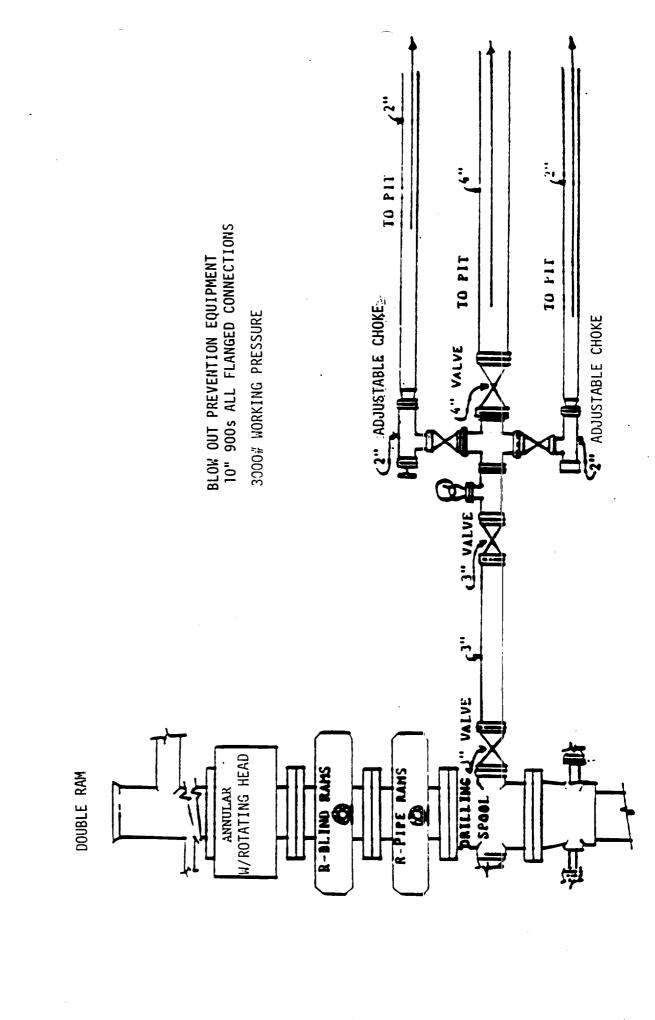
DISTRICT III 1000 Rio Brozos Rd. Aztec, NM 87410 OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

<u>DISTRICT IV</u> P. O. Box 2088 Santa Fe, NM 87507-2088

 $^{
m Santo}$ Fe, NM $^{
m 87507-2088}$ WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025	·- 211	.07G	² Pool Code 51689/51683		l Name est Red Tank	Delaware/Red	Tank Bone Sp	ring	
⁴ Property Code 19964	<u>- 54</u>	5 Property N	ame	L	24 FEDE		<u></u> •	⁶ Well Number	
OGRID No. * Operator Name			RESDURCES DIL & GAS CD.			° Elevation 3690'			
	" SURFACE LOCATION								
	ection 24	Township 22 SOUTH	Range 32 EAST, N.M.P.M.	Lot Ida	Feet from the 1980'	North/South line NORTH	Feet from the 660'	East/West line EAST	County LEA
•		" BOT	TOM HOLE LOCA	TION IF	DIFFEREN	T FROM SUR	FACE	h	
UL or lot no. Se	ection	Township	Range	Lot Ida	Feet from the	North/South line	Peet from the	East/West line	County
12 Dedicated Acres	s ¹³ Joi	nt or Infill	14 Consolidation Code	15 Order	No.	L	L	<u> </u>	
N			CLL BE ASSIGNED T OR A NON-STAND						
		 				1980'	I hereby cert contained her ta the best at Signature Donna Will Printed Name Regulatory Title 5/22/97 Date SURVEYO I hereby co location sho plotted from surveys ma my supervi	R CERTIFIC ertify that to we on this position, and the and correct belief.	ATION he well lat was f actual aunder at the



OPERATORS NAME:

LEASE NAME AND WELL NO.:

Jackalope '24' Federal Well No. 4

LOCATION:

1980' FNL & 660' FEL, Sec. 24, T22S, R32E

West Red Tank Delaware/Red Tank Bone Spring

COUNTY:

LEASE NUMBER:

NM 87268

The following information is to supplement BLM form 3160-3 Application for permit to drill in accordance with Onshore Oil and Gas Order No. 1:

9 - POINT DRILLING PLAN

DEDTH

1. Name and estimated tops of important geologic formation/marker horizons.

FORMATION	DEPTH
Rustler	970'
Delaware	4850'
Bone Spring	8730'

CODA (ATTOM

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

Delaware 4850' Bone Spring 8730'

- 3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.
 - 11" 3M BOP stack to be installed on the 9 5/8" & 7" csg. The BOP stack will consist of one blind ram BOP, one pipe ram BOP and a rotating head. Tested to 3000 psi before drilling the 7" casing shoe.
- 4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

CASING:

12 1/4" hole, 9 5/8" K-55 36# csg, set @ 850'

8 3/4" hole, 7" K-55 23# csg, set @ 4650'

6 1/8" hole, 4 1/2" K-55 11.6# csg, set @ 9100'

- 5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.
 - a. 9 5/8" csg: Cmt w/165 sxs Class 'C' + 4% gel + 2% CaCl2 + 1/4 pps flocele, tail w/200 sxs Class 'C' + 2% CaCl2 + 1/4 pps flocele. Circ. to surface.
 - b. 7" csg: Cmt w/600 sxs Class 'C' + 9 pps salt + 5 pps gilsonite + 1 pps econolite + 1/4 pps flocele, tail w/200 sxs 'C' + 2% CaCl2. Circ. to surface
 - c. 4 1/2" csg: Cmt w/650 sxs 'C' + 50 pps Pozmix A + .60% Halad-9 + 2% Bentonite + 2 pps Kcl. Estimated TOC @ 4275'.

6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

Mud Program:

0-850' Fresh water, gel and lime system, MW 8.6-9.0 0850'-4650' brine, MW, 10.0-10.1 ppg 4650'-9100' Fresh water, MW 8.3-8.5

- 7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.
 - a. DST Program: None
 - b. Core: None
 - c. Mud Logging: One man unit 4650' to TD
 - d. Logs to be run: DIL/GR/Density/Neutron/Sonic/Gamma Ray

The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

Bottom hole pressures at TD expected to be 4300 psi. Bottom hole temperature 140 F. There is no anticipated Hydrogen Sulfide in this known drilling area. No abnormal pressures are anticipated.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated drilling time expected to be 18 days to TD.

12-POINT SURFACE USE PLAN OF OPERATIONS

1. Existing Roads: A legible map (USGS topographic, county road, or other such map) labeled and showing the access route to the location, shall be used for locating the proposed well site in relation to a town, village, or other locatable point, such as a highway or county road. All access roads shall be appropriately labeled. Any plans for improvement and/or maintenance of existing roads shall be provided. All roads shall be provided or maintained in a condition the same as or better than before operations. The information provided for use and construction of roads will also be used by BLM for the required Plan of Development for a R/W application as described in Section II C of this Order No. 1.

See Exhibit "A" - topographic land surveyors plat showing existing roads and directions to well site.

2. Access Roads to be Constructed or Reconstructed: All permanent and temporary access roads to be constructed or reconstructed in connection with the drilling of the proposed well shall be appropriately identified and submitted on a map or plat. The proposed route to the proposed drill site shall be shown, including distances from the point where the access route exists established roads. All permanent and temporary access roads shall be located and designed to implement the goals of transportation planning and meet applicable standards of the appropriate SMA, and shall be consistent with the needs of the users. Final selection of the rouge location may be accepted by the SMA as early as the predrill inspection or during approval of the APD.

See Exhibit "B" plat for road to be constructed and description.

- 3. Location of Existing Wells: This information shall be submitted on a map or plat, which includes all recorded wells (water, injection, or disposal, producing, or being drilled) within a 1-mile radius of the proposed location.
 - See Exhibit "C" portion of land map showing surrounding wells in area.
- 4. Location of existing and/or proposed production facilities: For facilities planned either on or off the well pad, a plat or diagram shall be included showing, to the extent known or anticipated, the location of all production facilities and lines to be installed if the well is successfully completed for production. If new construction is planned, the dimensions of the facility layouts are to be shown. This information for off-pad production facilities may be used by BLM for R/W application information as specified in Section II C of Order No. 1.

Plat showing above ground flowlines to the existing battery on the # 1 location. Powerlines will be tied to existing poles at the # 1 location.

Location of Types of Water Supply: Information concerning water supply, such as rivers, creeks, springs, lakes, ponds, and wells, may be shown by quarter-quarter section on a map or plat, or may be described in writing. The source and transportation method for all water to be used in drilling the proposed well shall be noted if the source is located on Federal or Indian Lands or if water is to be used from a Federal or Indian project. If the water is obtained from other than Federal or Indian lands, the location and transportation method shall be identified. Any access roads crossing Federal or Indian lands that are needed to haul the water shall be described as provided in paragraphs (1) and (2) of this Section. If a water supply well is to be drilled on the lease, the APD shall so state. The authorized officer of BLM may require the filing of a separate APD of a water well.

No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source.

6. <u>Construction Materials:</u> The operator shall state the character and intended use of all construction material, such as sand, gravel, stone, and soil material. If the materials to be used are Federally owned, the proposed source shall be shown either on a quarter-quarter section on a map or plat, or in a written description.

Will try to use Caliche from reserve pit. If unable to use Caliche from reserve pit, then will get Caliche from a Federal or State approved caliche pit.

- 7. <u>Methods of Handling Waste Disposal:</u> A written description of the methods and locations proposed for safe containment and disposal of each type of waste material (e.g. cuttings, garbage, salts, chemicals, sewage, etc.) that results from the drilling and completion of the proposed well shall be provided.
 - Drill cuttings disposed into drilling pits.
 - Drill fluids allowed to evaporate in drill pits until pits dry.
 - Produced water during testing drill pits.
 - Produced oil during testing storage tank until sold.
 - Current laws and regulations pertaining to disposal of human waste will be observed.
 - Reserve pit will be plastic lined.
 - Waste paper, garbage, and junk will be disposed of into a special container on location and removed regularly to an approved landfill site. All waste material will be covered with a screen or lid and contained to prevent scattering by wind.
 - All trash and debris will be removed from well site within 30 days after drilling and/or completion operations are finished.

- 8. Ancillary Facilities: All ancillary facilities such as camps and airstrips shall be identified on a map or plat. Information as to location, land area required, and methods to be used in construction shall also be provided.
- 0 Information unavailable at this time.
- 9. Well Site Layout: A plat of suitable scale (not less than 1 inch = 50 feet) showing the proposed drill pad, reserve pit location, access road entry points, and its approximate location with respect to topographic features, along with cross section diagrams of the drill pad and the reserve pit showing all cuts and fills and the relation to topography. The plat shall also include the approximate proposed location and orientation of the drilling rig, dikes and ditches to be constructed, and topsoil and/or spoil material stockpiles.

See Exhibit "D"

- 10. Plans for Reclamation of the Surface: A proposed interim plan for reclamation stabilization of the site and also final reclamation plan shall be provided. The interim portion of the plan shall cover areas of the drillpad not needed for production. The final portion of the plan shall cover final abandonment of the well. The plan shall include, as appropriate, configuration of the reshaped topography, drainage systems, segregation of spoil materials, surface manipulations, redistribution of topsoil, soil treatments, revegetation, and any other practices necessary to reclaim all disturbed areas, including any access roads and pipelines. An estimate of the time for commencement and completion of reclamation operations, including consideration of weather conditions and other local uses of the area, shall be provided.
 - After completion of drilling and/or completion of operations, all equipment and other
 material not needed for operations will be removed. Pits will be filled and locations
 cleaned of trash and junk to leave well in as aesthetically pleasing a condition as
 possible.
 - Any unguarded pits containing fluids will be fenced until filled.
 - After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.
- 11. Surface Ownership: The surface ownership (Federal, Indian, State or private) and administration (BLM, FS, BIA, Department of Defense, etc.) at the well location, and of all lands crossed by roads which are to be constructed or upgraded, shall be indicated. Where the surface of the proposed well site is privately owned, the operator shall provide the name, address and telephone number of the surface owner.

Bureau of Land Management 620 E. Green Street Carlsbad, New Mexico 88220

12. **Other Information:** Type of bond. The operator shall be covered by a bond in its own name as principal, or by a bond in the name of the lessee or sublessee.

Burlington Resources Oil & Gas is covered by a statewide bond.

Operator's Representatives:

Field representatives (Responsible for compliance with approved surface use operations plan.)

Burlington Resources Oil & Gas Company P.O. Box 837 Hobbs, NM 88240

Office: 505-393-5844

Mr. Ed Jackson, Drilling Foreman

Loco Hills, NM

Home: 505-677-2323 Mobil: 505-365-7206

Mr. Frank Raybon, Drilling Foreman

Eunice, NM

Home: 505-394-2449 Mobile: 505-369-5367

Les Sinclair, Drilling Engr.

P.O. Box 51810

Midland, TX 79710-1810 Office: 915-688-6855

Home: 915-685-3254

Hal Lee, Drilling Superintendent

P.O. Box 51810.

Midland, TX 79710-1810 Office: 915-688-6834

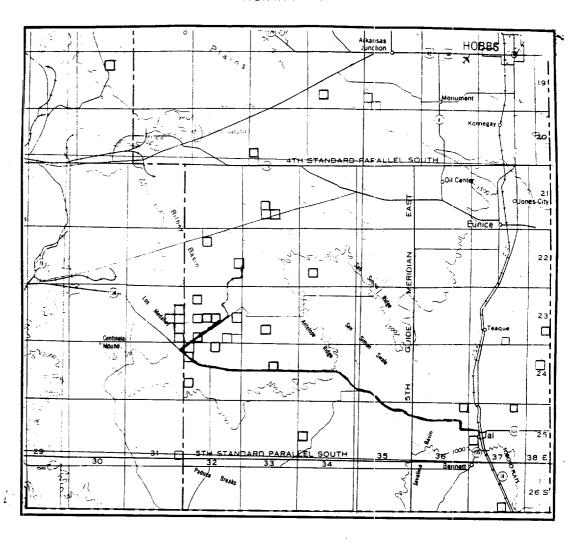
Home: 915-685-6073

OPERATORS CERTIFICATION

I hereby certify that I, Les Sinclair, Drilling Engineer, under my direct supervision, have inspected the proposed drill site and access route that I am familiar with the conditions that currently exist; that the statements made in the APD package are, to the best of my knowledge, true and correct, and that the work associated with operations proposed herein will be performed by **not yet determined** contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM **statewide** bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE:	5/22/97	5~
NAME AND TITLE:	Les Sinclair, Drilling Engineer	- sacrater
SIGNATURE:	245 Jan	

VICINITY MAT



 SECTION
 24
 TWP
 22-S
 RGE
 32-E

 SURVEY
 NEW MEXICO PRINCIPAL MERIDIAN

 COUNTY
 LEA
 STATE
 NM

 DESCRIPTION
 1980' FNL & 660' FEL

OPERATOR BURLINGTON RES. OIL & GAS CO.

LEASE JACKALOPE 24 FEDERAL #4

DISTANCE & DIRECTION _____FROM THE JCT. OF S.H. 31 & S.H. 128, GO SOUTHEAST 19.0 MILES ON S.H. 128,

THENCE NORTHEAST 4.5 MILES ON LEASE ROAD, THENCE NORTH—

NORTHWEST 1.5 MILES ON LEASE ROAD, THENCE NORTH—

EAST & NORTH 3.2 MILES ON LEASE ROAD, THENCE

EAST 1.5 MILES ON LEASE ROAD, THENCE NORTH 1.1

MILES ON LEASE ROAD TO THE SOUTHEAST CORNER OF THE SECTION.



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

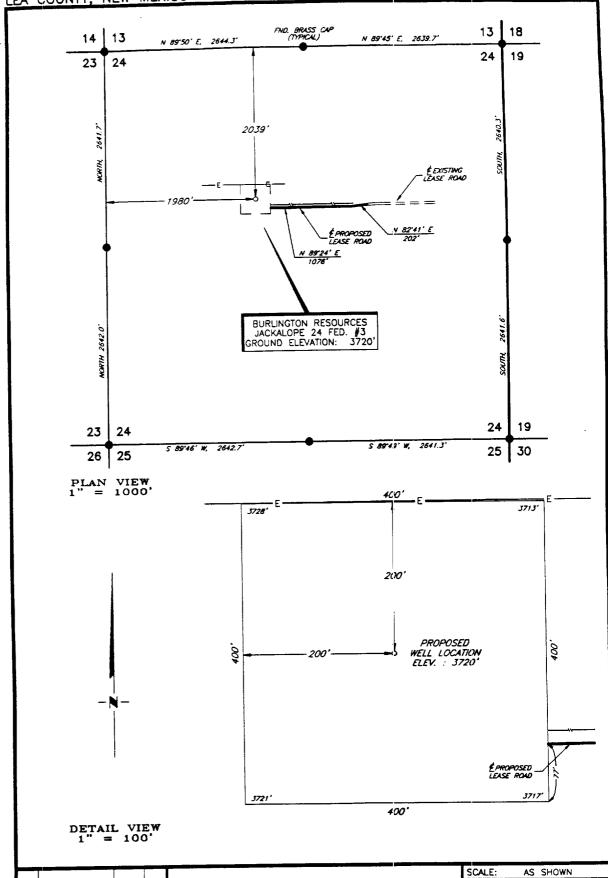
Review this plat and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

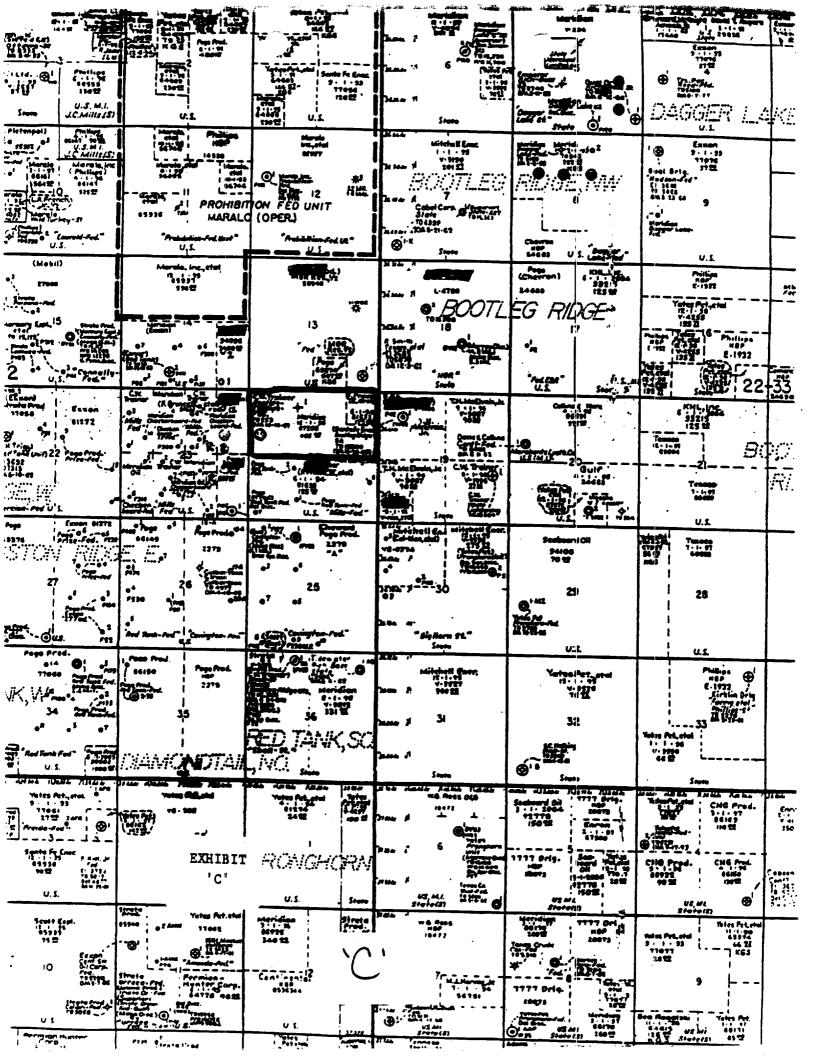
Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382 6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654-3219

2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653 PLAT SHOWING PROPOSED
WELL LOCAT 1 AND LEASE ROAD IN
SECTION 24, 1-22-5, R-32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



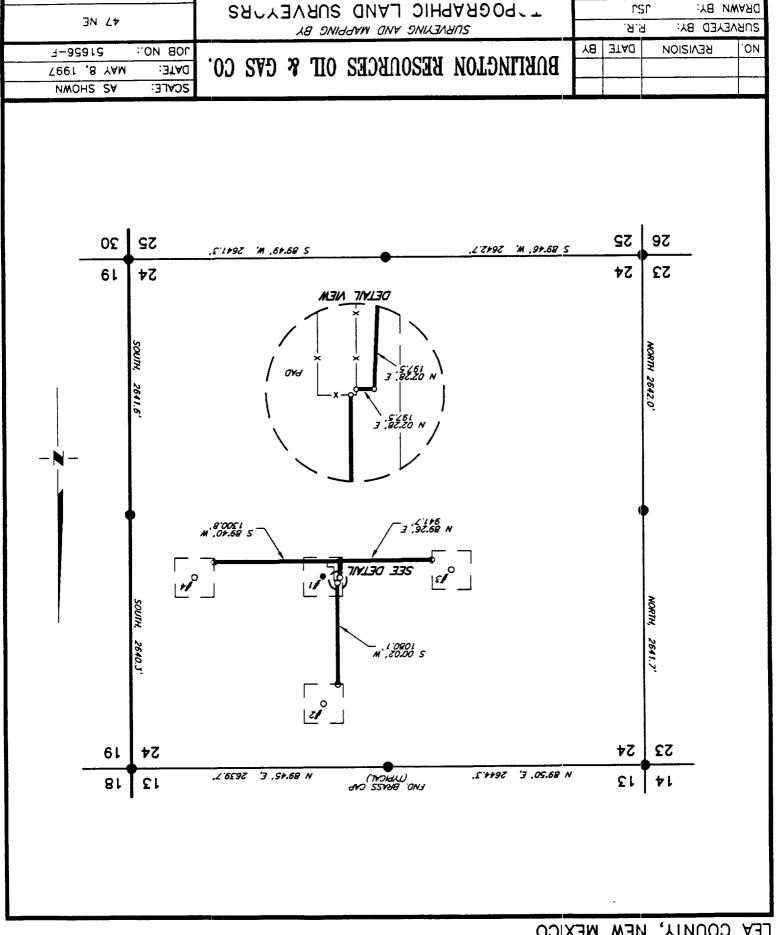
NO.	REVISION	DATE	BY	BURLINGTON RESOURCES OIL & GAS CO.	SCALE: DATE: JOB NO.:	AS SHOWN MAY 8, 1997 51657-F
SUR	EYED BY:	R.R.		SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS		47 NW
	N BY:	JSJ R.M.R.		MIDLAND, TEXAS	SHEET :	1 OF 1



LEA COUNTY, NEW MEXICO SECTION 24, T-22-5, R-32-E, N.M.P.M. PLAT SHOWING PROPOSED PIPELINE IN

APPROVED BY:

R.M.R.



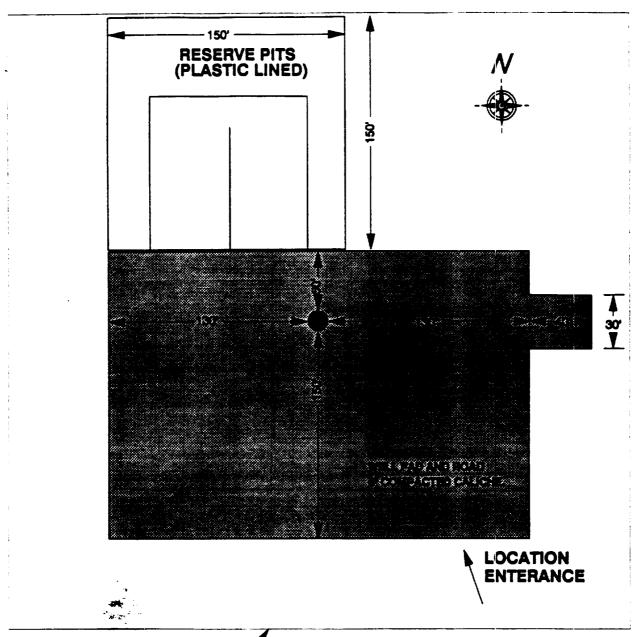
MIDLAND, TEXAS

SHEEL:

1 OF 1

BURLINGTON RESOURCES OIL & GAS COMPANY

MID-CONTINENT DIVISION DRILL WELL LOCATION SPECIFICATIONS



2400' x 400' WELL SITE