THIS LINE FOR DIVISION USE UNLY CONSERVATION DIVISION 2007 1 - Engineering Bureau -2007 220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTR	ATIVE	APPLIC.	ATION	CHECKL	IST
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	ADMINISTRATIVE APPLICATION CHECKLIST
TH	IIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applica	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE ation Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
	[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Lacation - Spacing Unit - Simultaneous Dedication [NSL NSP SD
	Check One Only for [B] or [C]
	[B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
	[D] Other: Specify
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners
	[B] Offset Operators, Leaseholders or Surface Owner
	[C] Application is One Which Requires Published Legal Notice
	[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F] Waivers are Attached
[3]	SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.
[4] approva applica	CERTIFICATION: I hereby certify that the information submitted with this application for administrative al is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this tion until the required information and notifications are submitted to the Division.
	Note: Statement must be completed by an Individual with managerial and/or supervisory capacity.
Bruce Box 1056	6 Signature Title Attorney for Applicant Date
	v Mexico 87504 jamesbruc@aol.com
•	e-mail Address

JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213 SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone) (505) 660-6612 (Cell) (505) 982-2151 (Fax)

jamesbruc@aol.com

September 29, 2007

Mark E. Fesmire, P.E. Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

Pursuant to Division Rule 104.F(2), Chi Operating, Inc. applies for approval of an unorthodox oil well location for the following well:

Well name: Munchkin Federal Well No. 12 Surface location: 2547 feet FNL & 519 feet FWL

Top of Delaware: 2506 feet FSL & 671 feet FWL (approximate)

Bottom hole location: 2310 feet FSL & 800 feet FWL

Well unit: NW¼SW¼ of Section 12, Township 19 South, Range 30

East, N.M.P.M., Eddy County, New Mexico

The well will be drilled to a depth sufficient to test the Delaware formation (Benson-Delaware Pool). The pool is spaced on statewide rules, with 40 acre spacing, and wells to be located no closer than 330 feet to a quarter-quarter section line. The APD, with a Form C-102, is attached as Exhibit A.

This portion of Section 12 is in the oil-potash area. In addition, the surface is part of a recreational area. The Bureau of Land Management required the surface location of the well to be in the SW¼NW¼ of Section 12.

The bottom hole location will be orthodox, but the wellbore in the upper portion of the Delaware will be unorthodox. As noted below, ownership in the well unit and offset acreage is common. In addition, applicant desires to limit the directional portion of the wellbore to minimize drilling and operating costs.

The top of the Delaware formation is at approximately 4570 feet subsurface.

The W½ of Section 12, among other acreage, is subject to Federal Lease NM 0560353. Exhibits B and C. This acreage has common ownership in the Delaware formation, so notice of this application has not been given to anyone.

Please contact me if you need any further information on this application.

tomen

Very truly yours,

Attorney for Chi Operating, Inc.

DEPARTMENT OF THE INTERIOR

R-111-POTASH

UNITED STATES

ATS-07-587

FORM APPROVED OMB No 1804-0137 Expires March 31, 2007

Lease Serial No. - NM-0560363 NM 0560353

BUREAU OF LAND M	IANAGEMENT	SEP 13 A	יטטי		
APPLICATION FOR PERMIT				6 If Indian, Allotee or	Frihe Name
. Type of work DRILL.	7 If Unit or CA Agreement, Name and No.				
. Type of Well: On Well Gas Well Other	8. Lease Name and Well Munchkin Federa				
Name of Operator Chi Operating, Inc.				9 API Well No.	3579
Address P.O. Box 1799	3b Phone No.	(include area code)		10 Field and Pool, or Exp	
Midland, TX 79702	432-685	-5001		Benson Delaware	
Location of Well (Report location clearly and in accordance with	th any State requirement	nts *)		11 Sec., T. R. M. or Blk a	nd Survey or Area
At surface 2547' FNL & 519' FWL At proposed prod. zone 2310' FSL & 800' FWL				Sec. 12-T19S-R30	E
Distance in miles and direction from nearest town or post office*				12 County or Parish	13 State
16 miles south of Loco Hills, NM	. ,			Eddy	NM
Distance from proposed* location to nearest property or lease line, ft	16 No of ac)	g Unit dedicated to this well	
(Also to nearest drig. unit line, if any) 330'	2160.		40 acı		
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 1150'	19 Proposed 5500	•	NM-1	BIA Bond No. on file 616	
Elevations (Show whether DF, KDB, RT, GL, etc.) 3424' GL	22 Approxim	ate date work will sta	rl*	23. Estimated duration 4-6 weeks	
	24. Attac	hments			
Following, completed in accordance with the requirements of O Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy SUPO shall be filed with the appropriate Forest Service Office	stem Lands, the	Order No.1, shall be a 4 Bond to cover t Item 20 above). 5 Operator certiff 6 Such other site authorized offi	the operation	ins w EXI	HIBIT A
Signature /		(Printed Typed)		D	ate
le Agent for Chi Operating, Inc.		George R. Smith			08/03/2007
oproved by (Signature) Sesse 5 Trees	Name	(Printed-Typed)		D	ate 8-31-6
STATE DIRECTOR	Office	NM STAT			
oplication approval does not warrant or certify that the applican nduct operations thereon anditions of approval, if any, are attached.	u holds legal or equi	able title to those rig	h <u>ts in the</u> su	hject lease which would enti	tle the applicant to R TWO YEAR
le 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make ates any false, fictitious or fraudulent statements or representation			willfully to	make to any department or a	igency of the United
Instructions on page 2) Capitan Controlle	d Water Basin				

Lease Responsibility Statement: Chi Operating, Inc. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land promat the BECT TO

SEE ATTACHED FOR CONDITIONS OF APPROVAL GENERAL REQUIREMENTS

AND SPECIAL STIPULATIONS Corge R. Smith, agent

ATTACHED

NSC Re

NSC Required to Produce

(

District 1

District IV

State of New Mexico

Form C-102

1626 N. French Dr., Hobbs, NW 88240 Energy, Minerals & Natural Resources Department Revised October 12, 2005 District II

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies

□ AMENDED REPORT

1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brasos Rd., Astec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code

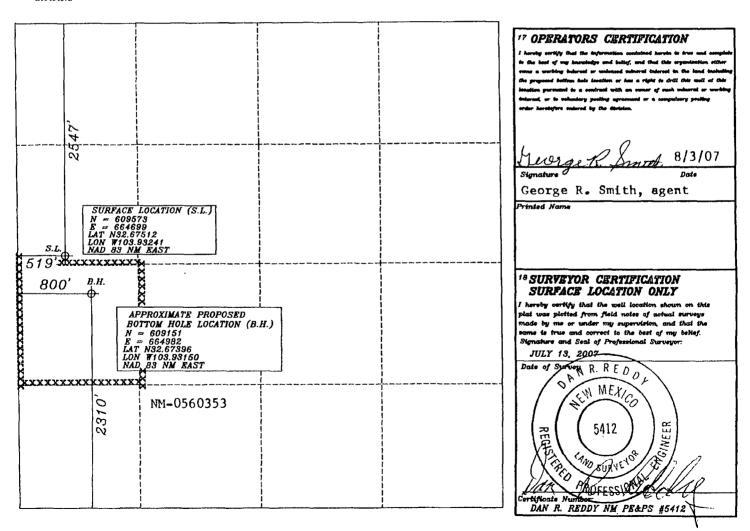
1220 South St. Francis Dr. Santa Fe, NM 87505

Fee Lease - 3 Copies

					N AND AC	R <i>EAGE DED</i>		LAT	
,	1 API Number 2 Pool Code 3 pool Name 97083 Benson Delaware								
				7083		beni	BOR Delawai	.е	
4 Propert					5 Property	Name		6 7	ell Number
36/	21				<i>MUNCHKIN</i>	FEDERAL			12
7 OCRIL) No.				8 Operator	Name			Elevation
4378	8				CHI OPERA	ATING, INC.			424
					10 Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Hne	Feet from the	East/Vest Hne	County
E	12	19-5	30-E		2547	NORTH	519	EDDY	
	"Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Township	Ronge	Lot Idn	Feet from the	North/South line	Feet from the	East/Vest Hine	County
L	12	19-S	30-E		2310	SOUTH	800	WEST	EDDY

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.

Order No.



APPLICATION FOR DRILLING

CHI OPERATING, INC.

Munchkin Federal, Well No. 11

Surface Location: 2418' FNL & 541' FWL, Sec. 12-T19S-R30E Bottom Hole: 2100' FSL & 330' FEL, Sec. 11-T19S-R30E

> Eddy County, New Mexico Lease No.: NM-0560353 (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:

Anhydrite	400'	Queen	3050'
Yates	2240'	Delaware	4170'
Seven Rivers	2430'	T.D.	5500'

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 Queen, Delaware.

Gas: Possible in the Delaware.

4. Proposed Casing Program: (New Casing)

HOLE	CASING	WEIGHT	GRADE	COLLAR	SETTING	COLLAPSE_	BURST	TENSION
<u>SIZE</u>	SIZE				<u>DEPTH</u>	<u>DESIGN</u> FACTOR	DESIGN FACTOR	DESIGN FACTOR
17 1/2"	13 3/8"	48.0#	J-55	ST&C	500'	2.850	1.51	15.04J
11"	8 5/8"	32.0#	J-55	LT&C	2,050'	2.376	3.38	7.47J
7 7/8"	5 1/2"	17.0#	J-55	LT&C	5,500'	1.488	1.77	2.97J

Note: Deviation Requirements: Commencing at 2100": Kick off and build angle at 2.5 degrees per 100 feet. Drill and build curve section to 21.25 degrees to T.D. See Exhibit "F".

5. Cement Program:

a. 13 3/8" casing: 500' Circ. to surface: 500sx "C" + additives, Yield 1.34

b. -8 5/8" casing: 2050' Circ. to surface: Lead: 375 sx "C" Lite, Tail: 150 Sx "C" + additives, Yield 1.34

c. 5 1/2" casing Stage 1: 5,500" Circ. to surface: Lead: 376 sx "C" + additives Yield 1.55

5 1/2" casing Stage 2: 5,500' Circ. Tail: 675 sx (35:65) Poz: Premium Plus "C" + add. Yield: 2.1 & 1.34

Note: If DV Tool is required, will start at +/- 3700

6. Proposed Control Equipment: A 10" 3000 psj wp double hydraulic ram BOP will be installed on the 13 3/8" casing and will be used as a 2,000 psi system. Casing and BOP will be tested to 1000 psi before drilling out with 11". The BOP and casing will be tested according to Onshore Oil & Gas Order #2 before drilling out with 7 7/8". The pipe rams will be operated and checked daily plus each time drill pipe is out of hole. This will be documented on driller's log. See Exhibit "E".

7. MUD PROGRAM	<u>f:</u>	MUD WEIGHT	VIS.	W/L CONTROL
0' - 500':	Fresh water/Spud:	8.4 - 8.7 ppg	32 - 34	No W/L control
500' - 2050':	Brine mud:	10.0 ppg	29 - 30	No W/L control
2050' - 5500':	Brine mud:	9.2 ppg	29 - 32	No W/L control
5500'		9.2 ppg		W/L cont. <15 cc @ TD

Chi Operating, Inc. Munchkin Federal, Well No. 11 Page 2

8. Auxiliary Equipment: Blowout Preventer, Kelly cock.

9. Testing, Logging, and Coring Program:

Mud Logging: 10' samples-2050' to TD (2 sets of samples)

Drill Stem Tests: As deemed necessary.

Logging: T.D thru pay: GR-CAL-CNL-LDT, GR-CAL DLL-MICRO and CMR

T.D. to Surface: GR-Neutron

Coring: Rotary Sidewall: as dictated by logs.

10. 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 = 2420 psi with a temperature of 115°.

11. H₂S: None expected. None in previous drilling of wells, but 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.

12. Anticipated starting date: August 23, 2007

Anticipated completion of drilling operations: Approximately 30 days.

Planned Wellpath Report

Plan #1 Page 1 of 3



REFER	ENCE WELLPATH IDENTIFICATION		
Operator	Chi Operating, Inc.	Slot	#12_SHL
Area	Eddy County, NM	Well	#12
Field	(Munchkin) Section 12 T19S R30E	Wellbore	#12 PWB
Facility	Munchkin Federal #12		The state of the s

REPORT SETUP	INFORMATION		
	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet		WellArchitect™ 1.2
North Reference	Grid	User	Jonebea
Scale	0.999927	Report Generated	08/02/07 at 10:58:55
Wellbore last revised	07/27/07	Database/Source file	WA_Midland/#12_PWB

WELLPATH LOCATION								
The training and a second of the second of t	Local coordinates		Grid coordinates			Geographic coordinates		
	North [feet]	East [feet]	Easting US feet	1	Northing [US feet]	Latitude [°]	Longitude [°]	
Slot Location	0.00	0.00	664699.00		609573.00	32 40 30.434N	103 55 56.689W	
Facility Reference Pt	,,,,,		664699.00	î	609573.00	32 40 30.434N	103 55 56.689W	
Field Reference Pt			664720.00		609701.00	32 40 31.700N	103 55 56.438W	

WELLPATH DATUM			
Calculation method	'Minimum curvature	Rig on #12_SHL (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Slot	Rig on #12_SHL (RT) to GRN. ELEV.	3424.00 feet
Vertical Reference Pt	Rig on #12_SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on #12_SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	GRN. ELEV.	Section Azimuth	146.15°

EXHIBIT "F"

Chi Operating, Inc. Munchkin Federal, Well No. 12

Directional Drilling Program

Surface Location: 2547' FNL & 519' FWL, Sec. 12-T19S-R30E Bottom Hole Location: 2310' FSL & 800' FWL, Sec. 12-T19S-R30E

Planned Wellpath Report Plan #1 Page 2 of 3



INTEQ

REFER	ENCE WELLPATH IDENTIFICATION				
Operator	Chi Operating, Inc.	Slot	#12_SHL		
Area	Eddy County, NM	Well	#12		
Field	(Munchkin) Section 12 T19S R30E	Wellbore	#12 PWB	. • .	V . ,,,,,,
Facility	Munchkin Federal #12			And the second second second second	2022

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Planned Wellpath Report Plan #1 Page 3 of 3



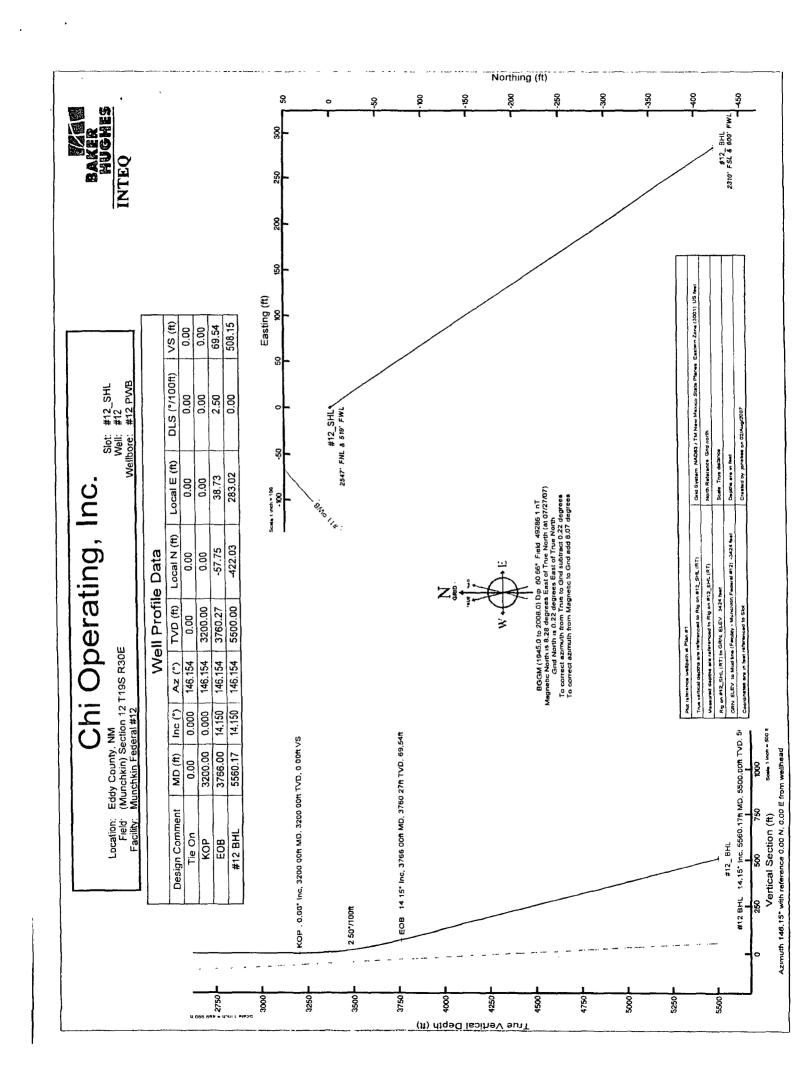
REFER	ENCE WELLPATH IDENTIFICATION		
	Chi Operating, Inc.	Slot	#12_SHL
Area	Eddy County, NM	Well	#12
	(Munchkin) Section 12 T19S R30E	Wellbore	#12 PWB
Facility	Munchkin Federal #12		A STATE OF THE STA

WELLPATH DATA	A (58 stations)	† = interpolated	d/extrapolated	station	•	<i>,</i> ·•	
MD [feet]	Inclination ,	Azimuth [°]	TVD [feet]	Vert Sect feet	North [feet]	East [feet]	DLS [º/100ft]
3900.00†	14.150	146.154	3890.20	102.29	-84.96	56.97	0.00
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4100.00†	14.150	146.154	4084.13	151.19	-125.57	84.21	0.00
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5560.17	14.150	146.154	5500.00 ¹	508.15	-422.03	283.02	0.00

HOLE & CASING SECTIONS Ref Wellbore: #12 PWB Ref Wellpath: Plan #1									
String/Diameter	Start MD feet	End MD feet	Interval feet	Start TVD feet	End TVD [feet]	Start N/S [feet]	Start E/W	End N/S	End E/W [feet]
7.875in Open Hole	3200.00	5560.17	2360.17	3200.00	5500.00	0.00	0.00	422.03	283.02

TARGETS	•					,	,
Name	MD TVD	North East	Grid East	Grid North	Latitude	Longitude	Shape
, remain era to can	[feet] [feet]	[feet] [feet]	[us survey feet]	[us survey feet]	1°1	!"	_i
1)#12 BHL	5560.17 5500.00	-422.03 283.02	664982.00	609151.00	32 40 26.248N	103 55 53.397W	/ point
1) #12_ BIIC	2310' FSL & 800) FWL		***************************************			

SURVEY PRO	GRAM Ref W	ellbore: #12 PWB	Ref Wellpath: Plan #	1	
Start MD	End MD	Positional Unc	ertainty Model	Log Name/Comment	Wellbore
[feet]	[feet]				
0.00	5560.17 N	laviTrak (Standard)	and the second second		#12 PWB



MULTI POINT SURFACE USE AND OPERATIONS PLAN

/ CHI OPERATING, INC

Munchkin Federal, Well No.12 5/4/w

Surface Location: 2600° FNL & 520° FWL, Sec. 12 -T19S-R30E Bottom Hole: 2310° FSL & 800° FWL, Sec. 12 -T19S-R30E

> Eddy County, New Mexico Lease No.: NM-0560353 (Development 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 Hackberry Lake Topo map showing the location of the proposed well as staked. The well site location is approximately 36 road miles southeast of Artesia, NM. Traveling east of Artesia on U.S. Highway 82, NM Hwy 360 and county roads No. 250 and 251, there will be 33 miles of paved highway, plus 3 miles of existing gravel oilfield roads.
- B. Directions: Travel east from U. S. Highway #285 in Artesia, NM on U. S. Highway 82 for approximately 14 miles, turn southeast on NM Hwy 360 for approximately 13 miles to paved County Rd #251. Turn north on #251 for 1.8 mile to County Rd. # 250, then turn right on #250 for 3.8 miles to top of Nimenim Ridge. Turn south onto a gravel oilfield road just west of a cattle guard with a pipeline buried near the road. Continue south for .8 mile to a large tank battery and water injection pump house; turn right (west) for .25 mile to a pump jack, then south (left) for .63 mile to a P/A well site with a gas line tap. Turn right (west) for .3 mile, then south .25 mile to the Munchkin Fed. #1 well site. Turn west, north of the #1, for .2 mile to the access road on the left (south) side. Follow this road southeast then south to the southwest corner of the Munchkin Fed. #4 well pad. The access road continues at the southwest corner of the pad and runs southeast for 1000 feet to the southeast corner of the Munchkin Fed. #5 well pad. Continue south on the access road from the southeast corner of this well pad for 900' to the pipeline; then 1,100' west, south of the pipeline, to the northeast corner of the Munchkin Federal #8 well pad. The proposed well is on the SW corner the No. 8 well pad.

2. PLANNED ACCESS ROAD:

- A. Length and Width: There will be no new proposed access road. The existing roads are color coded on Exhibit "A".
- B. Construction: The existing access roads will be repaired, as needed, by grading and topping with compacted caliche and will be properly drained.
- C. Turnouts: None required.
- D. Culverts: None required
- E. Cuts and Fills: None required.
- F. Gates, Cattle guards: None required.
- G. Off Lease ROW: An off lease ROW No. NM-102279 was issued with a previous APD covering the existing access road in the E2 of Sec. 1-T19S-R30E.

3. LOCATION OF EXISTING WELLS:

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

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Chi Operating, Inc. has production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities and gas production-process equipment will be installed on the drilling pad of the Munchkin Fed. #8 well, which also has storage facilities and pipelines available on the well pad. Additional storage may be added if required.

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

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing and maintenance of the existing access road and construction of the well site pad will be obtained from a pit on the location, if available, or from a BLM approved pit on the drill site for the Wizard Federal #3 in the NW¼SE¼, Sec. 1-T19S-R30E. The archaeologist has cleared this pit. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

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 landfill within 30 days after finishing drilling and/or completion operations.

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 was originally staked and flagged, 600' X 600'.
- B. Mat Size: 245' X 165', plus 100' X 100' reserve pits on the west.
- C Cut & Fill: The location will require a 2 3 foot cut on the west, undisturbed area, for the pits with fill to the east. There are undulating sand dunes 2 3 feet high that will need to be leveled.
- 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 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 location and access road are located in an area on top of and east of the Niminem Ridge. The location has an overall 2% slope to the east/northeast from an elevation of 3424' GL.
- B. Soil: The topsoil at the well site is a deep yellowish red colored noncalcareous sandy loam with some caliche scatter on the surface. The soil is of the Berino loamy fine sands series.
- C. Flora and Fauna: The vegetation cover is a fair to good grass cover of threeawn, grama, dropseed, fluff grass and bush multy along with plants of mesquite, broomweed, yucca, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, antelope, 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 oil field equipment and tank batteries.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.
- H. There is some evidence of archaeological, historical or cultural sites in the area. Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202 have conducted an archaeological survey and submitted their report No. ASC 05-013 on September 6, 2005 to the appropriate government agencies. Another report will be furnished after an additional 100' X 600' area is to be cleared on the west side, which will take care of the re-route of the bike trail and give a 120' buffer west of the mud pits.

Chi Operating, Inc. Munchkin Federal, Well No. 12 Page 4

12. **OPERATOR'S REPRESENTATIVE:**

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

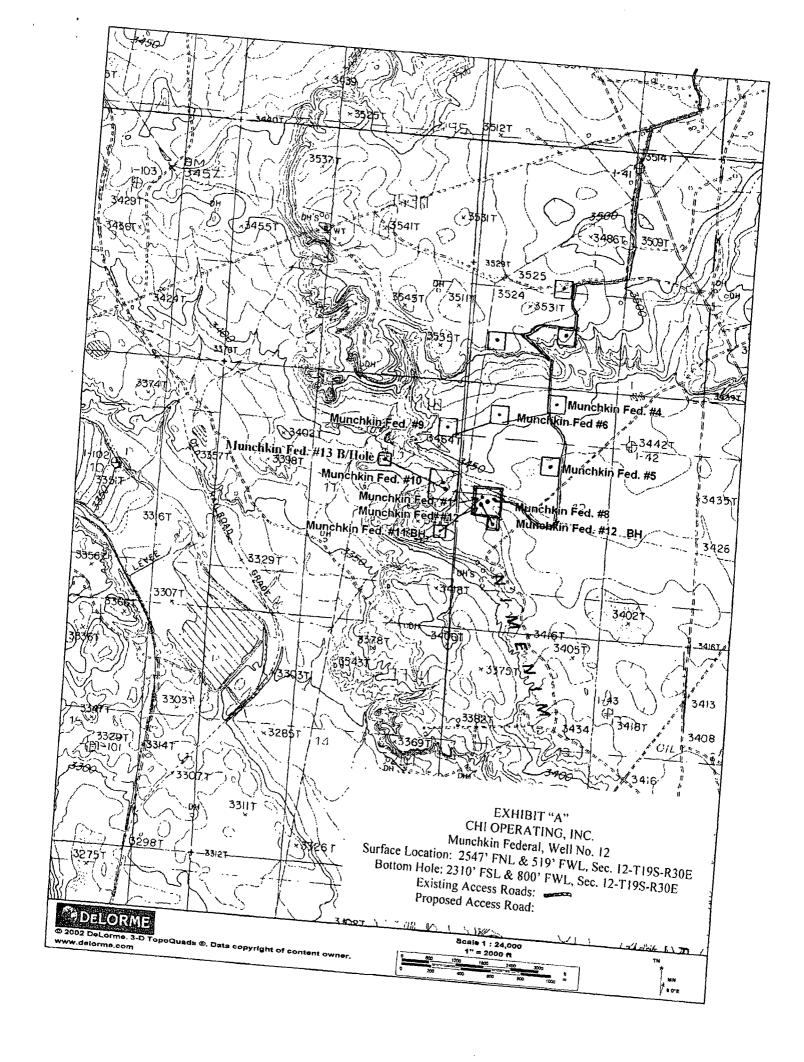
> John Qualls Chi Operating, Inc. P. O. Box 1799 Midland, Texas 79701 Office Phone: (432) 685-5001 Cell Phone: (432) 557-8774

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.

August 3, 2007

George R. Smith Agent for: Chi Operating, Inc.

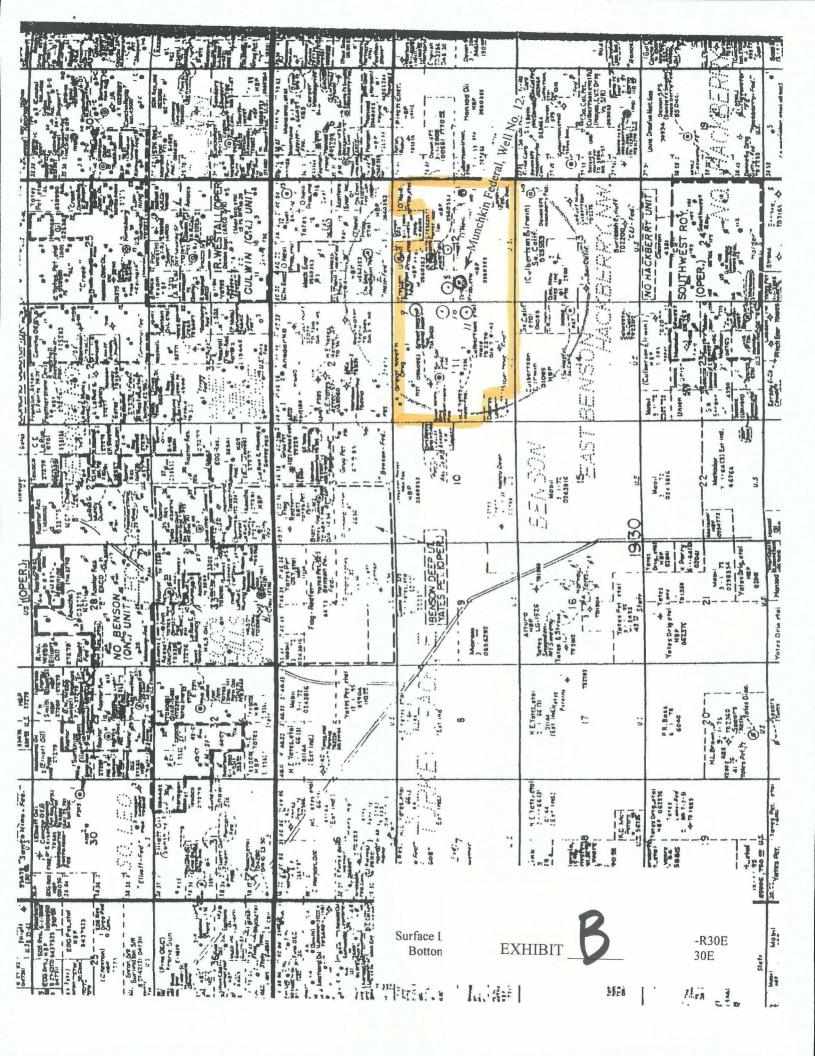


Conditions of Approval Recreation

EA#: NM-520-07-0883 Lease #: NM-0560353 Chi Operating, Inc. Munchkin Fed. #11 & #12

The proposed action lies on one of the trails to the Hackberry OHV recreation area. The company will be responsible for rerouting these trails safely around the proposed pads. This may be as simple as flagging a new route to the blading of a new route. These new routes will be completed before the existing routes are closed.

Please call Jon Jasper (505) 234-2221 to discuss routing proposals, before beginning pad construction.



DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION (MASS) Serial Register Page

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01 02-25-1920;041STAT0437;30USC226

Case Type 311111: O&G LSE NONCOMP PUB LAND

Commodity 459: Case Disposition: AUTHORIZED

OIL & GAS

Total Acres 2,160.320

Serial Number NMNW-- 0 560353

Serial Number: NMNM-- 0 560353

Name & Address		Ser	ial Number: NMNM 0 560)353
Name & Address			Int R	el % Interest
ANDERSON OIL CORP	5005 WOODWAY #300	HOUSTON TX 77056	OPERATING RIGHTS	0.000000000
ASTON FAMILY	PO BOX 1090	ROSWELL NM 882021090	OPERATING RIGHTS	0.000000000
ASTON ROGERS	PO BOX 1090	ROSWELL NM 882021090	OPERATING RIGHTS	0.000000000
BRAZOS LP	PO BOX 911	BRECKENRIDGE TX 76424	OPERATING RIGHTS	0.000000000
BROWN L Z	PO BOX 179	ANDREWS TX 79714	OPERATING RIGHTS	0.000000000
BYRNE JOSEPH H	21 BRENTWOOD CLUB	LUBBOCK TX 79407	OPERATING RIGHTS	0.000000000
CANNON EXPL CO	3608 S COUNTY RD #1184	MIDLAND TX 79701	OPERATING RIGHTS	0.000000000
CHASE OIL CORP	PO BOX 1767	ARTESIA NM 882111767	OPERATING RIGHTS	0.000000000
CLIFTON THOMAS OIL	PO BOX 1071	SAN ANGELO TX 76902	OPERATING RIGHTS	0.000000000
COLKELAN CORP	906 S ST FRANCIS #C	SANTA FE NM 87501	OPERATING RIGHTS	0.000000000
CRESCENT PORTER HALE	1705 1ST CITY NATIONAL BK	HOUSTON TX 77002	OPERATING RIGHTS	0.000000000
CRESCENT PORTER HALE	1705 1ST CITY NATIONAL BK	HOUSTON TX 77002	LESSEE	100.000000000
DEVON ENERGY PROD CO LP	20 N BROADWAY #1500	OKLAHOMA CITY OK 73102	OPERATING RIGHTS	0.000000000
DIAMOND HEAD PROP	PO BOX 2127	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
DOMINION OK TX EXPL & PROD INC	14000 QUAIL SPGS PKY #600	OKLAHOMA CITY OK 73134	OPERATING RIGHTS	0.000000000
EAKO LLC	PO BOX 1090	ROSWELL NM 882021090	OPERATING RIGHTS	0.000000000
EXBY LTD	PO BOX 1933	ROSWELL NM 88202	OPERATING RIGHTS	0.000000000
EXPLORERS PETRO CORP	PO BOX 1933	ROSWELL NM 882021933	OPERATING RIGHTS	0.000000000
FLAG REDFERN OIL CO	PO BOX 11050	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
GREAT WESTERN DRLG CO	PO BOX 1659	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
GREEN GARY	PO BOX 1799	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
GROVER ROSALIND R	PO BOX 2127	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
HARVEY E YATES CO	1007 MARQUETTE NW	ALBUQUERQUE NM 87102	OPERATING RIGHTS	0.000000000
HARVEY E YATES CO	PO BOX 1933	ROSWELL NM 882021933	OPERATING RIGHTS	0.000000000
JAMES H YATES INC	906 S ST FRANCIS DR	SANTA FE NM 87501	OPERATING RIGHTS	0.000000000
JOHN REDFERN JR EST	BOX 50896	MIDLAND TX 79710	OPERATING RIGHTS	0.000000000
LARIO OIL & GAS CO	BOX 155	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
MALONEY ROSE ANN	810 STANOLIND	MIDLAND TX 79705	OPERATING RIGHTS	0.000000000
MANN CLIFTON	307 PEARSON RD	LAKE ARTHUR NM 88253	OPERATING RIGHTS	0.000000000
MCCOMBS ENERGY LLC	5599 SAN FELIPE #1220	HOUSTON TX 770562794	OPERATING RIGHTS	0.000000000
MURCHISON OIL & GAS INC	1100 MIRA VISTA BLVD	PLANO TX 750934698	OPERATING RIGHTS	0.000000000
NEARBURG EXPL CO LLC	3300 N A ST #120	MIDLAND TX 79705	OPERATING RIGHTS	0.000000000
OWEN MARK T	3323 PROVIDENCE	MIDLAND TX 79705	OPERATING RIGHTS	0.000000000
POCAHONTAS OIL CO INC	PO BOX 60476	MIDLAND TX 79710	OPERATING RIGHTS	0.000000000
QUALLS JOHN W	PO BOX 1799	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
REDFERN OIL CO	PO BOX 50890	MIDLAND TX 79710	OPERATING RIGHTS	0.000000000
REDFERN ROSALIND	PO BOX 2127	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
RIO LOBO RESOURCES	2006 NORTH H	MIDLAND TX 79705	OPERATING RIGHTS	0.000000000
RYAN JO ANN	PO BOX 1503	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
SELIGMAN KEN	PO BOX 545	ALBANY TX 76430	OPERATING RIGHTS	0.000000000
SHUMATE GENE	BOX 2473	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
SPELL INC	BOX 50890	MIDLAND TX 79710	OPERATING RIGHTS	0.000000000
SPIRAL INC	BOX 1933	ROSWELL NM 882021933	OPERATING RIGHTS	0.000000000
STEPHENS TOM P	BOX 698	ROSWELL NM 882020698	OPERATING RIGHTS	0.000000000

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Act Date

Code Action

01/18/1983 932 TRF OPER RGTS FILED 01/18/1983 932 TRF OPER RGTS FILED

01/18/1983 932 TRF OPER RGTS FILED

01/18/1983 932 TRF OPER RGTS FILED

01/18/1983 932 TRF OPER RGTS FILED

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01 02-25-1920;041: Case Type 31111 Commodity 459: Case Disposition:	1: O&G L OIL &	SE NONCOMP PUB LAND		Total Acres 2,160.320	Serial Number NMNM 0 560353
TOM P STPEHENS TRUS	ST .	PO BOX 698	ROSWELL NM 882020698	OPERATING RIGHTS	0.000000000
VALKO LLC		PO BOX 1090	ROSWELL NM 882021090	OPERATING RIGHTS	0.000000000
WELCH DANA L		PO BOX 1700	MIDLAND TX 79702	OPERATING RIGHTS	0.000000000
WOMACK KIM		1900 NORTH I ST	MIDLAND TX 79705	OPERATING RIGHTS	0.000000000
YATES CAROLYN BULOV	/AS	600 N WYOMING	ROSWELL NM 88201	OPERATING RIGHTS	0.000000000
YATES ENERGY CORP		PO BOX 2323	ROSWELL NM 882022323	OPERATING RIGHTS	0.000000000
YATES STEVEN M		BOX 1933	SAN FRANCISCO CA 94104	OPERATING RIGHTS	0.000000000
			Serial	Number: NMNM 0	560353
Mer Twp Rng Sec	STyp SN	r Suff Subdivision	District/Resource Area	County	Mgmit Agency
23 0190S 0300E 001	ALIQ	S2NW,SW,S2SE;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23 0190S 0300E 001	LOT!	4;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23 0190S 0300E 010	ALIQ	N2NE,SWNE,W2,SE;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23-0190S 0300E 011	ALIQ	N2,N2SW,SESW,SE;>	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23 0190S 0300E 012	ALIQ	. E2NE,SWNE,W2,SE;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT

10/31/1947	387	CASE ESTABLISHED	
11/01/1947	496	FUND CODE	05;145003
11/01/1947	530	RLTY RATE - 12 1/2%	
11/01/1947	868	EFFECTIVE DATE	
06/20/1966	553	CASE CREATED BY ASGN	OUT OF NMLC063613;
09/15/1966	500	GEOGRAPHIC NAME	UNDEFINED FLD;
09/15/1966	510	KMA CLASSIFIED	
09/20/1966	315	RENTAL RATE DET/ADJ	\$1.00;
03/19/1971	817	MERGER RECOGNIZED	FLAG OIL/FLAG-REDFERN
03/19/1971	817	MERGER RECOGNIZED	REDFERN DEV/FLAG-REDF
03/19/1971	817	MERGER RECOGNIZED	REDFERN OIL/FLAG-REDF
03/19/1971	817	MERGER RECOGNIZED	REDFERN&SONS/FLAG-RED
01/20/1975	284	REINSTATEMENT FILED	
02/07/1975	282	REINSTATEMENT APPROVED	
06/28/1982	650	HELD BY PROD - ACTUAL	
09/27/1982	102	NOTICE SENT-PROD STATUS	
11/19/1982	246	LEASE COMMITTED TO CA	SCR 390
12/29/1982	932	TRF OPER RGTS FILED	
12/30/1982	932	TRF OPER RGTS FILED	(1)
12/30/1982	932	TRF OPER RGTS FILED	(2)
01/18/1983	932	TRF OPER RGTS FILED	(1)

Action Remarks

Serial Number: NMNM-- 0 560353 Pending Office

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(10) (11)

(12)

(2)

(3)

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION (MASS) Serial Register Page

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		TAT0437;30USC226 : O&G LSE NONCOMP PUB LAND		Total Acres 2,160.320	Serial Number NMNM 0 560353		
Commodity Case Dispos		OIL & GAS L UTHORIZED					
08/22/2001	974	AUTOMATED RECORD VERIF	ANN				
09/13/2001	643	PRODUCTION DETERMINATION	/3/ NMNM106839				
11/26/2001	974	AUTOMATED RECORD VERIF	RAYO/RAYO				
12/12/2001	817	MERGER RECOGNIZED	L DREYFUS/DOMINION				
04/29/2002	932	TRF OPER RGTS FILED	YATES, STEVEN M;1				
04/29/2002	932	TRF OPER RGTS FILED	YATES, STEVEN M; 2				
05/01/2002	246	LEASE COMMITTED TO CA	NMNM107701;				
05/03/2002	932	TRF OPER RGTS FILED	B ANDERSON/ANDERSON				
06/25/2002	933	TRF OPER RGTS APPROVED	01EFF 05/01/02;				
06/25/2002	933	TRF OPER RGTS APPROVED	02EFF 05/01/02;				
06/25/2002	974	AUTOMATED RECORD VERIF	LR				
06/28/2002	933	TRF OPER RGTS APPROVED	EFF 06/01/2002				
06/28/2002	974	AUTOMATED RECORD VERIF	ANN				
02/24/2003	932	TRF OPER RGTS FILED	LARIO O&G/GREAT WEST	Γ			
03/25/2003	933	TRF OPER RGTS APPROVED	EFF 03/01/03;				
03/25/2003	974	AUTOMATED RECORD VERIF	ANN				
05/05/2003	932	TRF OPER RGTS FILED	CHI ENE/MURCHISON				
06/27/2003	933	TRF OPER RGTS APPROVED	EFF 06/01/03;				
06/27/2003	974	AUTOMATED RECORD VERIF	JLV				
08/05/2003	940	NAME CHANGE RECOGNIZED	STATES INC/LTD				
02/23/2004	932	TRF OPER RGTS FILED	STATES/BRAZOS LTD				
03/01/2004	932	TRF OPER RGTS FILED	OASIS OIL/YATES CAR	DL			
03/25/2004	933	TRF OPER RGTS APPROVED	EFF 03/01/04;				
03/25/2004	974	AUTOMATED RECORD VERIF	JLV				
05/05/2004	933	TRF OPER RGTS APPROVED	EFF 04/01/04;				
05/05/2004	974	AUTOMATED RECORD VERIF	MV		0. 500050		
Line Nr	Remar	ks	Serial	Number: NMNM	0 560353		
0002	BONED	OPERATOR -07/02/1999					
0003	MACK	ENERGY CORP - NM2151 - S/W					
0004	BONDE	D OPERATOR PER AFMSS					
0005	12/18	/2000 HARVEY E YATES CO NM2221 S/W;					
0006	BONDE	D OPERATORS - 08/22/2001					
0007	GREAT WESTERN DRILLING CO - NM0996 - N/W						
0008	HARVEY E YATES CO - NM2221 - S/W						
0009	BONDED OPERATORS - PER AFMSS						
0010	06/25/2002 - GREAT WESTERN DRILLING CO - NM0996 - NW						
0011		HARVEY E YATES CO - NM2221 - S/	/w;				
0012	BONDED OPERATORS - 05/05/2004						
0013	GREAT	WESTERN DRILLING CO - NM0996 N/W					
0014	CHI OPERATING INC NM1616/SW						
002.	J.1.1. V						

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