685

Form 3160-3 (August 1999)

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PPLICATION FOR PERMIT TO DRILL OR REENTER

0 OMB No. 1004-0136 Expires November 30, 20 5. Lease Serial No.

	Expires November 30, 2000
5.	Lease Serial No.
	NM-7805

6. If Indian, Allottee or Tribe Name

1a. Type of Work: X DRILL	REE	ENTER	-	7. If Unit or CA Agreemen	t, Name and No.	
b. Type of Well: Oil Well Gas Well	Other	Single Zone	Multiple Zone	8. Lease Name and Well N Flick BIQ Federal	7000	
	3575	- 20.10		9. API Well No.		
Yates Petroleum Corporation		ntrolled Water Basin		30-015	- 35607	
3A. Address 105 South Fourth Street		3b. Phone No. (include area cod	'e)	10. Field and Pool, or Explo	oratory	
Artesia, New Mexico 8821	0	(505) 748-147	71 Eag	e Clack Wolfcam	ıp qı	
4. Location of Well (Report location clearly and in ac	ccordance with any	State requirements.*))	11. Sec., T., R., M., or Blk,		
At surface 660' FS	L and 760' FE	L Surface Location 🥕	,	Section 4, T17	7S-R24E	
At proposed prod. Zone 660' FNL	and 760' FEL	Bottom Hole Location	1-1A			
14. Distance in miles and direction from nearest town	or post office*			12. County or Parish	13. State	
Approximately 11 miles west of Art	esia, New Me	xico.		Eddy County	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	660'	16. No. of Acres in lease	17. Spacing Ur	nit dedicated to this well		
18. Distance from proposed location*		520.32	20 7714/774	E/2		
A 10° 4-216 1-4 - 1	1/2 mile	19. Proposed Depth 4760'	20. BLM/BIA	Bond No. on file NMB-000434		
		22. Approximate date work will	start*	23. Estimated duration		
3737' GL		ASAP		45 day	s	
		24. Attachments				
The following, completed in accordance with the requi	rements of Onshore	Oil and Gas Order No. 1, shall b	e attached to this	form:		
1. Well plat certified by a registered surveyor.		4. Bond to cove	er the operations	unless covered by an existing	bond on file (see	
2. A Drilling Plan.		Item 20 abov	/e).			
3. A Surface Use Plan (if the location is on National F	•	s, the 5. Operator cert	ification.	÷ .		
SUPO shall be filed with the appropriate Forest Ser	vice Office.	6. Such other si authorized of	•	ation and/or plans as may be r	equired by the	
25. Signature		Name (Printed/Typed)		Date		
in mai		Cy Cowan		ļ ļ	4/13/2007	
Regulatory Agent					,	
Regulatory Agent		-				
Approved by (Signature) James A. Amo	•	Name (Printed/Typed)	es A. Amos	Date	MAY 0 8 200	

Application approval does not warrant or certify that the operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section States any false, fictitious or fraudulent statements or rep

*(Instructions on reverse)

ACTING

Title

C-144 attached

FIELD MANAGER

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

Office

o make to any department or agency of the United

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

CARLSBAD FIELD OFFICE

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

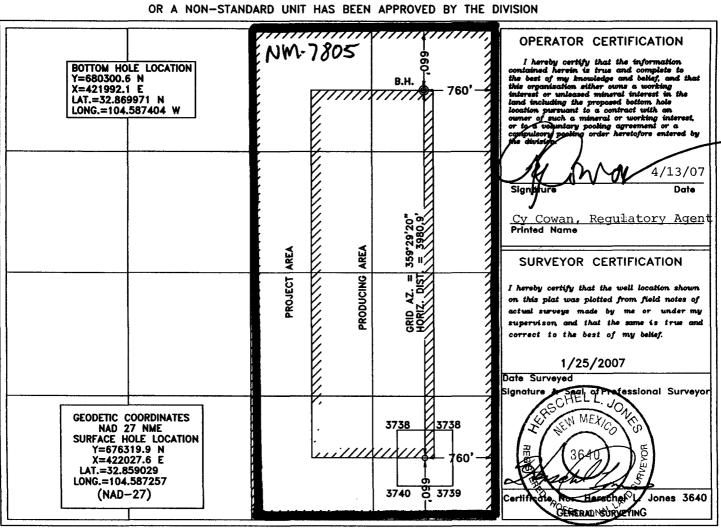
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe. NM 87505 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number			Pool Code	2 5	as le Ch	Pool Name	np		
Property Code			1	(30.	Property Nam		(2.1.)	Well Number	
					FLICK "BIQ"	FEDERAL		11-	ł
OGRID No.					Operator Nam	<u>.</u>		Elevat	ion
025575				YATES PE	TROLEUM COR	PORATION		3737	
	······			***	Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P 4 17S		24E		660	SOUTH	SOUTH 760		EDDY	
		<u> </u>	Bottom	Hole Loca	tion If Differe	ent From Surface	8		•
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	4	178	24E		660	NORTH	760	EAST	EDDY
Dedicated Acres	Joint o	r Infill C	onsolidation (ode Ord	er No.		<u> </u>	<u> </u>	J
320	1								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



YATES PETROLEUM CORPORATION Flick BIQ Federal #1H

660' FSL & 760' FEL (Pilot Hole) 660' FNL & 760' FEL (Bottom Hole) Section 4-T17S-R24E Eddy County, New Mexico

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

San Andres	375'	Base Wolfcamp Pay	4748'
Glorietta	1710'	Base Wolfcamp Shale	4760'
Tubb	3025'	TD (Pilot Hole)	5000'
Abo	3675'	TD (Lateral Hóle)	8000'
Wolfcamp	4695'	(======================================	

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

Water:

430'

Oil or Gas: All potential formations.

3. Pressure Control Equipment: BOPE will be installed on the 9 5/8" casing and the 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.

THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Casing Program: (All New)

<u>Hole Size</u>	Casing Size	Wt./Ft	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>	
17 1/2"	13.3/8"	48#	H-40	ST&C	0- 350'	350'	
12 1/4"	9.5/8"	36#	J-55	ST&C	0-1100'	1100'	
**8 3/4"	7.0"	26#	J-55	ST&C	0-4830'	4830'	
7 7/8"	5.5"	17#	HCP-110	LT&C	0-8509'MD	8509'	

***Pilot hole will be drilled to 5000'. Well will then be plugged back and kicked off at approximately 4330' at 15 degrees per 100' with an 8 ¾" hole to 4830' MD. If hole conditions warrant, 7" casing will be set and cemented back to previous casing. A 6 1/8" hole will then be drilled to a TD of 8509' and 4 1/2" casing will be set and cement tied back to the 7" casing. If 7" casing in not warranted then hole size will be reduced to 7 7/8" and drilled to 8509'. 5 ½" casing will be set and cemented.

Yates Petroleum Corporation requests a variance to install a rotating head on the surface casing strings when intermediate casing will be set. If a BOP system is required then we wish to install a 2M system and receive a variance to test the system to 500# using the rig pumps. The test will be held for 30 minutes on each system component. Components to be tested include pipe rams, blind rams, and annular preventer.

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

COVIS

Flick BIQ Federal #1H Page Two

B. CEMENTING PROGRAM:

Surface Casing: 400 sx 'C' + 2% CaCl2 (YLD 1.35 WT 14.8). TOC-Surface

Intermediate Casing: 225 sx C lite + 2% CaCl2 (YLD 1.98 WT 12.5) Tail in with 200 sx 'C' (YLD 1.34 WT 14.8). TOC-Surface.

Production Casing: Lead with 800 sx lite C (YLD 2.05 WT 12.5). Tail in with 700 sx acid solution (YLD 2.60 WT 11.15).

Ser Jamy Keritarian Shipurmar

If 7' casing is run a 6 1/8" hole will be drilled and 4 $\frac{1}{2}$ " production casing will be set. (TOC-1000') Lead w/ 775 sx Lite 'C" (YLD 2.05 WT 12.5). Tail in w/1200 sx Magne Plus (YLD1.05 WT 13).

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-350'	Fresh Water	8.4-8.9	32-36	N/C
350'-1100'	FW Gel/Air Mist	8.4-8.9	28-34	N/C
1100'-5000'	Cut Brine	8.8-9.2	28	N/C
	(Horizonta	al Section)		
4330'-8509'	Cut Brine	8.8-9.2	28	N/C

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. Rig personnel will check mud hourly.

6. EVALUATION PROGRAM:

Samples: 10' samples out from under intermediate casing.

Logging: Platform Express/HALS, FMI (Pilot Hole).

Coring: Rotary Sidewall Cores (Pilot Hole).

DST's: None Anticipated.

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticipated BHP:

From:	0	TO:	350'	TVD	Anticipated Max. BHP:	162	PSI
From:	350'	TO:	1100'	TVD	Anticipated Max. BHP:	510	PSI
From:	1100	TO:	5000'	TVD	Anticipated Max. BHP:	2390	PSI

Abnormal Pressures Anticipated: None Lost Circulation Zones Anticipated: None. H2S Zones Anticipated: None Anticipated Maximum Bottom Hole Temperature: 168 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 45 days to drill the well with completion taking another 40 days.

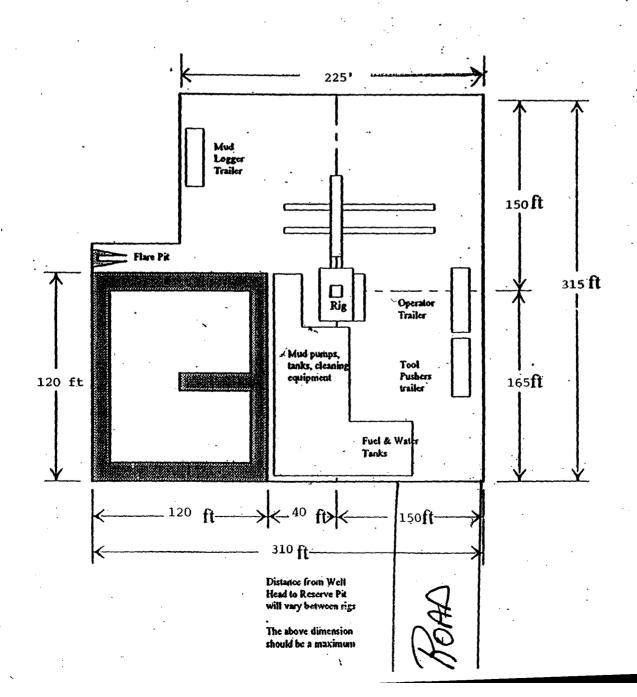
Yates Petroleum Corporation

Location Layout for Permian Basin Up to 12,000'

5

Pits North

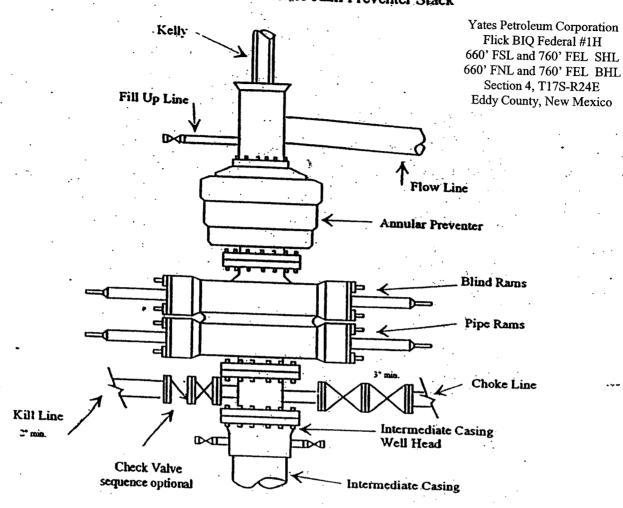
Yates Petroleum Corporation Flick BIQ Federal #1H 660' FSL and 760' FEL SHL 660' FNL and 760' FEL BHL Section 4, T17S-R24E Eddy County, New Mexico



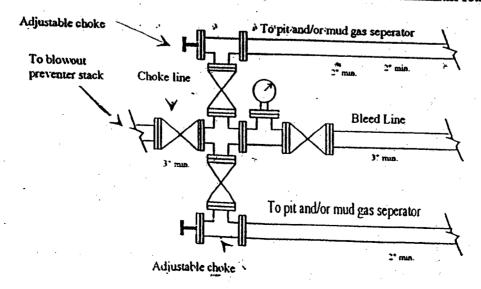


Yates Petroleum Corporation

Typical 3,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



Typical 3,000 psi choke manifold assembly with at least these minimun features



Yates Petroleum Corporation

Jersmiah Mullen (jmullen@ypcnm.com) (505)748-4378 105 S. Fourth Street Artesia, N.M. 88210

April 24, 2007

To Whom It May Concern:

The following is the contingency casing design and cement program for the Flick BIQ Federal #1H:

Size Wt. (#/ft.) Grade Depth Top of Cement
7" 23# J-55 0'-4830' 600'

Lead with 475sx C-lite (Yld 2.04 Wt. 12.5#) and tail with 225sx class C (Yld 1.33 Wt. 14.8).

4 1/2" liner 11.6# HCP-110 3830'-8509' 3830'

Lead with 175sx C-lite (Yld 2.05 Wt. 12.5) and tail with 675sx Magne Plus (Yld 1.05 Wt. 13.0).

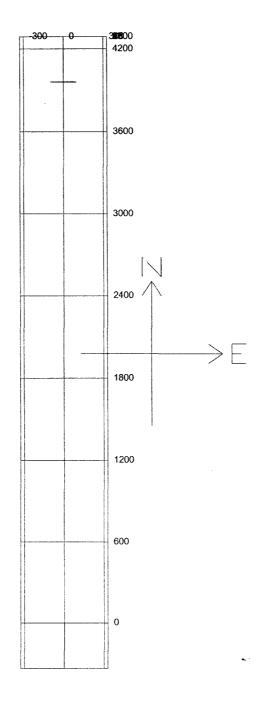
Please call me if you have any questions.

Sincerely, Jeremiah Mullen Drilling Engineer Asst.

	M.D. [ft]	Inclination [°]	Azimuth [°]	T.V.D. [ft]	N+/S- [ft]	E+/W- [ft]	D.L.S. [°/100ft]	ToolFace [°]	T.F. Ref. [HS/GN]
1_	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4330.00	0.00	0.00	4330.00	0.00	0.00	15.00	0	GN
3	4350.00	3.00	0.00	4349.99	0.52	0.00	15.00	0	HS
4	4375.00	6.75	0.00	4374.90	2.65	0.00	15.00	0	HS
5	4400.00	10.50	0.00	4399.61	6.40	0.00	15.00	0	HS
6	4425.00	14.25	0.00	4424.02	11.75	0.00	15.00	0	HS
7	4450.00	18.00	0.00	4448.04	18.69	0.00	15.00	00	HS
8	4475.00	21.75	0.00	4471.54	27.19	0.00	15.00	0	HS
9	4500.00	25.50	0.00	4494.44	37.21	0.00	15.00	0	HS
10	4525.00	29.25	0.00	4516.64	48.70	0.00	15.00	0	HS
11_	4550.00	33.00	0.00	4538.04	61.62	0.00	15.00	0	HS
12_	4575.00	36.75	0.00	4558.54	75.92	0.00	15.00	0	HS
13	4600.00	40.50	0.00	4578.07	91.52	0.00	15.00	0	HS
14	4625.00	44.25	0.00	4596.54	108.36	0.00	15.00	0	HS
15	4650.00	48.00	0.00	4613.86	126.38	0.00	15.00	0	HS
16	4675.00	51.75	0.00	4629.97	145.50	0.00	15.00	0	HS
17	4700.00	55.50	0.00	4644.79	165.62	0.00	15.00	0	HS
18	4725.00	59.25	0.00	4658.27	186.67	0.00	15.00	0	HS
19_	4750.00	63.00	0.00	4670.34	208.56	0.00	15.00	0	HS
20	4775.00	66.75	0.00	4680.95	231.19	0.00	15.00	0	HS
21_	4800.00	70.50	0.00	4690.06	254.47	0.00	15.00	0	HS
22_	4825.00	74.25	0.00	4697.63	278.29	0.00	15.00	0	HS
23_	4850.00	78.00	0.00	4703.63	302.56	0.00	15.00	0	HS
24_	4875.00	81.75	0.00	4708.02	327.16	0.00	15.00	0	HS
25	4900.00	85.50	0.00	4710.79	352.00	0.00	15.00	0	HS
26	4925.00	89.25	0.00	4711.94	376.97	0.00	15.00	0	HS
27	4939.09	91.36	0.00	4711.86	391.06	0.00	15.00	0	HS
28	8509.04	91.36	0.00	4627.00	3960.00	0.00	0.00		

3D³ Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation Well: Flick BIQ Federal #1



File: C:\Program Files\Drilling Toolbox 2001\Templates\Visual Wellbore\flick1H.wpp

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Flick BIQ Federal #1H

660' FSL & 760' FEL (Pilot Hole) 660' FNL & 760' FEL (Bottom Hole) Section 4-T17S-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 well site is located approximately 11 miles west of Artesia, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go west of Artesia on Highway 82 for approximately 10 miles to Joy Road. Turn right on Joy Road and go approximately 1.1 miles. The new road will start here going east.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately .3 of a mile in length from the point of origin to the southwest corner of the drilling pad.
- 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 both sides. Traffic turnouts may be needed.
- 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 well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is a producing gas well.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCE OF CONSTRUCTION MATERIALS:

The dirt contractor will be responsible for finding a source of material for construction of road and pad and will obtain any permits that may be required.

METHODS OF HANDLING WASTE DISPOSAL:

A. Drill cuttings will be disposed of in the reserve pits.

B. The reserve pits will be constructed and reclamation done according to NMOCD guidelines.

C. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are

dry

D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.

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. All trash, junk, and other waste materials will 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 approved.

8. ANCILLARY FACILITIES: NONE

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined. Yates Petroleum Corporation is in full compliance with the OCD General Plan for Drilling Pits approved on April 15, 2004.
- C. A 600' x 600' area has been staked and flagged.

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 well site 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 plugged and abandoned, 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 reclaimed as required by the Oil Conservation Division.

11. SURFACE OWNERSHIP:

Surface is managed by the Bureau of Land Management, Carlsbad, New Mexico.

Flick BIQ Federal #1H Page Three

12. OTHER INFORMATION:

- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, and historical and cultural sites.
- B. The primary surface use is for grazing.

13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

B. Through Drilling, Completions & Prod.

Cy Cowan, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

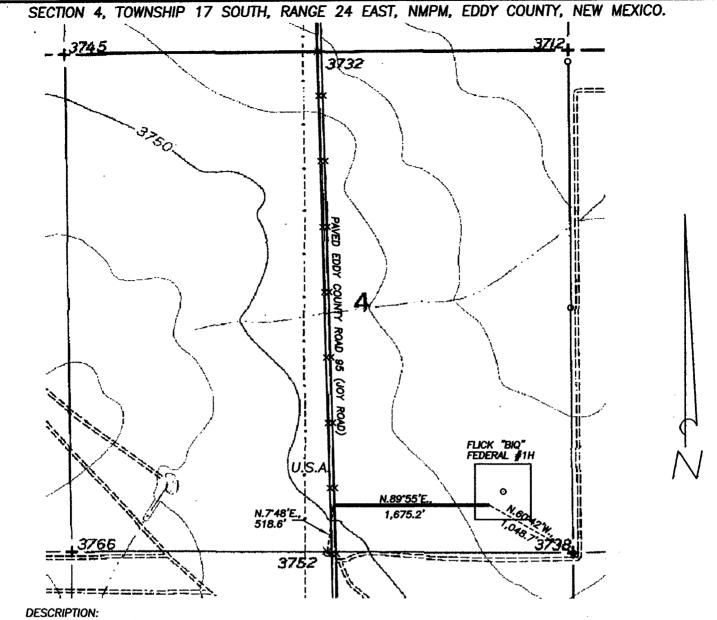
Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

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.

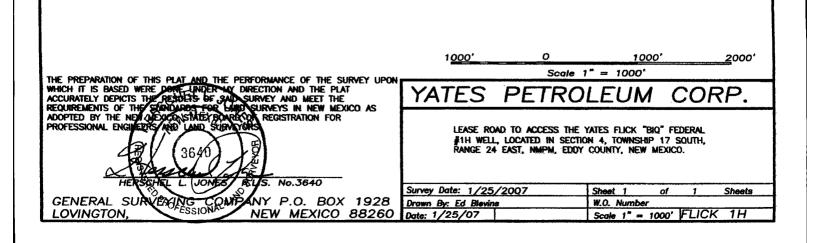
2/22/07

Cy Cowan, Regulatory Agent



A LEASE ROAD RIGHT OF WAY 30 FEET WIDE AND 1,675.2 FEET IN LENGTH, BEING 15 FEET TO THE LEFT AND RIGHT OF THE SURVEY CENTERLINE AS SHOWN IN RED ON THIS PLAT.

1,675.2 FEET = 101.5273 RODS, 0.3173 MILES OR 1.1537 Ac., MORE OR LESS.



CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

Yates Petroleum Corporation

Well Name & No.

1H-Flick BIQ Federal

Location SHL: Location BHL:

0660 FSL, 0760 FEL, Section 4, T-17-S, R-24-E, Eddy County 0660 FNL, 0760 FEL, Section 4, T-17-S, R-24-E, Eddy County

Lease:

NM-7805

I. DRILLING OPERATIONS REQUIREMENTS:

- A. The Bureau of Land Management (BLM) is to be notified a minimum of 4 hours in advance for a representative to witness:
 - 1. Spudding well
 - 2. Setting and/or Cementing of all casing strings
 - 3. BOPE tests
 - Eddy County call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822
- B. Although no H2S has been reported in this section, it is always a potential hazard.
- C. 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.

II. CASING:

- A. The <u>13-3/8</u> inch surface casing shall be set at <u>approximately 350</u> feet and cemented to the surface.
 - 1. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - 2. Wait on cement (WOC) time for a primary cement job will be a minimum of 12 hours for a non-water basin, 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compression strength, whichever is greater. (This is to include the lead cement)
 - 3. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compression strength, whichever is greater.
 - 4. If cement falls back, remedial action will be done prior to drilling out that string.

Possible lost circulation in the Grayburg and San Andres formations. Possible high pressure gas bursts in the Wolfcamp formation.

- B. The minimum required fill of cement behind the <u>9-5/8</u> inch intermediate casing is cement shall circulate to surface. If cement does not circulate see A.1 thru 4.
- C. The minimum required fill of cement behind the <u>7</u> inch intermediate casing (which will be set if hole conditions warrant) is cement shall extend a minimum of 200' inside the intermediate casing. If 7 inch casing is set, the production casing will be 4-1/2 inch casing and will be cemented a minimum of 200 feet inside the 7 inch casing.

- D. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is cement shall extend a minimum of 200 feet inside the intermediate casing.
- E. If hardband drill pipe is rotated inside casing; returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

III. PRESSURE CONTROL:

- A. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53.
- **B.** Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) PSI.
- C. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the <u>9-5/8</u> intermediate casing shoe shall be 2000 (2M) PSI.
- **D.** The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - 1. The tests shall be done by an independent service company.
 - 2. The results of the test shall be reported to the appropriate BLM office.
 - 3. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - 4. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi in accordance with API RP 53. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - 5. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the <u>Wolfcamp</u> formation. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
 - **6.** A variance to test the surface casing and BOP/BOPE to the reduced pressure of <u>1000</u> psi with the rig pumps is approved.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the <u>Wolfcamp</u> formation, and shall be used until production casing is run and cemented.

Engineer on call phone: 505-706-2779

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