Form 3160-3	-	NM (DRA)	OIL CON			ION iplicate	30-015-		N.,	4
(July 1992)	U DEPARTM	NITED STATE ENT OF THE I	BIA, NA	M 8821	or instruc Oerse si		OMB Expires:	M APPRO NO. 1004 February	-0136 28, 1995	
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2. NAME OF OPERATO	* roleum Corporat	ion V	· · · · · · · · · · · · · · · · · · ·	,			Hickory		Federal	
3. ADDRESS AND TELEPHON		23	5575	· · · · · · · · · · · · · · · · · · ·	AUG I	1.'94	9. API WELL NO.			-
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(This space for l	Federal or State office us	e)					APPRO	/AL SUB	JECT TO	-
PERMIT NO.									IREMENTS	
Application approval of CONDITIONS OF APPR	does not warrant or certify that : OVAL, IF ANY:	the applicant holds legal or e	quitable title to f	those rights in t	ihe subject li	ease which w		IED		reon⊾
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*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United Status and film for a gency of the

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

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator					Lease			<u> </u>	Wall No
	וידינו								Well No.
Unit Letter	Secti		ORPORATION		HICK	DRY "AL	V" FEDERAL		3
	Secu		Township		Range			County	
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Actual Footage Loc									
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4344.			anvin		Indian	Darm-1	TARLE YAWA	AUGLAN	320 Acres
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3. If mor	re than (rce-pooling, et	ferent ownership is dea	dicated to the	well, have the is	nterest of all	owners been cons	olidated by comm	nunitization,
	Yes	rce-pooting, et		r is "vec" time	of consolidation	-			:
If answer		list the owner	s and tract description	s which have a	ctually been co	nsolidated (I lee reverse side		
this form	i if necc	essary.							
No allow	able wi	ll be assigned	to the well until all inte	erests have bee	n consolidated	(by commun	itization, unitization	on, forced-pooling	2, or otherwise)
or until a	non-sta	indard unit, eli	minating such interest,	has been appr	oved by the Di	vision.			
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YATES PETROLEUM CORPORATION Hickory "ALV" Federal #3 2166' FSL and 2253' FWL Sec. 17-T22S-R24E Chaves County, New Mexico

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

San Andres	1165'
Glorietta	2670'
Bone Springs	3395'
Wolfcamp	7475'
Canyon	8271'
Lower Strawn	9016'
Atoka	9442'
Morrow	10004'
TD	10500'

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

Water: 0' - 200' Oil or Gas: 8200' and 10500'

3. Pressure Control Equipment: BOPE will be installed on the 13 3/8" casing and rated for 3000 BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:

<u>Hole Size</u>	Casing_Size	<u>Wt./Ft</u>	Grade	<u>Thread</u>	Coupling	Interval	Length
17 1/2"	13 3/8	48#	H40	8R	ST&C	0-225'	225'
12 1/4"	8 5/8"	24#	K55	8R	ST&C	0-2200'	2200'
12 1/4"	8 5/8"	24#	S80	8R	ST&C	2200'-2600'	400'
7 7/8"	5 1/2"	17#	N80	8R	LT&C	0'-10500''	10500'

A. Casing Program: (All New)

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Joint Strength 1.8

Hickory "ALV" Federal #3 Page 2

B. CEMENTING PROGRAM:

Surface casing: 150 sx Class "C" + 2% CaCl2 (Circulate).

Intermediate Casing: Lead 525 sx Lite + Cellophane, Tail 100 sx Class "C" + 2% CaCl2.

Production Casing: Lead 125 sx Lite + Cellophane, Tail 275 sx "H" + 2% Gel.

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	_Түре	Weight	Viscosity	Fluid Loss
0-225'	Fresh	8.3 - 9.0	25-40	N/C
225-2200'	Salt-FW Salt 5	9.3 - 10	25-40	N/C
2200-10500'	Salt 57	9.5 - 10	25-40	<15 cc in Pay

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

From: 2200'

Samples: 10' samples surface casing to TD. Logging: CNL/LDT, DLL W RXO. Coring: None DST's: As warranted.

 Abnormal Conditions, Bottom hole pressure and potential hazards: Anticipated BHP: From: 0' TO: 225' Anticipated Max. BHP: <100 PSI From: 225' TO: 2200' Anticipated Max. BHP: <100 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: Possible in San Andres.

TO: 10500'

H2S Zones Anticipated: Possible in Canyon

Maximum Bottom Hole Temperature: 130 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 21 days to drill the well with completion taking another 7 days.

Anticipated Max. BHP: < 5000

PSI

YATES PETROLEUM CORPORATION

H2S Drilling Operations Plan

1 .

Personnel employed at the rig site shall receive training in H2S detection, safe drilling procedures and contingency plans. H2S safety equipment shall be installed and functional 3 days or 500 feet prior to encountering known or probable H2S zone at _//65__ feet.

Submitted with the APD is a well site diagram showing : 1) Drilling rig orientation, location of flare pit.

2) Prevailing wind direction.

3) Location of access road.

Primary briefing area will be established 150' from wellbore and up wind of prevailing wind direction. Secondary briefing area will be established 180 degrees from primary briefing area.

A H2S warning sign will be posted at the entrance of the location. Depending on conditions, a green, yellow, or red flag will be displayed. Green - Normal conditions Yellow - Potential danger Red - Danger H2S present.

. . . .

Wind indicators will be placed on location at strategic, highly visible areas. H2S monitors (a minimum of three) will be positioned on location for best coverage and response. H2S concentrations of 10 ppm will trigger a flashing light and 20 ppm will trigger an audible siren.

H2S breathing equipment will consist of:

- 1) 30 minute "pressure demand" type working unit for each member of rig crew on location.
- 2) 5 minute escape packs for each crew member.
- 3) Trailer with a "cascade air system" to facilitate working in a H2S environment for time periods greater than 30 minutes.

Breathing equipment will be stored in weather proof cases or facilities. They will be inspected and maintained weekly.

The mud system will be designed to minimize or eliminate the escape of H2S at the rig floor. This will be accomplished through the use of proper mud weight, proper ph control of the drilling fluid and the use of H2S scavengers in the drilling fluid. A mud gas separator will be utilized when H2S gas is present in the mud.

Drilling experience has shown that wells in developmental areas, (i.e. Dagger Draw, Livingston Ridge Delaware, and Lusk Delaware) are normally pressured and don't experience either H2S kicks or loss of returns. Due to these circumstances, we request exceptions to the rule requiring flare line with remote lighter and choke manifold with minimum of one remote choke. This equipment would be provided on exploratory wells or wells with the known potential for H2S kicks. Additionally, a SO2 monitor would be positioned near the flare line, and a rotating head utilized.

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The drill string, casing, tubing, wellhead, blowout preventers and associated lines and valves will be suitable for anticipated H2S encounters.

Radio and or mobile telephone communication will be available on site. Mobile telephone communication will be available in company vehicles.

Drill stem testing to be performed with a minimum number of essential people on location. They will be those necessary to safely conduct the test. If H2S is encountered during a drill stem test, essential personnel will mask up and determine H2S concentration. The recovery will then be reversed to flare pit. Pulling of test tools will be conducted in a safe manner.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Yates Petroleum Corporation Hickory "ALV" Federal #3 2166' FSL and 2253 FWL Sec. 17-T22S-R24E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 32 miles Northwest of Carlsbad, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go North of Carlsbad on Highway 285 for 12.5 miles to Highway 137. Turn west and go 14 miles to caliche road. Turn east on Caliche road for 1.5 miles. Take right, fork in road. Will use and upgrade two track road going south for approximately 2000'. Will turn west and do a new road to location.

2. PLANNED ACCESS ROAD

- A. The proposed new access will be approximately 4000' in length from the point of origin to the northeast of the drilling pad. The road will lie in a South to West direction.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on one side. Some traffic turnouts will be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

3. LOCATION OF EXISTING WELL

- A. There is drilling activity within a one-mile radius of the wellsite.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.

10. PLANS FOR RESTORATION

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- 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 level after they have evaporated and dried.
- 11. SURFACE OWNERSHIP: Bureau of Land Management

Bureau of Land Management, Carlsbad, New Mexico.

- 12. OTHER INFORMATION:
 - A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
 - B. The primary surface use is for grazing.
- 13. OPERATOR'S REPRESENTATIVE
 - A. Through A.P.D. Approval:

Ken Beardemphl, Landman Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 B. Through Drilling Operations, Completions and Production:

> Mike Slater, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

14. CERTIFICATION:

I hereby 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 presently exist; that the statements made in this 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 Yates Petroleum Corporation 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.

Landman

8/5/93

- Bantin





YATES PETROLEUM CORPORATION



typical choke manifold assumby for 14 rated working pressure service-surface installation

EXHIBIT B

THE FOLLOWING CONSTITUES THE MINIMUM BLOWOUT PREVENTER REQUIREMENTS FOR 3000 PSI WP SYSTEMS

- 1. All preventers to be hydraulically operated with secondary manual controls installed prior to drilling out from under casing.
- 2. Choke outlet to be a minimum of 3" diameter.
- 3. Kill line to be of all steel construction of 3" minimum diameter.
- 4. All connections from operating manifolds to preventers to be all steel. Hole or tube to be a minimum of one inch in diameter.
- 5. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
- 6. All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
- 7. Inside blowout preventer to be available on rig floor.
- 8. Operating controls to be located a safe distance from the rig floor.
- 9. Hole must be kept filled on trips below intermediate casing.

YATES PETROLEUM CORPORATION



Scale: linch = 50 feet

YATES PETROLEUM CORPORATION

HICKORY "ALV" FEDERAL #3 2166' FSL & 2253' FWL Section 17-T22S-R24E Eddy County, New Mexico

RIG LAYOUT EXHIBIT C

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