Form 3160 -3 (April 2004)			FORM APPR OMB No 1004 Expires March	1-0137	
UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	5 Lease Serial No. NMLC-0029548A				
APPLICATION FOR PERMIT TO DRILL OR REENTER			6 If Indian, Allotee or Tribe Name		
la Type of work DRILL REENT	ER		7 If Unit or CA Agreemen	it, Name and No	
lb. Type of Well	Single Zone Multip	ple Zone	8. Lease Name and Well I		
2 Name of Operator APACHE CORPORATION	73>	!	9 API Well No. 30-015- 397	226	
3a Address 303 VETERANS AIRPARK LN #3000 MIDLAND, TX 79705	3b Phone No. (include area code) 432-818-1167		10 Field and Pool, or Explo CEDAR LAKE; G		
4. Location of Well (Report location clearly and in accordance with ar	ny State requirements*)		11 Sec, T.R.M. or Blk an	d Survey or Area	
At surface 1120' FNL & 1650' FWL () At proposed prod zone SAME			UL: C SEC: 18 T	17S R31E	
14 Distance in miles and direction from nearest town or post office* APPROX 4 MILES NORTHEAST OF LOCO HILLS, N	M		12 County or Parish EDDY	13 State NM	
15 Distance from proposed* location to nearest property or lease line, ft	ation to nearest		ing Unit dedicated to this well		
(Also to nearest drig unit line, if any)	224 ACRES		40 ACRES		
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 315'	15 Proposed Beptil		/BIA Bond No. on file I - CO - 1463 NATIONWIDE		
21 Elevations (Show whether DF, KDB, RT, GL, etc) 3739'	22 Approximate date work will sta 05/31/2011	rt*	23 Estimated duration 10 DAYS	\wedge	
	24. Attachments		15		
The following, completed in accordance with the requirements of Onsho 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 SUPO shall be filed with the appropriate Forest Service Office)	re Oil and Gas Order No 1, shall be a 4 Bond to cover ti Item 20 above) 5 Operator certific 6 Such other site.	ttached to the he operation cation	ormation and/or plans as may	ing bond on fits see	
	Name (Printed/Typed)	cer	1,00		
25. Signature Soruna S. Flores	SORINA L. FLORI	ES	Date Date	05/31/2011	
Title SUPV. DRLG. SERVICES .		_			
Approved by (Signature) /s/ Don Peterson	Name (Print deslypton	Peters	on Date	JUL 1 2 2011	
FIELD MANAGER	Office CARLSBA	D FIF	ID OFFICE		
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.			ject lease which would entitle AL FOR TWO YE		
Title 18 USC Section 1001 and Title 43 USC Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and v				
*(Instructions on page 2)					

Roswell Controlled Water Basin

Witness Surface Casing

SEE ATTACHED FOR CONDITIONS OF APPROVAL



APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

OCD CONDITION OF APPROVAL for Drilling Intent to drill ONLY --- CANNOT produce until the Non-Standard Location has been approved by OCD Santa Fe office

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

APACHE CORPORATION (OGRID: 873) COFFEE FEDERAL #11

Lease #: NMLC-0029548A Projected TD: 6500' GL: 3739' 1120' FNL & 1650' FWL, UL: C SEC: 18 T17S R31E EDDY 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:

FORMATION	WELL DEPTH	WATER/OIL/GAS
Quaternary Aeolian	Surface	
Rustler	302′	
Salt Top .	450′	
Salt Bottom	1100′	
Yates	1475'	
Seven Rivers	1756'	Oil
Queen	2367'	Oil
Grayburg	2748′	Oil
San Andres	3101'	Oil
Glorieta	4591'	
Yeso	4663′	Oil
Blinebry	5173′	
Tubb	6146′	
TD	6500′	
Depth to Ground Water:	91′	

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. The surface fresh water sands will be protected by setting 13-3/8" csg @ 325' & circ cmt back to surface. All intervals will be isolated by setting 5-1/2" csg to TD & circ cmt above the base of 8-5/8" csg.

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



HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
17-1/2"	0'-325'38	⁾ 13-3/8"	48#	STC	H-40	1.125	1.0	1.8
11"	325'-1500' 145	0 8-5/8"	24#	STC	J-55	1.125	1.0	1.8
7-7/8"	1500'-6500'	5-1/2"	17#	LTC .	J-55	1.125	1.0	1.8

4. CEMENT PROGRAM:

A. 13-3/8" Surface: Run & set 13-3/8" 48# H-40 STC csg to 325'. Cmt with:

<u>Lead</u>: 310 sx Class C w/ 1% CaCl2, 0.25% R38 (14.8 wt, 1.34 yld)

Compressive Strengths: 12 hr - 813 psi 24 hr - 1205 psi ***100% excess cmt; cmt to surface***

B. 8-5/8" Intermediate: Run & set 8-5/8" 24# J-55 STC cst to 1500'. Cmt with:

Lead: 130 sx (50:50) Poz C w/ 4% Bentonite, 1% caCl2, 0.25% R38 (12wt, 2.3 yld)

Compressive Strengths: 12 hr - 589 psi 24 hr - 947 psi

Tail: 160 sx Class C w/ 1% CaCl2, 0.25% R38 (14.8 wt, 1.34 yld)

Compressive Strengths: 12 hr - 813 psi 24 hr - 1205 psi ***100% excess cmt; cmt to surface***

C. 5-1/2" Production: Run & set 5-1/2" 17# J-55 LTC csg to 6500' (DV or Post tool w/ be set at @ 3500' if DV or Post is to be moved cement will be adjusted proportionately / TOC: 500') Cmt with:

1st Stage Lead: 530 sx (50:50) Poz C w/ 0.3% C12, 5% Salt, 0.25% R38 (14:2 wt, 1:26 yld)

Compressive Strengths: **12 hr** – 1379 psi **24 hr** – 2332 psi

2nd Stage Lead: 280 sx (50:50) Poz C w/ 5% Salt, 0.25% R38 (11.8 wt, 2.45 yld)

----- Compressive Strengths:-12 hr - 540 psi--- 24 hr - 866 psi --- --

Stage Tail: 90 sx (50:50) Poz C w/ 5% Salt, 0.25% R38 (14.2 wt, 1.28 yld)

Compressive Strengths: 12 hr - 1031 psi 24 psi - 1876 psi ***30% excess cmt***

see 3"

The above cmt volumes could be revised pending caliper measurement from open hole logs. For Surface csg: If cmt does not circ to surface, the appropriate BLM office shall be notified & a tag with 1" will be performed at four positions 90 degrees apart to verify cmt depth. If depth is greater than 100' or water is standing in the annulus, remedial cementing will be done. If no water & TOC tag is less than 100', when 100% excess cmt of the annulus volume is run on the primary job, ready-mix will be used to bring cmt to surface.

5. PROPOSED CONTROL EQUIPMENT

Exhibit "1" shows an 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 13-3/8" surface csg and tested to 70% of casing burst. After the intermediate casing is set & cemented the 13 3/8" casing head will be removed and a 11" 3M head will be installed on the 8 5/8" casing 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 2662 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 "1" also shows a 3M psi choke manifold with a 3" blow down 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',-325' 380	8.4	29	NC	Fresh Water
325' to 1500' 1457	9.8 – 10.0	29	NC	Brine
1500′ – 6500′	8.9 – 9.0	29	NC	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:

11" x 3000 psi Double BOP/Blind & pipe ram (2M BOP if available)

4-1/2" x 3000 psi Kelly valve

11" x 3000 psi mud cross - H2S detector on production hole

Gate-type safety valve 3" choke line from BOP to manifold

2" adjustable chokes - 3" blow down line

8. LOGGING, CORING & TESTING PROGRAM:



- A. OH logs: Dual Laterolog, MSFL, CNL, Litho-Density, 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, DST's or mud logger are planned at this time.
- **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 no 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*. 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: 2662 psi and estimated BHT: 115°.

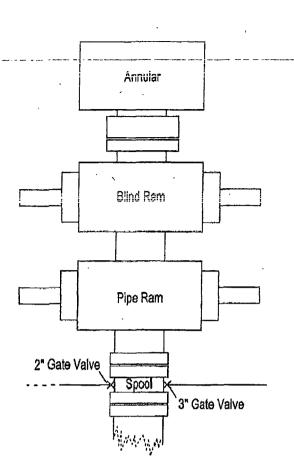
10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Road and location construction will begin after Santa Fe & 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:

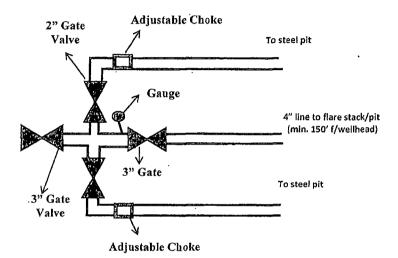
After running csg, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The Cedar Lake; Glorieta-Yeso formation will be perforated and stimulated in order to establish production. The well will be swab tested & potentialed as an oil well.

- . . .



3M psi BOPE & Choke Manifold

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



5-12-11 OK his blindy Right for CFO to OCD Operator SS

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 E. GREENE STREET CARLSBAD, NM 88220

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operator Name	e: APACHE CORPORATION
Street or Box:	303 VETERANS AIRPARK LANE, STE. 3000
City, State:	Midland, TX
Zip Code:	79705
_	ed accepts all applicable terms, conditions, stipulations, and restrictions erations conducted on the leased land or portion thereof, as described
Lease No:	NMLC-0029548A COFFEE FEDERAL #011
Legal Descript	ion of Land:
UL: <u>C</u> Sec	tion: 18 Township: 17S Range: 31E
County: El	DDY State: NM
Bond Coverage	e: \$150,000
Statewide Oil a	and Gas Surety Bond, APACHE CORPORATION.
BLM Bond Fil	e No.: BLM-CO-1463 NATIONWIDE
Signature:	Bobly L Smith Printed Name: BOBBY L. SMITH
Title:	DRILLING MANAGER, PERMIAN REGION
Date:	1/31/2011

Apache Corporation Responsibility Letter

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

88716	Operator # PACHE CORP OGRID # 873 Well Name & # COPPER FISO # 11 Surface Type (F) (S) (P) Location: UL C, Sect 18, Twnship 17 s, RNG 31 e, Sub-surface Type (F) (S) (P)
	A. Date C101 rec'd C101 reviewed
	C. C102 YES, NO, Signature
	4. Downhole Commingle: Yes, No, Code, Acres
	5. POTASH Area Yes, No, D. Blowout Preventer Yes, No E. H2S Yes, No F. C144 Pit Registration Yes, No, G. Does APD require Santa Fe Approval: 1. Non-Standard Location: Yes, No, NSL # 2. Non-Standard Proration: Yes, No, NSP # 3. Simultaneous Dedication: Yes, No, SD # Number of wells Plus # 4. Injection order Yes, No, PMX # or WFX # 5. SWD order Yes, NO; SWD #
	7. OCD Approval Date/ API #30-0 16 39226