# New Mexico Oil Conservation Division, District I 1625 N. French Drive

Harvey E. Yates Company		UNITE	ED STATES		Hobbs, l	NM ser	an		
•	DEPA	RTMENT	OF THE INTE	RIOR	,	- 0,000	-3.87	5. LEASE DESIGNATION A	ND SERIAL NO.
· · · · · · · · · · · · · · · · · · ·			AND MANAGEMI					NMNM 1	6350A
APPLIC 1a. TYPE OF WORK	CATION FO	OR PE	RMIT TO DR	ILL OR I	DEEPEN			6. IF INDIAN, ALLOTEE OR	TRIBE NAME
12 TIPE OF WORK	DRILL	ζ	DEEPEN X				1	7. UNIT AGREEMENT NAM	E
b. TYPE OF WELL			. <u> </u>						E DEEP UNIT
OIL EE	GAS			SINGLE		MULTIPLE	_	8. FARM OR LEASE NAME	, WELL NO.
WELL X	WELL	OTHER		ZONE	x	ZONE		2/5	
2. NAME OF OPERATOR								9. API WELL NO.	
3. ADDRESS AND TELEPHONE								30-025-2	
P.O. BOX 1933, ROSWEL		88202 50	5_623_6601					10. FIELD AND POOL, OR V	WILDCAT IG BONE SPRING
4. LOCATION OF WELL (REPOR				STATE REQUIR	REMENTS)			11. SEC., T., R., M., OR BL	
AT SURFACE		FNL & 1,9			,			AND SURVEY OR ARE	
	_			_ 4	a. 1				T18S, R32E
AT PROPOSED PROD. ZONE	Sec 9 1,4	80' FNL 85	DELECT TO	KE APP	HOVAL B	Y STATE	. [	12 COUNTY OR PARISH	13. STATE
14. DISTANCE IN MILES AND DE		AREST TOW	N OR POST OFFICE					LEA	NM
15. DISTANCE FROM PROPOSE		LOCOTIII	CCO, NIII	16. NO. OF ACR	PES IN I FASE		17 NO	OF ACRES ASSIGNED	
LOCATION TO NEAREST								THIS WELL	
PROPERTY OR LEASE LINE	, FT.								
(Also to nearest drig. unit lir	ie, if any)		660		280			280	
18. DISTANCE FROM PROPOSE				19. PROPOSED	DEPTH		20. RO	TARY OR CABLE TOOLS	
TO NEAREST WELL DRILLIN	-		***						
OR APPLIED FOR, ON THIS  21. ELEVATIONS (Show whethe			900	<u></u>	9,570' TVD		<u> </u>	ROTARY	
3853.8	i Dr., Ki, GR, etc.)							APPROX. DATE WORK WI	LL START
23.			PROPOSED CASIN	G AND CEME	NTING PROG	RAM			
SIZE OF HOLE	GRADE, SIZE OF C	ASING	WT PER FT	SETTIN	G DEPTH			QUANTITY OF CEM	ENT
17 1/2"	13 3/8" J	J-55	48#	6	60'	IN PLACE C	EMENT	CIRCULATED	CVA.
12 1/4"	8 5/8" J	<del></del>	24, 28, & 32#	4,6	540'	IN PLACE C	EMENT	CIRCULATED	12 (12 pt)
7 7/8"	5 1/2" J		15.5# &17#	<del></del>		300 sx			
4 3/4" ALL CASING WILL BE NE	3 1/2" P-			8,900' TVD +	1,660' HORIZ	135 SX		<u> </u>	- Vair-
CEMENT QUANTITIES AN 3 1/2" LINER CEMENT 13 THIS IS A RE-ENTRY OF 1	5 SX CLASS H,	W/ SODIUN	I METASILLICATE,	DISPERSANT	TAND FLUID L		JRE		
	·		PR	OPOSED MU	D PROGRAM				
0-8,200'	FRESH WATER		D 18840 4 0 0 \ 40 0	4.00					
8,200' TO 1,000' HORIZ.	MOD OF WITH	DARAZAN	D, MVV 9.4-9.8 VIS 3	4-36					
MUD PROGRAM SUBJECT TO SEE ATTACHED PROCEDUR IN ABOVE SPACE DESCRIBE PROCEDURED IN ABOVE SPACE DESCRIBE DESCRIBE DESCRIBE DESCRIBE DESCRIBE DESCRIBE DESCRIBE DESCRIBE DESCRIPTOR DESCRI	RE FOR HORIZON ROPOSED PROGRA	NTAL DRILL M: If proposa	.ING Il is to deepen, give data						irill or
24.	•			Ju wepuis.	z biowout pi	program	, 11 ally		
signed Boll	lleon_		Bob Williams	TITLE	<b>Drilling Sup</b>	erintendent		DATE 10/11/0	)5
(THIS SPACE FOR FEDERAL OF	R STATE OFFICE US	SE)							
PERMIT NO.				APPROVAL DA	TE .				
APPLICATION APPROVAL DOES NOT WARRA	NT OR CERTIFY THAT THE A	APPLICANT HOUNS	LEGAL OR EQUITARIE TITLE TO	THOSE RIGHTS IN THE	SUR IECT I EAST MANN	I WOUT DELOTE = ~ ~	E 400	T TO CONDUCT OPEN TOWN TO THE	
CONDITIONS OF APPROVAL IF			ELONE ON EQUITABLE TITLE TO		acting	WOOLD ENTITE THE	EAPPLICAN	T TO CONDUCT OPERATIONS THERE	DN.
APPROVED BY	/s/ Joe	G. La	ıra	TITLE	FIELD	MANA	\GE	R DATE	JAN 1 9 2006
TITLE 18 U.S.C. SECTION 1 UNITED PROPERTY OF	e applications	RAUDUI	LENT STATEMENTS	WINGLY AND OR REPRESEN	WILLFULLY TO	O MAKE TO AI	NY DEF ER WIT	APPOVAL ARTMENT OR AGENCY HIN ITS JURISDICTION	FOR 1 YEAR

General requirements and special stipulations attached

KE

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

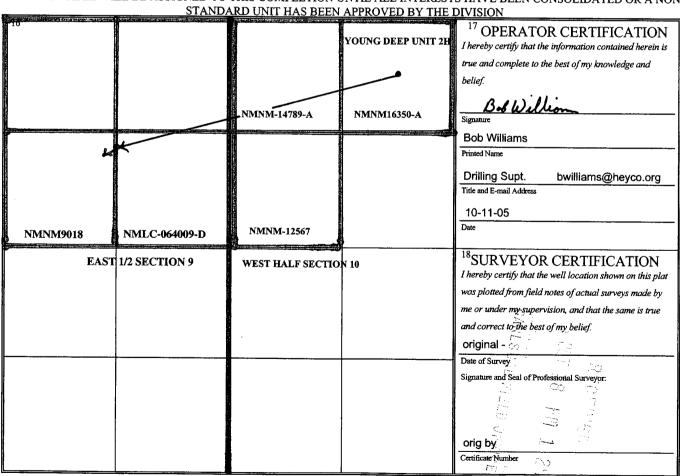
State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

	,	_,				•			NDED KEFOK I
			WELL LO	<u>OCATIO</u>	N AND ACE	REAGE DEDIC	ATION PLA	T	
' API Number 30-025-27121				<sup>1</sup> Pool Code 65350		' Pool Name NORTH YOUNG BONE SPRING			
Property Code 012993					'Property Name 'Well Nun YOUNG DEEP UNIT 2H				
Operator Name Operator Name Harvey E. Yates Company  3853.8									
					<sup>10</sup> Surface	Location			
UL or lot no.		Township		Lot Idn			Feet from the	East/West line	Соипту
С	10	18S	32E		660'	FNL	1,980'	FWL	LEA
			11 Bo	ottom Ho	le Location I	f Different Fron	n Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	9	18S	32E		1,480'	FNL	1 <del>,320</del> °	FEL	LEA
12 Dedicated Acres	<sup>13</sup> Joint or	Infili	"Consolidation	Code "Or	der No.		1340	perbw	
280	1		U	1	<b>√</b> A			y = - 3500	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-



# N. EXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-55

and the second s	All distances must l	e from the outer hounds	ries of the Section		
Harvey E. Yates Co	) <b>.</b>	Yo	ung Deep Unit	•	W-11 Nr.
		1 to mark	90.14		<u> </u>
C 10	18 South	32 East		Lea	
660	North	1980	lest from the	/est	itne
arged port from 100 forting		Fool		( materi	ated Acreage;
the second process of the second continues of the second	ne Springs				40 Avins
1. Outline the acreage dec	licated to the subject	well by colored pe	ncil of hachure ma	irks on the plat	t below.
2 If more than one lease interest and royalty).	is dedicated to the w	ell, outline each a	nd identify the owr	nership thereof	(both as to working
3. If more than one lease of dated by communitization			well, have the inte	prests of all o	wners been consoli-
[ Yes [X ] No	f unswer is "ves!" typ	e of consolidation _			
If unswer is "no," list this form if necessary.). No allowable will be ass forced-pooling, or otherwision.	igned to the well until	all interests have l	been consolidated	(by communit	ization, unitization.
Hevo	o, et al	t		CER	TIFICATION
1980'	/NM-16350-A			Bob We rent to be st of my knowledge Bob We rent to be stored by the sto	llion
			1	, it is	
	REG. PAOS	STATE OF STA	SURVEYOR	shown on this plantes of actual under my superv	that the well landing lat was plotted from the latest surveys made by me or ission, and that the some creat to the best of me elsel.
		ONN W. WEST	1 1	10-10-80	Size () Engineer
passenger passenger passenger	type (20)	NA STATE OF THE ST	111111111111111111111111111111111111111	Zertillone No. JO PAT Roi	HR W. WEST 676 FRICK A ROMERO 5668 hgld J Eidson 3239

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

			WELL LO	CATIO	N AND ACR	EAGE DEDIC	ATION PLA	T /		
<sup>1</sup> API Number 30-025-27121				<sup>1</sup> Pool Code 65350				'Pool Name NORTH YOUNG BONE SPRING		
Property Code 012993		(	'Property Name YOUNG DEEP UNIT			/ '		Vell Number 2H		
'OGRID No. 010174				Operator Name Harvey E. Yates Company				'Elevation 3853.8		
				\	10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
С	10	18S	32E		660'	FNL /	1,980'	FWL	LEA	
	11 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	
G/H?	9	188	32E		1,480'	FNC	1,320'	FEL	LEA	
Dedicated Acres	<sup>13</sup> Joint or	Infill	Consolidation (	- 1	der No. VA					

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 <sup>17</sup> OPERATOR CERTIFICATION YOUNG DEEP UNIT 2H I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. NMNM-14789-A NMNM16350-A **Bob Williams** Printed Name bwilliams@heyco.org Drilling Supt. Title and E-mail Address 10-11-05 NMNM-12567 NMNM9018 NMLG-064009-B <sup>18</sup>SURVEYOR CERTIFICATION WEST HALF SECTION 10 EAST 1/2 SECTION 9 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. original -Date of Survey Signature and Seal of Professional Surveyor: orig by Certificate Number

# **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 Company

Street or Box: P.O. Box 1933

City, State: Roswell, New Mexico

Zip 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.:

Lease Name: Young Deep Unit 2H

Legal description of land: T18S, R32E, Lea County, New Mexico

Section 9

**SECTION 10** 

NMNM-9018

**NW/NE & SW/NE** 

NMNM-14789A

NW/NW

NMLC-064009D

NE/NE & SE/NE

NMNM-12567 NMNM-16350A SW/NW NE/NW

Formation(s) (if applicable): Bone Springs 2nd Sand

**Bond Coverage: State Wide Bond** 

**BLM Bond No.:NMB000317** 

Authorized Signature: Bol W allen

**Title: Drilling Superintendent** 

DATE:

10/21/05

# **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 Company

Street or Box:

P.O. Box 1933

City, State:

Roswell, New Mexico

Zip 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.:

Lease Name: Young Deep Unit 2H

Legal description of land: Sec 10, T18S, R32É, Lea County, New Mexico

Formation(s) (if applicable): Bone Springs 2nd Sand

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

**BLM Bond File No.:** 

Authorized Signature: Belleville

**Title: Drilling Superintendent** 

DATE:

10/11/05

Young Deep Unit #2H 660' FNL & 1,980' FWL Sec 10, T18S, R32E Lea County, NM

# **Drilling Procedure**

- 1. Smooth off location and add additional caliche on North side of location for closed loop system.
- 2. Install anchors and MIRU rig.
- 3. Dig out wellhead and remove dry hole marker.
- 4. Install 8 5/8" SOW x 11" 3M casing head. NU 11" 3M x 7 1/16" 5M tubing head
- 5. NU BOP stack and drill out all cement plugs to 4 1/2" casing stub plug @ 7,200'
- 6. Dress off top of casing stub plug.
- 7. RU Scientific Drilling and run gyro survey.
- 8. RU Baken Enteq & GIH with 7 7/8" bit, mud motor, & bent sub.
- 9. Start building angle and drill @ 256° azimuth, being @ 90° @ 9,950'.
- 10. After 90° achieved, drill 50'
- 11. Run and cement 5 1/2" 17# J-55 casing, bringing cement up into 8 5/8" casing.
- 12. WOC 18 hours.
- 13. Drill out cement & float equipment.
- 14. Continue drilling 1,000' of horizontal hole with a slight build to TVD of 8935 @ end of lateral.
- 15. Run and cement 3 1/2" 9.3# P-110 flush jt liner, bringing cement back into 5 1/2" casing.
- 16. Perforate and frac "C" bench.

# Application Harvey E. Yates Company Young Deep Unit #2H SEC 10, T18S, R32E 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 alluvium and bolson deposits.

2. Estimated Tops of Significant Geologic Markers:

Rustler	1,240	BSPG A Zone	7,830	
Yates	2,720	<b>BSPG 1st Sand</b>	7,970	
Seven Rivers	3,150	B-Zone	8,165	
Bowers	3,610	<b>Kick Off Point</b>		T.V.D.
Queen	3,860	<b>BSPG 2nd Sand</b>	8,513	8,440
Penrose	4,110	Base A Bench	8,565	8,500
Grayburg	4,400	Top B Bench	8,703	8,655
San Andres	4,890	Top C Bench	9,080	8,860
Delaware	4,960	1st Horz. Point	9,570	8,956
BSPG LS	6,275	BHL Target @TD	11,660	8,935

3. Estimated Depths at which Water, Oil, or Gas Formations are expected:

Oil: 9,570 Gas: 9,570

4. Proposed Casing Program:

See Form 3160-3

5. Pressure Control Equipment:

This well will be rated 2M, but actual BOP Stack will be rated 5M

6. Drilling Fluid Program:

See Form 3160-3

7. Auxiliary Equipment:

No auxiliary equipment

8. Testing, Logging, and Coring Program:

Mud Log and Gamma Ray MWD

9. Abnormal Conditions, Pressures, Temperature, or Potential Hazards:

No abnormal conditions are anticapated in this wellbore

BHST 150° F

BHP 1500 psi

No H2S is present in this well.

10. Anticipated Starting Date & Duration of Operation:

Start Date: Approximately Dec 15, 2005. Duration of this project will be approximately 40 days from start of construction of drilling pad until finish of completion operations.

#### Surface Use Plan

Harvey E. Yates Company Young Deep Unit 2H Section 10, T18S, R32E Lea 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 US 82 & travel 31 miles east to the junction of NM 529. Turn Southeast and go 7 miles. Turn south on NM 126. Go 1.7 miles and turn left on caliche road. Go .9 miles to 5 way intersection. Turn left & go .8 miles. Turn left & go .4 miles. Turn right in front of waterflood station. Go .3 miles & turn left into location.

# 2 Planned Access Roads:

No 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.

#### 6 Source of Construction Material:

We will use materials from a state approved caliche pit 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.

# 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 rolling and sandy
- 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 will be 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 will be done a copy has been sent to the Carlsbad BLM office. 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.

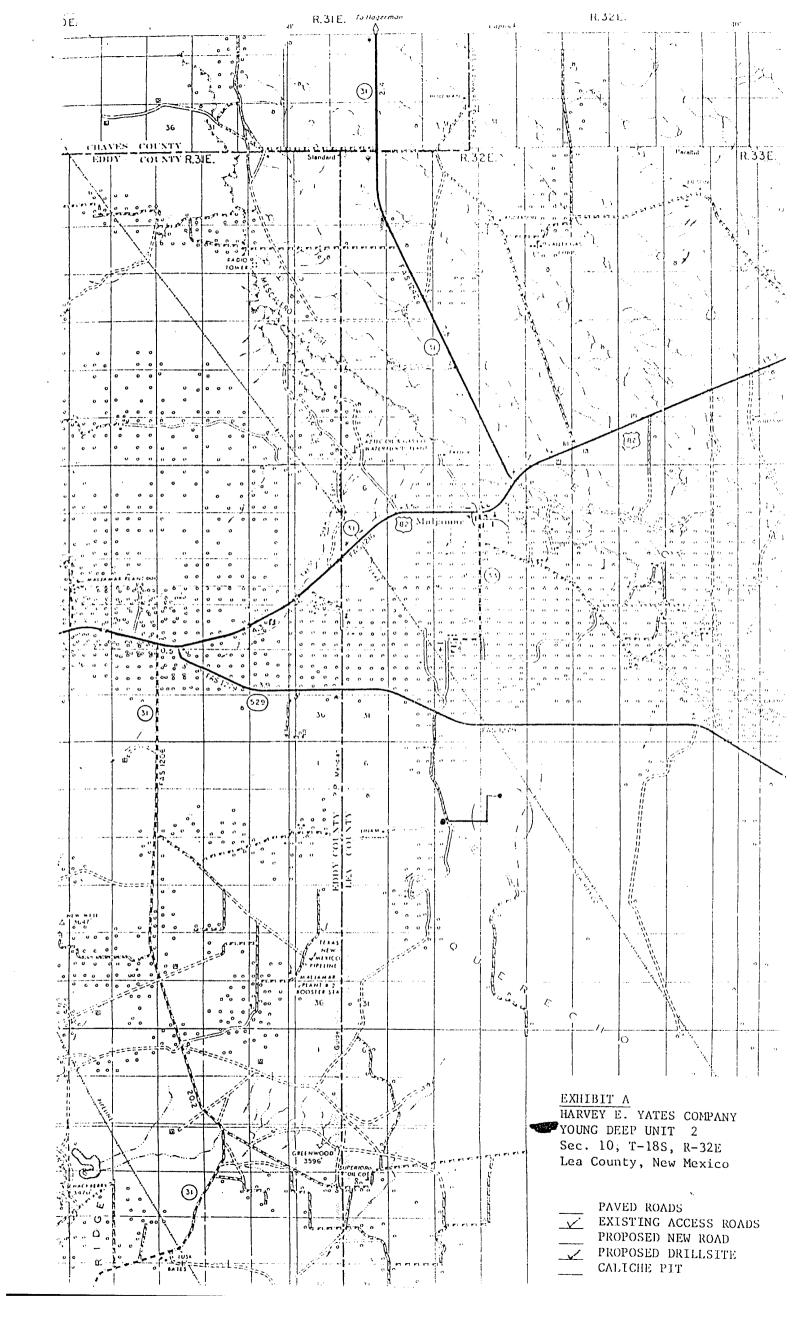
# 12 Operator's Representative:

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.

10/11/05

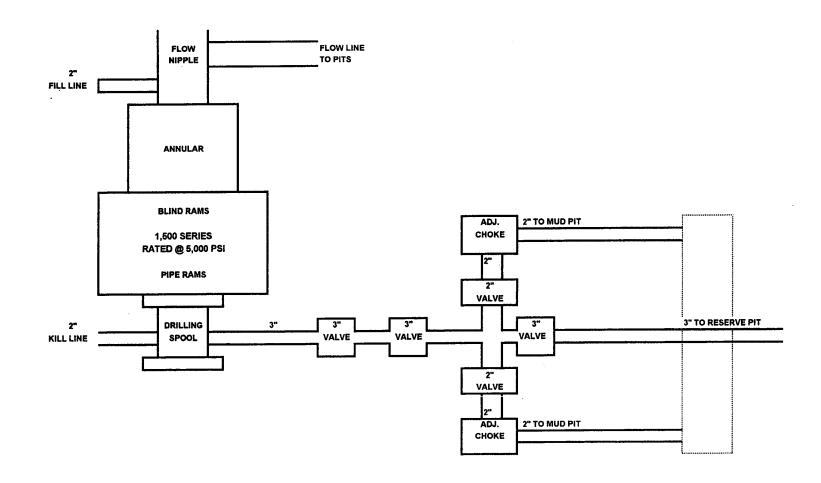
Bolwillian

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



# EXHIBIT "C" BOP STACK

Young Deep Unit 2H 660' FNL & 1,980' FWL Sec 10, T18S, R32E Lea County, NM

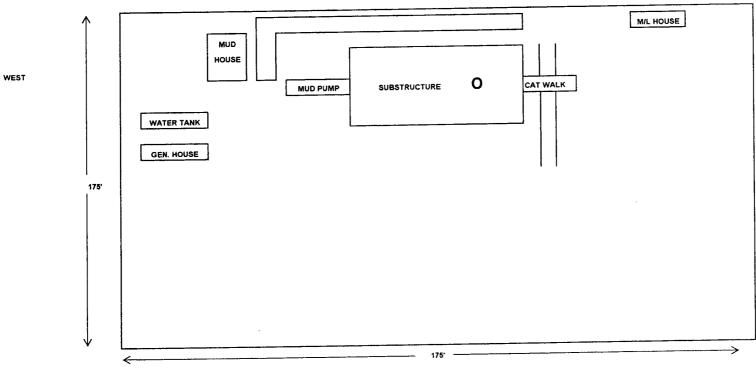


# **EXHIBIT "D" LOCATION DIAGRAM**

Young Deep Unit 2H 660' FNL & 1,980' FWL Sec 10, T18S, R32E Lea County, NM

NORTH

# NO RESERVE PITS WILL USE CLOSED LOOP SYSTEM



SOUTH

EAST

# III. Pressure Control (continued):

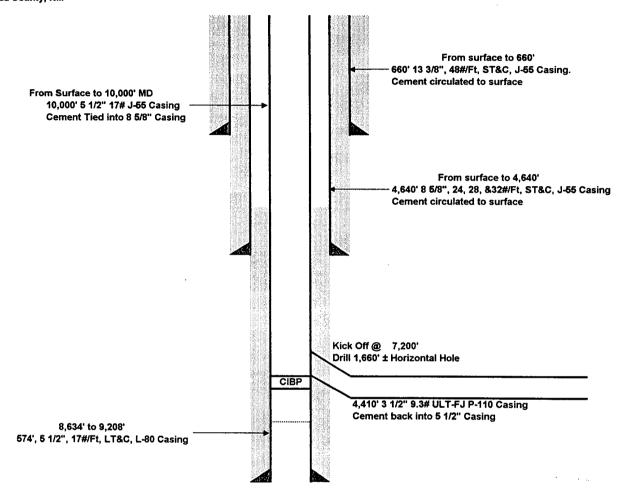
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the test.
- -The test shall be done by an independent service company
- -The results of the test shall be reported to the appropriate BLM office.
- -Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures.
- -Use of drilling mud for testing is not permitted since it can mask small leaks.
- -Testing must be done in safe workman-like manner. Hard line connections shall be required.
- -Both low pressure and high pressure testing of BOPE is required.

G Gourley 10/26/05

# EXHIBIT "E" CASING DESIGN

Young Deep Unit 2H 660' FNL & 1,980' FWL Sec 10, T18S, R32E Lea County, NM

13 3/8", 8 5/8" Casings are in place and cemented.



# SPECIAL DRILLING STIPULATIONS

# THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's Name Harvey E. Yates Co Well Name & No. Young Deep Unit #2 H  Location 660 FNL & 1980 FWL Sec. 10 , T. 18 S, R 32 E. SHL  Lease No. NM-16350-A County Lea State New Mexico  Location 1480' FNL & 1320' FEL, Sec. 10, T.18S., R.32E. BHL  The Special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office.  EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CRF 3165.3 AND 3165.4.
This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.
I. SPECIAL ENVIRONMENT REQUIREMENTS
(X ) Lesser Prairie Chicken (stips attached) ( ) San Simon Swale (stips attached) ( ) Other
II. ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING
(X) The BLM will monitor construction of this drill site. Notify the (X) Carlsbad Field Office at (505) 234-5972 ( ) Hobbs Office (505) 393-3612, at least 3 working days prior to commencing construction.
(X) Roads and the drill pad for this well must be surfaced with6 inches of compacted caliche.
( ) All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximatelyinches in depth. Approximatelycubic yards of topsoil material will be stockpiled for reclamation.
(X) Other.
III. WELL COMPLETION REQUIREMENTS
( ) A Communlitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.
( $X$ ) Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and topsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at depth of $\frac{1}{2}$ inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre.
( ) A. Seed Mixture 1 (Loamy Sites) Side Oats Grama (Bouteloua curtipendula) 5.0 Sand Dropseed (Sporobolus cryptandrus) 1.0 Sand Lovegrass (Eragostis trichodes) 1.0 Plains Bristlegrass (Setaria magrostachya) 2.0
( ) C. Seed Mixture 3 (Shallow Sites) Side oats Grama (Boute curtipendula) 1.0  ( ) D. Seed Mixture 4 (Gypsum Sites) Alkali Sacaton (Sporobollud airoides) Four-Wing Saltbush (Atriplex canescens) 5.0
( ) OTHER SEE ATTACHED SEED MIXTURE
Seeding should be done either late in the fall (September 15 - November 15, before freeze up, or early as possible the following spring to take advantage of available ground moisture.
( ) Other.

# RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6 mil plastic.

Mineral material extracted during construction of the reserve pit may be used for development of the pad and access road as needed. Removal of any additional material on location must be purchased from BLM.

<u>Reclamation</u>: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

# OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

- (1) Lined as specified above and
- (2) A borrow/caliche/gravel pit can be constructed immediately adjacent to the reserve pit and it capable of containing all reserve pit contents. The mineral material removed in the process can be used for pad and access road construction. However, a material sales contract must be purchased from the BLM prior to removal of the material.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be recontoured, all trash removed, and reseeded as specified in this permit.

# **CULTURAL**

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to processed by BLM.

# TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

# PRAIRIE CHICKENS

No surface use is allowed during the following time periods; unless otherwise specified, this stipulation does not apply to operation and maintenance of production facilities.

On the lands described below: All of Section 10 T. 18 S., R. 32 E.

For the purpose of: Protecting Prairie Chickens:

Drilling for oil and gas, and 3-D geophysical exploration operations will not be allowed in Lesser Prairie Chicken Habitat during the period of March 15 through June 15, each year. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 a.m. and 9:00 a.m. The 3:00 a.m. and 9:00 a.m. restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during the period. Additionally, no new drilling will be allowed within up to 200 meters of leks know at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Bureau of Land Management Carlsbad Field Office SENM-S-22 December 1997

# CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Harvey E. Yates Company Well Name & No: Young Deep Unit No 2 H

Surface Location: 660' FNL & 1980' FWL, Sec.10, T. 18 S., R. 32 E.

Bottom Hole Location: 1480' FNL & 1320' FEL, See 9, 7. 185, K. 32 C. (56)

Lease: NMNM 16350-A Lea County, New Mexico

#### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell, NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

# A. Spudding

- B. Cementing casing: Existing sting. A 5 ½ inch casing segment will be set from the vertical hole into the horizontal angle, then a 3 ½ inch liner will be set into the horizontal segment and both pipes cementing.
- C. BOP Tests
- 2. A Hydrogen Sulfide (H2S) Drilling Plan is not required for this wellbore.
- 3. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

# II. CASING:

- 1. The existing casing string is as follows: 13 % inch @ 660 ft., 8 % inch @ 4640 ft., 5 ½ inch 9620 ft., and comented.
- 2. A 3 ½ inch liner will be run from 8900 ft. into the horizontal leg of the hole to TD and cemented.

# III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling out of existing hole.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2 M psi. Operator is going to nipple up a 3 M BOPE.

BLM Serial Number: NM-16350-A Company Reference: Harvey E. Yates Co.

Well No. & Name: Young Deep Unit #2H

# STANDARD STIPULATIONS FOR PERMANENT RESOURCE ROADS CARLSBAD FIELD OFFICE

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

The holder/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application for Permit to Drill (APD) and/or Right-of-Way (ROW).

# GENERAL REQUIREMENTS

- A. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- B. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- C. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- D. If, during any phase of the construction, operation, maintenance, or termination of the road, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting there from the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.
- E. The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times.

The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

F. The Holder shall ensure that the entire right-of-way, including the driving surface, ditching and drainage control structures, road verges and any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar. The Holder agrees to comply with the following stipulations:

# ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10 percent unless the box below is checked. Maximum width of surface disturbance from construction will be 30 feet.

/\_\_/ Those segments of road where grade is in excess of 10% for more than 300 feet shall be designed by a professional engineer.

# 2. CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

	/ Ditching will be required on both sides attached map or as staked in the field.	of the roadway as shown on the
//	Flat-blading is authorized on segment(s	) delineated on the attached map.
3.	DRAINAGE	

Drainage control shall be ensured over the entire road through the use of borrow ditches, out-sloping, in-sloping, natural rolling topography, lead-off (turnout) ditches, culverts, and/or drainage dips.

A. All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval for lead-off ditches shall be determined according to the following table, but may be amended depending upon existing soil types and centerline road slope (in %):

# SPACING INTERVAL FOR TURNOUT DITCHES

Percent slope	Spacing interval
0% - 4%	400' - 150'
4% - 6%	250' - 125'
6% - 8%	200' - 100'
8% - 10%	150' - 75'

A typical lead-off ditch has a minimum depth of 1 foot below and a berm 6 inches above natural ground level. The berm will be on the down-slope side of the lead-off ditch. The ditch end will tie into vegetation whenever possible.

For this road the spacing interval for lead-off ditches shall be at

 /_x_/	400 foot intervals.
	foot intervals.
	locations staked in the field as per spacing intervals above.
	locations delineated on the attached map.

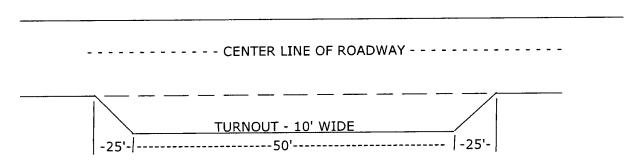
- B. Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The minimum culvert diameter must be 18 inches. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water. Culvert location and required diameter are shown on the attached map (Further details can be obtained from the Roswell District Office or the appropriate Resource Area Office).
- C. On road slopes exceeding 2%, drainage dips shall drain water into an adjacent lead-off ditch. Drainage dip location and spacing shall be determined by the formula:

spacing interval = 400' + 100' road slope in %

Example: 4% slope: spacing interval =  $\underline{400}$  + 100 = 200 feet

#### 4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:



STANDARD TURNOUT - PLAN VIEW

# 5. SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

A sales contract for the removal of mineral materials (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to using any such mineral material from public lands. Contact the BLM solid minerals staff for the various options to purchase mineral material.

# 6. CATTLEGUARDS

Where used, all cattleguard grids and foundation designs and construction shall meet the American Association of State Highway and Transportation Officials (AASHTO) Load Rating H-20, although AASHTO U-80 rated grids shall be required where heavy loads (exceeding H-20 loading), are anticipated (See BLM standard drawings for cattleguards). Cattleguard grid length shall not be less than 8 feet and width of not less than 14 feet. A wire gate (16-foot minimum width) will be provided on one side of the cattleguard unless requested otherwise by the surface user.

#### MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

# 8. PUBLIC ACCESS

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the Authorized Officer.

# 9. CULTURAL RESOURCES

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the authorized officer after consulting with the holder.

# 10. SPECIAL STIPULATIONS: