c19\$

					2537		
rvey E. Yates Company		UNITED STATES					
		TMENT OF THE INTE AU OF LAND MANAGEM	5. LEASE DESIGNATION AND SERIAL NO. NMNM-2005 /067/8				
A			RILL OR DEEPEN	S. IF INDIAN, ALLOTEE OR TRIBE NAME			
TYPE OF WORK							
	DRILL X	DEEPEN			7. UNIT AGREEMENT NAME		
TYPE OF WELL					CHOLLA 1 FED		
OHL 🔽	GAS WELL	OTHER		MULTIPLE ZONE	8. FARM OR LEASE NAME, WELL NO.		
WELL X					9. API WELL NO.		
NAME OF OPERATOR ARVEY E. YATES COMPA	NY				30-015-32105		
ADDRESS AND TELEPHONE N			10. FIELD AND POOL, OR WILDCAT				
	NEW MEXICO 88202 505				TAMANO BONE SPRINGS		
4. LOCATION OF WELL (REPORT LOCATION CLEARLY AND IN ACCORDANCE WITH ANY STATE REQUIREMENTS)					11. SEC., T., R., M., OR BLK AND SURVEY OR AREA		
AT SURFACE	1,900 13	SL & 560' FEL			SEC 1, T18S, R31E		
AT PROPOSED PROD. ZONE	SAME		UNITI		12 COUNTY OR PARISH 13. STATE		
		(EDDY NM		
. DISTANCE IN MILES AND DIRI	CTION FROM NEAREST TOWN						
	15 MILES SE OF LOCO	D HILLS, NM	16. NO. OF ACRES IN LEASE		17. NO. OF ACRES ASSIGNED		
5. DISTANCE FROM PROPOSED LOCATION TO NEAREST			IC. NO. OF ACKED IN LEASE		TO THS WELL		
PROPERTY OR LEASE LINE,	FT.						
(Also to nearest drig, unit line		560'	360.06		40		
B. DISTANCE FROM PROPOSED			19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS		
TO NEAREST WELL DRILLIN		101	9450		ROTARY		
OR APPLIED FOR, ON THIS L 1. ELEVATIONS (Show whether		101	<u>3430</u>	. <u></u>	APPROX. DATE WORK WILL START		
3,806'	pr, K1, GR, eu.)				03-Sep-01		
3.		PROPOSED CASI	NG AND CEMENTING PROGRA	M Contton	Controlled Water Basin		
				Capital			
SIZE OF HOLE	GRADE, SIZE OF CASING	WT PER FT	SETTING DEPTH	425 SY "C" W	QUANTITY OF CEMENT		
12 1/4"	13 3/8" H-40 8 5/8" J-55	32#	3,100'		2% CACL & 1/4# CELLOSEAL, 1,000 SX FILLER *		
7 7/8"	5 1/2" J-55	17#	9,450') & 400 SX TAIL **		
· · · · · · · · · · · · · · · · · · ·	(SEE EXHIBIT "	E")					
FILLER CEMENT 35/65 "0 " LEAD: 1000 SX "H" POZ	C" POZ w/ 6% GEL, 5# SAL w/ 2% GEL & 5# SALT PE	R SACK	NG AGENT, .3% RETARDER, &				
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BUREAL OFFICE SOOI THE SE WHO: 39

DISTRICT I P.0. Box 1980, Robbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artonia, NM 58211-0719

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

DISTRICT IV P.O. BOX 2008, SANTA FE, N.M. 87504-2068 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name		
	58040	Tamano Bone Spring	5	
Property Code	Property Name		Well Number	
26108	CHOLLA	2		
OGRID No.	Opera	ator Name	Elevation	
010179	HARVEY E.	ATES COMPANY	3806'	

Surface Location

UL or le	ot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1 1		1	18–S	31-E		1980	SOUTH	560	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.		L	L	

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

LOT 4	LOT 3	LOT 2	LOT 1	OPERATOR CERTIFICATION
				I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
40.11 ACRES	40.07 ACRES	40.05 ACRES	40.01_ACRES	Bot William
				Bob Williams Printed Name
				Drilling Superintendent Tile
		1		<u>July 26, 2001</u> Date
				SURVEYOR CERTIFICATION
			NM-2537 3808.6'3812.3'	I hereby certify that the well location shown on this plat was plotted from yield notes of actual surveys made by me or under my supervison and that the some is true and correct to the best of my bellef.
			3807.3' 3808.6'	JULY 24, 2001 Date Surveyed AWB Signature & Seal of
			1980	Professional Surveyor Professional Surveyor
				Certificate No. RONALD J. EDSON 3239 GARY EDSON 12641

VICINITY MAP



SEC. <u>1</u> TWP. <u>18</u>—S RGE. <u>31</u>—E SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1980' FSL & 560' FEL</u> ELEVATION <u>3806'</u> OPERATOR <u>HARVEY E. YATES COMPA</u>NY LEASE CHOLLA 1 FEDERAL

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

LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. <u>1</u> TWP. <u>18</u>—S RGE. <u>31</u>—E SURVEY N.M.P.M.

COUNTY____EDDY

DESCRIPTION 1980' FSL & 560' FEL

ELEVATION <u>3806</u>

OPERATOR <u>HARVEY E. YATES COMPANY</u> LEASE <u>CHOLLA 1 FEDERAL</u>

U.S.G.S. TOPOGRAPHIC MAP MALJAMAR, N.M. CONTOUR INTERVAL: 10' MALJAMAR, N.M.

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

Application Harvey E. Yates Company Cholla 1 Fed #2 Section 1, T18S, R31E Eddy County, New Mexico

In conjunction with Form 3160-3, Application For Permit To Drill Or Deepen subject well, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 10.

- 1. Geologic Name of Surface Formation: Quaternary allunium and bolson deposits
- 2. Estimated Tops of Significant Geologic Markers:

Rustler 925⁷, Yates 2,410', Seven Rivers 2,790', Bowers 3,250', Queen 3,510', Penrose 3,745', Grayburg 4,030', Loco Hills 4,130', San Andres 4,525', Delaware 4,900', Bone Springs 5,600', BSPG 1st Sand 7,450', BSPG "B" Zone 7,750', BSPG 2nd Sand 8,200', BSPG "B" Sand 8,310', BSPG "C" Sand 8,525', Base "C" sand 8,650', "C" Zone 8,660', 3rd Sand 8,935 Wolfcamp 9,200', PTD 9,450'.

- Estimated Depths at which Water, Oil, or Gas Formations are expected: Oil: Bone Spring 1st sand @ 7,450 Gas: Bone Spring 1st sand @ 7,450
- 4. Proposed Casing Program: See Form 3160-3
- 5. Pressure Control Equipment: BOP & Annular. See Exhibit C.
- 6. Drilling Fluid Program: See Form 3160-3
- 7. Auxiliary Equipment: H2S Compliance package
- Testing, Logging, & Coring Program: One DST is planned for the Wolfcamp, or "B-C" Zone Carbonates. The planned logs are Western Atlas CNL-ZDEN, DACS and DLL-MLL
- Abnormal Conditions, Pressures, Temperature, or Potential Hazards: No abnormal conditions are anticipated in this well bore. BHST 170 deg F BHP 2000 psi
- 10. Anticipated Starting Date & Duration of Operation: Spud Date: Approximately September 1, 2001. Duration of this project will be approximately 50 days from start of Construction of drilling pad until finish of completion operations

Surface Use Plan Harvey E. Yates Company Cholla 1 Fed #2 Section 1, T18S, R31E Eddy County, New Mexico

1. Existing Roads:

Exhibit A is a portion of a New Mexico map showing the location of the proposed location. The location is approximately 16 miles Southeast of Loco Hills, NM. Leave Artesia on U.S. 82 & travel 30 miles east to the junction of Eddy Co. 222. Turn South and go 3.3 miles. Turn left after crossing cattle guard. Go 1.6 miles on main traveled road to 4 way intersection. Turn right & go 1.6 miles. Turn left & go 1.4 miles to location.

2. Planned Access Roads:

822' of new road will be built to access this location.

- 3. Location of Existing Wells: See EXHIBIT B
- 4. Location of Tank Batteries, Electric Lines, Etc: In the event a producing well is drilled, a tank battery will be built on the location.
- 5. Location and Type of Water Supply: Water will be obtained from commercial sources.
- Source of Construction Material: We will use materials from the primary and auxillary reserve pits to build the location.

7. Methods of Handling Waste Disposal:

Waste will be handled in an approved manner. The wellsite will be cleaned of all waste within 30 days of final completion of the well. TRASH wast Be handed of $\theta \xrightarrow{40} 4^{10}$

Approved Landfill site.

8. Ancillary Facilities: N/A

9. Wellsite Layout:

a. EXHIBIT D shows the relative location and dimensions of the well pad, reserve pits, and major rig components.

b. The land is relatively flat with sandy soil and sand dunes.

c. The pad and pit area have been staked.

10. Plan for Restoration of the Surface:

a. After drilling and completion operations are completed, all equipment and other materials not needed for further operations will be removed. Pits will be back filled and the location cleaned of all trash to leave the wellsite as pleasant in appearance as possible.

b. If the proposed operation is nonproductive, all restoration and/or vegetation requirements of the BLM will be complied with, and will be accomplished as quickly as possible. All pits will be filled and leveled within 90 days after abandonment.

11. Other Information:

a. The surface and mineral owner is the Federal Government. The grazing Lesee is Williams & Son Cattle Company, and they have been contacted regarding operations.

b. The topography consists of sandy soil with native grasses. No wildlife was observed, but the usual inhabitants of this region are Jackrabbits, Reptiles, Coyotes, etc.

c. There are no ponds, lakes, or rivers in this area.

d. An Archaeological Survey has been made and a copy has been sent to the Roswell BLM office. There is no evidence of any significant archaeological, historical, or cultural sites in the area. Further, there are no occupied dwellings or windmills in the area.

e. Should any incidental oil be recovered during testing of this well, this oil will be considered waste oil and not sellable due to contamination by drilling and/or completion fluids.

12. Operator's Representative:

I certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; that the work associated with operations proposed herein will be performed by Harvey E. Yates Company 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.

Bob Williams Drilling Superintendent Harvey E. Yates Company P.O. Box 1933 Roswell, NM 505-623-6601

July 26, 2001

Bob Williams

Bob Williams Drilling Superintendent

United States Department of the Interior

BUREAU OF LAND MANAGEMENT Roswell Resource Area P.O. Drawer 1857 Roswell, New Mexico 88202-1857

Statement Accepting Responsibilities for Operations

Operator Name:Harvey E. Yates CompanyStreet or Box:P.O. Box 1933City, State:Roswell, New MexicoZip Code:88202

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No.: NMNM-2537

Lease Name: Cholla 1 Fed #2

Legal description of land: Sec 1, T18S, R31E, Eddy County, New Mexico

Formation(s) (if applicable): Bone Springs

Bond Coverage: (State if individually bonded or another's bond): Blanket Bond

BLM Bond File No.:

Authorized Signature: Bob Williams

Title: Drilling Superintendent

Date: July 26, 2001



EXHIBIT "C" BOP STACK

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Cholla 1 Fed #2 1,980' FSL & 560' FEL Sec 1, T185, R31E Lea County, NM



EAST

-

EXHIBIT "E" CASING DESIGN

Cholia 1 Fed #2 1,980' FSL & 560' FEL Sec 1, T18S, R31E Lea County, NM **Casing Design**

.



EXHIBIT "F"

Harvey E. Yates Company Cholla 1 Fed #2 Section 1, T18S, R31E Lea County, New Mexico

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis will show proof of training from a qualified instructor in the following areas before commencing any work on the above named well.

- 1. The hazards and characteristics of hydrogen sulfide (H²S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H²S detectors, alarms, warning signs, briefing areas, and evacuation procedures.
- 5. The proper technique for rescues.

II H²S Safety Equipment and Systems

All H²S safety equipment and systems will be installed 1,000 feet prior to penetrating the first zone containing or reasonably expected to contain H²S.

- 1. Well Control Equipment
 - A. Choke manifold with a minimum of two adjustable chokes.
 - B. Blind and pipe rams to accommodate all pipe in use.
 - C. Auxiliary equipment to include annular preventer and rotating head.
- 2. Protective equipment for essential personnel
 - A. Four 5 minute escape units in top dog house.
 - B. One 30 minute SCBA at each briefing area.
- 3. H²S detection and monitoring equipment
 - A. Three channel monitor located on floor, with detectors located on floor, on flow nipple, and on flow line on mud pit.
- 4. Visual Warning Systems
 - A. Windsock located on floor and mud pits.
 - B. Briefing area signs located on NE & SW corners of pad.
 - C. H²S Condition sign located at entrance to location.
- 5. Mud Program

The mud program has been designed to minimize the volume of possible H²S circulated to surface. Proper weight, safe drilling practices, and the use of H²S scavengers will minimize hazards when penetrating possible H²S bearing zones.

6. Metallurgy

All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifolds, and associated lines and valves shall be suitable for an H²S environment.

7. Communications

Drilling rig and company vehicles will be equipped with two way radios or cellular telephones.

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8. Well testing

One Drill Stem Test is planned for this well.

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EXHIBIT "G"

Harvey E. Yates Company Cholla 1 Fed #2 Section 7, T18S, R32E Lea County, New Mexico

Temporary Condition of Approval:

Drilling Fluids, Casing and Cementing Requirements for Most of Lea County:

Casing and Cementing

Surface casing is to be set at a sufficient depth to protect useable water zones and cement circulated to surface. In areas where the salt section (Salado) is present, surface casing should be set at least 25 feet into the top of the Rustler Anhydrite and cement circulated to the surface.

As an alternative, surface casing may be set through the Santa Rosa Formation or other potable water bearing zones and circulate cement to surface. For wells requiring an intermediate casing string, such string shall be cemented to the ground surface. In the case where intermediate casing is not required the operator shall case and cement the production hole to the ground surface.

While drilling from the surface casing to the Rustler fm it is recommended that operators periodically sweep the hole with viscous low water loss pills to help build a filter cake across useable water zones in the redbeds.

Drilling Fluid

Fresh water or fresh water spud mud shall be used to drill to surface casing depth. If surface casing is set at a lesser depth than the top of the Rustler fm., fresh water spud mud may be used to drill down to the first salt in the Rustler Fm. after which brine or fresh water may be used.

Non-toxic or biodegradable water based polymers, drilling paper, starch and gels may be used in the mud system in order to retard seepage into the redbeds.

Two to five percent diesel or crude oil may be used in the redbed section in order to control heaving shales and mudstones.

Caustics and Lime shall not be used in the red beds but may be added when the Rustler formation is reached. However, sodium carbonate maybe used for alkalinity or ph control while drilling the redbeds above the Rustler fm.

Additionally, questions of whether an additive may be used should be refereed to the Roswell Field office.