Form 3160-3
(July 1992)

SUBMIT IN [illegible]LICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER [illegible] SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
CONCHO RESOURCES, INC. (ERICK NELSON) 915-683-7443

3. ADDRESS AND TELEPHONE NO.
110 WEST LOUISIANA SUITE 410 MIDLAND, TEXAS 79702 (915-683-7443)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
990' FNL & 330' FWL SEC. 17 T18S-R31E EDDY CO. NM
At proposed prod. zone SAME Unit D

5. LEASE DESIGNATION AND SERIAL NO.
LC-029393-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
---

7. UNIT AGREEMENT NAME
---

8. FARM OR LEASE NAME, WELL NO.
27000
WEST SHUGART "17" FED. # 2

9. API WELL NO.
30-015-31728

10. FIELD AND POOL, OR WILDCAT
SHUGART NORTH-BONE SPRING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 17 T18S-R31E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 9 miles Southeast of Loco Hills New Mexico

12. COUNTY OR PARISH: EDDY CO.
13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
330'	80	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
1000'	8500'	ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3647' GR.

22. APPROX. DATE WORK WILL START*
When Approved

23. PROPOSED CASING AND CEMENTING PROGRAM Set Above Salt

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	Conductor	NA	40'	Cement to surface with Redi-mix
17½"	H-40 13 3/8"	48	775'	650 Sx. circulate to surface
12¼"	J-55 8 5/8"	32	2800'	710 Sx. " " "
7 7/8"	J-55 5½"	17	8500'	850 Sx. estimate top cem. 2500'

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 775'. Run and set 775' of 13 3/8" 48# H-40 ST&C casing. CEment with 650 Sx. of Class "C" cement + 2% CaCl + ¼# Flocele/ Sx. circulate cement to surface.
3. Drill 12¼" hole to 2800'. Run and set 2800' of 8 5/8" 32# J-55 ST&C casing. Cement with 510 Sx of Class "C" Light + additives, tail in with 200 Sx. of Class "C" cement + 2% CaCl + ¼# Flocele/Sx. circulate cement to surface.
4. Drill 7 7/8" hole to 8500'. Run and set 8500' of 5½" 17# J-55 LT&C casing. Cement with 600 Sx. of Class "H" Light + additives, tail in with 250 Sx. of Class "H" Premium Plus + additives. Estimate top of cement 2500' from surface.

APPROVAL [illegible] AND SPECIAL [illegible] ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED Joe T Janica TITLE Agent DATE 02/09/01

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

CONDITIONS OF APPROVAL, IF ANY:

/s/ LESLIE A. THEISS

APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

APP[illegible] YEAR

RECEIVED
OCD ARTESIA

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
	56405	SHUGART NORTH - BONE SPRING

Property Code	Property Name	Well Number
	WEST SHUGART "17" FEDERAL	2

OGRID No.	Operator Name	Elevation
166111	CONCHO RESOURCES, INC.	3647'

Surface Location

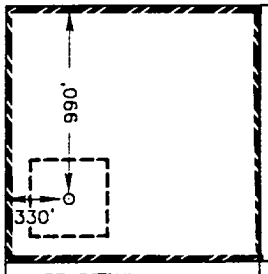
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	18-S	31-E		990	NORTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

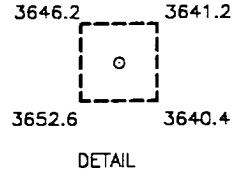
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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



SEE DETAIL



DETAIL

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Joe T. Janica
Printed Name

Agent
Title

02/09-01
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 19, 2001
Date Surveyed AWB

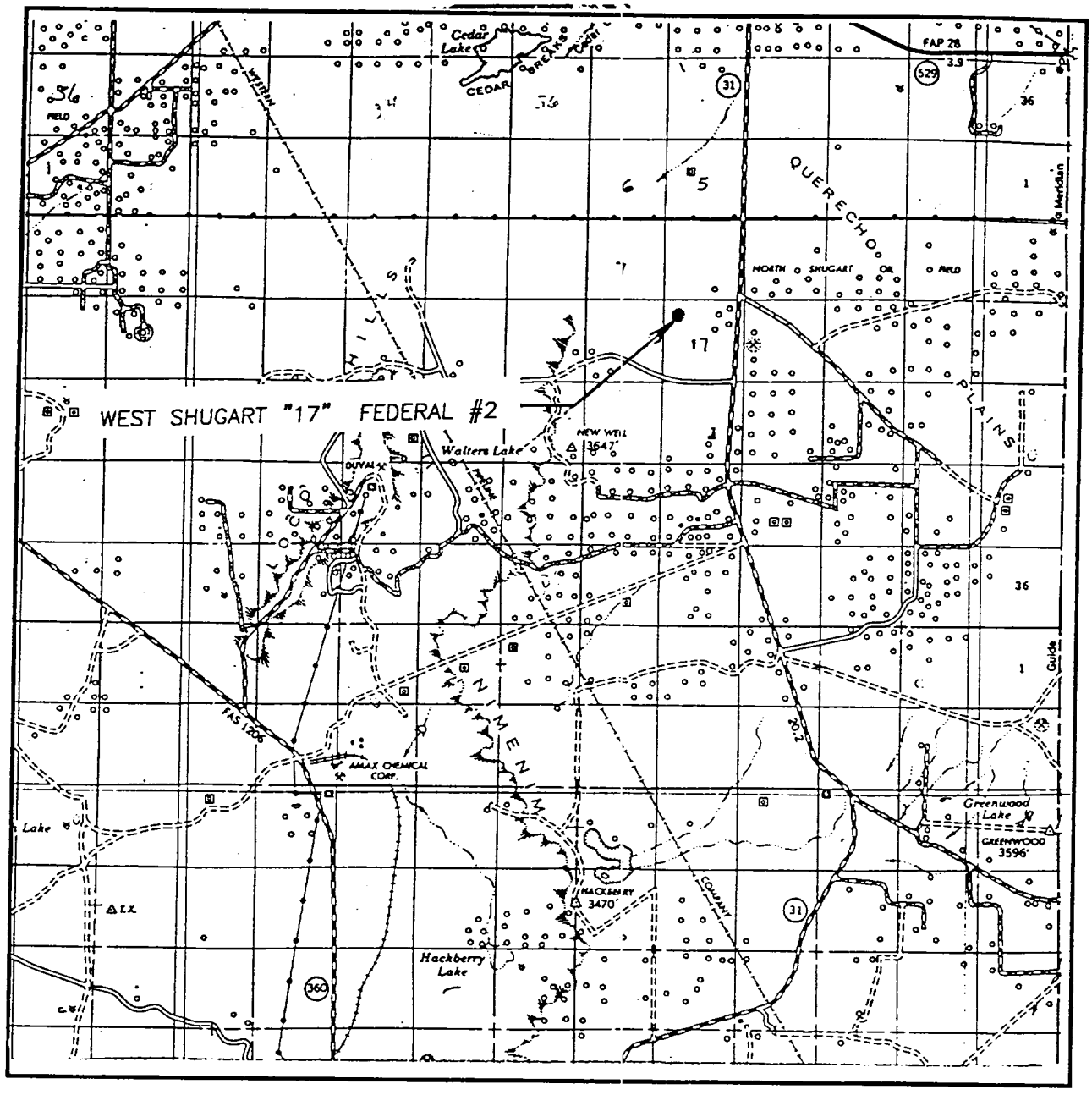
Signature & Seal of Professional Surveyor

Ronald J. Eidson 01/22/01

01-11-0032

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 17 TWP. 18-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 990'FNL & 330'FWL

ELEVATION 3647'

OPERATOR CONCHO RESOURCES, INC.

LEASE WEST SHUGART "17" FEDERAL

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

LOCATION VERFICATION MAP

SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

LOCO HILLS,HACKBERRY LAKE N.M.

SEC. 17 TWP. 18-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 990'FNL & 330'FWL

ELEVATION 3647'

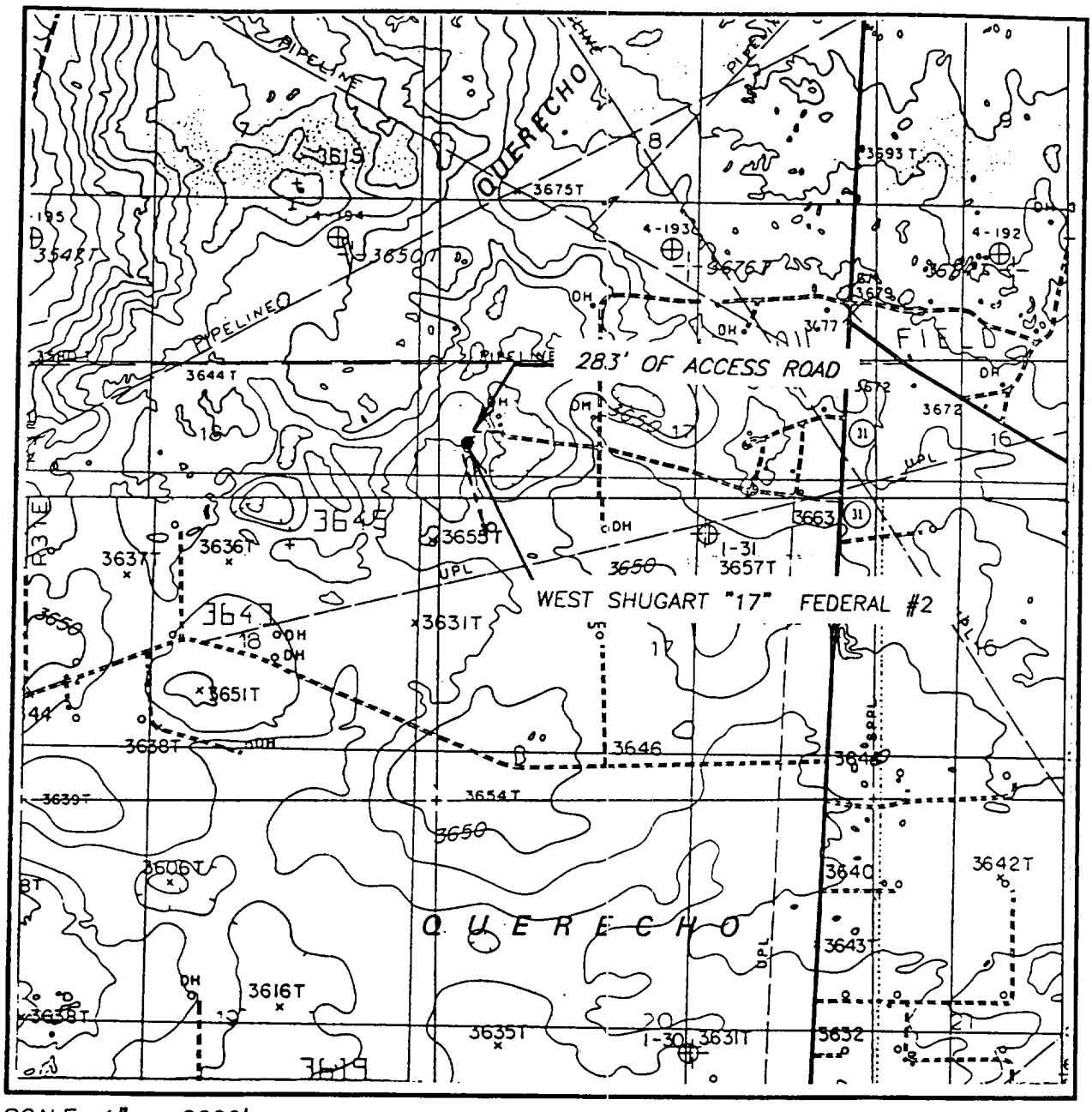
OPERATOR CONCHO RESOURCES, INC.

LEASE WEST SHUGART "17" FEDERAL

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

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

LOCATION VERFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

LOCO HILLS,HACKBERRY LAKE N.M.

SEC. 17 TWP. 18-S RGE. 31-E

SURVEY N.M.P.M.

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

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

APPLICATION TO DRILL

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E 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: 990' FNL & 330' FWL SEC. 17 T18S-R31E EDDY CO. NM

2. Elevation above Sea Level: 3647' 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: 8500'

6. Estimated tops of geological markers:

Rustler Anhydrite	575'	San Andres	3800'
Yates	1950'	Delaware	5775'
Queen	3150'	Bone Spring	8150'

7. Possible mineral bearing formations:

San Andres	Oil	Bone Spring	Oil
Delaware	Oil		

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40	20"	NA	NA	NA	Conductor
17½"	0-775'	13 3/8"	48#	8-R	ST&C	H-40
12¼"	0-2800'	8 5/8"	32#	8-R	ST&C	J-55
7 7/8"	0-8500'	5½"	17#	8-R	LT&C	J-55

APPLICATION TO DRILL

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E EDDY CO. NM

9. Cementing and Setting Depth:

20"	Conductor	Set 40' of 20' conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 775' of 13 3/8" 48# H-40 ST&C casing. Cement with 650 Sx. of Class "C" cement + 2% CaCl + ¼# Flocele/Sx. Circulate cement to surface.
8 5/8"	Intermediate	Set 2800' of 8 5/8" 32# J-55 ST&C casing. Cement with 510 Sx. of Class "C" Light + additives, tail in with 200 Sx. of Class "C" cement + 2% CaCl + ¼# Flocele/Sx. Circulate cement to surface.
5½"	Production	Set 8500' of 5½" 17# J-55 LT&C casing. Cement with 600 Sx. of Class "H" Light + additives, tail in with 250 Sx. of Class "H" Premium Plus + additives, estimate top of cement 2500' from surface.

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 nipped 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.

11. Proposed Mud Circulating System:

Depth	Mud Wt.	Visc,	Fluid Loss	Type Mud
40-775'	8.4-8.7	29-34	NC	Fresh water Spud mud add paper to control seepage, use high viscosity sweeps to clean hole.
775-2800'	10-10.4	29-36	NC	Brine water use paper to control seepage and high viscosity sweeps to clean hole.
2800-8000'	8.9-9.5	32-38	NC	Cut Brine using high viscosity sweeps to clean hole.
8000-8500	8.8-9.5	32-38	10cc or less	Cut brine with a Gel/Pac system for water loss control.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, & unexpected kicks. In order to rud DST's , open hole logs and casing viscosity and water loss may have to be controled.

APPLICATION TO DRILL

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E EDDY CO. NM

12. Testing, Logging and Coring Program:

A. Open hole logs: Gamma Ray, Neutron Density with caliper, Laterolog MSFL from TD to 2800'. Gamma Ray Neutron from 2800' to surface.

B. Two man mud logging unit on hole from 4500' to TD.

C. Side wall cores may be taken over possible productive intervals.

D. DST's may be run if shows dictate.

13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H_2S 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 4500 PSI, estimated BHT 168°.

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 28 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 BONE SPRING pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

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 H_2S
   B. Physical effects and hazzards
   C. Proper use of safety equipment and life support systems.
   D. Principle and operation of H_2S 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. H_2S 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, H_2S 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.
   B. 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 location is near any dwelling a closed D.S.T. will be performed.

8. Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.

9. If H_2S 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 H_2S scavengers if necessary.

SURFACE USE PLAN

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E EDDY CO. NM

1. 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 proposed well as staked.

   B. From Loco Hills New Mexico take U.S. Hi-way 82, 5.5 miles East to CR-222, turn South go 4.4 miles turn West follow lease road .6 miles, turn South go .2 miles turn West go .25 miles to well # 1 location turn North go 990' to location of well # 2.

   C. Construct powerlines and lay flowlines along access roads and existing R-O-W's that will allow this well to produce oil & gas. See Exhibit "F" attached.

2. PLANNED ACCESS ROADS : Approximately 990' of new road will be constructed.

   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. No turnouts will be 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"

   A. Water wells - None known

   B. Disposal wells - None known

   C. Drilling wells - None known

   D. Producing wells - As shown on Exhibit "A-1"

   E. Abandoned wells - As shown on Exhibit "A-1"

SURFACE USE PLAN

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E 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. Sewage 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 crews. 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 oil 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.

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.

SURFACE USE PLAN

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E EDDY CO. NM

11. OTHER INFORMATION:

A. Topography consists of sand dunes, sandy soils with native grasses consisting of Sand Sage, Scrub Oak, Snakeweed and Mesquite. Drainage is Westerly toward the Querecho Plains.

B. The surface is owned by The Bureau of Land Management, U.S. Dept. of Interior.

C. An Archaeological survey will be conducted and the results will be submitted to the Bureau of Land Management, Carlsbad, New Mexico.

D. No dwellings within one mile of location.

12. OPERATORS REPRESENTATIVE:

Field representative to contact regarding compliance with Application to Drill and Surface Use Plan is:

Before APD is approved.

Tierra Exploration Inc.
P.O. Box 2188
Hobbs, N.M. 88241
Joe T. Janica
Office Phone: 505-392-2112

After APD is approved.

Concho Resources, Inc.
110 West Louisiana
Suite 410
Midland, Texas 79702
Jim Blount 915-683-7442

13. CERTIFICATION: I hereby certify that I, or persons under by 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 proposed herein will be performed by Concho Resources, Inc. it's contractors/subcontractors in conformity with this plan and the terms and the conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for filing a false statement.

DATE: 02/09/01

NAME: JOE T. JANICA Joe T Janica

TITLE: AGENT

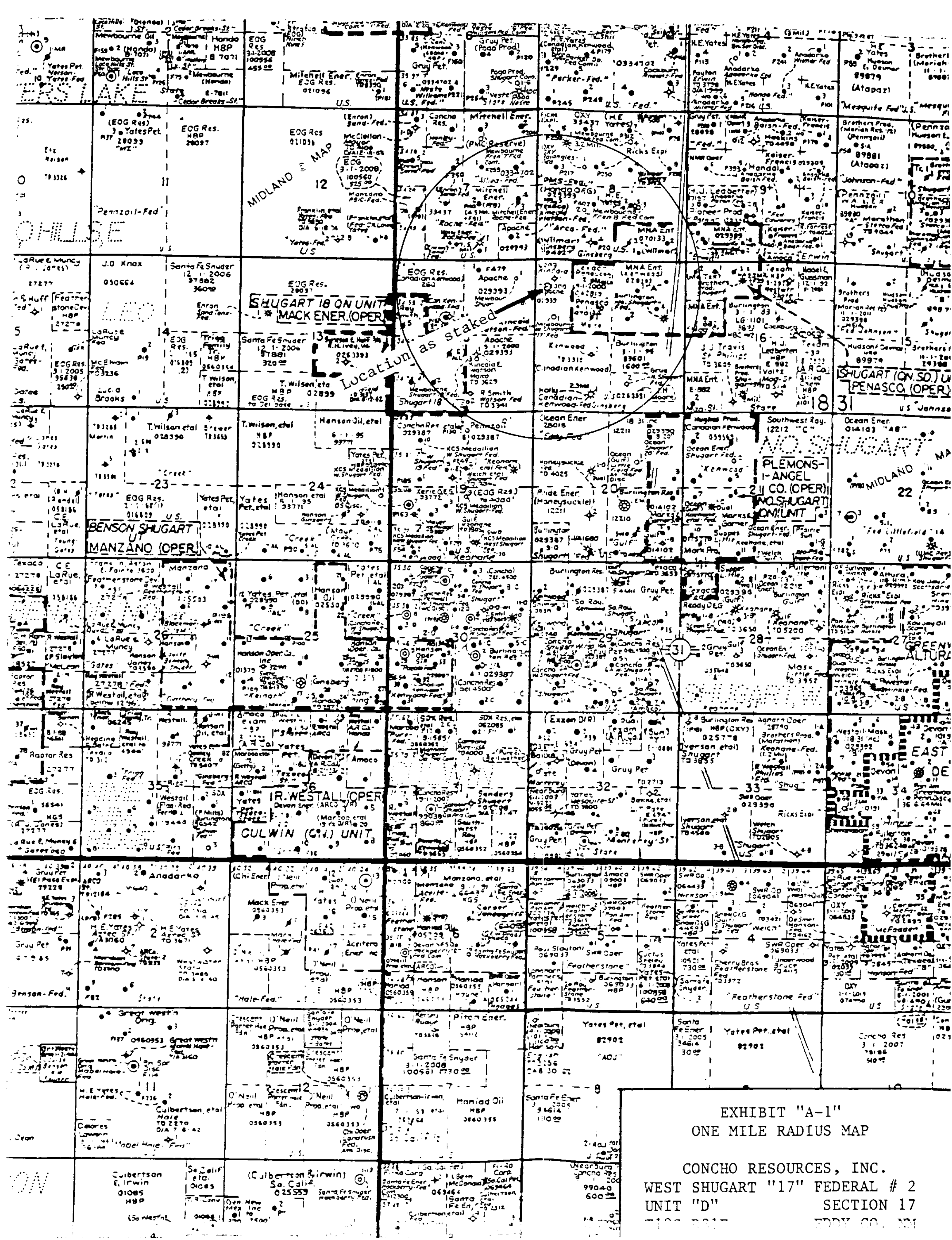


EXHIBIT "A-1"
ONE MILE RADIUS MAP

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17

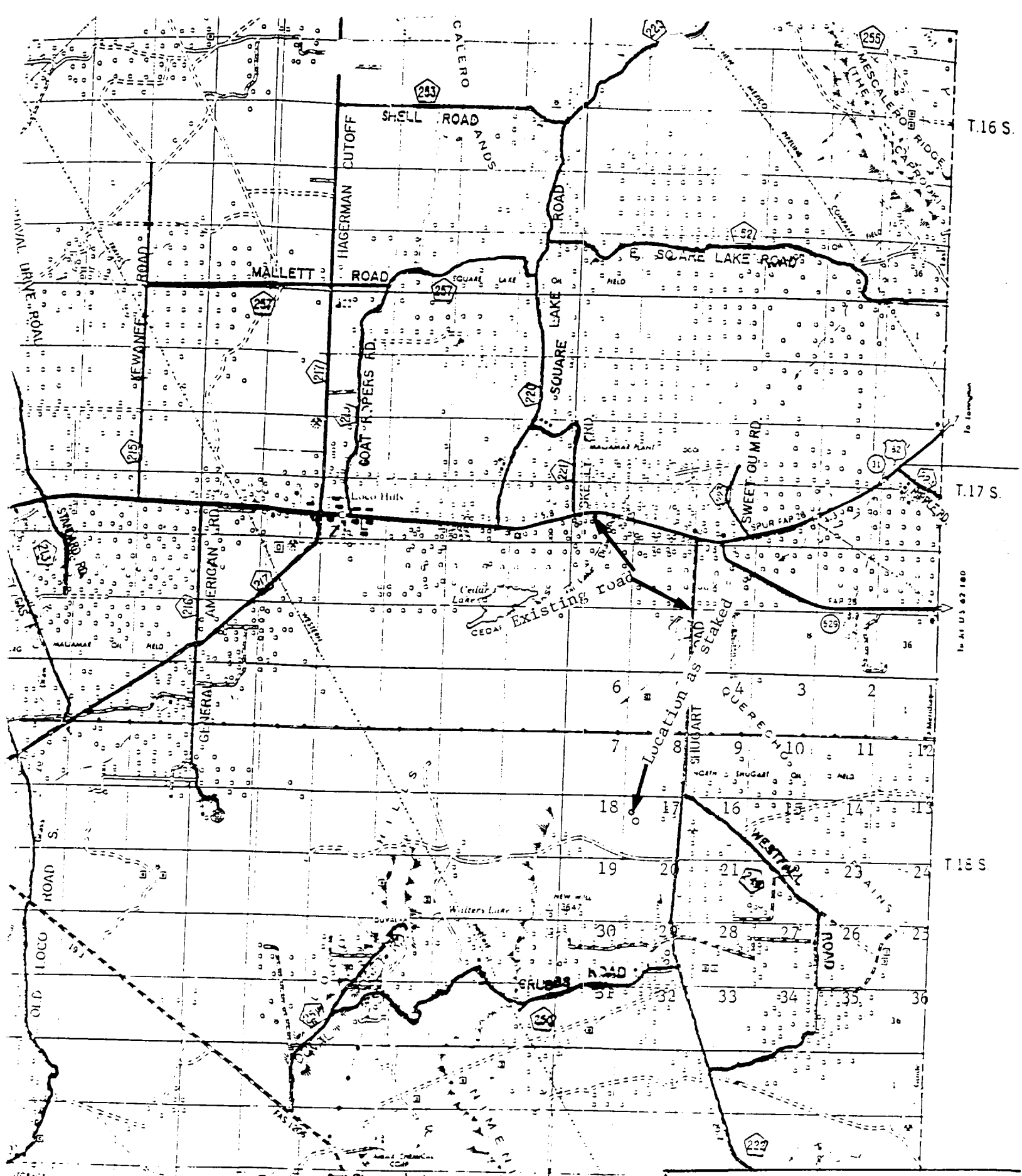


EXHIBIT "B"
LOCATION & ACCESS ROAD MAP

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E EDDY CO. NM

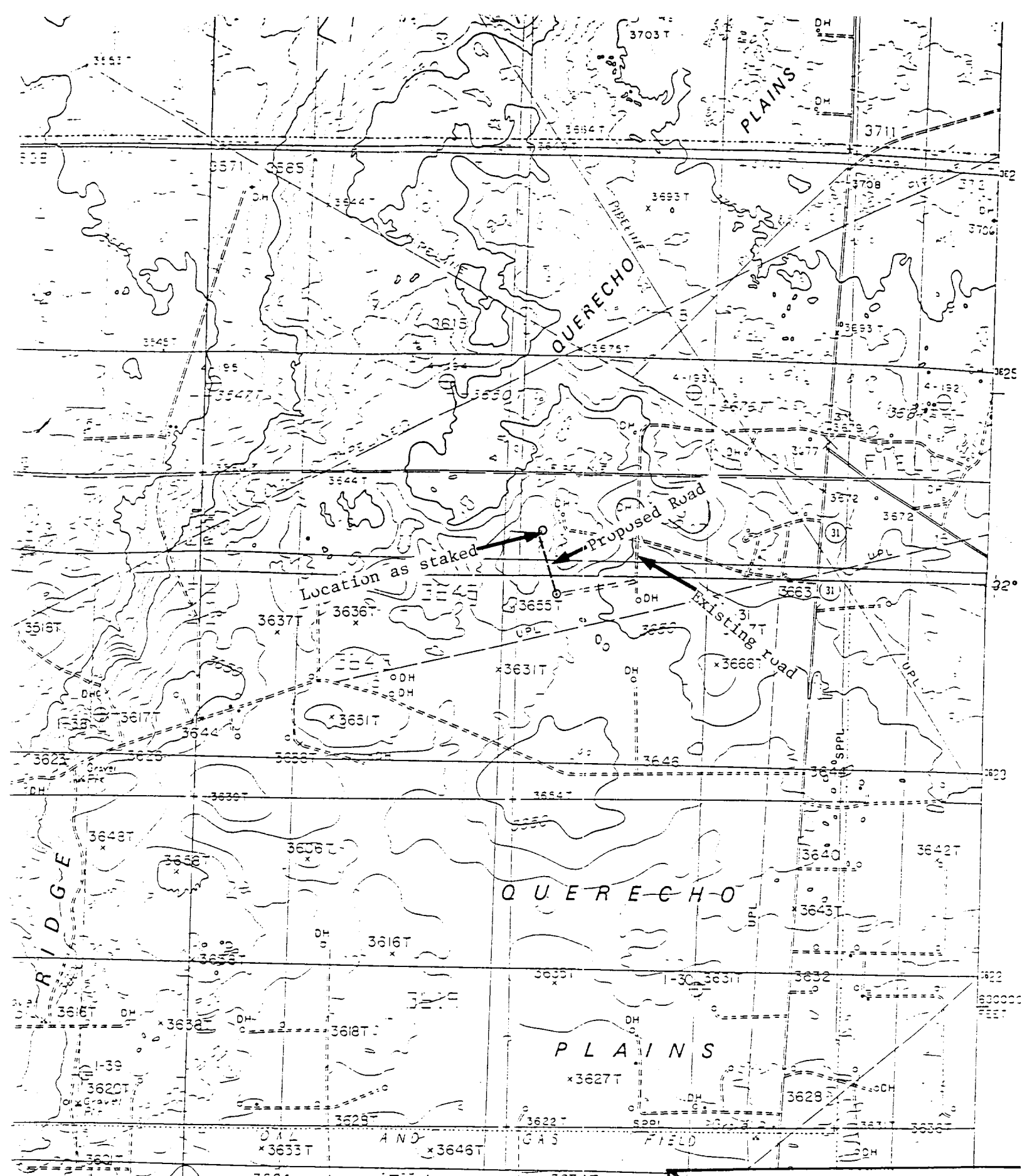


EXHIBIT "C"
TOPOGRAPHIC MAP SHOWING
ROADS & DIRECTIONS TO

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17

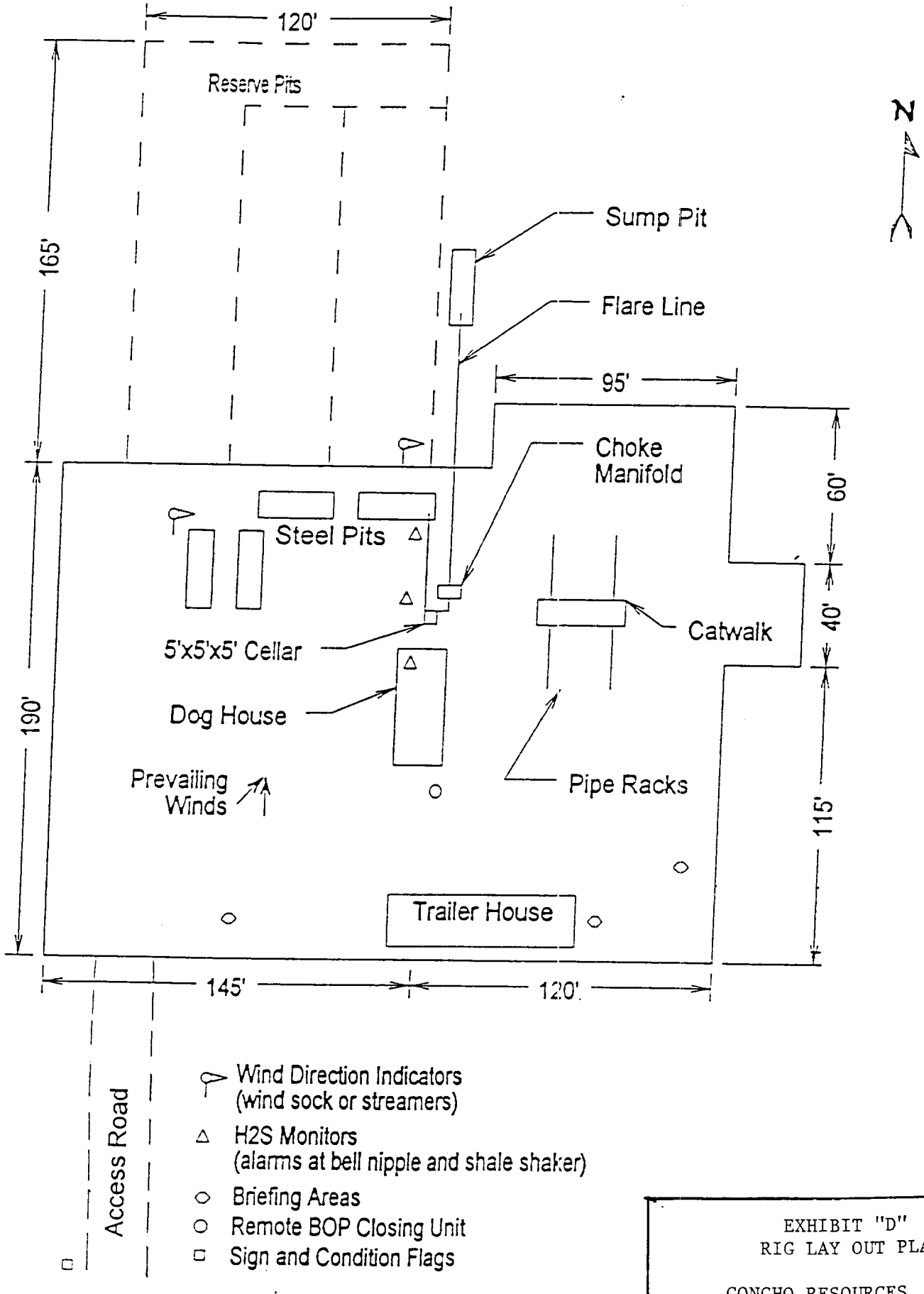
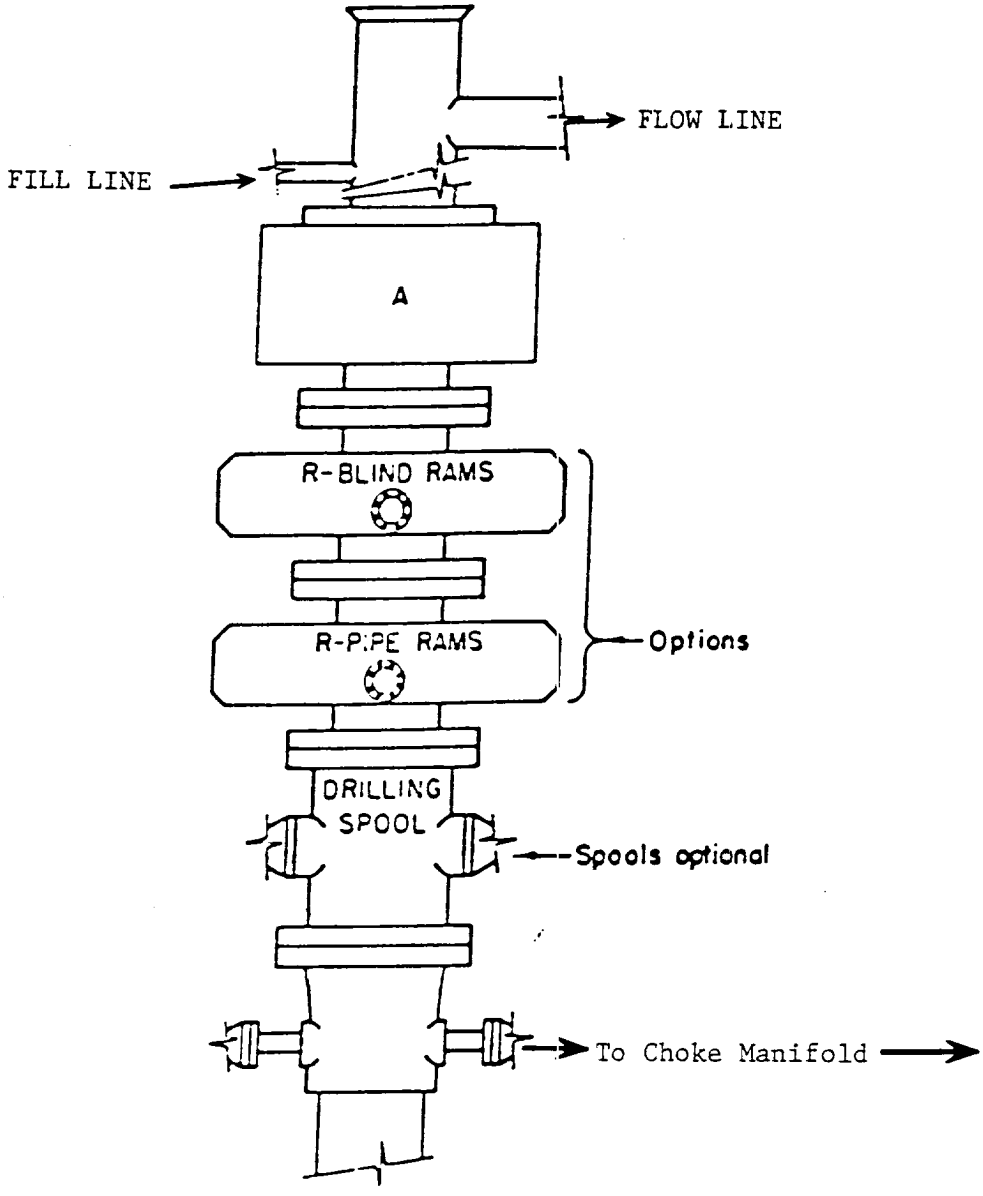


EXHIBIT "D"
RIG LAY OUT PLAT

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E EDDY CO. NM



ARRANGEMENT SRRA

900 Series
3000 PSI WP

EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17
T18S-R31E EDDY CO. NM

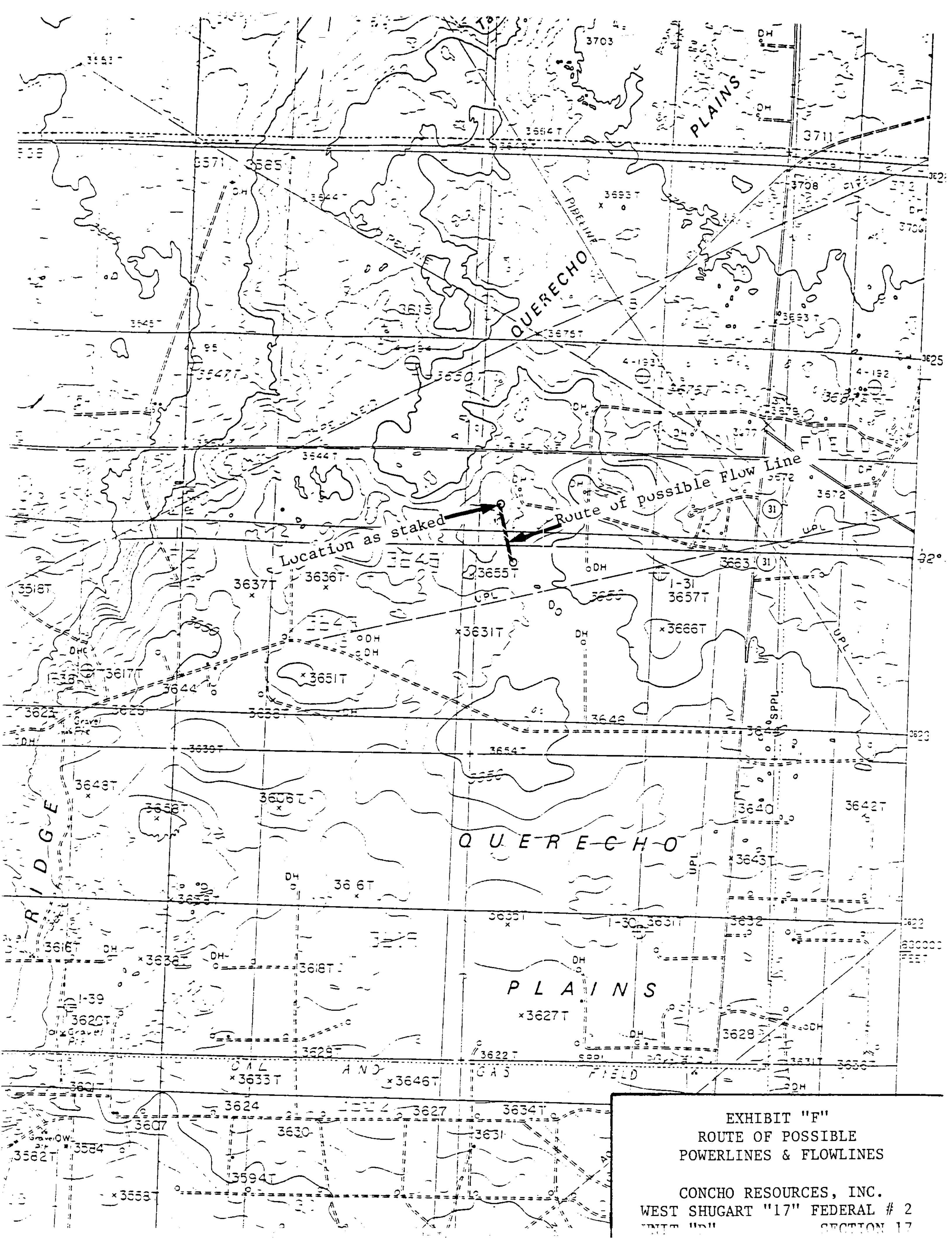
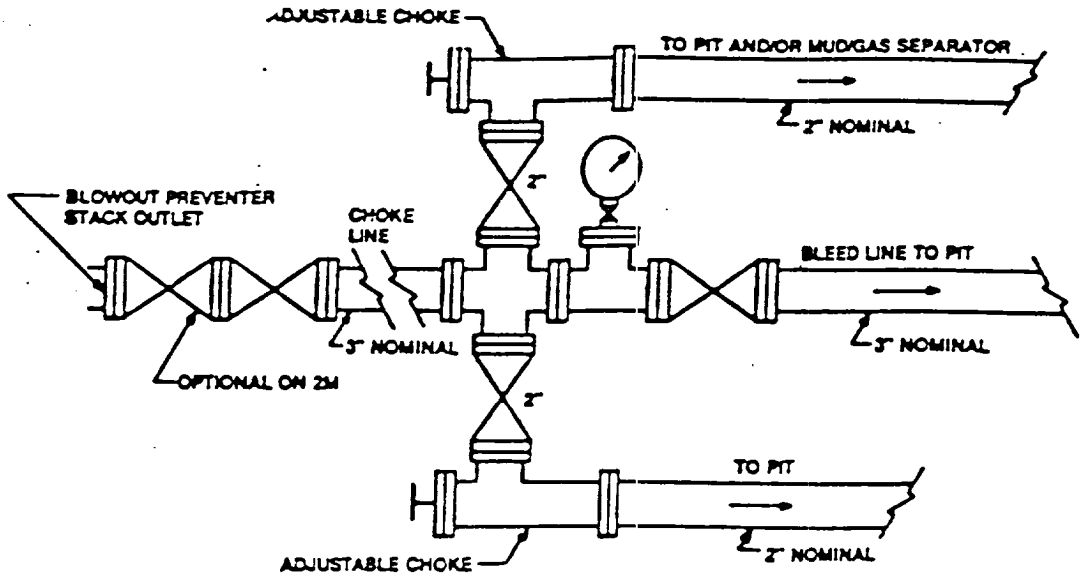


EXHIBIT "F"
ROUTE OF POSSIBLE
POWERLINES & FLOWLINES

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17



Typical choke manifold assembly for 3M WP system

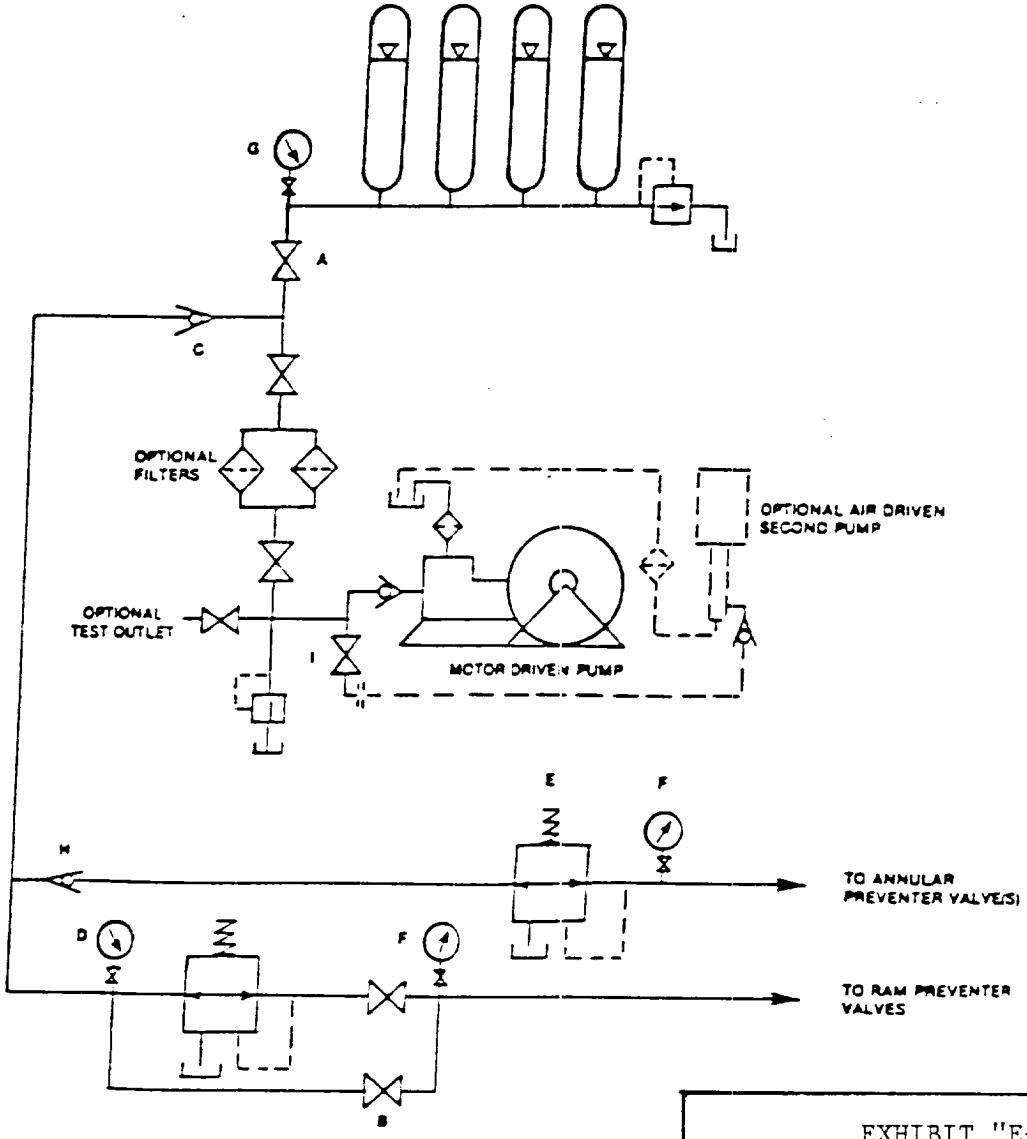
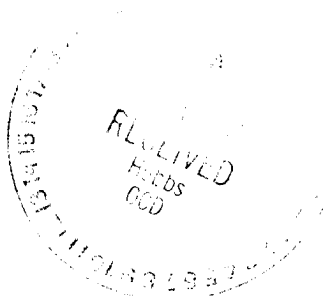


EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

CONCHO RESOURCES, INC.
WEST SHUGART "17" FEDERAL # 2
UNIT "D" SECTION 17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