135 ved 12130/04 Form 3160-3 Oil Cons. -Barry OMB No. 1004-0136 (August 1999) UNITED STATES N.M. DIV-Dist. 2 Expires November 30, 2000 DEPARTMENT OF THEONE TANOGRAND Avenue 5. Lease Serial No. BUREAU OF LAND MANAGEMENT, NM 88210 νM-0375257**/**Α 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: DRILL □ REENTER 8. Lease Name and Well No. 1b. Type of Well: Oil Well Gas Well Other Multiple Zone ☐ Single Zone Federal Com., Well # 2

5. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 6. Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. 25. Signature Name (Printed/Typed) Date 06/12/04 George R. Smith Title Agent for Chi Operating, Inc. Approved by (Signature) Name (Printed/Typed) /s/ Joe G. Lara /s/ Joe G. Lara 2 8 JUL 2004

3b. Phone No. (include area code)

16. No. of Acres in lease

7/12/04

24. Attachments

22. Approximate date work will start*

Item 20 above).

11,450'

JUL 3 0 2004

SCB-ARTESIA

(432) 685-5001

4. Location of Well (Report location clearly and in accordance with any State requirements. *) RECEIVED

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

9. API Well No.

Burton Flats Morrow

Sec. 6 -T21S-R27E

12. County or Parish

23. Estimated duration

4. Bond to cover the operations unless covered by an existing bond on file (see

4-6 weeks

17. Spacing Unit dedicated to this well

276,32

920

NM-1616

20. BLM/BIA Bond No. on file

lEddv

30-015 - 33782

11. Sec., T., R., M., or Blk. and Survey or Area

13. State

NM

10. Field and Pool, or Exploratory

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. APPROVAL FOR 1 YEAR

Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on reverse)

2. Name of Operator

P.O. Box 1799 Midland, TX 79702

At proposed prod. zone same

4.5 road miles N. of Carlsbad, NM

18. Distance from proposed location⁴

3221' GL

1. Well plat certified by a registered surveyor.

to nearest well, drilling, completed, applied for, on this lease, ft.

15. Distance from proposed*

location to nearest

2. A Drilling Plan.

At surface 1190' FNL & 990' FWL

property or lease line, ft. (Also to nearest drig. unit line, if any) 990'

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

CARLSBAD CONTROLLED WATER BASIN

14. Distance in miles and direction from nearest town or post office*

Chi Operating, Inc. 3a Address

> Lease Responsibility Statement: Chi Operating, Inc. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Hold production for other operator in NE14 BA w OCD

District i 1825 N. French Dr. Hobba, NM 88240

District || 811 South First, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, N M 87505

Pool Name

Burton Flats Morrow

Form C-102
Revised March 17, 1999
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

73280

Property Code		FEDERAL COM						2	
OGRID No.	···········		Operation Name						
4378			CHI OPERATING, INC.						
			Surface Lo						
UL or Lot No.	Section	Township Ran	• 1	Feet from the	North/South line	Feet from the	East/West line	County	
5	6	21-S 27-	-E	1190	NORTH	990	WEST	EDDY	
		Bottom Ho	ole Location If	Different	From Su	rface			
UL or Lot No.	Section	Township Ran		Feet from the		Feet from the	Ecast/West line	County	
Dedicated Acre		r Infill Consolidation Cod	e Order No.		<u></u>				
CONSOLI	NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION								
1022.34" GLO RECORI	1190'		**************************************		CLO RECORD	I HEREBY CO HEREIN IS 1 BEST OF MY	OR CERTI ERTIPY THAT THE TRUE AND CORRES FINORIEDGE AND	E INFORMATION	
990'		N 3231'09.5" W 104'14'03.0"				Signature Printed Nan	George 1	C Smits R. Smith	

APPLICATION FOR DRILLING

CHI OPERATING, INC.

Federal Com., Well No. 2 1190' FNL & 990' FWL, Sec. 6-T21S-R27E Eddy County, New Mexico

Lease No.: NM-0375257 (Development 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	440'	3 rd SD	8,257'
Capitan Reef	880'	Wolfcamp	8,670'
Cherry Canyon	2,400'	Strawn	9,970'
Brushy Canyon	3,320'	Atoka	10,400'
1 st B. Spring Carb.	4,395'	Morrow Lime	10,840'
1st SD	6,220'	Lower Morrow	10,150'
2 nd SD	6,925'	Mississippian	11,285'
		T.D	11,450'

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

Water: Surface water between 100' - 300'. Capitan Reef below 880'.

Oil: Possible in the Queen, Delaware and Bone Spring

Gas: Possible in the Atoka below 10,400' and the Morrow below 10,840'.

4. Proposed Casing Program:

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT	~ ~
17 1/2"	13 3/8"	48.5#	J-55	ST&C	0" - 350 600	Circ. 275 sx "C" + add. WITNES	55
11"	8 5/8"	32.0#	J-55	ST&C	0' - 4,350' 2500'	Circ.1200 sx 65/35 sx "C" + POZ.	
7 7/8"	5 1/2"	20.0#	N-80	LT&C	0' - 400'	·	
7 7/8"	5 1/2"	17.0#	N-80	LT&C	400' - 8,450'	•	
7 7/8"	5 1/2"	20.0#	N-80	LT&C	8,450' - 11,450'	1500 sx of "H" + add.	

5. Minimum Specifications for Pressure Control Equipment:

A 12" 5000 psi WP Shaffer, LWS Double Gate BOP will be installed on the 13 3/8" casing and tested per order #2. Request waiver to operate as a 3,000 psi WP system and test to the maximum expected surface pressure of 2,500 psi WP Casing and BOP will be tested before drilling out with the 11" and will be tested before drilling into the Wolfcamp.

1	6.	MUD PI	ROGRA	M: 600 555	MUD WEIGHT	VIS.	W/L CONTROL
				Fresh water/spud:	8.4 - 8.5 ppg	32 - 36	No W/L control
	>r⊃ ʻ	350-	4,35 0':	Brine mud: Fresh	10.0 - 10.1 ppg	29	No W/L control
	70 50 '	4350-	8,500':	Fresh water mud: Brine mud:	8.4 - 8.5 ppg	28	No W/L control
	טע	8500' – 1	10,300':	Brine mud:	10.0 - 10.1 ppg	29	No W/L control
	1	10,300' - 1	0,840':	Brine/C.Brine(starch):		32 - 34	W/L control 12-15 cc +/-
	1	10,840' - 1	1,450':	XCD-LSRV-40000	9.5 – 10+ ppg	42 - 45	W/L control 8 cc +/-
				(XCD subject to change	ge)		

7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.

CHI Operating, Inc. Federal Com., Well No. 2 Page 2

8. Testing, Logging, and Coring Program:

Drill Stem Tests: As deemed necessary.

Logging: Intermediate, Pending mud log shows: 350' - 4350': (GR-CAL-CNL-LDT)(GR-CAL-DLL-MICRO)

T.D. - 4350: (GR-CAL-CNL-LDT)(GR-CAL-DLL-MICRO)

4350: - Surface: GR/CNL.

Coring: As dictated by logs.

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 = 5038 psi and surface pressure of 2519 psi with a BH temperature of 175°.

10. H₂S: None expected. The Mud Log Unit will be cautioned to use a gas trap to detect H₂S and if any is detected the mud weight will be increased along with H₂S inhibitors sufficient to control the gas.

11. Anticipated starting date: July 12, 2004.

Anticipated completion of drilling operations: Approximately 30 - 40days.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not required 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 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 on an overall 2.5% slope to the southeast from an elevation of 3221'.
- B. Soil: The topsoil at the well site is a dark sandy loam soil of the Simona Gravelly fine Sandy Loam. land complex. There is fractured, platy, indurated caliche at a depth of approximately 20 inches.
- C. Flora and Fauna: The vegetation consists of a sparse grass cover of dropseed, three awn, and bush multy along with plants of yucca, broomweed, mesquite, creosote, yucca, 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: Lake Avalon is approximately 1 mile southwest of the location.
- E. Residences and Other Structures: None in the immediate vicinity except oilfield equipment on well locations.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal (Bureau of Reclamation) surface and Federal minerals.
- H. There is no evidence of archaeological, historical or cultural sites in the staked area. An archaeological survey is being conducted by Archaeological Survey Consultants, P.O. Box 2285, Roswell, NM 88202, and their report will be submitted to the appropriate government agencies.

Chi Operating, Inc. Federal Com., Well No. 2 Page 4

12. OPERATOR'S REPRESENTATIVE:

A. The field representative for assuring compliance with the approved use and operations plan is as follows:

John Qualls Chi Operating, Inc. P. O. Box 1799 Midland, Texas 79701 Office Phone: (432) 685-5001 Home Phone: (432) 684-8825

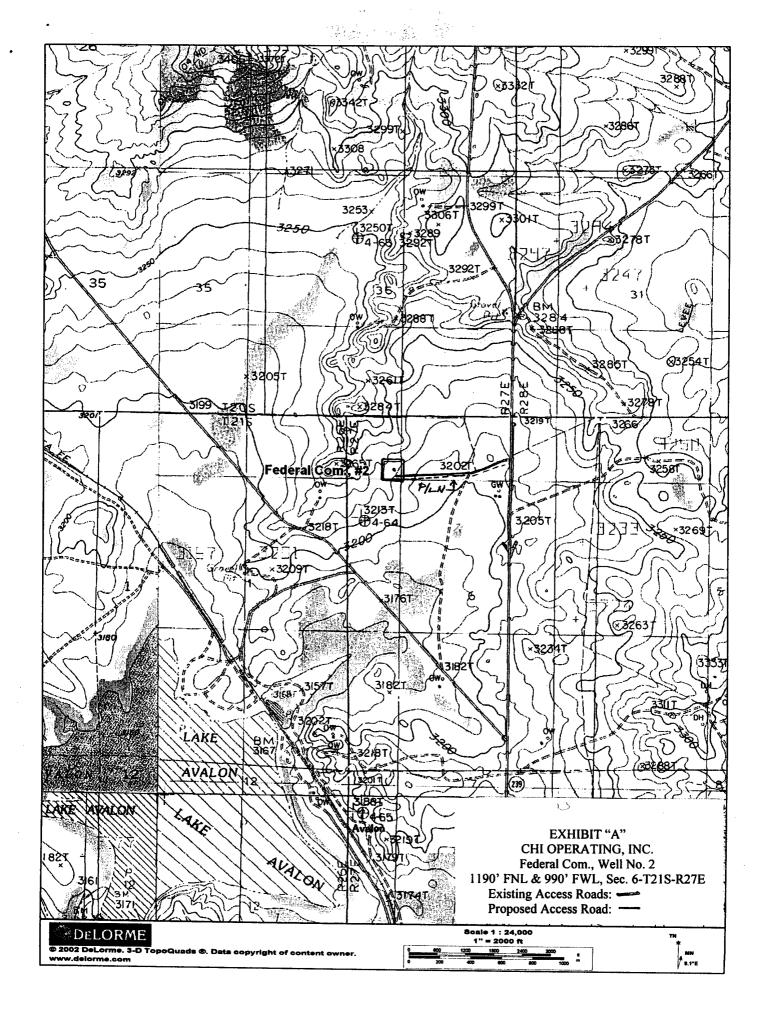
13. CERTIFICATION:

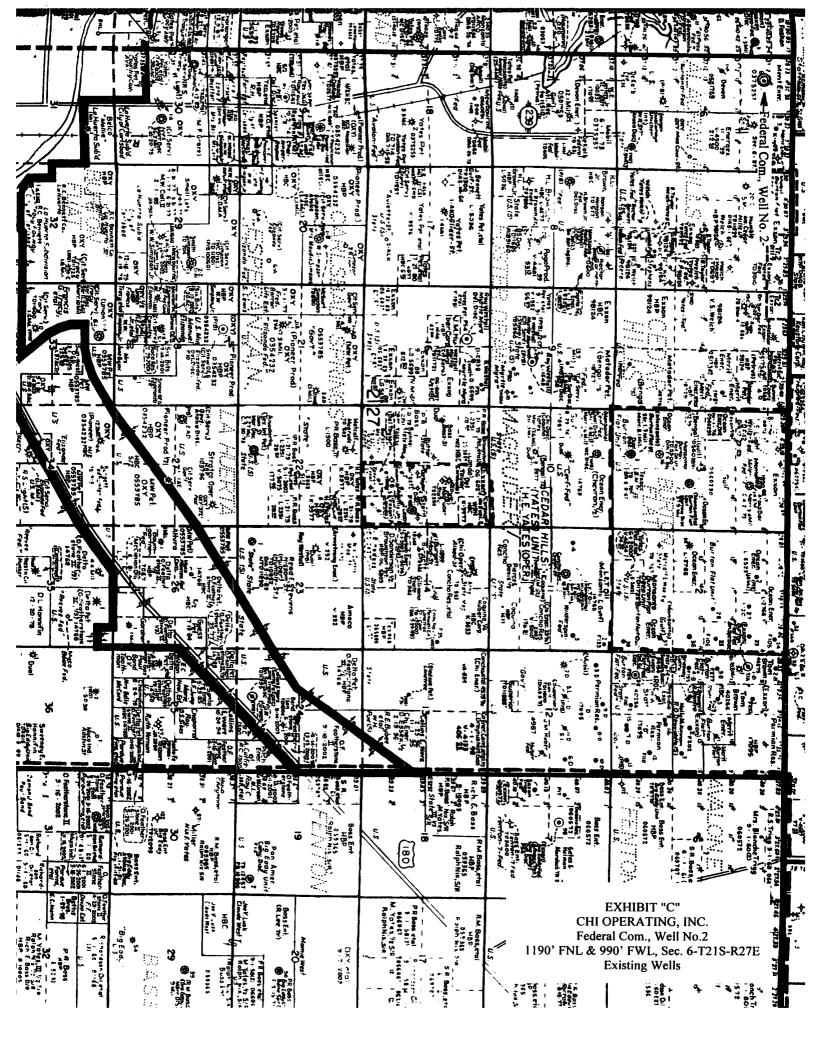
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Chi Operating, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

June 11, 2004

George R. Smith

Agent for: Chi Operating, Inc.





REV 20156

TIMIBIN/SIH/AIPIDINIULLIINIQ

B.O.P. Equipment Intended for use on Rig # 24 d 22
Well To Be drilled for TM32/Sharp

'All B.O.P equipment is H2S Trim'

'All Accumulators are Koomey Type-80: Dual Power Electric/Air'

'Choke Manifold: 'See sheef 2

4' Valves : Cameron F/FC, Shaffer DB Hydraullo

2" Check Valve: Cameron Type R

2' Valves: Cameron or Shaffer

Annular Shaffer Type: Sphental

Annular PSI: 3000

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

BOP Type Statter LWS

(If Shaffer: LWS or SL, If Cameron: Type U) **BOP Size:** 13% " - 5000 PSI

Rolating Head Type 3mith

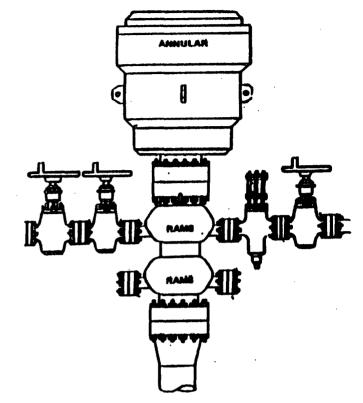
Rol-Head Furnished By TMBe

Rams in top gate: 41/2 Pipe

Rams in bottom: Blinds

Side Oullets used: Bottom X Top____

4" Valves on Tee



B.O.P. Equipment Intended for use on Rig # 24 4 22

Well To Be drilled for Twise Sharp

'All Valves (H28)'

Choke Manifole:

Pressure Rating 3,000 or 5,000 (as Req.)

1 - 4" Valves

2 - 2" Valves

2 - 2" Adjustable Chokes

Valve Types Used:
Cameron - F or FC
Shaffer - B Floseal

WKM - type 2

Chokes - Cameron H2 or TC unibolf

11

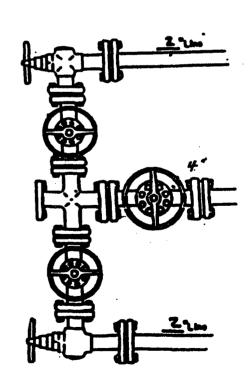


EXHIBIT "E"
CHI OPERATING, INC.
Federal Com., Well No. 2
BOP Specifications

SELF-CERTIFICATION STATEMENT FROM LESSEE/OPERATOR

SURFACE OWNER IDENTIFICATION

Federal or Indian Lease No. NM-0375257

(Signature of Surface Owner if an agreement has been reached)

I hereby certify to the Authorized Officer of the Bureau of Land Management that I have reached one of the following agreements with the Surface Owner; or after failure of my good-faith effort to come to an agreement of any kind with the Surface Owner, have provided a bond and will provide evidence of service of such bond to the Surface Owner: I have a signed access agreement to enter the leased lands; I have a signed waiver from the surface owner; I have entered into an agreement regarding compensation to the surface owner for damages for loss of crops and tangible improvements. because I have been unable to reach either 1), 2), or 3) with the surface owner. I have obtained a bond to cover loss of crops and damages to tangible improvements and served the surface owner with a copy of the bond. Surface owner information: (if available after diligent effort) Surface Owner Name: Theodore Allen Surface Owner Address: 4800 N. Stanton #39, El Paso, TX 79902 Surface Owner Phone Number: 915-533-4451 do not accept _____ the lessee or operator=s Surface Owner I (Surface Owner) accept _ Agreement under 1, 2, or 3 above

Attachment 1-1



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

January 3, 2005

Chi Operating, Inc. P.O. Box 1799 Midland, TX 79702 Attn: Mr. John Wolf

RE: CHI OPERATING, INC., FEDERAL COM. #2, LOCATED IN SECTION 6, OF TOWNSHIP 21 SOUTH, RANGE 27 EAST, EDDY COUNTY, NEW MEXICO API # 30-015-33782

Dear Mr. Wolf,

In regards to the above, I need to inform you that whether of not an application to drill (APD) is located on Federal, State or Private minerals in southeastern New Mexico, the drilling application must have an approved API # assigned to it before drilling is to commence. As we talked about over the phone last week, I had not assigned an API # until you informed me

As we talked about over the phone last week, I had not assigned an API # until you informed me that said well was set to run logs. I have been holding this application since our office received it on July 30th, 2004. At some point in time shortly after receiving your application, I called your office informing reason(s) we could not assign an API #.

My primary reason is due was due to the fact that another operator is currently producing from the Morrow formation in the NE/4 of the section.

As noted on your APD the drilling application is a projected Morrow test.

In my initial review, I find that Chi Operating is in violation with the following rules: Please refer to NMOCD Rules: 19.15.12; 19.15.3.102.A and specifically NMOCD Rule 19.15.3.104.C(2).

As we discussed, said well cannot produce in part until conditions of the above NMOCD rules are resolved.

Please call if you have any questions.

Bryan G. Arrant

PES

E-Mail:

Tim Gum, District Supervisor, Artesia

Brenda Coffman, Chesapeake Operating, Inc.

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THEINTERIOR Grand Avenue BUREAU OF LAND MANAGEMENT. SUNDRY NOTICES AND REPORTS ON WELLS 88210 Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

NM-0375257 A

apandoned we	III. Use Form 3160-3 (APD)	tor such propo	Sais.		
	PU(CATE - OWGODISHU	tonsonreve	rse side · · · · · · · · · · · · · · · · · · ·	7. If Unit or CA/Agr	eement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐	1 Other		3	8. Well Name and I	lo.
2. Name of Operator	1 Other		DEC 1 5 2004	Federal Com., #2	
Chi Operating, Inc.			ODD:ARTESIA	9. API Well No.	
3a. Address		3b. Phone No. (inc			
P.O. Box 1799 Midland, TX	79702	432/685-5001		10. Field and Pool, o	•
 Location of Well (Footage, Sec., 1190' FNL & 990' FWL Sec 6-T21S-R27E 	T, R., M., or Survey Description)			Burton Flats Morn 11. County or Parish	
				Eddy	
. 12. CHECK API	PROPRIATE BOX(ES) TO	INDICATE NA	TURE OF NOTICE, R	EPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
✓ Notice of Intent ☐ Subsequent Report ☐ Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Constructi Plug and Aband Plug Back		we ot	ater Shut-Off Il Integrity her
following completion of the inv	he casing program shown in the Hole Size Casing Size	esults in a multiple filed only after all r APD as follows: Weight Grade J 32# J-55	completion or recompletion i equirements, including recla	n a new interval, a For	n 3160-4 shall be filed once pleted, and the operator has
14. 1 hereby certify that the foregoin Name (PrintedlTyped)	ng is true and correct				
George R. Smith			e Agent for Chi Operating	, Inc.	
Signature Hodra	R. Smedy	Da	te December 9, 2004		•
	THIS SPACE (or feberation	RISTATE OF FIGERUS		
Approved by (Signature)	ORIG. SGD.) ALEXIS	C. SWCBODA	Name (Printed/Typed)	THE	ROLEUM ENGINEER
Conditions of approval, if any, are certify that the applicant holds leg which would entitle the applicant to	attached. Approval of this notice al or equitable title to those right conduct operations thereon.	e does not warrant of the subject least	or Office RFO		DEC 1 3 2004
Title 18 U.S.C. Section 1001 and T States any false, fictitious or fraudul	itle 43 U.S.C. Section 1212, make ent statements or representations as	it a crime for any pe to any matter within	erson knowingly and willfully its jurisdiction.	to make to any departr	nent or agency of the United