(זמנא דאאל)	-'JN	ITED STATES	Other-str	uctions on side)	SY OMB	M APPROVED NO. 1004-0136
		NT OF THE INT		.	5. LEASE DESIGN	February 28, 1995
		OF LAND MANAGEN		<u> </u>	1 111 200	/
	PLICATION FOR	PERMIT TO DR	ILL OR DEEPEN		6. IF INDIAN, AL	LOTTER OR TRIBE NAME
12. TYPE OF WORK	DRILL I	DEEPEN			1	
b. TIPE OF WELL	_				7. UNIT AGREEM	BNT NAME
WELL X 2. NAME OF OPERATO	GAS WELL OTHER	_166 1	ZONE 20NE 20NE	30.0	8. FARM OR LEASE N. TESUQUE "25	
CONCHO RESO	URCES, INC. (E	RICK NELSON)	915-883-7443	2	9. API WELL NO.	FEDERAL # 2
3. ADDRESS AND TELEPHON		1	S APK 2001	•	30-015-	31738
4. LOCATION OF WELL At surface	UISIANA SUITE 4 (Report location clearly a	10 MIDLAND, TE nd in accordance with an	XAS 79702 (945)	83-744	10. FIELD AND P	
660' FWL &		25 T25S-R29E	EDDX 20. OCD - ARTE		11. SEC. T P V	DELAWARE Nor
At proposed prod.		25 1255-R29E		Nº/	AND SURVEY	OR AREA
14. DISTANCE IN MIT	ES AND DIRECTION FROM NE	JHIT L	FICE . SI MELT	140	SEC. 25	T25S-R29E
			f Loving New M	levico	12. COUNTY OR P. EDDT CO.	
13. DISTANCE FROM PI LOCATION TO NEAR	OPUSED*		NO. OF ACRES IN LEASE		F ACRES ASSIGNED	NM
PROPERTY OR LEAS (Also to Dearest	drig. unit line, if any)	50'	640	TOTH	119 W 101 1	0
13. DISTANCE FROM P TO NEAREST WELL	ROFOSED LOCATION* ., DRILLING, COMPLETED,		PROPOSED DEPTH		T OR CABLE TOULS	
OR APPLIED FOR, ON	THIS LEASE. FT.] whether DF. RT. GR. etc.)	270'	7000'	ROTA		
13.	whether Dr. RI, GK, etc.)	3040' GR.			22. APPROX. DAT When Appro	z work will start.
		PROPOSED CASING A	ND CEMENTING PROGRAM	N Konstalas		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF C	EMENT
<u>25"</u> 173"	Conductor	NA ·	40*	Cèment	to surface	with Redi-mix
11"	$\frac{H-40 \ 13 \ 3/8"}{K \ 55 \ 0 \ 5 \ 0 \ 5}$					te to surfa
7 7/8	K-55 8 5/8"			<u>1000 s</u>		11 11
, , , , , , , , , , , , , , , , , , , ,	$5 N-80 5\frac{1}{2}"$	17	7000'	600 Sx	. Est. TO	C 2800'
1. Drill 29 with Red	5" hole to 40' di-mix.	. Set 40' of	20" conductor	pope	and cemen	t to surface
Cement v	$7\frac{1}{2}$ " hole to 60 with 600 Sx. o	f Class "C" d	585 set 600' of 13 cement + 2% Ca	3/8" Cl, +	H-40 48# 낯# flocel	ST&C casing e/Sx.
casing.	Cement with	800 Sx. of Cl	set 3200' of 8 lass "C" Light - 2% CaCl, circ	+ 2%	CaCl tai	lin
casing. 200 Sx.	Cement with 40	00 Sx. of Cla	nd set 7000' of ass "H" Light - + additives, e	⊢ addii	tives. ta	il in with
ebai ditecnonativ, Bive be	BE PROPOSED PROGRAM: If	proposal is to deepen, give dat as and measured and true vertic	a on present productive zone an cal depths. Give blowout prevent	d proposed ne er program, if s	w productive zone.	If proposal is to drill or
SIGNED	et Jan	title	ABEMOVAL SUBJE		DATE 02/2	6/01
This space for Fed	eral or state office use)		attining the second			
PERMIT NO.			Special Stipe	s. •		
	not warrant or sertify that the arm	licant holds legal or equitable t	tle to those rights in the subject len		i antida the perilepat to	modure mercians thereon

Application approval does not warrant or servicy that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereo.

APPROVED	8Y	
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*See Instructions On Reverse Side APPROMATION 1 YEAR

while is is a

DATE _

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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I P.3. Ber 1983, Hobbs, NM 86241-10	98C		Znergy,	State of Ne Minerals and Natural	W MCXIC		For Revised Februar	rm C-102
DISTRICT II P.O. Drawer DD, Artesia, NM 88211	-0719	OIL	CON		ON DIVIS	Submit	to Appropriate Dis State Lease Fee Lease	trict Office
DISTRICT III 1000 Rio Brazos Rd., Astec. N	M 87410		Santa I	P.O. Box f Fe, New Mexic	2088 co 87504-2088			a copies
DISTRICT IV P.O. BOX 2005, SANTA PE, N.M. 675	5042085	WELL LO	CATION	AND ACRE	AGE DEDICATI	ON PLAT	AMENDEI) REPORT
API Number			Pool Code		HY DRAW DELAW	Pool Name		
Property Code		I		Property Nar JQUE "25"	ae		Well Num	aber
OGRID No.				Operator Nam	ae		2 Elevation	
166111		· · · · · · · · · · · · · · · · · · ·	CONC	HO RESOUR		<u> </u>	3040	<u>. </u>
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 25	25-S	29-E		1930	SOUTH	660	WEST	EDDY
UL or lot No. Section	Township	······································		T	erent From Sur			·
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Dedicated Acres Joint or	Infill Co	nsolidation C	ode Or	der No.	I /	······		
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NO ALLOWABLE W	OR A N	ION-STAN	DARD UN	IT HAS BEEN	APPROVED BY 1	ESTS HAVE BE THE DIVISION	EN CONSOLIDA	TED
.3041.4' 3043.6' 660' 3039.2' 3041.1'			· ·			I hereby contained herein best of my know Signature Joe T. Printed Name Agent Title 02/26/ Date SURVEYON I hereby certify on this plat was actual surveys supervison and correct to the	Janica Janica Janica /01 R CERTIFICATI that the well location s plotted from field made by me or to that the same is best of my belief. ARY 06, 2001	ION notes of under my

VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>25</u> TWP. <u>25-S</u> RGE. <u>29-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1930'FSL & 660'FWL</u> ELEVATION <u>3040'</u> OPERATOR <u>CONCHO RESOURCES, INC.</u> LEASE <u>TESUQUE "25" FEDERAL</u>

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

LOCATION VERFICATION MAP



SCALE: 1'' = 2000'

- SEC. _25 _ TWP. 25-S_RGE. _29-E
- SURVEY N.M.P.M.
- COUNTY____EDDY

DESCRIPTION 1930'FSL & 660'FWL

ELEVATION _____ 3040'

OPERATOR CONCHO RESOURCES, INC. LEASE____TESUQUE "25" FEDERAL

U.S.G.S. TOPOGRAPHIC MAP ROSS RANCH, N.M. CONTOUR INTERVAL: 10' ROSS RANCH, N.M.

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

CONCHO RESOURCES, INC. TESUQUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration. 1. Location: 660' FWL & 1930' FSL SEC. 25 T25S-R29E EDDY CO. NM 2. Elevation above Sea Level: 3040' GR. 3. Geologic name of surface formation: Quaternery Aeolian Deposits. 4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole. 5. Proposed drilling depth: 7000' 6. Estimated tops of geological markers: Salt 800' Bell Canyon 3250' Lamar 3200' Cherry Canyon 4230' Delaware 6500' 7. Possible mineral bearing formations: Cherry Canyon 0il Delaware Oil _ ---_ 8. Casing program: Hole size Interval OD of casing Weight Thread Cullar Grade 25" 0-40' 20" NA NA NA Conductor 0-600.785 175" 13 3/8" 48# 8-R ST&C N-40 11" 0-3200' 8 5/8" 32.# 8-R ST&C K-55 J-55 7 7/8" 0-7000' 51/211 17# 8-R LT&C N-80

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CONCHO RESOURCES, INC. TESUQUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM

9. Cementing and Setting Depth:

20''	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 600' of 13 3/8" 48# H-40 ST&C casing. Cement with 600 Sx. of Class "C" cement + 2% CaCl, + $\frac{1}{2}$ # Flocele/Sx., circulate cement to surface.
8 5/8"	Intermediate	Set 3200' of 8 5/8" 32# K-55 ST&C casing. Cement with 800 Sx. of Class "C" Light cement + additives, tail in with 200 Sx. of Class "C" + 2% CaCl + ½# Flocele/Sx., circulate cement to surface.
5 ¹ 2"	Production	Set 7000' of $5\frac{1}{2}$ " 17# N-80 & J-55 LT&C casing. Cement with 400 Sx. of Class "H" Light + additives, tail in with 200 Sx. of Class "H" Premium Plus + additives estimate top of cement 2800'.

11

10. Pressure Control Equipment: Exhibit "E". A 900 Series 3000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. BOP un-t will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. BOP will be nippled up on 13 3/8" casing and will be operated at least once each 24 Hr. period while drilling and blind rams will be operated when out of hole during trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.

	4 4 •	rroposed	Mud	Circulatin	g S	System:	
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Depth	Mud Wt.	Visc,	Fluid Loss	_
10 char		•		Type Mud
40-600, 78.57	8.4-8.7	29-36	NC	Fresh water spud mud add paper to control seepage.
<u>6</u> 00-3200'	10.2-10.4	29 38	NC	Brine water add paper to control seepage and high viscosity
3200-70001	8.4-8.6	29-38	NC	sweeps to clean hole. Fresh water add Gel for viscosity and clean hole with high viscosity
Sufficient mud	materials to	maintain n	nud properti	sweeps. Lower water loss with a Polymer if necessary.

terials to maintain mud properties, meet lost circulation and weight increase requirements will be kept at well site at all times. In order to log well and run casing the viscosity may have to be raised and the water loss lowered in

CONCHO RESOURCES, INC. TESUQUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM

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12. Testing, Logging and Coring Program:

A. Open hole logs: Run Dual Induction, SNP, Gamma Ray, Caliper from TD to 3200'. Run Gamma Ray, Neutron from 3200' to Surface.

B. Rig up mud logger on hole at 3200' and keep on hole to TD.

C. No cores of DST's are planned at this time.

13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H₂S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 3500 PSI, estimated BHT 135°

14. Anticipated Starting Date and Duration of Operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take ________ days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The <u>Delaware</u> pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H_2S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H2S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H_2S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
 - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
 - A. See exhibit "E"
- 6. Communication
 - A. While working under masks chalkboards will be used for communication.
 - 3. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If the location is near to a dwelling a closed DST will be performed.

- - -

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H₂S scavengers if necessary.

CONCHO RESOURCES, INC. TESUQUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM

- EXISTING ROADS. Area map, Exhibit "B" is a reproduction of the New Mexico General Hi-way Co. Map. Exhibit "C" is a reproduction of a topographic map. Existings roads and proposed roads are shown on each exhibit. All roads will be maintained in a condition equal to or better than of construction.
 - A. Exhibit "A" shows the well location as staked.
 - B. From Malaga New Mexico take U.S. Hi-way 285 South 12.5 miles to CR-725, turn Left go 3.8 miles and cross Pecos River continue .2 miles to Elpaso Pipeline Road, Turn Left go 4.1 miles along pipeline road turn Right (SOUTH) go 1200' to location
 - C. Necessary flowlines and powerlines will be constructed along road R-O-W where required to produce this lease. See Exhibit "F" for proposed route of flowlines and powerlines.

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- 2. PLANNED ACCESS ROADS: approximately 1200' of new road to be constructed. If well # 2 is drilled first.
 - A. The access road will be crowned and ditched to a 12'00" wide travel surface with 40' right-of-way.
 - B. Gradient on all roads will be less than 5.00%.
 - C. Turn outs will be constructed where necessary.
 - D. If needed, road will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
 - E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
 - F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the Lopography.
- 3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"

Α.	Water wells -	None known
в.	Disposal wells -	None known
с.	Drilling wells -	None known
D.	Producing wells -	As shown on Exhibit "A-1"
E.	Abandoned wells -	As shown on Exhibit "A-1"

CONCHO RESOURCES, INC. TESUQUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM

- 4. If on completion this well is a producer Concho Resources, Inc. will furnish maps and/or plats showing on site facilities or off site facilities if required. R-O-W's for pipelines and powerlines along existing R-O-W's or existing roads as shown on Exhibit "F"
- 5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction will be obtained from the excavation of drill site, if additional material is needed it will be purchased from a local source and transported over the access route as shown on Exhibit"C".

- 7. METHODS OF HANDLING WASTE MATERIAL:
 - A. Drill cuttings will be disposed of in the reserve pit.
 - B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
 - C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
 - D. Sawage from living quaters will drain into holes with a minium depth of 10'. These holes will be covered during drilling and will be back filled upon completion. A Porta-John will be provided for the rig craws. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
 - E. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for breaking out. In the event that drilling fluids do not evaporate in a reasonable time they will be hauled off by transports and be disposed of at a state approved disposal facility. Later pits will be broken out to speed drying. Water produced during testing will be put in reserve pits. Any cil or condensate produced will be stored in test tanks until sold and hauled from the site.

8. ANCILLARY FACILITIES:

A. No camps or airstrips to be constructed.

CONCHO RESOURCES, INC. TESUOUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM

- 9. WELL SITE LAYOUT
 - A. Exhibit "D" shows the proposed well site layout.
 - B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
 - C. Mud pits in the active circulating system will be steel pits & the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
 - D. If needed, the reserve pit is to be lined with polyethelene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down:
 - E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.
- 10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

CONCHO RESOURCES, INC. TESUOUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM

- 11. OTHER INFORMATION:
 - A. Topography consists of grassy flats and rolling plains, the vegetation consists of native grasses yucca, mesquite, and snake weed. drainage is Westward toward the Pecos River.
 - B. The surface is owned by the Bureau of Land Management The U.S. Department of Interior, and is used by ranchers for grazing of livestock.
 - C. An archaeological survey will be conducted of the location and roads. This will be submitted to the Bureau of Land Management when it is completed.
 - D. There is a dwelling approximately 1.5 miles Northeast of location.
- 12. OPERATORS REPRESENTIVE:

Before construction: TIERRA EXPLORATION INC.

P.O. BOX 2188 HOBBS, NEW MEXICO 88241 OFFICE PEONE 505-391-8503 JOE T. JANICA

During and after construction:

PENWELL ENERGY, INC. 600 NORTH MARIENFELD SUITE 1100 MIDLAND, TEXAS 79701 ERICK NELSON (915-683-7443)

13. <u>CERTIFICATION:</u> - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which 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 the operations proposedherein will be performed by Concho Resources, Inc., it's contractors/subcontractors is in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

mile NAME DATE TITLE Agent

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- (alarms at bell nipple and shale shaker)
- Eriefing Areas
- Remote EOP Closing Unit
- Sign and Condition Flags

EXHIBIT "D" RIG LAYOUT PLAT

CONCHO RESOURCES, INC. TESUQUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM



ARRANGEMENT SRRA

900 Series 3000 PSI WP



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DRILLING MANUAL









FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

> EXHIBIT "E-1" CHOLE MANIFOLD & CLOSING UNIT CONCHO RESOURCES, INC.

TESUQUE "25" FEDERAL # 2 UNIT "L" SECTION 25 T25S-R29E EDDY CO. NM

