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transmission of the set of t	1s. TYPE OF WORK				•	
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CONCRO RESOURCES, INC. (JIM BLOUNT) 915-683-7443	WELL			BINGLE MULT		
Structure	-	RCES, INC. (JI	M BLOUNT) 915-	683-7443	100.035	
110 WEST LDUISTANK SUTTE 410 MIDLARD, TEXAS /97/01 10, WEST LDUISTANK SUTTE 410 110 WEST LDUISTANK SUTTE 410 MIDLARD, TEXAS /97/01 10, WEST LDUISTANK SUTTE 410 110 WEST LDUISTANK SUTTE 410 MIDLARD, TEXAS /97/01 10, WEST LDUISTANK SUTTE 410 110 WEST LDUISTANK SUTTE 410 TISS-R31E EDDY CO. NUMERAL AND INTERCENT AND TRANSFORMED AND TRANSF					<u>·</u>	30-015-31531
860° FNL & 660° FEL SEC. 17. T19S-R31E EDDY CO. N. ATTENDATION ATTENDED FOR 1000 SALE SAME UNIT A 11 DETAINST IN LAGE ADD DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION 12 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION POST OFFICET 14 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION OF THE POST OFFICET 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION OF THE POST OFFICET 14 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION OF THE POST OFFICET 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OF THE POST OFFICET ATTENDATION OF THE POST OFFICET 14 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION OF THE POST OFFICET 13 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION OFFICET 14 DETAINST REAL TO DIRECTOR MARKET FORM ON POST OFFICET ATTENDATION POST OFFICE OFFICE ADDIAL STATE <t< td=""><td>4. LOCATION OF WELL (</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td> , ,</td><td></td><td></td></t<>	4. LOCATION OF WELL (· · · · · · · · · · · · · · · · · · ·	, ,		
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Approximately 15 miles South Southeast of Loco Hills Network of EDDY CO. NEW MEXICO 15 Difference Filter Processor Filter Processo	At proposed prod. zo	SAME UNIT	A	N 654-	ARTESIA	SECTION 17 T19S-R31E
13. DELEVANCE FOOL PEOPLEGY 18. No. OF ACCESS IN LEASE NEW MEXICO 13. DELEVANCE FOOL PEOPLEGY 18. No. OF ACCESS IN LEASE 10. DELEVANCE FOOL NEW MEXICO 13. DELEVANCE FOOL PEOPLEGY 11. No. OF ACCESS INTO THE DELEVANCE FOOL 320 320 13. DELEVANCE FOOL PEOPLEGY 3300' 12. 900' ROTARY 320 13. DELEVANCE FOOL PEOPLEGY 3300' 12. 900' ROTARY 320 13. DELEVANCE FOOL PEOPLEGY 3475' GR. ROTARY ROTARY 21. LEFANDAS (Sove Vector DF, ET, GR, etc.) 3475' GR. ROTARY ROTARY 22. PROPOSED CASING AND CLEUEN CONTROLLED WATER DATA GEAVETT OF CREATE GEAVETT OF CREATE 23. 20'' Conductor NA 40' Gement to SUFFACE WATER FOOL GEAVETT OF CREATE 23. 172'' H-40 13 3/8'' 48 455' 22 3500' 1200 Sx. circulate cement to SUFFACE with Redi-mix. 24. 172'' N=80, S-95 55'' 17 12. 900' 950 Sx. Estimate top of cement for CREATE 100 Sx. circulate cement to SUFFACE 2. Drill 174'' Hole to 350'. Run and set 3500' of 8 5/8'' J-55 & S80 32# ST&C casing. Cement with 400 Sx. of Class ''C' cement + 2% Cacl, circulate cement tosufface. 3.						
Present of Lass (inter, r. acc) 660' 480 320 18 Description of the last (inter, r. acc) 10 Protocome permit 20 Description of active of activ	15. DISTANCE FROM PROI	PUBED*		<u> </u>	PLEC	EDDY CO. NEW MEXICO
TO SCREET FELLING, CONFERENCE, 3300' 12,900' ROTARY 21. EFFANTIONS (Show whether DF, RT, GR, sec.) 3475' GR. 22. SPENG, DATE WOLK WILL STATE When approved 23. PROPOSED CASING AND CEMENT CONFERENCE CONFERENCE CONTROLLED WATER BACKWOWN (Show whether DF, RT, GR, sec.) 23. SPENG, DATE WOLK WILL STATE When approved 23. PROPOSED CASING AND CEMENT CONFERENCE CONTROLLED WATER BACKWOWN (Show whether DF, RT, GR, sec.) Sec. STEP (Show WILL STATE When approved 23. 20." Conductor NA 40' Generat to surface with Redi- WILL STATE (Show Will State Cement to Surface with Redi- WILL STATE (Show Will State Cement to Surface with Redi- WILL STATE (Show State Cement to Surface with Redi- mix. WTG' 1200 Sx " " " " " " " " " 7.7/8'' N-80, S-95 5½'' 17 12,900' 950 Sx. Estimate top of cement.6000' 1. Drill 25'' hole to 40'. Set 40' of 20'' conductor pipe and cement to surface with Redi-mix. WTG' 475' 2. Drill 17½'' hole to 3500'. Run and set 3500' of 8 5/8'' J-55 & S80 32# ST&C casing. Cement with 1200 Sx. of cement. 1000 Sx. of Class "C" Light + additives, tail in with 200 Sx. of Class "C" + additives. Circulate cement tosusface. 4. Drill 7.7/8'' hole to 12,900'. Run and set 5½'' casing as follows: 3500' of 5½'' S-95 17# LTSC, 6500' of 5½'' N-80 ITTAC, 2900' of 5½'' N-80 Buttress Thread LTSC. Cement with 700 Sx. of Class "H" Premium Light + additives, tail in with 250 Sx. of Class "H" Premium Plus cement + additives. Estimate top of cement 6000' from surface	PROPERTY OR LEASE (Also to mearest dr	LINE, FT. lg. unit line, if any)	660'	480	TOTH	
21. ELFERIDORS (Show whether DF, ET, GR. etc.) 3475' GR. 22. AFFROZ. DATE WORK WILL STATT- When approved 23. PROPOSED CASING AND CEMEN (ANTIMAL CONTROLLED WATER BAGEN) 25." 20." CUNDUCT NA 40." 25." 17.4." H=40.13.3/8" 48. 450" 475." 25." 17.4." H=40.13.3/8" 48. 450" 475." 27." 7.7.8" N=0.895.5.4" 17. 12.900." 950. Sx. Estimate top of cement 6000" 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix. 475' 475' 2. Drill 174." hole to 3500'. Run and set 3500' of 8.5/8" J-55 & 880.32# ST&C casing. Cement with 400 Sx. of Class "C" cement + 22 CaCl, circulate cement to surface. 3. 3. Drill 124." hole to 12.900'. Run and set 55". asing as follows: 3500' of 5½". S=95.17# 1. Trill 7.78" hole to 12.900'. Run and set 55". asing as follows: 3500' of 5½". S=95.17# 1. Trill 7.78." hole to 12.900'. Run and set 55". Casing as follows: 3500' of 5½". S=9.17#	TO NEAREST WELL.	DRILLING, COMPLETED.	.			
3475' GR. When approved 33. The property cases PROPOSED CASES AND CEMENT CONTROLLED WATER BASEN STATE OF ROLE CONTROLLED WATER BASEN 25" Conductor Nater Conductor Mater Conductor Comment to Surface With Redismits 77/8" N=00 520 Sx. Estimate top of cement 6000' The Conductor pipe and cement to surface THE Conductor Conductor 7/8" Not conductor Conductor Cond		J.	500	12,900		
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25" 20" conductor NA 40" Cement to surface with Section 17½" H=40 13 3/8" 48 450" Cement to surface with Redi-mix 12½" J=55,5-80 8 5/8" 32 3500' 1200 Sx """"""""""""""""""""""""""""""""""""			PROPOSED CASING ANI	CEMENT CAPITAL	CONTR	OLLED WATER BASIN
17½" H-40 13 3/8" 48 450* 475' 400 Sx. circulate centility outface 12%" J-55,S-80 8 5/8" 32 3500' 1200 Sx """"""""""""""""""""""""""""""""""""		-	WEIGHT PER FOOT			
124" J-55,S-80 8 5/8" 32 3500' 1200 Sx """"""""""""""""""""""""""""""""""""		- /	and the second	the second se		
1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix. 475' 475' of 13 3/8" H-40 43# ST&C casing. Cement with 400 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface. 3. Drill 12½" hole to 3500'. Run and set 3500' of 8 5/8" J-55 & S80 32# ST&C casing. Cement with 400 Sx. of Class "C" tement + 2% CaCl, circulate cement to surface. 3. Drill 12½" hole to 3500'. Run and set 3500' of 8 5/8" J-55 & S80 32# ST&C casing. Cement with 1200 Sx. of cement. 1000 Sx. of Class "C" Light + additives, tail in with 200 Sx. of Class "C" + additives. Circulate cement tosusface. 4. Drill 7 7/8" hole to 12,900'. Run and set 5½" casing as follows: 3500' of 5½" S-95 17# LT&C, 6500' of 5½" N-80 17 LT&C, 2900' of 5½" N-80 Buttress Thread LT&C. Cement with 700 Sx. of Class "H" Premium Light + additives, tail in with 250 Sx. of Class "H" Premium Plus cement + additives. Estimate top of cement 6000' from surface to the SUBERT TO COMENT SAME STATE ADDITIONAL DATE A		J-55,S-80 8 5/8				
 2. Drill 17½" hole to 490". Run and set 495" of 13 3/8" H-40 48# ST&C casing. Cement with 400 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface. 3. Drill 12½" hole to 3500'. Run and set 3500' of 8 5/8" J-55 & S80 32# ST&C casing. Cement with 200 Sx. of Class "C" + additives, tail in with 200 Sx. of Class "C" Light + additives, tail in with 200 Sx. of Class "C" + additives. Circulate cement tosusface. 4. Drill 7 7/8" hole to 12,900'. Run and set 5½" casing as follows: 3500' of 5½" S-95 17# LT&C, 6500' of 5½" N-80 17 LT&C, 2900' of 5½" N-80 Buttress Thread LT&C. Cement with 700 Sx. of Class "H" Premium Light + additives, tail in with 250 Sx. of Class "H" Premium Light + additives, tail in with 250 Sx. of Class "H" Premium Plus cement + additives. Estimate top of cement 6000' from surface State Sta	7 7/8"	'N-80,S-95 5 ¹ ₂ "	17	12,900*	950 Sx.	Estimate top of cement_600
A A BOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed of the state of t	 Drill 17¹/₂" Sx. of Class Drill 12¹/₄" with 1200 s Class "C" - Drill 7 7/8 LT&C, 6500" of Class "H 	479' hole to 450'. Ru ss "C" cement + 2 hole to 3500'. F Sx. of cement. 10 + additives. Circo 8" hole to 12,900 of 5½" N-80 17 4" Premium Light	475' an and set 455' 2% CaCl, circula Run and set 3500 000 Sx. of Class culate cement to '. Run and set LT&C, 2900' of + additives, ta	of 13 $3/8"$ H-4 ate cement to s)' of 8 $5/8"$ J- s "C" Light + a osumsface. $5\frac{1}{2}"$ casing as $5\frac{1}{2}"$ N-80 Buttra il in with 250	0 48# ST urface. 55 & S80 dditives follows: ess Threa Sx. of o rface.	&C casing. Cement with 400 32# ST&C casing. Cement , tail in with 200 Sx. of 3500' of 5½" S-95 17# ad LT&C. Cement with 700 Sx Class "H" Preimum Plus
(This space for Federal or State office use) PERMIT NO.	N ABOVE SPACE DESCRIBI eepen directionally, give period	E PROPOSED PROGRAM: If protections	oposal is to deepen, give data and measured and true vertical	on present productive zone depths. Give blowout preve		MAL STIDII ATIONS
(This space for Federal or State office use) PERMIT NO.	SIGNED	el fone	Ca TITLE Ag	gent		DATE 11/24/00
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:	(This space for Feder					
Application approval does not warrant or certify that the applicant bolds 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:	PERMIT NO.	/		APPBOVAL DATE		
CURICE 2000) EDEN OF SIMPTY SECOND Land Stimerals JAN 3.9 2001 APPROVED BY DATE DATE DATE		ot warrant or certify that the applic			case which would	d entitle the applicant to conduct operations thereon.
APPROVED BY DATE DATE					N.* .	JAN 3.8 mint
	APPROVED BY			Pavara Sida		

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 folce figurations as to any matter within its includiation

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

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

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

DISTRICT IV P.0. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

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

	Pool Name	
80840	LUSK WEST-MORROW	
-	erty Name	Well Number 3
-		Elevation 3475
Surfac	e Location	
	Prope RANGER "17" Opera CONCHO RE	Property Name

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
А	17	19 S	31 E		860	NORTH	660	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 o	r Infill Con	nsolidation (Code Or	der No.	I	L		l <u></u>
320									

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 herein is that and compute to the set of my knowledge and belief. 3465.9:	· · · · · · · · · · · · · · · · · · ·				
contained Averia is true and complete to the best of my knowledge and belief. 1 0 + 660					OPERATOR CERTIFICATION
3465.8' 3477.9' best of my knowledge and belief. 1 0<++660'-				- 09	
1 C=+660'- 3469.9' -3472.0' Signature Joe T. Jenica Printed Name Agent Title 11/24/00 Date SURVEYOR CERTIFICATION I hereby certify that the will location shown m this plat was platted from field notes of actual reveys made by me or under my supervision and that the same is true and correct to the best of my belief. NOVEMBER 17, 2000 Date Surveyed JLP Signature & Seel of Professional Surveyor JLP Nowline Europic Number of the set of my belief. MONUM Europic Number of States of the set of my belief. NOVEMBER 17, 2000 Date Surveyed JLP Signature & Seel of Professional Surveyor Microsophic States of the set of my belief. NOVEMBER 17, 2000 Date Surveyed JLP Signature & Seel of Professional Surveyor Microsophic Network of the set of my belief. NOVEMBER 17, 2000 Date Surveyed JLP Signature & Seel of Professional Surveyor Microsophic States of States States of States of Stat		1	•	õ	contained herein is true and complete to the
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Jakes. 5' Javz.o' Signature Joe T. Jenica Printed Name Agent Title Title I./24/00 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on that the some is true and or use pictud from field notes of water value of the some is true and ONVEMBER 17, 2000 Date Surveyed Signature & Seal of Professional Surveyor MMULL Euron ///20/00 W.O. Num. 00-11			1		
Signature Joe T. Jenica Printed Name Agent Tile 11/24/00 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervisors and that the same is true and correct to the best of my belief. NOVEMBER 17, 2000 Date Surveyed Signature & Seal of Professional Surveyor MMML E. Line: Microlos W.O. Nurn. 00-1F-1383 Certificate No. RONAD J. EDSON, 3239				I 0	
Signature Joe T. Jefnica Printed Name Agent Title 11/24/00 Date SURVEYOR CERTIFICATION 1 hereby certify that the well location shown on this plat was plotted from field notes of actual serveys made by me or under my supervision and that the some is true and correct to the best of my beinf NOVEMBER 17, 2000 Date Surveyor NOVEMBER 17, 2000 Dete Surveyor Signature & Seal of Professional Surveyor W.O. Murn. 00-1F-3383 Certificate No. ROMAD d. EDSON, 3239		1			$\Gamma / \Gamma / \Gamma$
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Jue T. Janica Printed Name Agent Tue 11/24/00 Date SURVEYOR CERTIFICATION / hereby certify that the well location shown on this plotted from field notes of actual reveys made by me or under my supervison and that the same is true and correct to the best of my belief NOVEMBER 17, 2000 Date Surveyed JLP Signature & Seal of Professional Surveyor Professional Surveyor Professional Surveyor Professional Surveyor Professional Surveyor Professional Surveyor Professional Surveyor Professional Surveyor W.O. Murn. 00-1F-31383 Certificate No. RONAD J. EDSON, 3239					Signature
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Title 11/24/00 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field nodes of well was possible dryme or under my supervision, and that the some is true and correct to the best of my belief. NOVEMBER 17, 2000 Date Surveyed JLP Signature & Seal of Professional Surveyor W.O. Nurn. 00-11-3183 Certificate No. RONALD.d. EDBON. 3239					Printed Name
11/24/00 Date SURVEYOR CERTIFICATION 1 hereby certify that the well location shown on this plat was plotted from field notes of supervision and that the same is true and correct to the best of my beief. NOVEMBER 17, 2000 Date Surveyed JLP Signature & Seal of Professional Surveyor Month Heighton 1/20/00 W.O. Num. 00-11-3383 Certificate No. RONAD of EDSON, 3239					Agent
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VICINITY MAP



SEC. <u>17</u> TWP.<u>19–S</u> RGE.<u>31–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>860' FNL & 660' FEL</u> ELEVATION <u>3475</u> OPERATOR <u>CONCHO RESOURCES, INC.</u> LEASE <u>RANGER "17" FEDERAL COM.</u>

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. <u>17</u> TWP. <u>19-S</u> RGE. <u>31-E</u> SURVEY_____N.M.P.M. COUNTY____EDDY____ DESCRIPTION 860' FNL & 660' FEL ELEVATION ______ 3475 OPERATOR _____ CONCHO RESOURCES, INC. LEASE RANGER "17" FEDERAL COM. U.S.G.S. TOPOGRAPHIC MAP HACKBERRY LAKE, N.M.

CONTOUR INTERVAL - 10'

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

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: 860' FNL & 660' FEL SEC. 17 T19S-R31E EDDY CO. NM
- 2. Elevation above Sea Level: 3475' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
- 5. Proposed drilling depth: 12,900'
- 6. Estimated tops of geological markers:

Rustler Anhydrite	400'	Wolfcamp	10,025'
Yates	2250'	Strawn	10,950'
Bone Spring	6750'	Morrow	12,000'

7.	Possible mineral beari	ng formations:		
	Bone Spring	Oil	Strawn	Gas
	Wolfcamp	Oil	Morrow	Gas

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade	
25"	0-40	20''	NA	NA	NA	Conductor	
17 ¹ /2"	0-450	13 3/8"	48	8-R	ST&C	H-40	
12¼"	0-3500'	8 5/8	32	8-R	ST&C	J-55	
7 7/8"	0-12,900'	5 ¹ ₂ "	17	8-R & Butress	LT&C	S-95 N-80	

• '

9. Cementing and Setting Depth:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 450' of 13 3/8" H-40 48# ST&C casing. Cement with 400 Sx of Class "C" + 2% CaCl, circulate cement to surface.
8 5/8"	Intermediate	Set 3500' of 8 5/8" $32\#$ J-55 ST&C casing. cement with 1200 Sx. of Class "C" cement. 1000 Sx. of Halco Light + additives, tail on with 200 Sx. of Class "C" + $\frac{1}{4}\#$ Flacele/Sx. + 2% CaCl, circulate cement to surface.
5½"	Production	Set 12,900' of $5\frac{1}{2}$ " casing as follows: 3500' of $5\frac{1}{2}$ " S-95 17# LT&C, 6500' of N-80 17# LT&C, 2900' of $5\frac{1}{2}$ " N-80 17# Butress thread. Cement with 700 Sx. of Class "H" Premium Light + additives, tail in with 250 Sx. of Class "H" Premium Plus + additives. Estimate top of cement 6000' from surface.

10. <u>Pressure Control Equipment:</u> Exhibit "E". A 1500 Series 5000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. BOP 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.

11. Proposed Mud Circulating System:

Depth	Mud Wt.	Visc:	- Fluid Loss	Type Mud
40-450'	8.4-8.7	29-34	NC	Fresh water Spud mud add paper to control seepage.
450-3500'	10.2-10.4	29-36	NC	Brine water add paper to control seepage and Lime to control pH, use high viscosity sweeps to clean hole.
3500-11,000'	"	11	11	Same as above
11,000-12,900'	10.2-10.6	30-40	10 cc or less	Brine water add Salt Gel for for viscosity, & lime for pH control, use Starch for water loss control.

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

12. TESTING, LOGGING, & COREING PROGRAM:

- A. Open hole logs: Dual-LaterOlog, CNL, LDT, Density, Gamma Ray Caliper from TD to 3500'. run Gamma Ray, Neutron from 3500' to surface.
- B. Mud logger will be rigged up on hole when the geologist deems it approiate.
- C. DST's and Cores will be taken as 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 of unsafe levels of H_2S . No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operations of all equipment that will be used. Estimated BHP 6250 PSI & estimated BHT 185°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Roads and location construction will begin after the BLM approves the APD. Anticipated spud date will be as soon as pad & road construction has been completed. Drilling time for the well is estimated to take <u>45-50</u> days. If production casing is run an additional <u>30</u> days will be required to complete well and construct surface facilities.

15. OTHER FACETS OF OPERATION:

After running production casing, cased hole Gamma-Neutron & Collar logs will be run over all possible pay intervals. If commercial production from the <u>Morrow</u> pay is indicated it will be perforated and stimulated. Then if necessary the pay will be swab tested and completed as a gas well.

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S 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.

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- 1. <u>EXISTING ROADS</u>: Area maps, <u>Exhibit</u> "B" is a reproduction of a County General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. From Loco Hills New Mexico take U.S. Hi-way 82 East 5+ miles to Co-Road 222 turn South (Right) go 10 miles turn West (Right) go .5+ miles bear Southwest (Right), go .4 miles bear West (Right) follow road .5 miles to location on the South side of road.
 - C. Flow lines and powerlines will be constructed along road R-O-W's.
- 2. PLANNED ACCESS ROADS: Approximately .5 miles of road will be upgraded.
 - A. The access road will be crowned and dirched to a 12'00" wide travel surface with a 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 Topography.
- 3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"

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

:

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.

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 quarters 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 Ports-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:

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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.

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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.

- 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. P.O. Box 2188 Eobbs, N.M. 88241 Joe T. Janica Office Phone: 505-391-8503

Concho. Resources, Inc. 110 West Louisiana Suite 410 Midland, Texas 79702 Erick Nelson 915-683-7443

13. <u>CIRTIFICATION</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.

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- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas
- Remote BOP Closing Unit
- □ Sign and Condition Flags

EXHIBIT "D"



ARRANGEMENT SRRA

1500 Series 5000 PSI WP

SKETCH	EXHIB OF B.O.	IT "E" P. TO	SED ON	
RANO UNIT	NCHO RES GER "17" I "A" S-R31E	FEDER SEC	# 3 17	









FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT "E-1"							
CHOKE	MANIFOLD	&	CLOSING	UNIT			
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	ANGER "17'		-				
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