	st 2007)	UNITED STATE DEPARTMENT OF THE	S INTERIOR	OCD Art	esia	FORM AI OMB NO. Expires: Ju	PROVED 1004-0135 1y 31. 2010
	SUND	BUREAU OF LAND MAN	AGEMENT DRTS ON WI	FLES		5. Lease Serial No. NMLC062376	· · · ·
	Do not us abandoned	e this form for proposals to well. Use form 3160-3 (Al	o drill or to re PD) for such p	enter an oroposals.		6. If Indian, Allottee or	ribe Name
	SUBMIT IN	TRIPLICATE - Other instru	ictions on rev	erse side.	•	7. If Unit or CA/Agreem	ent, Name and/or No
1. Ty .	ype of Well 🔲 Gas Well 📋] Other	<u> </u>	•		8. Well Name and No. ANTWEIL ANU FED	DERAL 3H
2. N Y	ame of Operator ATES PETROLEUM CO	Contact: RPORATION€-Mail: NSAIZ@	NAOMI G SA YATESPETROL	IZ EUM.COM		9. API Well No. 30-015-40523-00	X1
3a. A 10 A	Address 05 SOUTH FOURTH ST RTESIA, NM 88210	REET	3b. Phone No Ph: 575-74	. (include area cod 8-4211	e)	10. Field and Pool, or Ex WILDCAT	ploratory
4. Lo	ocation of Well (Footage, Se	ec., T., R., M., or Survey Descriptio	n)			11. County or Parish, an	1 State
S	ec 19 T19S R30E SWSE	E 330FSL 1980FEL	· · ·	· •		EDDY COUNTY,	NM
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				NATURE OF	NOTIOD D		
<u></u>	IZ. CHECK A	APPROPKIA LE BOX(ES) 1		NATURE OF	NOTICE, R	EPOKI, OK OTHER	
ri	TYPE OF SUBMISSION			ТҮРЕ С	OF ACTION	· · · · · ·	•
·	NI	□ Acidize	Dee	pen	Product	tion (Start/Resume)	U Water Shut-Off
Ø	i notice of intent	Alter Casing	🗖 Frac	ture Treat	🗖 Reclam	ation	U Well Integrity
. 🖸	Subsequent Report	Casing Repair	· 🗖 Nev	Construction.	□ Recom	plete	🛛 Other
	Final Abandonment Notic	e 🔲 Change Plans	🗖 Plu	and Abandon	Tempo	arily Abandon	Change to Origina
		Convert to Injection	n 🗖 Pluş	Back	U Water I	Disposal	ID.
te: de Y	sting has been completed. Fin etermined that the site is ready ates Petroleum Corpora lan as per the attached p	al Abandonment Notices shall be f for final inspection.) tion respectfully requests to paperwork and directional pla	make the folio	wing changes to	o the our wel	n, have been completed, an	d the operator has
T	hank you.	Ac	cepted f	or record		APPROVE	
NM O	IL CONSERVATIO ARTESIA DISTRICT OCT 0 3 2014 RECEIVED	N SEE ATTACHED CONDITIONS OF	FOR	AL	-14	SEP 30 2 GP D FOR BUREAU OF LAND M BUREAU OF LAND FIEL	NA ANAGEMENT D OFFICE
14. I	hereby certify that the forego	ing is true and correct. Electronic Submission	#267020 verifie	d by the BIM W	ell Informatio	n Sýstem	· · · · ·
		For YATES PETF Committed to AFMSS for pr	OLEUM CORP	DRATION, sent	to the Carlsb	ad (14FF0108SF)	
				Title WELL		TECH	·
N	ame (Printed/Typed) NAON	/II G SAIZ					
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	ame (Printed/Typed) NAON ignature (Electro coved By (BLM Approver ions of approval, if any, are at that the applicant holds legal of would entitle the applicant to	AIG SAIZ Diric Submission) THIS SPACE F THIS SPACE F T	OR FEDER	Date 09/29/ LORSTATE RETRO	2014 E OFFICE U	se ENGINEER	Date 09/30/2

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Antweil ANU Federal #3H

Yates Petroleum Corporation respectfully requests to make the following changes:

2nd Intermediate Cement contingency:

We would like to request the approval of a cement contingency if hole conditions warrant. Hole will be drilled with a 12 ¼" hole to 3800' with a DV/Packer stage tool at approx. 1800'-2100'. Casing weight and grade will remain the same. Cement volumes will be adjusted per tool placement.

Stage I: Lead w/485sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/210sx 50/50 PozC(YLD 1.34 WT 14.2, 6.2 gal/sk) TOC approx.=1800' 100% excess

Stage II: Lead w/425sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/210sx 50/50 PozC (YLD 1.34 WT 14.2, 6.2 gal/sk) 100% excess TOC=0'

Production:

Packers and ports will not be run on this well. We also request that the packers and ports be removed from the alternative casing design.

Well will be drilled to approx. 7838'. Well will then be kicked off at approx. 7838' and directionally drilled at 12 degrees per 100' with an 8 3/4" hole to 8595' MD (8315' TVD). Hole size will then be reduced to 8 1/2" and drilled to 12,727' MD (8429' TVD) where 5 1/2" casing will be set and cemented in a single stage to approx. 1600'. Penetration point of producing zone will be encountered at 812' FSL and 1981' FEL, 19-19S-30E. Deepest TVD is '8315' in the lateral. Production casing will be as shown below. Target formation will remain the same.

	0 ft to	12,727 ft	Make up Torque ft-lbs	Total ft = 12,727
O.D.	Weight	Grade Threads	opt. min. mx.	
5.5 inches	17 #/ft	P-110 BT&C	•	1
Collapse Resistance	Internal Yield	Joint Strength	Body Yield Drift	
• 7,480 psi	10,640 psi	580 ,000 #	546,000 # 4.767	

Production cement will be done in one stage as follows: Excess is calculated at 35%.

Lead: 775sx LiteCrete (YLD 2.73, WT 9.0, 9.7 gal/sk) Tail: 1140sx PVL (YLD 1.36, WT 13.5, 6.3 gal/sk) TOC=1600'

2 Stage Production Cement Contingency:

see cof

We would like to request the approval of a 2 stage cement job for the production interval of this well. DV/Packer Stage tool placed approximately at 7000'-7500' (cement volumes will be adjusted per tool placement) Stage & Camentad w(1215 m DV// V/LD 1.26 W/T 12.5 C 2 m // L) 259(mm TOS ment TOS ment)

Stage I: Cemented w/1215sx PVL (YLD 1.36 WT 13.5, 6.3 gal/sk) 35% excess TOC approx. 7500' Stage II: Lead w/635sx Lite Crete (YLD 2.73, WT 9.0, 9.7 gal/sk) tail w/200sx PVL (YLD 1.36, WT 13.5, 6.3 gal/sk) 1600'-7500' 35% excess TOC approx. 1600'





Eddy County, NM(NAD83) Antweil ANU Federal #3H

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ROLEUM

Plan: Plan #2

Standard Planning Report

23 September, 2014



Oates Elevente				P	TDS lanning Rep	ort	· .		Ē	TDS)
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CAINS AMERICANA		I D Planning	S Report		TDS
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TDS Planning Report



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Wellbore: Design:	OH Plan #2								
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8,175.0	40.49	359.85	8,147.6	114.3	-0.3	114.3	12.00	12.00	0.00
8,200.0	43.49	359.85	8,166.2	131.1	-0.3	131.1	12.00	12.00	0.00
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8,250.0	49.49	359.85	8,200.6	167.3	-0.4	167.3	12.00	12.00	0.00
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8,300.0	55.49 58.40	359.85	8,231.0 8 244 7	206.9 227 a	-0.5	206.9	12.00	12.00	0.00
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8,350.0	61.49 64.40	359.85	8,257.2	249.5	-0.6	249.6	12.00	12.00	• • • 0.00
8.400.0	67.49	359.85	8.278.7	294 7	-0.7 -0.8	201.0	12:00	12.00	0.00
8,425.0	70.49	359.85	8,287.6	318.0	-0.8	318.0	12.00	12.00	0.00
8,450.0	73.49	359.85	8,295.4	341.8	-0.9	341.8	12.00	12.00	0.00
8,475.0	76.49	359.85	8,301.8	365.9	-0.9	365.9	12.00	12.00	0.00
8,500.0	79.49	359.85	8,307.1	390.4	-1.0	390.4	12.00	12.00	0.00
8,525.0	82.49	359.85	8,311.0	415.0	-1.1	415.0	12.00	12.00	0.00

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COMPASS 5000.1 Build 74

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Planning Report

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	9,300.0	90.92	359.85	8,303.7	1,039.8	-2.0	1,189.8	0.00	0.00	0.00
	9,400.0	90.92	359.85	8,302.2	1,289.8	-3.3	1,289.8	0.00	0.00	0.00
	9,500.0	90.92	359.85	8,300.6	1,389.7	-3.6	1,389.7	0.00	0.00	0.00
	9,600.0	90.92	359.85	8,299.0	1,489.7	-3.8	1,489.7	0.00	0.00	0.00
	9,700.0	90.92	359.55	8,297.4	1,589.7	-4.1	1,589.7	0.00	0.00	0.00
,	9,900.0	90.92	359.85	8,294.2	1,789.7	-4.6	1,789.7	0.00	0.00	0.00
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	11,400.0	90.92	359.85	8,270.2	3,289.5	-8.5	3,289.5	0.00	0.00	0.00
	11,500.0	90.92	359.85	8,268.6	3,389.5	-8.8	3,389.5	0.00	0.00	0.00
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•	11,700.0	90.92	359.85	8,263.8	3,589.5	-9.3	3,589.5	0.00	0.00	0.00
	11,900.0	90.92	359.85	8,262.2	3,789.4	-9.8	3,789.4	0.00	0.00	0.00
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	12,500.0	90,92	359.85	8,252.6	4,389.4	-11.3	4,389.4	0.00	0.00	0.00
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"你说你是我的你,你们就是你不知道,你们还是你们的你?""你们还是你们的你?""你说你说你了,你们就是你们没有了,你就是你们是你们是你,你不是你的你?""你你们没有你们没有你们没有你们。"	Languitude
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PBHL (AAF #3H/OH) - plan hits target center - Point	0.00	0.00	8,249.0	4,616	4 -11.9	601,182.24	641,109.79	32° 39' 8.203 N	104° 0' 32.975 W
EOC (AAF #3H/OH) - plan hits target center - Point	0.00	0.00	8,315.0	485	.0 -1.3	597,050.83	641,120.40	32° 38' 27.322 N	104° 0' 32.998 W

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COMPASS 5000.1 Build 74

CONDITIONS OF APPROVAL

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OPERATOR'S NAME:	YATES PETROLEUM
LEASE NO.:	LC062376
WELL NAME & NO.:	ANTWEIL ANU FEDERAL #3H 30-015-40523
SURFACE HOLE FOOTAGE:	330' FSL & 1980' FEL
BOTTOM HOLE FOOTAGE	330' FNL & 1980' FEL
LOCATION:	Section 19, T.19 S., R.30 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Due to recent H2S encounters in the salt formation, it is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide prior to drilling out the surface shoe. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.
- 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper

copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhcad installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High Cave/Karst Potential

Secretary's Potash

Possible water and brine flows in the Artesia and Salado Groups. Possible lost circulation in the Artesia Group and <u>Capitan Reef</u>.

- 1. The **20** inch surface casing shall be set at approximately **350** feet (a minimum of 25 feet above the salt) and cemented to the surface.
 - a. 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 surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 13-3/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and potash.

3. The minimum required fill of cement behind the 9-5/8 inch 2nd intermediate casing, which is to be set in the base of the Capitan reef or the top of the Delaware at approximately 3800', is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to the Capitan Reef.

Operator has proposed DV tool at depth of 1800' to 2100', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

Contingency DVTOOL

a. First stage to DV tool:

. Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

Cement to surface. If cement does not circulate, contact the appropriate BLM office

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Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

Operator has proposed DV tool at depth of 7,000' to 7,500', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

Contingency DVTOOL

a. First stage to DV tool:

- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with next stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

Alternative SECOND Intermediate Casing Design.

- 5. The minimum required fill of cement behind the 7 inch production casing is:
 - c. First stage to DV tool:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
 - d. Second stage above DV tool:

Cement to surface. If cement does not circulate, contact the appropriate BLM office.

4-1/2 inch production Liner is with Packer/Port system has been removed

6. 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.

C. PRESSURE CONTROL

- 1. 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 Sec. 17. Piping from choke manifold to flare to be as straight as possible.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 20 inch surface casing shoe shall be 2000 (2M) psi.
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch intermediate casing shoe shall be 3000 (3M) psi.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength,

whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. 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.
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. 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.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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