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SUNDRY	UNITED STATES EPARTMENT OF THE I BUREAU OF LAND MANA NOTICES AND REPO his form for proposals to	NTERIOR GEMENT	ELLS	Artesia	OMB N Expires 5. Lease Serial No. NMLC029435E	
abandoned we	nis form for proposals to ell. Use form 3160-3 (AP	D) for such	proposals.		6. If Indian, Allottee	or Tribe Name
SUBMIT IN TR	IPLICATE - Other instruc	ctions on re	verse side.		7. If Unit or CA/Agree	eement, Name and/or No.
1. Type of Well	her				8. Well Name and No NFE FEDERAL 3	
2. Name of Operator APACHE CORPORATION		SORINA FL es@apacheco			9. API Well No. 30-015-41672-	
3a. Address 303 VETERANS AIRPARK L MIDLAND, TX 79705			o. (include area code)	10. Field and Pool, or CEDAR LAKE	Exploratory
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description))			11. County or Parish,	and State
Sec 7 T17S R31E NESE 149	5FSL 432FEL				EDDY COUNT	Y, NM
12. CHECK APP	ROPRIATE BOX(ES) TO	D INDICATI	E NATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION	TYPE OF ACTION					· ·
 Notice of Intent Subsequent Report Final Abandonment Notice 	 Acidize Alter Casing Casing Repair Change Plans Convert to Injection 	NevPlu	epen cture Treat w Construction g and Abandon g Back	☐ Reclam ☐ Recom	olete arily Abandon	 Water Shut-Off Well Integrity Other Change to Original A PD
If the proposal is to deepen direction Attach the Bond under which the wor following completion of the involve testing has been completed. Final A determined that the site is ready for the BLM-CO-1463 NATIONWIDE Apache proposes to change the CSG PROGRAM: HOLE DEPTH OD CSG W MW Rating/SF Rating/SF R 17-1/2" 0-400' 13-3/8" 48# H4 3.592 5.49 17.22 12-1/4" 0-3500' 9-5/8" 36# J51 1.134 1.45 3.68 8-3/4" 0-5018' 7" 29# L80	rk will be performed or provide d operations. If the operation res bandonment Notices shall be file inal inspection.) / NMB000736 he csg/cmt for the NFE Fe PT GRADE COLLAR DE- ating/SF 0 STC 8.8ppg 770ps	the Bond No. o sults in a multip ed only after all ederal #32H a SIGN COLL at 1730psi at 3520psi 3	n file with BLM/BIA le completion or reco requirements, includ as follows: APSE BURST 322000lbs	A. Required su impletion in a ing reclamation	bsequent reports shall be new interval, a Form 316 n, have been compared ACCON	filed within 30 days 0-4 shall be filedronge
14. I hereby certify that the foregoing is Com Name(Printed/Typed) SORINA F	Electronic Submission #2 For APACHE mitted to AFMSS for proces	CORPORAT	ON, sent to the (NFER MASON on	Carlsbad	15JAM0050SE)	
Signature (Electronic S	Submission)		Date 07/07/20			
	THIS SPACE FO				 SE	<u> </u>
Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu	 Approval of this notice does the stable title to those rights in the 	not warrant or	Title		Ranchar	Date
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a c	crime for any pe to any matter w	rson knowingly and		<u> </u>	agency of the United
	SED ** BLM REVISED				** BLM BEVISFI	

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Additional data for EC transaction #251849 that would not fit on the form

32. Additional remarks, continued

3.32 4.03 2.89 (vert)
 (vert)
 2.09
 3.02
 7.00

 8-3/4" 5018-5612' 5-1/2" 20# L80 LTC
 9.3ppg
 8464psi
 9190psi
 416000lbs

 (curve) (5400 TVD)
 3.12
 3.39
 4.15
 8-3/4" 5018-5612' 5-1/2" 20# L&ULIC 5.5ppg 5.5 (curve) (5400 TVD) 3.12 3.39 4.15 (7-7/8" 5612-10618' 5-1/2" 20# L80 LTC 9.3ppg 8794psi 9190psi 416000lbs 1.74 1.79 1.96

*Calculated Safety Factors based on: Burst: Full evacuation of annulus & csg filled with mud Collapse: Mud in annulus & full evacuation of csg Tension: Annulus & csg filled with mud

Production csg will be a tapered string w/7" csg f/surf to KOP(cmtd through a stage tool f/ KOP to 2500'), uncemented 5-1/2" csg f/ KOP to LP, & uncemented 5-1/2" csg with packers & sleeves f/ LP to TD to isolate San Andres & Glorieta formations, two hydraulic-set open hole packers will be placed in 5-1/2" csg & set 50' above & 50' below the top of Glorieta formation.

CMT PROGRAM:

CMT PROGRAM: Surf (TOC-Surf) 100% excess cmt; cmt with: Single Slurry: 520sx CL c w/2% CaCL2(14.8wt, 1.34yld, 6.31 gal wtr/sk) Comp Strengths: 12hr - 1270psi 24hr - 2029psi *If lost circ is encountered while drig 17-1/2" hole, operator may pmp 200sx CI C Thixotropic cmt(14.4wt, 1.55yld, 6.65 gal wtr/sk) ahead of cmt slurry shown above. If cmt does not circ to surf, appropriate BLM office shall be notified. The TOC shall be determined by a method approved by BLM. Operator will propose a remediation method & request BLM approval

Interm (TOC-surf) 50% excess cmt; cmt with: Interm (TOC-surf) 50% excess cmt; cmt with: Lead: 700sx 35/65 Poz C w/6% gel+5% Salt (12.9wt, 1.92yld, 9.92 gal wtr/sk) Comp Strengths: 12hr - 820psi 24hr - 1189psi Tail: 290sx Cl C (14.8wt, 1.33yld, 6.31 gal wtr/sk) Comp Strengths: 12hr - 1120psi 24hr - 2106psi *If water flow is encountered, operator may use a DVT in 9-5/8" Interm csg & operator may place an ECP below DVT. Operator may also set csg slips before cmtg. Assuming DVT is set at 1800', the following cmt would be used: 1st stage: 630sx Cl C (14.8wt, 1.33yld, 6.31 gal wtr/sk) 50% excess cmt 2nd stage: 670sx Cl C (14.8wt, 1.33yld, 6.31 gal wtr/sk) 50% excess cmt. If a DVT is set at a different denth. cmt volumes will be adjusted accordingly. different depth, cmt volumes will be adjusted accordingly.

Prod (TOC: ~2500' f/surf) 35% excess cmt; cmt with: Lead:110sx 35/65 Poz C W/6% Gel+5% Salt (12.6wt, 2.06yld, 10.95 gal wtr/sk) Comp Strengths: 12hr - 317psi 24hr - 500psi Tail:220sx TXI Lighweight w/1.3% Salt+0.3% Retarder(13.0wt,1.48yld,7.58 gal wtr/sk) Comp Strengths: 12hr - 1100psi 24hr - 1755psi *If operator chooses to run fluid caliper, above cmt volumes may be revised based on fluid caliper measurement.

**** PLEASE SEE ATTACHMENT FOR ADDITIONAL SUNDRY INFORMATION; ADDITIONAL INFORMATION DID NOT FIT ONLINE*

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

APACHE CORPORATION (OGRID: 873) NFE FEDERAL #32H

Lease #: NMLC-029435B Projected TVD: ~5480' MD: ~10618' GL: 3718' SL: 1495' FSL & 432' FEL UL: I SEC: 7 BHL: 1495' FSL & 330' FWL UL: I SEC: 8 T17S R31E EDDY COUNTY, NEW MEXICO

1. GEOLOGIC NAME OF SURFACE FORMATION: Eolian/Piedmond Alluvial Deposits

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

Quaternary Aeolian	Surf	Grayburg	2786′
Rustler	256'	San Andres	3096'
Top of Salt	496′	Glorieta	4589′
Base of Salt	1316′	Yeso (Paddock)	4647' (Oil)
Yates	1501'	Yeso (U. Blinebry)	5135′
Queen	2397'	TD	TVD: 5480' MD: 10618'

Avg Depth to Ground Water: ~91'

All fresh water and prospectively valuable minerals, as described by BLM, encountered during drilling, will be recorded by depth and adequately protected. All oil and 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" surface casing at 400' and circulating cement to surface. All intervals will be isolated by setting a 7" and 5-1/2" tapered production casing string at TD and cementing as shown below.

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

HOLE SIZE	DEPTH	OD CASING	WEIGHT	GRADE	COLLAR	DESIGN MW	COLLAPSE Rating/SF*	BURST Rating/SF*	TENSION Rating/SF*
17-1/2"	0' - 400'	13-3/8″	48#	H-40	STC	8.8 ppg	770 psi 3.592	1730 psi 5.49	322000 lbs 17.22
12-1/4″	0' - 3500'	9-5/8″	36#	J-55	STC	9.8 ppg	2020 psi 1.134	3520 psi 1.45	394000 lbs 3.68
8-3/4" (vertical)	0' - 5018' (5018' TVD)	7″	29#	L-80	LTC	9.3 ppg	7020 psi 2.89	8160 psi 3.32	587000 lbs 4.03
8-3/4" (curve)	5018' - 5612' (5400' TVD)	· 5-1/2″	20#	L-80	LTC	9.3 ppg	8464 psi 3.12	9190 psi 3.39	416000 lbs 4.15
7-7/8" (lateral)	5612' - 10618' (5480' TVD)	5-1/2″	20#	L-80	LTC	9.3 ppg	8794 psi 1.74	9190 psi 1.79	416000 lbs 1.96

*Calculated Safety Factors based on:

Burst: Full evacuation of annulus and casing filled with mud

Collapse: Mud in annulus and full evacuation of casing

Tension: Annulus and casing filled with mud

Production casing will be a tapered string with 7" casing from surface to KOP (cemented through a stage tool from KOP to 2500'), uncemented 5-1/2" casing from KOP to LP, and uncemented 5-1/2" casing with packers and sleeves from LP to TD. To isolate the San Andres and Glorieta formations, two hydraulic-set open hole packers will be placed in the 5-1/2" casing and set 50' above and 50' below the top of the Glorieta formation.

4. CEMENT PROGRAM:

A. Surface (TOC - Surface) **100% excess cmt** Cmt with:

<u>Single Slurry</u>: 520 sx Class C w/2% CaCl2 (14.8 wt, 1.34 yld, 6.31 gal wtr/sk) Compressive Strengths : **12 hr** – 1270 psi **24 hr** – 2029 psi

If lost circulation is encountered while drilling the 17-1/2" hole, operator may pump 200 sx Class C thixotropic cement (14.4 wt, 1.55 yld, 6.65 gal wtr/sk) ahead of the cement slurry shown above.

If cmt does not circulate to surface, the appropriate BLM office shall be notified. The TOC shall be determined by a method approved by BLM. Operator will propose a remediation method and request BLM approval.

B. Intermediate (TOC – Surface) **50% excess cmt **. Cmt with:

Lead: 700 sx 35/65 Poz C w/6% Gel + 5% Salt (12.9 wt, 1.92 yld, 9.92 gal wtr/sk) Compressive Strengths: 12 hr - 820 psi 24 hr - 1189 psi

Tail: 290 sx Class C (14.8 wt, 1.33 yld, 6.31 gal wtr/sk)

Compressive Strengths: 12 hr – 1120 psi 24 hr – 2106 psi

If a water flow is encountered, operator may use a DV tool in the 9-5/8" intermediate casing and operator may place an ECP below the
DV tool. Operator may also set casing slips before cementing. Assuming a DV tool is set at 1800', the following cement would be used:
1st Stage 630 sx Class C (14.8 wt, 1.33 yld, 6.31 gal wtr/sk) 50% excess cement2nd Stage 670 sx Class C (14.8 wt, 1.33 yld, 6.31 gal
wtr/sk) 50% excess cementwtr/sk) 50% excess cementIf a DV tool is set at a different depth, cement volumes will be adjusted accordingly.

C. Production (TOC: ~2500' from Surface) **35% excess cmt** Cmt with:

Lead: 110 sx 35-65 Poz C w/6% Gel + 5% Salt (12.6 wt, 2.06 yld, 10.95 gal wtr/sk)

Compressive Strengths: 12 hr – 317 psi 24 hr – 500 psi

Tail: 220 sx TXI Lightweight w/1.3% Salt + 0.3% Retarder (13.0 wt, 1.48 yld , 7.58 gal wtr/sk) Compressive Strengths: 12 hr - 1100 psi 24 psi - 1755 psi

If operator chooses to run a fluid caliper, the above cement volumes may be revised based on fluid caliper measurement.

5. PROPOSED CONTROL EQUIPMENT

"EXHIBIT 3" shows a 13-5/8" 3M psi WP BOP consisting of an annular bag type preventer. This BOP will be nippled up on the 13-3/8" surface casing head and tested to 2000psi using a test plug. After the 9-5/8" intermediate casing is set & cemented, an 11" 3M BOP consisting of an annular bag type preventer, middle pipe rams and bottom blind rams will be installed and utilized continuously until TD is reached (*"EXHIBIT 3A"*). That BOP will be tested at 2000 psi; maximum surface pressure is not expected to exceed 2000 psi. BHP is calculated to be approximately 2650 psi at TD & 2650 psi at the deepest point in the lateral. All BOPs and associated equipment will be tested per BLM *Drilling Operations Order #2*. The BOPs will be operated and checked each 24 hour period and blind rams will be operated and checked when the drill pipe is out of the hole. Function tests will be documented on the daily driller's log. *"EXHIBIT 3 & 3A"* also show a 3M psi choke manifold with a 3" blow down line. Full opening stabbing valve and kelly cock will be on the derrick floor in case of need. No abnormal pressures or temperatures are expected in this well. No nearby wells have encountered any well control problems.

6. AUXILIARY WELL CONTROL EQUIPMENT / MONITORING EQUIPMENT:

13-5/8" 3000 psi annular preventer (3M BOP/BOPE to be used as a 2M system)

11" 3000 psi double BOP (blind & pipe rams) and annular preventer (3M BOP/BOPE to be used as a 2M system)

4-1/2" x 3000 psi kelly valve

13-5/8" or 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

Fill up line per BLM Onshore Order #2

7. PROPOSED MUD CIRCULATION SYSTEM: (CLOSED LOOP SYSTEM)

INTERVAL	MUD WEIGHT (ppg)	VISCOSITY (sec/qt)	FLUID LOSS (cc)	MUD TYPE	
0' - 450'	0' - 450' 8.3 - 8.8 28 -		NC	FW	
450' - 3500'	9,6-9.8	28 – 29	NC	Brine	
3500' - 5018'	9.0 - 9.8	28 – 29	. NC	Brine/Cut Brine	
5018' - 10618'	9.0 - 9.3	28 – 29	NC	Cut Brine	

** Visual mud monitoring equipment shall be in place to detect volume changes. A mud test shall be performed every 24 hours after mudding up to determine density, viscosity, gel strength, filtration, and pH. The necessary mud products for weight addition and fluid loss control will be on location at all times.

8. LOGGING, CORING & TESTING PROGRAM:

A. No cores, DSTs, or open hole logs are planned at this time.

- B. Mudloggers from 4200' to TD.
- **C.** Additional testing will be initiated subsequent to setting the 7" and 5-1/2" tapered production casing string. Specific intervals will be targeted based on geological sample shows.

9. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud-weight. There is known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of BLM *Onshore Oil & Gas Order #6*. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated maximum BHP: 2650 psi and estimated BHT: 115° F.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Road and location construction will begin after BLM has approved APD. Anticipated spud date will be after BLM approval and as soon as an appropriate rig is available. Move in operations and drilling is expected to take approximately 20 days. If production casing is run, an additional 90 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place the well on production.

11. OTHER FACETS OF OPERATION:

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After running casing, 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 stimulated in order to establish production. The well will be tested and potentialed as an oil well.