1	•	Now Me	OPER OGRES	NO 1934 DT	article and a second		
L	Form 3160-3 July 1992)		PROPERTY NO		e)	FORM APPROVED OMB NO. 1004-0136	
		DEPARTMEN	POOL CODE_	49780	•	Expires: February 28, 1995 5. LEASE DEBIGNATION AND BEBIAL NO	
		BUREAU OF	RFF. DATE	4/29/02		NM-56263	
		ICATION FOR F	APINO. 30	-025-358	47	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
	1a. TYPE OF WORK DR b. TYPE OF WELL	NLL 🗵	DEEPEN 🗌	· -		7. UNIT AGREEMENT NAME	
• •	WELL XX	OAS OTHER		SINGLE X ZO		8. FARM OR LEASE NAME, WELL NO.	
	2. NAME OF OPERATOR CONCHO OIL &	CAS INC	CORC MIT	KES 915-683-744	2)	SUN PEARL FEDERAL # 5	
	3. ADDRESS AND TELEPHONE NO.						
	110 WEST LOUI	SIANA SUITE 410 Report location clearly and		XAS 79701 (915-	683-7443)		
	At surface	00' FNL SEC. 28		17	nit A	PEARL - QUEEN 11. SEC., T., B., M., OB BLK. AND SUBYEY OF ABEA	
	At proposed prod. zo		- .	Controlled Water B.	aalm	SECTION 28 T19S-R34E	
		AND DIRECTION FROM NEAR	EST TOWN OR POST O	FFICE*	(24(985)) 2	12. COUNTY OR PARISH 13. STATE	
		30 miles Southw				LEA CO. NM.	
	15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dri	T LINE, FT.	990'	6. NO. OF ACRES IN LEASI 320		DF ACRES ASSIGNED	
	18. DISTANCE FROM PROD	POSED LOCATION* DRILLING, COMPLETED, 1				ROTARY OR CABLE TOOLS ROTARY	
	21. ELEVATIONS (Show wh	nether DF, RT, GR, etc.)	3727' GR.		I	22. APPROX. DATE WORK WILL START WHEN APPROVED	
	23.		PROPOSED CASING	AND CEMENTING PROC	GRAM		
	SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
	25"	Conductor	NA	40'		to surface with Redi-m:	
	121/2"	J-55 8 5/8"	32	1350'		. circulate to surface	
	77/8"	J-55 5 ¹ / ₂ "	15.5	5200'	700_S×	. circulate to surface.	
	Redi-mix. 2. Drill 124" with 450 S of Class " 3. Drill 7 7/ with 275 S tail in wi	' hole to 1350'. 5x. of 35/65 POZ 'C'' cement + 2% ('8" hole to 5200' 5x. of 50/50 POZ	Run and set + 6% Gel + ½ CaCl, circula . Run and se + 10% Gel + Lass "C" + fl	1350' of 8 5/8" # Flocele/Sx. + te cement to su t 5200' of 5½" 5% Salt + 3# Gi uid loss additi	32# J-55 2% CaCl, rface. 15.5# J-5 lsonite/S ve + disp	ST&C casing. Cement tail in with 200 Sx. 55 ST&C casing. CEment tx. + ½# Flocele/Sx, tersant + 5% Salt,	
_	IN ABOVE SPACE DESCRIB deepen directionally, give perti 24.		MENTSAND MENTSAND Mangductive zone. If proposal is to drill or Many. 82 21 91 91 91				
-	SIGNED ACCT	Jann	CA TITLE.	Agent		DATE03/11/02	
	(The space for Fede	ral of State office use)					
	PERMIT NO.			APPROVAL DATE			
	Application approval does r CONDITIONS OF APPROVAL		icant holds legal or equital	ole title to those rights in the sub	ject lease which we	uld entitle the applicant to conduct operations them	
		/S/ JOE G. LAP	RA ACTIN	FIELD MANA	GER	DATE APR 2 4 2002	
	APPROVED BY		TITLE	uns On Reverse Side			

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DISTRICT	I		
P.O. Box 1980,	Hobbs,	ым	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

WELL LOCATION AND ACREAGE DEDICATION PLAT

State of New Mexico

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

1

Pool Code	Pool Name		
49780	PEARL-QUEEN		
	erty Name	Well Number	
SUN PEA	RL FEDERAL	5	
		Elevation	
CONCHO OIL &	GAS CORPORATION	3727'	
)	49780 Prop SUN PEA Oper		

Surface Location UL or lot No. Feet from the North/South line East/West line Section Lot Idn Feet from the County Township Range 19-S 28 34-E 990 NORTH 990 EAST LEA А

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 Acr	es Joint o	r Infill Co	nsolidation (Code Ore	der 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

OPERATOR CERTIFICATION
I hereby certify the the information
on contained herein is true and complete to the
best of my knowledge and belief.
37216 3726.9
990'
1 ant anele
37190- 17250' Signature
Joe T. Janica
Printed Name
Agent
Title
Title 03/11/02 329 30 31
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 for under my supervison, and that the same is true and
correct to the best of my belief.
61.81 21.91.91.01.0
FEBRUARY 19, 2002
Date Surveyed
Signature & Sent of (
Professional Surveyor
E MELON MELON
A CONTRACTOR OF THE OF
1 ave 11 torn 2/20/02
02.11.0142
Certificate No. RONALD & EDSON 3239
Certificate No. RONALD J. EDSON 3239
nico cary subson 12641





State Lease - 4 Copies Fee Lease - 3 Copies

VICINITY MAP



SEC. <u>28</u> TWP.<u>19–S</u> RGE. <u>34–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>990' FNL & 990' FEL</u> ELEVATION <u>3727'</u> OPERATOR <u>CONCHO OIL & GAS CORP</u>ORATION LEASE SUN PEARL FEDERAL

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





IRONHOUSE WELL, N.M.

APPLICATION TO DRILL

CONCHO OIL & GAS CORP SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA 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' FEL & 990' FNL SEC. 28 T19S-R34E LEA CO. NM
- 2. Elevation above Sea Level: 3727' 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: 5200'
- 6. Estimated tops of geological markers: Bustler Aphydrite 1500'

Rustler Annyarite	1500		
Yates	3590'	Queen	4550 '
7 Rivers	3896'	Penrose	4788 '

- 7. Possible mineral bearing formations:
 - Queen 0il Penrose 0il
- 8. <u>Casing program</u>:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
						. C.
25"	0-40'	20.''	NA	NA	NACOLE	Conductor
12 ¹ ₄ ''	0-1350'	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-5200'	5 ¹ 2"	15.5	8-R	ST&C	J-55

Yates

APPLICATION TO DRILL

CONCHO OIL & GAS CORP SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA CO. NM

9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
8 5/8 <u>"</u>	Surface	Set 1350' of 8 5/8" 32# J-55 ST&C casing. Cement with 450 Sx. of 35/65 Class "C" POZ + 6% Gel + ½# Flocele/Sx. + 2% CaCl, tail in with 200 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface.
5½''	Production	Set 5200' of 5½" 15.5# J-55 ST&C casing. Cement with 275 Sx. of Class "C" 50/50 POZ + 10% Gel + 5% Salt + 3# Gilsonite/Sx. + ½# Flocele/Sx., tail in with 425 Sx. of Class "C" cement + fluid loss material + dispersant + 5% Salt, circulate cement to surface. LEACDA



10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
				1.2 50 87 Solo
40-1350'	8.5-8.7	29-38	NC	Fresh water spud mud add
				paper to control Seepage
				use high viscosity sweeps
	-			to clean hole
1350-4000'	9.8-10.2	29-38	NC	Brine water use paper to
				control seepage.
			15 cc or	- 82 21 94 51
4000-52 00'	10.0-10.2	29-38	less	Brine water add Salt water
			1000	Gel for viscosity and starch
				to control water loss. Use
				high viscosity sweeps to
				clean hole.

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 viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

CONCHO OIL & GAS CORP SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Laterolog, LDT, CNL, Caliper, Gamma Ray from TD back to 1350'. Gamma Ray, Neutron from 1350' back to surface.
- B. No cores or DST's are planned at this time.

Mud logger may be placed on hole at the Geologist's direction.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H^2S in this area. If H^2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP <u>2400</u> PSI, and Estimated BHT <u>135°</u>.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 20 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be trun from TD back to all possible productive zones. The <u>QUEEN</u> formation will be perforated and stimulated in order to establish production. 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 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 of Stat
 - 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.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 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 OIL & GAS CORP. SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA CO. NM

- EXISTING ROADS & PROPOSED ROADS: Area maps; Exhibit "B" is a reproduction of a County General Hi-way Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing 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 Hobbs take U.S. Hi-way 62-180 West toward CArlsbad New Mexico go 28± miles turn North on to lease road go 1.1 miles turn East go 1000' to well # 1 turn North go 1400' to well # 3 bear Northeast go 1250' to location.
 - C. Flow lines and powerlines will be laid and constructed along road R-O-W from well to tank battery. See Exhibit "F".

2. PLANNED ACCESS ROADS: Approximately 1250' of new road will be constructed.

- A. The access roads will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
- B, Gradient of all roads will be less than 5.00%.
- C. If turn-outs are necessary they will be constructed.
- D. If needed roads will be surfaced with a mimimum of 4" of caliche. This material will be obtained from a local source.
- E. Center-line for new roads will be flagged. Earth-work will be wild be done as field conditions require.
- F. Culverts will be placed in the access road if they are necessary. The roads will be constructed to utilaze low water crossings for drainage as required by topography.
- 3. LOCATIONS OF EXISTING WELLS IN A ONE MILE RADIUS. EXHIBIT "A-1"

A. Water wells	None known
B. Disposal wells	One approximately 1000' Northwest of location
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 OIL & GAS CORP. SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA CO. NM

4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Possible routes of pipelines, flowlines and powerlines are 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 to location in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

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

7. METHODS OF HANDLING WASTE MATERIAL:

A. Drill cuttings will be disposed of in the reserve pits.

- B. All trash, junk and other waste material will be contained in trash cages or trash 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 the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.

CONCHO OIL & GAS CORP. SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA 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.

SURFACE USE PLAN CONCHO OIL & GAS CORP. SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA 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 Oil & Gas Corp. 110 Louisiana Suite 410 Midland, Texas 79701 Greg Wilks Phone 915-683-7443

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 an 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 Oil & Gas Corp. 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:	_03/11/02	\square	
NAME:	JOE T. JANICA	400	T Janua
TITLE:	AGENT		\mathcal{O}

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900 Series 3000 PSI WP

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

CEL 8. 119

CONCHO OIL & GAS CORP. SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S- R34E LEA CO. NM



Section K4

• Page 2



REVENTION

EQUIPMENT Choke Manifolds







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

> EXHIBIT "E-1" CHOKE MANIDOLD & CLOSING UNIT

> > CONCHO OIL & GAS CORP. SUN PEARL FEDERAL # 5 UNIT "A" SECTION 28 T19S-R34E LEA CO. NM

