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<u>IIIN 1 3 200</u>	M : BUREAU O	_AND MANA	GEMENT ARTESIA, NM	85	-CNM-029387	A BERIAL NO.
					6. IF INDIAN, ALLOT	TER OR TRIBE NAME
- Carlabad Flat 6		ERMIT TU	DRILL OR DEEPEN			
1a. TELASUTALKIA. W	RILL	DEEPEN	n .31-1	234565	7. UNIT AGREEMENT	NAME
b. TIPE OF WELL				- 0		11/2/17
	WELL OTHER	11. 11	BINGLE TO MULT		- FARM OR LEASE NAME	WELL NO.
2. NAME OF OPERATOR			N DOPEO	32.2	ST SHUGART	"29" FEDERAL # 8
CONCHO RESOU	RCES, INC. (JIN	1 BLOUNT)	915-683-7443 20 20	VE	AT WELL NO.	
3. ADDRESS AND TELEPHONE NO			A API	£0	3/ 50-0	15-31240
110 WEST LOU			, TEXAS 79701	JA J	10. FIELD AND POOL	
4. LOCATION OF WELL (At surface	Report location clearly and	in accordance wit	th any State requirements.*)		WEST SHUGART-	
1850' FSL & 9	90' FEL SEC. 29	T18S-R31E	EDDY CO. NM	61.81.1	11. BBC., T., R., M., O AND SURVEY OR	B BLK. AREA
At proposed prod. zo	DE SAME	- T			SECTION 29	[18S-R31E
14 1000-000 100 100 100	<u> </u>					
	AND DIRECTION FROM NEAR				12. COUNTY OF PARIS EDDY CO.	
15. DISTANCE FROM PROF		ast of Loco	D Hills New Mexico		ACRES ASSIGNED	NM
LOCATION TO NEARES PROPERTY OR LEASE	LINE, FT.	990'	1280		HIS WELL 4()	
(Also to nearest dr. 18. DISTANCE FROM PRO	lg. unit line, if any) POSED LOCATION®		19. PROPOSED DEPTH	20. 80748	T OR CABLE TOOLS	
	DRILLING, COMPLETED.	132'	6100'		ROTARY	
	when DE PT CR at)		6100	-	22. APPROX. DATE V	VORK WILL START*
		3610' GR.			When approv	
23.	 F	PROPOSED CASE	NG AND CEMENTING PROGRA		1	
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER PO		1	QUANTITY OF CEM	
25"			40 ¹		to surface w	
<u> </u>	<u>20" conductor</u> H-40 13 3/8"	<u>NA</u> 48	760'		cement to su	the second se
11"	K-55 8 5/8"	32	2800'	750 Sx.	11 11	11
7 7/8"	¹ K-55 5 ¹ ₂ "	15.5	6100'		Estimate tor	of cement 3400'
	<u> </u>		0100	<u>pp:://</u>		<u>or coment</u> orio
1. Drill 25"	hole to 40'. Set	40' of 20'	" conductor pipe a	nd cemen	t to surface	with Redi-mix.
		-				
2. Drill $17\frac{1}{2}$	'hole to 760'. R	un and set	760' of 13 3/8" 48	# H-40 S	T&C casing. C	ement with 700
Sx. of Cla	iss "C" cement + 1	2% CaCl, ci	irculate cement to s	surface.		
3. Drill 11"	hole to 2800'. R	un and set	2800' of 8 5/8" 32	∦ K - 55 S	T&C casing. (Cement with 550
/ Sx. of 35	65 POZ Class "C"	+ 12% Salt	:, + ¼# Flocele/Sx.	, +1# Gi	lsonite/Sx.,+	- 6% Bentonite,
tail in wi	th 200 Sx. of Cl.	ass "C" + 2	2% CaCl, circulate o	cement t	o surface.	
4 Dr. 11 7 7	/8" hole to 6100!	Run and e	set 6100' of 5%" 15	.5# K−55	ST&C casing.	Cement with
$ \rightarrow $	0 HOTE CO 0100	• Kun anu 3				i dha bail in
200 Svf	35/65 PO7 +12%	Salt. $+\frac{1}{2}$	Flocele/Sx. + 1# G	ilsonite	/Sx. + 6% Ber	itonite, Lali in
200 Sx. of	35/65 POZ +12%	Salt, + ½3 Premium + a	Flocele/Sx. + 1# G additives. Estimate	top of	/Sx. + 6% Ber cement 3400'	from surface.
Sx. of Cla 3. Drill 11" Sx. of 35/ tail in wi	hole to 2800'. R /65 POZ Class "C" .th 200 Sx. of Cl /8" hole to 6100'	2% CaCl, ci un and set + 12% Salt ass "C" + 2 . Run and s	2800' of 8 5/8" 32 2, + ½# Flocele/Sx. 2% CaCl, circulate of set 6100' of 5½" 15	surface. # K-55 S , +1# Gi cement t .5# K-55	T&C casing. (lsonite/Sx.,+ ο surface. ST&C casing.	Cement with 550 - 6% Bentonite, Cement with

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.

signer fort Jaure	Agent	DATE 06/10/00
(This space for Federal or State office use)		
PERMIT NO		
Application approval does not warrant or certify that the applicant bolds	legal or equitable title to those rights in the subject lease whi	ch would entitle the applicant to conduct operations t
CONDITIONS OF APPROVAL, IF ANY:	Assistant Field Manag	Oer
/S/LARRY D. BRAY	Lands And Minerals	JUL 0 5 2000
APPROVED BY	_ TTLE	DATE
*Sec	APPROVED FOR 1 YEAR	

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 r.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 58211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

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

State of New Mexico

Energy, Minerals and Natural Resources Departmer

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 56410	Pool Name SHUGART-DELAWARE	
Property Code		perty Name	Well Number
24317		RT "29" FEDERAL	8
OGRID No.		rator Name	Elevation
166111		ESOURCES, INC	3610

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	29	18 S	31 E		1850	SOUTH	990	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 of	r Infill Co	nsolidation (Code Or	der No.	·		· · · · · · · · · · · · · · · · · · ·	·
40		i i							

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



VICINITY MAP



 $SCA_E: i'' = 2 MILES$

 SURVEY_____N.M.P.M.

 COUNTY_____EDDY____

 DESCRIPTION 1850' FSL & 990' FEL

 ELEVATION _____3610

 OPERATOR CONCHO RESOURCES, INC.

 LEASE_WEST_SHUGART "29" FEDERAL

SEC. 29 TWP. 18-S RGE. 31-E

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 29 TWP. 18-S RGE. 31-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 1850' FSL & 990' FEL ELEVATION 3610 OPERATOR CONCHO RESOURCES, INC. LEASE WEST SHUGART "29" FEDERAL U.S.G.S. TOPOGRAPHIC MAP HACKBERRY LAKE, N.M. CONTOUR INTERVAL: HACKBERRY LAKE - 10'

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

APPLICATION TO DRILL

CONCHO RESOURCES, INC. WEST SHUGART "29" FEDERAL # 8 UNIT "I" SECTION 29 T18S-R31E EDDY CO. NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

- 1. Location: 1850' FSL & 990' FEL 29 T18S-R31E EDDY CO. NM
- 2. Elevation above sea level: 3610' GR
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5. Proposed drilling depth: 6100'

6.	Estimated	tops	05	geological	markers:
	Queen			3200'	
	San Andres			3790'	
	Delaware			5975 ⁷	

7. Possible mineral bearing formation:

San Andres	Oil
Delaware	Oil

8. Casing program:

<u>Hole size</u>	Interval	Casing OD	Weight	Thread	Collar	Grade
25"	0-40	20"	NA	NA	NA	Conductor
17 ¹ 2''	0-760'	13 3/8"	48#	8-R	ST&C	H-40
11"	0-2800'	8 5/8"	32#	8-R	ST&C	K-55
7 7/8"	0-6100'	5 ¹ 2''	15.5#	8-R	ST&C	K-55

APPLICATION TO DRILL

CONCHO RESOURCES, INC. WEST SHUGART "29" FEDERAL # 8 UNIT "I" SECTION 29 T18S-R31E EDDY CO. NM

9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set760' of 13 3/8" H-40 48# ST&C casing. Cement with 450 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface.
8 5/8"	Intermediate	Set 2800' of 8 5/8" K-55 32# ST&C casing. Cement with 710 Sx. of cement. Lead 510 Sx. of 35/65 POZ Class "C" + 12% Salt + $\frac{1}{2}$ # flocele/Sx. + 1# Gilsonite/Sx. + 6% Bentonite, tail in with 200 Sx. of Class "C" + 2% CaCl circulate cement to surface.
5½''	Production	Set 6100' of $5\frac{1}{2}$ " K-55 15.5# ST&C casing. Cement with 200 Sx. of 35/65 POZ + 12% salt + $\frac{1}{2}$ # Celo flake/Sx. + 1# Gilsonite/Sx. + 6% Bentonite, tail in with 350 Sx. of Class "C" + additives, estimate top of cement3400'.

10. <u>PRESSURE CONTROL EOUIPMENT</u>: Exhibit "E". A Series 900 3000 PSI working pressure B.O.P. consting of a double ram type preventor with a bag type annular preventor. The B.O.P. unit will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. The B.O.P. will be nippled up on 13 3/8" casing and will be operated at least once each 24 hour period while drilling and blind rams will be operated when out of hole on trips. 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 System
40-760'	8.6-9	32-36	NC	Fresh water spud mud add Gel for visc. paper to control seepage & lime for pH control.
760'-2800'	10-10.2	32-36	NC	Brine water add paper to contro Seepage, use high viscosity sweeps to clean hole.
2800-5900'	8.7-9.0	28-30	NC	Cut brine paper to control seepage and sweep hole.
900-6100	8.7-9.0	30-34	10 cc or Less	Cut brine, Gel/Pac system

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

CONCHO RESOURCES, INC. WEST SHUGART "29" FEDERAL # 8 UNIT "I" SECTION 29 T18S-R31E EDDY CO. NM

12. Testing, Logging and Coring Program:

- A. Open hole logs: Gamma Ray Neutron Density Caliper , Laterolog-Micro SFL from TD to 2800'. Gamma Ray Neutron from 2800' to surface.
- B. Mud logger will be placed on well at a depth of 4500' and remain on well to TD.
- C. No DST's are planned, sidewall cores may be taken at thr discretion of the Geologist.

13. Potential Hazards:

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 <u>20</u> 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. H₂S 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.
 - 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 "29" FEDERAL # 8 UNIT "I" SECTION 29 T18S-R31E 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 proposed development well as staked.
 - B. From Loco Hills New Mexico take US Hi-way 82 5.5 miles East to junction with CO road 222 turn south go 7 miles to Grubbs road (CO road 250) turn right go 900' then turn North (Left) 100' to location.
 - C. Lay 3" polyethelene pipeline to transport produced fluids to a common tank battery. Construct a 1250 KV electric power line along road ROW in order to produce oil and gas from this well. w) prove BUM approval Copposed Surdy Notice)
- 2. PLANNED ACCESS ROADS: No additional roads will be needed.
 - 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 None known

CONCHO RESOURCES, INC. WEST SHUGART "29" FEDERAL # 8 UNIT "I" SECTION 29 T18S-R31E EDDY CO. NM

4. If, upon completion this well is a producer Concho Resources, Inc. will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied with a Sundry Notice.

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. $\mathcal{A}^{p_{i}}$

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.

CONCHO 1				
WEST SHUGAR	c "29"	FEDEF	RAL 1	1 8
UNIT "I"		SECT	TION	29
T185-R31E		EDDY	со.	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 entend a minimum of 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 "29" FEDERAL # 8 UNIT "I" SECTION 29 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.

After APD is approved.

Tierra Exploration Inc.Concho. Resources, Inc.P.O. Box 2188110 West LouisianaHobbs, N.M. 88241Suite 410Joe T. JanicaMidland, Texas 79702Office Phone: 505-392-2112Jim Blount 915-683-7442

13. <u>CERTIFICATION</u>: 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:	06/10/00		2 -	· ·
NAME:	JOE T. JA	NICA JE	ept Cf.	oma
TITLE:	AGENT		_ //	

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CONCHO RESOUR	CES, INC.
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