HOBBSOCD		OCD Hobb)S			
Form 3160-3 (March 2012) AUG 0 8 2013				FORM AI OMB No. Expires Octo		
UNITED STA RECEIVEDEPARTMENT OF TH BUREAU OF LAND M	HE INTERIOR		5. Lo NM-90	ease Serial No.	oer 31, 2014	
APPLICATION FOR PERMIT		REENTER	6. If	Indian, Allotee or	Tribe Name	
la. Type of work: DRILL RE	ENTER	· · · · · · · · · · · · · · · · · · ·	7 If U	Jnit or CA Agreem	ient, Name and No	
lb. Type of Well: 🗸 Oil Well 🗌 Gas Well 💭 Other	√ Sir	gle Zone 🔲 Multij		ase Name and We ng BAZ Federa		YON /
2. Name of Operator Yates Petroleum Corporation		515		T Well No.	5-413	25
^{3a.} Address 105 S. Fourth St. Artesia. NM 88210	3b. Phone No. 575-748-4	(include area code) 20	10.	Id and Pool, or Exp	Basin	\sqrt{q}
4. Location of Well (Report location clearly and in accordance w At surface 330' FNL & 1650' FEL		ents.*)	11. Sec	0	and Survey or Are	a •
At proposed prod. zone 330' FSL & 1980' FEL 14. Distance in miles and direction from nearest town or post office 38 North West of Jal, NM	Uni+O		12. Co Lea	unty or Parish	13. State NM	
15. Distance from proposed* 330' location to nearest 330' property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of a 1760	cres in lease	17. Spacing Unit de 160 acres, W2E		1	
 Distance from proposed location* to nearest well, drilling, completed, 2 miles applied for, on this lease, ft. 	19. Proposed 9700' Pilot 13729' TD	Depth hole, 9300' TVD	20. BLM/BIA Bond NMB000434 NMB000920	i No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3643'	22. Approxim 12/15/201	nate date work will sta 3	rt* 23. Es 30 da	timated duration ays		·
	24. Attac	hments				
 The following, completed in accordance with the requirements of C Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy SUPO must be filed with the appropriate Forest Service Office 	stem Lands, the	 Bond to cover t Item 20 above). Operator certified 	he operations unless		-	
25. Signature		(Printed/Typed) Hahn			ate)1/03/2013	
Title	I			1		
Approved by (Signature) /s/George MacDone	II Name	(Printed/Typed)Geo	orge MacDo	onell ^D	AUG - 6	2013
Title FIELD MANAGER	Office	CARLSBAD	FIELD OFFICE			
Application approval does not warrant or certify that the applican conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal or equi	able title to those righ	its in the subject lease	e which would enti	tle the applicant to DR TWO Y	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representation	it a crime for any pe ns as to any matter w	rson knowingly and vithin its jurisdiction.	willfully to make to a	ny department or a	agency of the Unit	ed
(Continued on page 2)		Ke	willfully to make to an $Carlsl$	ad Contro	ctions on pag Dlied Wate	er Basi
	-	081	1711/			
		V				_

SEE CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

AUG 16 2013

YATES PETROLEUM CORPORATION

Amazing BAZ Federal #7H 330' FNL & 1980' FEL, Surface Hole 330' FSL & 1650' FEL, Bottom Hole Section 19 –T22S-R32E Lea County, New Mexico

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

Rustler	800'	Bone Springs	8480'
Top of Salt	950'	Avalon Shale Target	9300' Oil
Base of Salt	4345'	Bone Springs 1/SD	9580' Oil
Bell Canyon	4650'	TD · *	9700' Oil
Cherry Canyon	5540'		
Brushy Canyon	6830'	Lateral Hole (TD)	13726' MD

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

Water: Approx.: 0' - 396' & 1743' - 3550' Oil or Gas: See above--All Potential Zones

- 3. Pressure Control Equipment: A 3000 PSI BOP with a 13 5/8" opening will be installed on the 13 3/8" casing and also on the 9 5/8" casing. Pressure tests to 3000 PSI and held for 30 minutes will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventers 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.
- 4. 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.

1. THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Casing Program: (All New) 13 3/8" will be J-55/H-40 Hybird

	<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	<u>Grade</u>	Coupling	Interval	Length
<i>c</i>	26"	20"	94#	H-40	Buttress Thread	0-58'	58'
See (or	1 7 ½"	13 3/8"	48#	J-55	ST&C	0-825-946	'825'
	12 ¼"	9 5/8"	40#	J-55	LT&C	0'-100'	100'
	12 ¼"	9 5/8"	36#	K-55	LT&C	100'-3300'	3200'
Sée CA	12 ¼"	9 5/8"	40#	J-55	LT&C	3300'-4450"-44	Cq150-
COM	8 ¾"	5 1/2"	17#	L-80	LT&C	0'-8800'	8800'
	8 1⁄2"	5 1/2"	17#	L-80	Buttress Thread	8800'-13729'	4929'

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

Amazing BAZ Federal #7H Page Two

B. CEMENTING PROGRAM:

Surface casing: 855 sacks of Class C + 2% CaCl2 (YLD 1.34 WT 14.80). Designed with 100% excess, TOC is surface.

Intermediate Casing (0'-4450'): Lead with 1255 sacks of Class C-Lite + 2% CaCl2 (YLD 2.00 WT 12.50); tail in with 210 sacks of Class C + 2% CaCl2 (YLD 1.34 WT 14.80). Designed with 100% excess, TOC is surface.

Production Casing: Cement to be done with DV Tool in two stages at approximately 8500' & 6000'.

Stage 3 from 3950'-6000': Lead with 400 sacks of Class C-Lite + 2% CaCl2 (YLD 2.00 WT. 12.50); tail in with 200 sacks of Class C + 2% CaCl2 (YLD 1.34 WT 14.80). Designed with 35% excess, TOC-3950'.

Stage 2 from 6000'-8500': Lead with 510 sacks Class C-Lite + 2% CaCl2 (YLD 2.00 WT 12.50); tail in with 200 sacks of Class C + 2% CaCl2 (YLD 1.34 WT. 14.80).

Stage 1 from 8500'-13729: Cement with 1350 sacks of Pecos VILt (WT13.00 YLD 1.83) additives include 30% CaCO, 3.2% Expansion additive, 2% Antifoam, .8% Retarder, 15 Fluid loss. TOC- 4000' Designed with 35% excess.

Well will be drilled vertically with a pilot hole to a depth of 9700'. Isolation plug will be cemented from 9700' to 9500' with 100 sacks of Class H [YLD 0.94 WT 17.5] additive's being Fresh water is 3.352 gal/sack, Dispersant is 0.030 gal/sack, Retarder Acc is 0.070 gal/sack, and Antifoam 0.020 gal/sack, plug designed with 10% excess. Kick off plug will be at 9100' to 8600' with 300 sacks of Class H [YLD 0.94 WT 17.5] additive's being Fresh water 3.352 gal/sack, 0.3 gal/sack dispersant, 0.06 gal/sack retarder, and 0.02 gal/sack antifoam, plug designed with 35% excess. Well will then be kicked off at 8823' and drilled directionally at 12 degrees per 100' with a 8 ³/₄" hole to 9573' MD (9300' TVD). Hole will then be reduced to 8 ¹/₂" and drilled to 13729' MD (9300' TVD) where 5 ¹/₂" casing will be set and cemented. Penetration point of producing zone will be encountered at 806' FNL & 1681' FEL, Section 19-22S-32E. Deepest TVD in the pilot hole 9700', deepest TVD in the lateral will be 9300'. DV tools to be placed at 8500' and 6000' on production casing well will be cemented in three stages.

5. Mud Program and Auxiliary Equipment:

Interval	Type	Weight	Viscosity	<u>Fluid Loss</u>
<u>Interval</u> 0-825' 940 825'-4450' 4600	Fresh Water	8.6-9.2	28-32	N/C
825'-4450' 400	Brine Water	10.0-10.2	28-30	N/C
4450'-9700'	Cut Brine	9.0-9.2	30-32	N/C
8823'-13729'	Cut Brine (lateral)	9.0-9.2	32-34	<10-12

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. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM: See COD

Samples: 30' samples to 4450'. 10' samples 4450' to TD. Logging: Platform Express CMR, Dipole Sonic Coring: As warranted. DST's: As warranted. Mudlogging: On surface casing to TD (825'-13729')

7. Abnormal Conditions, Bottom hole pressure and potential hazards: Anticipated BHP:

From:	0	TO:	825'	Anticipated Max. BHP:	380	PSI
From:	825'	TO:	4450'	Anticipated Max. BHP:	2150	PSI
From:	4450'	TO:	9700"	Anticipated Max. BHP:	3875	PSI
No abnorma	l pressure	es or tempe	eratures a	are anticipated.		
1100 11-1 4-1	- in stad					

H2S Not Anticipated

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 65 days to drill the well with completion taking another 30 days.



.



	0.00			Survey/Plann	ling Report						
Operator	Yates Petroleum Corp.			Northing			1 1	12-Jun-12			
Dir. Co	. Yates Petroleum Corp.			Easting	1		System	2 - St. Plane)		
Well Name	Amazing Fed #7H Survey			Elevation	Elevation			Datum 1983 - NAD83			
Location	Sec. 19, 2	2S-32E		Latitude	1		Zone 4302 - Utah Central				
Rig		•	5	Longitude			Scale Fac.				
Job				Units	Feet		Converg.		-		
ELS MD				I ↓ +N/S ↓	and the second	VS@188.69		TR	Acres Street States and and a second second		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
800.00	0.00	360.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00		
800: RUSTLER	•										
950.00	0.00	360.00	950.00	0.00	0.00	0.00	0.00	0.00	0.00		
950: TOS, 950'		<u>_</u>	<u>_</u>								
4345.00	0.00	360.00	4345.00	0.00	0.00	0.00	0.00	0.00	0.00		
4345: BOS, 434											
4650.00	0.00	360.00	4650.00	0.00	0.00	0.00	0.00	0.00	0.00		
4650: BELL CA	•										
5540.00	0.00	360.00	5540.00	0.00	0.00	0.00	0.00	0.00	0.00		
5540: CHERRY				0.04							
6830.00	0.00	360.00	6830.00	0.01	0.00	-0.01	0.00	0.00	0.00		
6830: BRUSHY											
8480.00	0.00	360.00	8480.00	0.01	0.00	-0.01	0.00	0.00	0.00		
8480: BONE SP			0000 54		0.00			0.00			
8822.54	0.00	183.69	8822.54	0.01	0.00	-0.01	0.00	2.08	0.00		
8822.54: KOP, 8		100.00	0000.00	6.05	0.40	0.00	40.00	0.00	40.00		
8900.00	9.30	183.69 183.69	8899.66	-6.25 -32.53	-0.40	6.26	12.00	0.00	12.00		
9000.00	21.30	183.69	8995.94	-32.53 -78.21	-2.10	32.59	12.00	0.00	12.00		
9100.00	33.30		9084.64		-5.05	78.37	12.00	0.00	12.00		
9200.00	45.30 57.30	183.69 183.69	9161.89	-141.29	-9.12	141.59	12.00	0.00	12.00		
9300.00 9400.00	57.30 69.30	183.69	9224.31 9269.16	-219.03 -308.01	-14.14	219.48	12.00	0.00	12.00		
9400.00 9500.00	69.30 81.30	183.69	9269.16 9294.50	-308.01 -404.36	-19.88 -26.10	308.65 405.20	12.00 12.00	0.00 0.00	12.00 12.00		
9500.00 9572.53	81.30 90.00	183.69	9294.50 9300.00	-404.36 -476.46	-26.10 -30.76	405.20 477.46	12.00	0.00	12.00		
9572.53 9572.53: TARGI				the second s	-30.70	411.40	12.00	0.00	12.00		
13729.28	90.00	183.69	9300.01	-4624.57	-298.55	4634.20	0.00	0.00	0.00		
				-4024.07	-290.00	4034.20	0.00	0.00	0.00		
13729.28: LATERAL TD, 13729' MD (9300' TVD)											

.







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



YATES PETROLEUM CORPORATION

Piping from Choke Manifold to the Closed Loop Drilling Mud System



