DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

5.	Lease	Serial	No.	

5.	Lease Serial No.	
1	NM-100545	
6.	If Indian, Allottee or Tribe Name	

Ia. Type of Work:	er ·		7. If Unit or CA Agreeme	ent, Name and No.
lb. Type of Well: 🔲 Oil Well 🛂 Gas Well 🔲 Other	Single Zone D Mult	ipte Zone	8. Lease Name and Well Mental Flosis	No. 35787 7 Federal, #
2. Name of Operator	= 0 = 0.0/		9. API Well No.	2
Ameristate Exploration, LLC	158898 3b. Phone No. (include area code)		30.015.	54419
3a. Address	1		10. Field and Pool, or Expl	oratory
111 Congress Ave., Suite 2700 Austin,			Wildcat; M	and Survey or Ame
4. Location of Well (Report location clearly and in accordance with At surface 1500' FSL & 1650' FEL.	any State requirements.			and ourrey or rece
2500 102 (12000 1202	\sim		Sec. 7-T165-H	R 2 7E
At proposed prod. zone	<u> </u>		12. County or Parish.	13. State
 Distance in miles and direction from nearest town or post office* 12.5 miles to Artesia, west of loca 	tion.		Eddy	NM NM
5. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this well	
property or lease line, ft. (Also to nearest drig, unit line, if any) 1500	1430.91	320		
8. Distance from proposed location*	19. Proposed Depth	20. BLM/I	BLA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. 33501	8,150'	NMB-C	000296	
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	urt °	23. Estimated duration	
3452 GL	June 5, 2006		5 - 6 weeks	
·	24. Attachments	Kosw	ell Controlled Water Ba	sin-
he following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shall be at	tached to this	s form:	
. Well plat certified by a registered surveyor.	4. Bond to cover	he operation	ns unless covered by an exis	ting bond on file (see
. A Drilling Plan.	ltem 20 above). 5. Operator certifi	retion		
A Surface Use Plan (If the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		specific inf	ormation and/or plans as me	ny be required by the
5. Signature	Name (Printed/Typed)		Dat	le
nearged Smith	George R. Smith	1	M	av 4. 2006
Agent for Ameristate Exploration,	, LLC			
sproved by (Signature)	Name (Printed/Typed)	//	De	18/200h
Adva FIELD MANAGER	Office	SBAD	/	′ (
pplication approval does not warrant or certify the the applicant holds	legal or equitable title to those rights			
perations thereon. Conditions of approval, if any, are attached.			PROVAL FOR	
litie 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make interest any fairs, fictitious or fraudulent statements or representations as	it a crime for any person knowingly (to any matter within its jurisdiction.	and willfully	to make to any department o	r agency of the United
(Instructions on coverse)				

Lease Responsibility Statement: Ameristate Exploration, LLC accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

DECLARED WATER BASIN CEMENT BEHAND THE 134

DECLARED WATER BASIN CEMENT BEHIND THE 73

George R. Smith, agent

CASING MUST BE GREVEATED CASING MUST BE CIRCULATED

APPROVAL SUBJECT TO

WITNESS

GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

19.5

District I 16.75 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

District IV ■ AMENDED REPORT 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code API Number 96070 ⁶ Well Number Property Code MENTAL FLOSS 7 FEDERAL 1 OGRID No. * Operator Name Elevation AMERISTATE EXPLORATION, LLC 3452 158898 ¹⁰ Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 27-E 1500 J SOUTH 1650 **EAST EDDY** 7 16-S 11 Bottom Hole Location If Different From Surface Lot Idn Range Feet from the North/South line Feet from the East/West line UL or lot no. Section Township County 12 Dedicated Acre 13 Joint or Infill 4 Consolidation Code ¹⁵ Order No. 320 No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete best of my knowledge and belief, and that this organization either working interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a ict with an owner of such a working interest, or to a voluntary oxoling agreement or a compulsory pooling order heretofore entered by George R. Smith, agent Printed Name 18SURVEYOR CERTIFICATION LAT N32.93441 LON W104.31470 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 1650 **NOVEMBER 10, 2005** Date of Survey

APPLICATION FOR DRILLING AMERISTATE EXPLORATION, LLC

Mental Floss 7 Federal, Well No. 1 1500' FSL & 1650' FEL, Sec. 7-T16S-R27E

> Eddy County, New Mexico Lease No.: NM-100545 (Exploratory Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Ameristate Exploration, LLC submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

San Andres	960'	Canyon	6875'
Glorieta	2,260'	Strawn	7240'
Drinkard	3610'	Atoka	7460'
Abo	4315'	Morrow	7785'
Wolfcamp	5525'	Chester	8070'
Cisco	6570'	T.D.	8150'

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

Water: Surface water in the Triassic between 80' - 230' and possible in lower formations to 800'.

Oil: Possible in the San Andres & Premier below 1,260'.

Gas: In the Morrow below 7,785'.

4. Proposed Casing Program:

		,				
HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"				40'	Cement to surface
17 1/2"	13 3/8"	54.5#	J-55	ST&C	425'	Circ. 465 sx Prem + to surface
12 1/4"	9 5/8 "	40.0#	J-55	ST&C	1,200'	220 sx "C"+ 200 sx Prem
8 3/4"	5 1/2"	17.0#	N-80	LT&C	8.150'	940 sx "C" + 230 sx Super "H". TOC 800'

5. Proposed Control Equipment: A 13 3/8" 3000 psi wp annular preventer will be installed on 13 3/8" and tested to 2000 psi. Install 11"5000 psi Shaffer Type "LWS" BOP with 11" annular on the 9 5/8" casing. Casing and BOP will be tested as per Onshore Oil & Gas Order No. 2 before drilling out with 8 3/4". See Exhibit "E".

6	MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
	0' - 425':	Fresh water/gel mud:	8.4 – 9.5 ppg	35 - 34	No W/L control
	425' - 1,200':	Fresh water	8.4 – 8.6 ppg	28	No W/L control
	1,200' - 4,200':	Fresh water mud:	8.4 ppg	28	No W/L control
	4,200' - 5,400':	Cut Brine	9.0 – 9.2 ppg	28	No W/L control
	5,400' - 7,400':	Cut Brine	9.0 – 9.4 ppg	30 - 31	W/L control 25 ppg +/-
	7,400' - 7,600':	Cut Brine	9.0 – 9.3 ppg	30 - 32	W/L control 8 ppg +/-
	7,600' - 8,150':	Cut Brine	9.0 – 9.5 ppg	32 - 40	W/L control 6 ppg +/-

7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.

AMERISTATE EXPLORATION, LLC Mental Floss 7 Federal, Well No. 1 Page 2

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None planned.

Logging: T.D -Int. Casing:

Triple Combo

T.D. to surface:

G/R, CNL

Coring:

None planned.

9. 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. Estimated Surface Pressure = 1793 psi (evac. hole) and BHP of 3586 psi (evac) with temperature of 142°.

10. H₂S: None expected. None encountered in previously drilled wells.

11. Anticipated starting date: June 5, 2006.

Anticipated completion of drilling operations: Approx. 6 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

AMERISTATE EXPLORATION, LLC

Mental Floss 7 Federal, Well No. 1 1500' FSL & 1650' FEL, Sec. 7-T16S-R27E Eddy County, New Mexico Lease No.: NM-100545 (Exploratory Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan to be followed in rehabilitating the surface and environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM topo map showing the location of the proposed well as staked. The well site location is approximately 13 road miles east of Artesia, NM. Traveling east of Artesia on U.S. Hwy 82 there will be approximately 7 miles of existing paved road and 5.5 miles of gravel oil field roads
- B. Directions: Travel east of U.S. Hwy 285 in Artesia on U.S. Hwy 82 for 5 miles to Karr Rd., a paved County Rd. Turn north on Karr Rd., CR 200 for 4.1 miles to end of paving. Continue north on gravel road for 2.4 miles to a two-track road on the east. Turn east on two-track for .3 mile and pass through a gate. The proposed access road starts at this point and runs northeast on east side of the fence for .3 mile and then turns southeast for .15 mi. (900') to the SW corner of the proposed well pad.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The existing and proposed new access road will be approximately 4080 feet long. The proposed and existing roads are color coded on Exhibits "A".
- B. Construction: The proposed and existing access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: Several (possibly three) turnouts on the existing and proposed new access road will be required; increasing the width to 20 feet for passing.
- D. Culverts: None.
- E. Cuts and Fills: None required.
- F. Gates, Cattle guards: One cattle guard will be required.
- G. Off lease right of way: None required. See Right of Way No. 112857.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two-mile radius are shown on Exhibit "C".

AMERISTATE EXPLORATION, LLC

Mental Floss 7 Federal, Well No. 1 Page 2

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Ameristate Exploration, LLC has no production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, if required, will be installed on the drilling pad.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the proposed access road and well site pad will be obtained from the approved Federal pit in the SW4SW4 Sec. 6-T16S-R27E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the steel tanks of the closed loop mud system.
- B. Drilling fluids will be trucked to an authorized disposal area.
- C. There will be no mud pits to be fenced.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering by the wind and will be removed for deposit in an approved sanitary landfill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

AMERISTATE EXPLORATION, LLC

Mental Floss 7 Federal, Well No. 1 Page 3

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 500' X 500'.
- B. Mat Size: 290' X 175', plus 30' X 290' closed loop mud system on the north.
- C Cut & Fill: The location will require a 3- foot cut on the northwest with fill to the northeast.
- D. The surface will be topped with compacted caliche.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not required for operations will be removed. The location will be cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
- B. There will be no unguarded pits containing fluids.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. Mud from the closed system will be disposed of as required.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road are located on a 1.5% slope to the east. The location has an elevation of 3452' GL.
- B. Soil: The topsoil at the well site is a tan loam with some surface scatter of gypsum rock and some exposed bedrock outcrops. The soil is part of the Reeves-Gypsum land complex.
- C. Flora and Fauna: The location has a fair to poor grass cover of three awn, sacaton, tobosa and muhly along with plants of mesquite, yucca, broomweed, creosote bush, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, antelope, deer, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None except intermittent running draws when it rains.
- E. Residences and Other Structures: None in the immediate vicinity except, a steel water storage tank on a hill 1600 feet to the southwest.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.

AMERISTATE EXPLORATION, LLC

Mental Floss 7 Federal, Well No. 1 Page 4

11. OTHER INFORMATION: cont.

H. There is no evidence of archaeological, historical or cultural sites in the staked area. Southern New Mexico Archaeological Services Co., P. O. Box 1, Bent, NM 88314 has conducted an archaeological survey and their report has been submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative for assuring compliance with the approved use and operations plan is as follows:

Mickey Davidson Ameristate Exploration, LLC 111 Congress Ave. Suite 2700 Austin, TX 78701 Cell Phone: (361) 215-4993

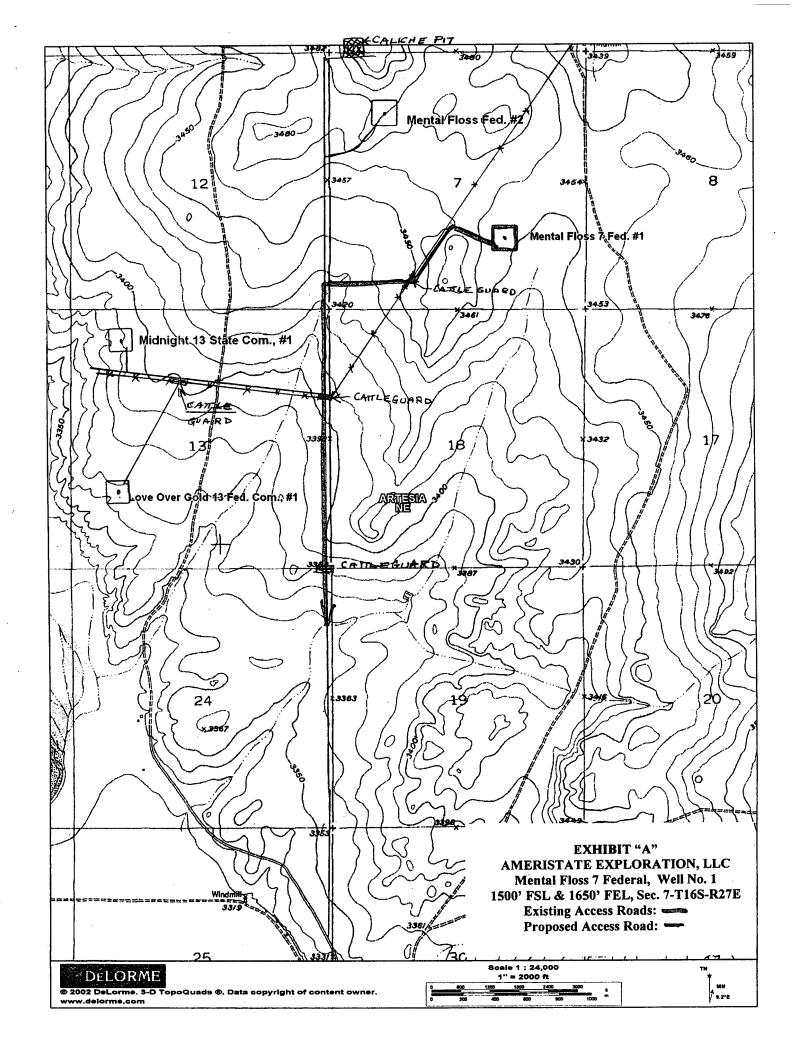
13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Ameristate Exploration, LLC and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

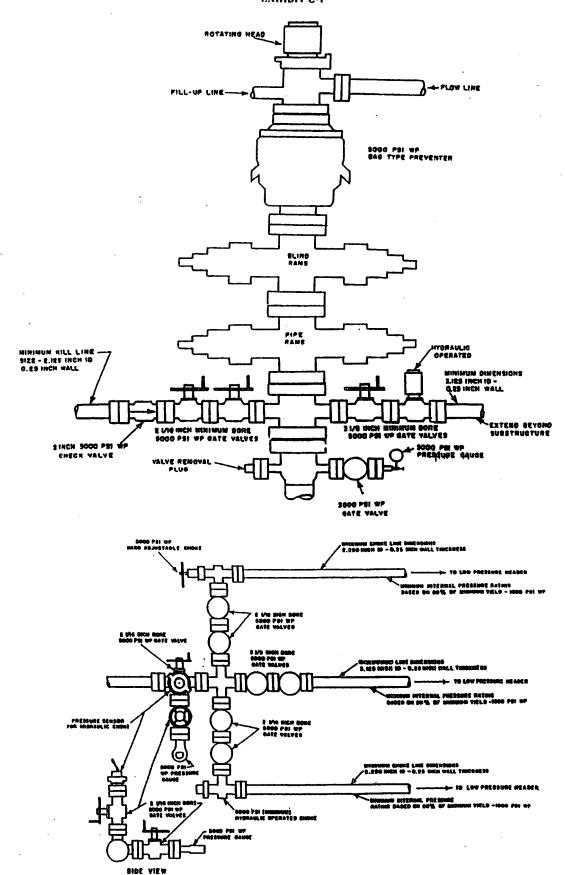
May 3, 2006

George R. Smith

Agent for: Ameristate Exploration, LLC



5000 PSI WORKING PRESSURE BLOWOUT PREVENTER STACK EXHIBIT C-I



5000 PSI WORKING PRESSURE CHOKE MANIPOLD EXHIBIT C-2 EXHIBIT "E"

AMERISTATE EXPLORATION, LLC

Mental Floss 7 Federal, Well No. 1

BOP Specifications

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe

Form C-144

March 12, 2004

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes \(\subseteq \text{No} \subseteq \)

Operator: _Ameristate_Exploration, LLC	Telephone: Off.:(512) 391-4913	e-mail address:
Address: 111Congress Ave., Suite 2700 Austin, TX 78701		
Facility or well name: _Mental Floss 7 Federal, Well No. 1	API #:	U/L or Qtr/Qtr MW4SE4Sec_7T_16SR_27
County: _EddyLatitude_N32.93441Longitude_W10		
Pit	Below-grade tank	
Type: Drilling X Production Disposal No Pit being used	Volume:bbl Type of fluid:	
Workover ☐ Emergency ☐	Construction material:	
Lined 🔲 Unlined 🔲	Double-walled, with leak detection? Yes] If not, explain why not.
Liner type: Synthetic Thicknessmil Clay Volume		
ьь <u>Using a closed loop system</u>		
Posts to assend some formation distance from bottom of sixty assents bish	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)
water elevation of ground water.)	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(O points)
water sources, or less than 1000 feet from an other water sources.)		
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	((0 points)
	Ranking Score (Total Points)	-0-
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2)	Indicate disposal location:
onsite [] offsite [] If offsite, name of facility	(3) Attach a general description of remed	lial action taken including remediation start date and
end date. (4) Groundwater encountered: No 🗌 Yes 🔲 If yes, show depth	below ground surfaceft. and at	ttach sample results. (5) Attach soil sample results and
a diagram of sample locations and excavations.		
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines X a g Date: May 3, 2006	general permit 🔲, or an (attached) alternati	ve OCD-approved plan 🔲.
Printed Name/Title_George R. Smith, agent	Signature Leven K	metto
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	relieve the operator of liability should the cont	ents of the pit or tank contaminate ground water or
Approval:		
Date:		
Printed Name/Title	Signature	

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Ameristate Exploration, LLC Well No. 1 - Mental Floss 7 Federal

Location: <u>1500' FSL & 1650' FEL</u> sec. <u>7, T. 16 S., R. 27 E.</u>

Lease: NM-100545

I. DRILLING OPERATIONS REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at (505) 234-5972 in sufficient time for a representative to witness:
- A. Spudding
- B. Cementing casing: <u>13-3/8</u> inch <u>9-5/8</u> inch <u>5-1/2</u> inch
- C. BOP tests
- 2. 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.
- 3. Include the API No. assigned to well by NMOCD on the subsequent report of setting the first casing string.

II. CASING:

- 1. 13-3/8 inch surface casing should be set <u>at approximately 425 feet</u>, below usable water and circulate cement to the surface. If cement does not circulate to the surface this BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. Minimum required fill of cement behind the <u>9-5/8</u> inch intermediate casing is <u>sufficient to circulate to the</u> <u>surface</u>.
- 3. Minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>sufficient to tie back 500 feet above</u> the uppermost perforation in the pay zone.

III. PRESSURE CONTROL:

- 1. Before drilling below the 13-3/8 inch surface casing, the blowout preventer assembly shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve. Before drilling below the 9-5/8 inch intermediate casing, the blowout preventer assembly shall consist of a minimum of One Annular Preventer, Two Ram-Type Preventers, and a Kelly Cock/Stabbing Valve.
- 2. Before drilling below the 13-3/8 inch surface casing, minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2000 psi. Before drilling below the 9-5/8 inch intermediate casing, minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 3000 psi.

CONDITIONS OF APPROVAL - DRILLING (CONTINUED)

Operator's Name: Ameristate Exploration, LLC Well No. 1 - Mental Floss 7 Federal

Location: 1500' FSL & 1650' FEL sec. 7, T. 16 S., R. 27 E.

Lease: NM-100545

III. PRESSURE CONTROL: (CONTINUED)

- 3. After setting the <u>9-5/8</u> intermediate string and before drilling into the <u>Wolfcamp</u> formation, the BOPE shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- A. The BLM office shall be notified at (505) 234-5972 in sufficient time for a representative to witness the tests.
- B. The tests shall be done by an independent service company.
- C. The results of the test shall be reported to the BLM Carlsbad Field Office at 620 East Greene Street, Carlsbad, New Mexico 88220-6292.
- D. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- E. Testing must be done in a safe workman like manner. Hard line connections shall be required.

IV. DRILLING MUD:

- 1. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the <u>Wolfcamp</u> formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:
- A. Recording pit level indicator to indicate volume gains and losses.
- B. Flow-sensor on the flow-line to warn of abnormal mud returns from the well.