Form 3160-3 (July 1992)	DEPARTMEN BUREAU O	TED STATES T OF THE INT F LAND MANAGEM	ENT	tructions on	
Ia. TYPE OF WORK	LICATION FOR F		LL OR DEEPEN	<u> </u>	30-015-29964 7. UNIT AORDEMENT NAME
b. TYPE OF WELL OIL WELL	GAS X OTHER		SINGLE MUL ZONE ZON		8. FARM OR LEASE NAME, WELL NO. USA "9" Federal Com
Chi Operati	ng, Inc.	4378	915/685	-5001	9. API WELL NO.
3. ADDRESS AND TELEPHONE N		7570			2 222221
P. O. Box 1	799	Midlan	nd, Texas 79'		10. FIELD AND POOL, OR WILDCAT
At surface	1111 0 0 20 1	d in accordance with an FEL Ut A	y State requirements :	5 17 18 19 30 S	Burton Flat Morrow 11. SBC., T., R., M., OR BLE. AND SURVEY OR AREA
4. DISTANCE IN MILES	Same	REAT TOWN OR POST OF		997	Sec. 9-T20S-R28E
	N of Carlsbad				Eddy New Mexic
15. DISTANCE FROM PRO Location to Near Property or Lease	PUSED*		NO. OF CERES IN TRANS		ACRES ASSIGNED HIS WELL 320
18. DISTANCE FROM PRO TO NEAREST WELL, OR APPLIED FOR, ON T	DRILLING, COMPLETED,	2701′	TROPOSET DEPTH	20. 000	RT OR CABLE TOOLS Rotary
1. ELEVATIONS (Show w	whether DF, RT, GR, etc.)		30.5	000	22. APPROX. DATE WORK WILL START*
3274′	GL				December 15, 1997
3.		PROPOSED CASING A	ND CEMENTING PROG	RAM	
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT

350'

- Vis.

34 - 36

28 - 29

28 - 29

36 - 40

3,200'

11,500'

Mud Wt.

8.6-9.0 ppg

10.0-10.2 ppg 10.0-10.2 ppg

10.0-10.5 ppg

BOP	Program:

(0^{n!}

Mud Program

0' -

13

8

5 1/

350' - 3,200': Cut Brine:

3/8"H-40

2"J-55

350' : Fresh water Gel/Lime:

5/8"J-55

3,200' - 10,500': Cut Brine, seep. control:

10,500' - 11,500': Brine seep. control:

A 11" 5000 psi wp Shaffer Type LWS BOP will installed on the 13 3/8" casing. Casing and BOP will be tested before drilling out with 11"and will be tested daily.

.0#

15.5/17#

32.0#

*as required

48

Posted ID-1 NA & API 12-29-97

"C"

"<u>C</u>"

stage tieback 1595 sx "H"

335 sx

Circ. 605 sx

- W/L Control

No W/L control

No W/L control

No W/L control

W/L control 10cc+/-

VISI	
NAL	DESCRIPE

APPROVED BY

/2"

7/8"

Circ.

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. BIGNED	Deurge Amith	Agent for: Chi Operating, Inc.	DATE NOV. 25, 1997
(This e	space for Federal or State office use)		
PERMIT	NO	APPROVAL DATS	
Applicatio	on approval does not warrant or certify that the applicant holds h	egal or equitable title to those rights in the subject lease which would en	stitle the applicant to conduct operations there

CONDITIONS OF APPROVAL, IF ANY:

AON.	MINERALS		,	
		•	10/10	lan
		DATE	12/12	197
	• ·		1	1.1

*See Instructions On Reverse Side

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.

ERGUSON

TITLE

01

BCSMELL OFFICE

.

4 + 4 Z j

199 10 26 × 10: 03

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DIST	RIC	TI		
P.O.	Box	1980.	Hobbs.	NM

M 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

State of New Mexico energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND AC	REAGE DEDICATION PLAT
----------------------	-----------------------

., Aztec, NM 87410							115-29	964
<u> </u>		<u>,,,_</u>	Lease				Well No.	
PERATING, IN	С		USA	A ''9'' FEDE	RAL COM.		2	
Section	Township		Range			County		
9	20	SOUTH	28	EAST	NMPM	EDDY	COUNTY,	NM
ation of Well:							_	
feet from the	NORTH	line and	51	0	feet from	the EAST	IIIIC	
	ng Formation		Pool					reage:
Mo	RIOM		Burto	n F lat Mor	row		320	Acres
e than one lease is de e than one lease of di tion, force-pooling, <u>e</u>	dicated to the well, fferent ownership is tc.7	outline each an s dedicated to th	d identify the or he well, have the	vnership thereof (interest of all ow	both as to work			
is "no" list the owne	rs and tract descrip	tions which hav	e actually been	consolidated. (Us			ng or otherwise)	
non-standard unit, el	iminating such inte	rest, has been aj	oproved by the I	Division.		OPERAT	TOR CERTIF	TCATION
				etal	510:	contained here best of my know Signature <u>Here</u> Printed Name George R Position Agent fo Company Chi Oper Date November SURVE I hereby certi on this plat actual survey supervison, a	in in true and bledge and belie; . Smith r: ating, Ir c 25, 199 YOR CERTI fy that the we was plotted fro s made by n nd that the se	complete to the f. Succ FICATION Il location shown orm field notes of the or under my ame is true and
				N		belief. Date Surveyed APRIL Signature & Professional	9, 1994 effor E D 0 W MEXICO 3412	
	PERATING, IN Section 9 ation of Well: feet from the Producin Mo e the acreage dedicate e than one lease is dee e than one lease of dif tion, force-pooling, et Yes 'is "no" list the owne if neccessary. able will be assigned	All Dis PERATING, INC Section Township 9 20 ation of Well: feet from the NORTH Producing Formation MORTOW e the acreage dedicated to the subject we e than one lease is dedicated to the well, e than one lease of different ownership is tion, force-pooling, etc.? Yes No If ar is "no" list the owners and tract descrip if neccessary. able will be assigned to the well until all	All Distances must be PERATING, INC Section Township 9 20 SOUTH ation of Well: feet from the NORTH line and Producing Formation MORTOW e the acreage dedicated to the subject well by colored pe e than one lease is dedicated to the well, outline each an e than one lease of different ownership is dedicated to the tion, force-pooling, etc.? Yes No If answer is "yes" ty is "no" list the owners and tract descriptions which hav if neccessary. able will be assigned to the well until all interests have I non-standard unit, eliminating such interest, has been ap	Aztec, NM 87410 All Distances must be from the outer out	All Distances must be from the outer boundaries of it PERATING, INC Section Secti	All Distances must be from the outer boundaries of the section PERATING, INC Lease Section Township 9 20 SOUTH 28 EAST NMPN ation of Well: feet from the feet from the NORTH Incention Section Producing Formation Pool MORROW Burton Flat Morrow e the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. e than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to work e than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidation is "bo" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of in necessary	All Distances must be from the outer boundaries of the section PERATING, INC Lease USA "9" FEDERAL COM. Section 9 20 SOUTH 28 EAST NHPM EDDY ation of Well: feet from the NORTH line and 510 feet from the EAST Producing formation Pool MORTOW Burton Flat Morrow at he acreage dedicated to the subject well by colored pencil or hachure murks on the plat below. e that one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and the townership is dedicated to the well, have the interest of all owners been consolidated by com tion, force-pooling, etc. 7 Yes No If answer is "yes" type of consolidated. (Use reverse side of is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of is moen-standard unit, eliminating ruch interest, has been approved by the Division. NN(14-132.32 Chi Energy, Inc., etal NN-16101 Company Chi Company Chi Company Chi Company Chi Company Chi Energy NN-16101 Chi Energy	An Distances must be non-like out concluses of the sector. SD-UNTLAL PERATING, INC Lase USA "9" FEDERAL CON. 2 Section Township 20 SOUTH Rage County 9 20 SOUTH 28 EAST NMM EDDY COUNTY, ation of Well: Ine and 510 feet from the EAST Ine feet from the NORTH Ine and 510 feet from the EAST ine or lease is dedicated to the subject well by colored pecil or hachure marks on the plat below. 8 than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royally). 8 than one lease is dedicated to the well, have the linkerst of all owners not pecil decirptions within the sectual base consolidated. (Use reverse side of if accessary. ino If answer is "yes" type of consolidation if accessary. in accessary. Interest, has been approved by the Division. OPERATOR CERTIF I have a part base approved by the Division. OPERATOR CERTIF I have been approved by the Division. Survey made blig Survey made blig Survey made blig NH-132.32 Ch1 Energy Inc. etal Survey made blig NH-16101 Chi Energy NH-16101 Date Survey made blig NH-16101 Chi Energy Date Survey made ff or or high base of the set of or base of the set o

* All B.O.P equipment is H25 Trim * * All Accumulations are Koomey Type-80 : Dual Power Electric/Air * * Choke Menifold: * See sheat 2 4* Valves : Cameron F/FC, Shaffer DB Hydraulic

2' Check Valve: Cameron Type R

2' Valves : Cameron or Shaffer

Annular:_____ Type: Skalla Annular PSI: 5000___

(If Shaffer: Spherical , If Hydril: Type GK)

BOP Type SHAFFEL . LUS

(If Shaffer: LWS or SL, If Comeron: Type U) BOP Size: // " - Sooo PSI

Rams in top gate: BLING

Rams in bottom: 4/2

Rotating Head Type Williams Sumished By Cont.



EXHIBIT "E" CHI OPERATING, INC. USA "9" Federal Com., Well No. 2 BOP Specifications

APPLICATION FOR DRILLING

CHI OPERATING, INC. USA "9" Federal Com., Well No. 2 600' FNL & 510' FEL, Sec. 9-T20S-R28E Eddy County, New Mexico Lease No.: NM-13232 (Exploratory Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Chi Operating, Inc. submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.

2. The estimated tops of geologic markers are as follows:

Yates	1150'	Wolfcamp Lime	9,100'
Grayburg	1845'	Cisco Canyon C1	9,600'
San Andres	2265'	Cisco Canyon C2	9,800'
Delaware	3165'	Strawm Lime	10,200'
Bone Spring	4385'	Morrow Clastics	10,900'
1st Bone Spring	6175'	T.D.	11,500'

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 300'.

- Oil: Possible in the Bone Springs below 6175.
- Gas: Possible in the Bone Springs below 6175' and the Morrow below 10,900'.
- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- Testing, Logging, and Coring Program: Drill Stem Tests: None. Logging: T.D. to 3200': GR/DIL/MSFL/CNL/FDC/Cal 3200' to surface: GR/CNL/Cal Coring: None.
- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated evacuated BHP = 4600 psi/ft with a temperature of 175°.
- 10. H₂S: None expected since previously drilled wells in the vicinity did not produce any H₂S in formations to this depth.
- 11. Anticipated starting date: December 15, 1997. Anticipated completion of drilling operations: Approximately 4-5 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC. USA "9" Federal Com., Well No. 2 600' FNL & 510' FEL, Sec. 9-T20S-R28E Eddy County, New Mexico Lease No.: NM-13232

(Exploratory Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Color quad Artesia map showing the location of the proposed well as staked. The well site location is approximately 30 road miles southeast of Artesia, NM. Traveling east of Artesia on U.S. Highway 82 and county roads, there will be 27 miles of paved highway, plus 3.0 miles existing gravel oilfield roads.
- B. Directions: Travel east from Artesia, NM on U. S. Highway 82 for approximately 8.5 miles to the SPS Power Station. Turn southeast (right) onto Eddy County road #204 for 3 miles; then south on County road #206 for 12.7 miles to the Angel Ranch road (county road #237); then east on #237 for 2.5 miles to a gravel oil field road on the east (left) side of the road leading to a well site on a hill .25 mile east. Turn north at this well site for 1.75 miles, then east for .85 mile where the road turns north to the Winchester Fed., Well #1 well site. Continue east for 800 feet; then south for 1500 feet; turn west at the cattle guard toward the Colt Fed., #1 well site. The start of the proposed access road is on the left (south) side of the road and runs south for approximately 1300 feet to the southwest corner of the proposed location.

2. PLANNED ACCESS ROAD:

- A. Length and Width: There will be approximately 1300 feet of new access road 12 feet wide (24' Max.). The proposed and existing roads are color coded on Exhibits "A" and "B".
- B. Construction: The new access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: One turnout may be installed at the midpoint increasing the width to 20 feet for passing.
- D. Culverts: None.
- E. Cuts and Fills: None required.
- F. Gates, Cattle guards: None required.
- G. Off Lease ROW: The existing Right of Way No. 88445 will be amended to include the off lease portion of the proposed access road in Sec. 4-T20S-R28E as shown on Exhibit "B".

Chi Operating, Inc. USA "9" Federal Com., Well No. 2 Page 2

3. LOCATION OF EXISTING WELLS:

A .Existing wells within a two mile radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas separationprocess equipment and tank battery will be installed on the drilling pad.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads or a fast line beside existing roads may be used.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the proposed access road and well site pad will be obtained from a pit on the location if available or from a Federal pit in the NW4 SE4, Sec. 12-T20S-R27E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering by the wind and will be removed for deposit in an approved sanitary land fill within 30 days after finishing drilling and/or completion operations.

Chi Operating, Inc. USA "9" Federal Com., Well No. 2 Page 3

8. ANCILLARY FACILITIES:

A. None required.

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
- B. Mat Size: 290' X 175', including reserve pits on the north.
- C Cut & Fill: The location will require a 1 1.5 foot cut on the south with fill to the north.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced and screened until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough to be worked.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road are located in the Burton Flats area and one mile west of Palmilla Draw with a southwesterly slope of .3% from an elevation of 3274' GL.
- B. Soil: The topsoil at the well site is a light colored, well drained, shallow calcareous soil over gypsum soil of rock of the Reeves Gypsum Series.
- C. Flora and Fauna: The vegetation cover is a fairly good grass cover of threeawn, black and gyp grama, gyp dropseed, along with plants of mesquite, broomweed, yucca, croton, gyp weed, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area, except production facilities.
- F. Land Use: Cattle grazing.



S.E- 22



	A B Standard Stranger A			
ALL CARRY		(Mar) Figs Red frm	USA "9" Federal Com.,	Winchester Federal,
Seller Seller	Avv Sr Exton E	Arnoco (1) (12 (Pennsol)	m., Well No. 2	Well No. 5- Well N
Superior A MONSANT Superior A MONSANT Superior A MONSANT Superior BURTON COEEPI	Monsanta 2		(Union) (Inter-	Saturday
Woncome Woncome Wardson War	Cit Serv (1997)	100 100 100 100 100 100 100 100 100 100 100	Cit. Serv. 2 gmising 10 100 10 100	Barrow (J.C. W. 1997) Barrow (J.C. W. 1997)
Average Ave			City as a second	
			CHI USA "9" 1 600' FNL & 5	EXHIBIT "C" OPERATING, INC. Federal Com., Well No.2 10' FEL, Sec. 9-T20S-R28E Existing Wells



CHI OPERATING, INC. USA "9" Federal Com., Well No. 2 Pad & Pit Layout