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Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

5. Lease Serial No.
NMLC-031741A

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
HAWK A #37 <24426>

2. Name of Operator
APACHE CORPORATION <8737

9. API Well No.
30-025- 40677

3a. Address **303 VETERANS AIRPARK LN #3000**
MIDLAND, TX 79705

3b. Phone No. *(include area code)*
432-818-1167

10. Field and Pool, or Exploratory
WANTZ; ABO <~~67200~~ <62700>

4. Location of Well *(Report location clearly and in accordance with any State requirements *)*
At surface **1850' FNL & 2290' FEL**
At proposed prod. zone **SAME**

11. Sec., T. R. M. or Blk. and Survey or Area
UL: G SEC: 8 T21S R37E

14. Distance in miles and direction from nearest town or post office*
APPROX 3.5 MILES NORTH OF EUNICE, NM

12. County or Parish
LEA

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1850'

16. No. of acres in lease
320 ACRES

17. Spacing Unit dedicated to this well
40 ACRES

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
~300'

19. Proposed Depth
7600'

20. BLM/BIA Bond No. on file
BLM - CO - 1463 NATIONWIDE

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3536'

22. Approximate date work will start*
As soon As Approved

23. Estimated duration
~ 10 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature Sorina L Flores — Name *(Printed/Typed)* **SORINA L. FLORES** — Date 3/21/12

Title **SUPV OF DRILLING SERVICES**

Approved by *(Signature)* James A. Amos — Name *(Printed/Typed)* James A. Amos — Date JUL 5 2012

Title **FIELD MANAGER** — Office **CARLSBAD FIELD OFFICE**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Capitan Controlled Water Basin

KZ 07/10/12

Approval Subject to General Requirements & Special Stipulations Attached

CONDITIONS OF APPROVAL

JUL 11 2012

PRIVATE SURFACE OWNER AGREEMENT

OPERATOR: APACHE CORPORATION

WELL NAME: HAWK A #37

UL: G SECTION: 8 TOWNSHIP: 21S RANGE: 37E

LOCATION: 1850' FNL & 2290' FEL COUNTY: LEA STATE: NM

LEASE NUMBER: NMLC-0031741A

STATEMENT OF SURFACE USE

The surface to the subject land is owned by Millard Deck Estate, c/o Bank of America NA, Trustee of Millard Deck Testamentary Trust under Last Will & Testament of Millard Deck, ATTN: Jeff Petter, Asst VP, US Trust-Farm & Ranch, Bank of America Private Wealth Mgmt, PO Box 270, Midland, TX 79702 (303 W. Wall St, Midland, TX 79701) 432-688-7926

The surface owner has been contacted regarding the drilling of the subject well, and an agreement for surface use has been negotiated.

CERTIFICATION: I hereby certify that the statements made in this statement are to the best of my knowledge, true and correct.

NAME: JEREMY WARD

SIGNATURE: Jeremy Ward

DATE: 3-21-17

TITLE: DRILLING ENGINEER

To expedite your Application to Drill please fax the completed form to the
Bureau of Land Management (575) 234-5927 or (575) 885-9264
Attn: Legal Instruments Examiner
620 E. Green Street
Carlsbad, NM 88220

The original document with signature should be mailed as soon as possible.

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

APACHE CORPORATION (OGRID: 873) Hawk A #37

Lease #: NMLC-031741A Projected TD: 7600' GL: 3536'
1850' FNL & 2290' FEL UL: G SEC: 8 T21S R37E LEA COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION: Quaternary Aeolian Deposits

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Quaternary Aeolian	Surf	San Andres	4079' (Oil)
Rustler	1326'	Glorieta	5222'
Salt Top	1396'	Blinebry	5747' (Oil)
Salt Bottom	2561'	Tubb	6227' (Oil)
Yates	2698'	Drinkard	6561' (Oil)
Queen	3494'	ABO	6840' (Oil)
Grayburg	3773' (Oil)	TD	7600'

Depth to Ground Water: ~ 65'

All fresh water & prospectively valuable minerals, as described by BLM, encountered during drilling, will be recorded by depth and adequately protected. All oil & gas shows within zones of correlative rights will be tested to determine commercial potential.

3. CASING PROGRAM: All casing is new & API approved

See COA

HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
12-1/4"	0' – ~~1375'~~ 1350'	8-5/8"	24#	STC	J-55	1.125	1.0	1.8
7-7/8"	0'-7600'	5-1/2"	17#	LTC	L-80	1.125	1.0	1.8

4. CEMENT PROGRAM:

A. 8-5/8" Surface (100% excess cmt to surface):

Lead: 490 sx Class C w/ 2% CaCl2 + 0.13# CF + 3# LCM1 + 0.005 gps FP-6L + 4% Bentonite
(13.5 ppg, 1.75 yld) Comp Strengths : ***12 hr*** *– 500 psi* ***24 hr*** *– 782 psi*

Tail: 200 sx Class C w/ 1% CaCl2 + 0.13 # CF + 0.005 gps FP-6L
(14.8 ppg, 1.34 yld) Comp Strengths : ***12 hr*** *– 755 psi* ***24 hr*** *– 1347 psi*

~~B. 5-1/2" Production (50% excess cmt):~~

See COA

Lead: 600 sx (50:50) Poz Cl C w/5% Sodium Chloride + 0.13# CF + 3# LCM1 + 0.5% FL52 + 0.005 gps FP-6L + 6% Bentonite + 0.3% bwoc Sodium Metasilicate
(12.6ppg, 2.00 yld) Comp Strengths: ***12 hr*** *– 603 psi* ***24 hr*** *– 850 psi*

Tail: 200 sx (50:50) Poz Cl C w/5% Sodium Chloride + 0.13# CF + 3# LCM1 + 1% FL-52 + 0.005 gps FP-6L + 1% bowc BA58 + 2% Bentonite + 0.1% Sodium Metasilicate
(14.2 ppg, 1.31 yld) Comp Strengths: ***12 hr*** *– 850 psi* ***24 psi*** *– 1979 psi*

***** The above cmt volumes could be revised pending caliper measurement from open hole logs. TOC is designed to reach surface on Surface and Production. The above slurry design may change, but will meet BLM specifications.*** *All slurries will be tested prior to loading to confirm thickening times & a lab report furnished to Apache. Fluid loss will be tested & reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement.*

5. PROPOSED CONTROL EQUIPMENT

"EXHIBIT 5" shows a 900 series 11" 3M psi WP BOP consisting of an annular bag type preventer, middle blind rams, bottom pipe rams. The BOP will be nippled up on the 8-5/8" csg and utilized continuously until total depth is reached. The BOP will be tested at 2000 psi, maximum surface pressure is not expected to exceed 2M psi, BHP is calculated to be approximately 3344 psi. *All BOP's and associated equipment will be tested as per BLM *Drilling Operations Order #2*. The BOP will be operated and checked each 24 hr period & the blind rams will be operated & checked when the drill pipe is out of the hole. Functional tests will be documented on the daily driller's log. *"EXHIBIT 5"*also shows a 3M psi choke manifold with a 4" panic line. Full opening stabbing valve & Kelly cock will be on derrick floor in case of need. No abnormal pressures of temperatures are expected in this well. No nearby wells have encountered any problems.

6. PROPOSED MUD CIRCULATION SYSTEM: (Closed Loop System)

INTERVAL	MW (ppg)	VISC (sec/qt)	FLUID LOSS (cc)	MUD TYPE
0' – 1375 1340	8.3	28 – 32	NC	Fresh Water
1375 – 7100'	10	28 – 32	NC	Brine
7100' – TD	10.1 – 10.2	32 – 33	10 - 12	Cut Brine

***** The necessary mud products for weight addition and fluid loss control will be on location at all times. In order to run open hole logs & casing, the above mud properties may have to be altered to meet these needs.***

7. AUXILIARY WELL CONTROL EQUIPMENT / MONITORING EQUIPMENT:

9" x 3000 psi Double BOP/Blind & pipe ram (2M BOP if available)
4-1/2" x 3000 psi Kelly valve
9" x 3000 psi mud cross – H2S detector on production hole
Gate-type safety valve 3" choke line from BOP to manifold
2" adjustable chokes – 4" blow down line
Fill up line as per Onshore Order 2

8. LOGGING, CORING & TESTING PROGRAM: See COA

A. OH logs: Dual Laterolog, MSFL, CNL, Litho-Density, Spectral Gamma Ray, Caliper & Sonic from TD back to 8-5/8" csg shoe.
B. Run CNL, Gamma Ray from 8-5/8" csg shoe back to surface.
C. No cores or DST's are planned at this time. Mud log will be included on this well.
D. Additional testing will be initiated subsequent to setting the 5-1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows & drill stem tests.

9. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. There is known presence of H_2S in this area. If H_2S is encountered the operator will comply with the provisions of *Onshore Oil & Gas Order No. 6 (SEE EXHIBIT 6).* No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 3344 psi and estimated BHT : 115°.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Road and location construction will begin after BLM has approved APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as rig will be available. Move in operations and drilling is expected to take 10 days. If production casing is run then an additional 90 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

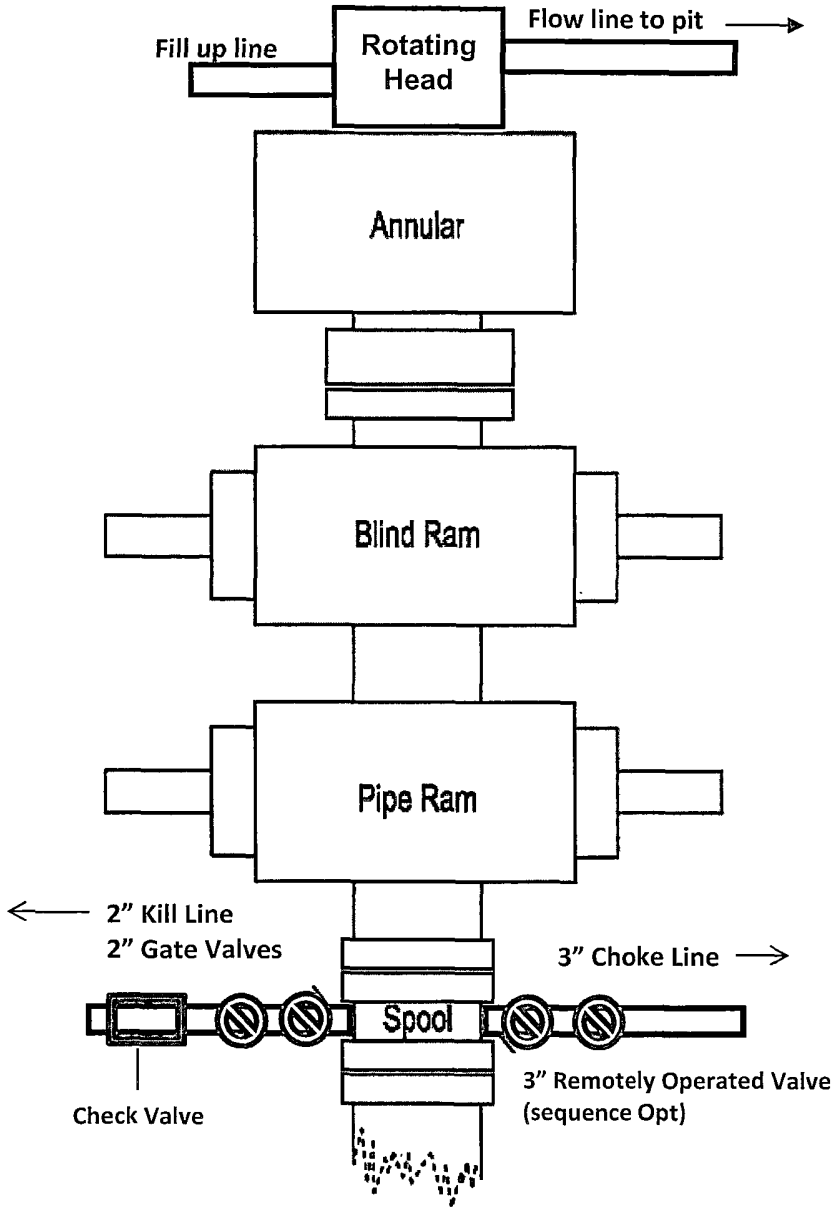
11. OTHER FACETS OF OPERATION:

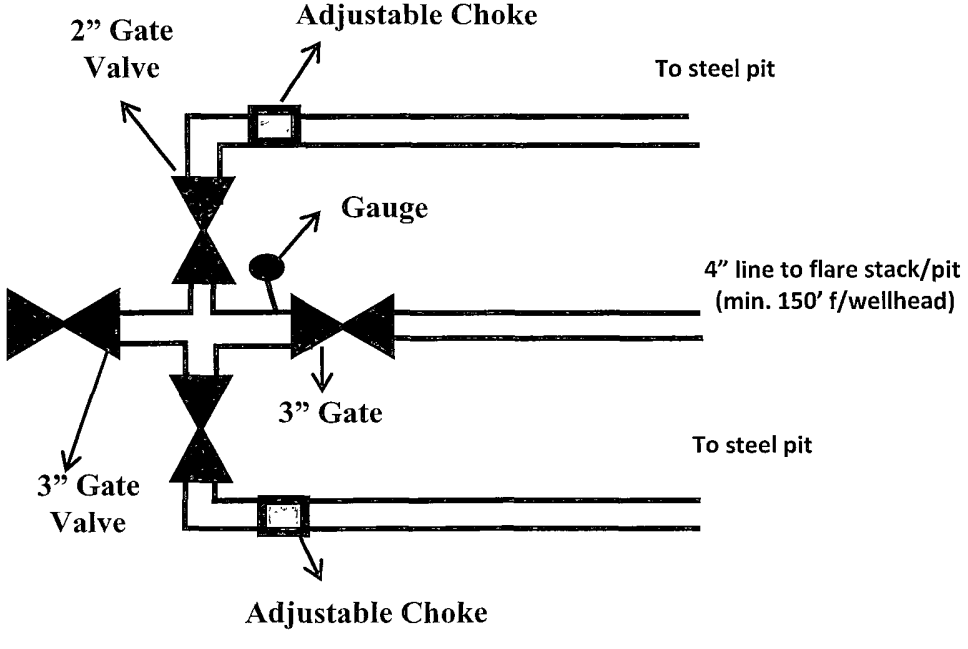
After running csg, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The Wantz;ABO formations will be perforated and stimulated in order to establish production. The well will be swab tested & potentialed as an oil well.

3M psi BOPE & Choke Manifold

Exhibit 3

All valve & lines on choke manifold are 2" unless noted.
Exact manifold configuration may vary





Apache

Drilling Location
H2S Safety Equipment Diagram
Exhibit 3A