# OCD-ARTESIA



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM	APPROVED
OMB N	No. 1004-0137
Expires	No. 1004-0137 March 31, 200

 Lease Serial No. NM-098157

6.	If Indian,	Allotee	or Tribe Name	

APPLICATION FOR PERMIT TO	DRILI	OR REENTER		o. If maigh, Anolec	or tribe ivalue
la. Type of work: DRILL REENTH	7. If Unit or CA Agree	ement, Name and No.			
lb. Type of Well: ☐Oil Well ☐Gas Well ☐Other	[	Single Zone Multip	le Zone	8. Lease Name and V Mental Floss 1	<i>j</i> ,
2. Name of Operator 15888 Ameristate Exploration, LLC A	TT N	: John House	K	9. API Well No.	5-35220
3a. Address 401 Congress Ave. Ste. 2900 Austin, Tx 78701		one No. (include area code) 12 623 <del>5500</del> 5 5 3 5	-	10. Field and Pool, or E Wildcat Mortr	,
4. Location of Well (Report location clearly and in accordance with an At surface 1980' FNL & 1470' FEL	ny State re	equirements.*)		11. Sec., T. R. M. or Bi Sec. 18, T16S,	,
At proposed prod. zone  14. Distance in miles and direction from nearest town or post office*  12.5 miles to Artesia, NM, West of location				12. County or Parish	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No	o. of acres in lease	17. Spacin	g Unit dedicated to this v	vell
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  3,485'	19. Pr 8,40	oposed Depth		BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3,423' GL	22. A	pproximate date work will star 11/01/2006	t*	23. Estimated duration 5-6 weeks	1
		Attachments			
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>		4. Bond to cover the ltem 20 above).  5. Operator certification.	ne operation specific info	ns unless covered by an	existing bond on file (see
25. Signature Odul		Name (Printed Typed)  Don C. Deck			Date 10/04/2006
litte Agent for Ameristate Exploration, LLC					
Approved by (Signature) /s/ James Stovall		Name (Printed TISA) Jan	nes St	ovall	Dat NOV 0 5 2006
Title ACTING FIELD MANAGER				ELD OFFICI	
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ds legal	or equitable title to those righ	ts in the sub	•	entitle the applicant to

\*(Instructions on page 2)

ROSWELL CONTROLLED WATER BASIN

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly a States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdictio

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

SEE ATTACHED FUR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

## Statement Accepting Responsibility for Operations

Operator Name: Ameristate Exploration, LLC Street or Box: 401 Congress Avenue, Suite 2900

City, State: Austin, Texas

Zip Code: 78701

The undersigned accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No. & Legal Description of Land:

NM-098157 558.100 acres

OR

Formation(s): Wildcat Morrow Bond Coverage:

BLM Bond File No.: NMB-000296

Authorized Signature:

Don C. Deck

Title: Agent for Ameristate Exploration, LLC

Date: October 4, 2006

#### DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 86240

## State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 OF Revise Optober 12, 2005
ARTES State Jesse - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLATESTEE

1220 S. ST. FRANCIS DR., SANTA FR. NM 87505	WELL LOCATION AND	ACMIAGE DEDICATION TEATCEC	□ AMENDED REPORT
API Number Pool Code		Pool Name	
	96070	Wildcat Morrow	
Property Code	Prop	erty Name	Well Number
	MENTAL FLO	SS 18 FEDERAL	1
OGRID No.	Oper	ator Name	Elevation
158898	AMERISTATE F	EXPLORATION. LLC	3423'

#### Surface Location

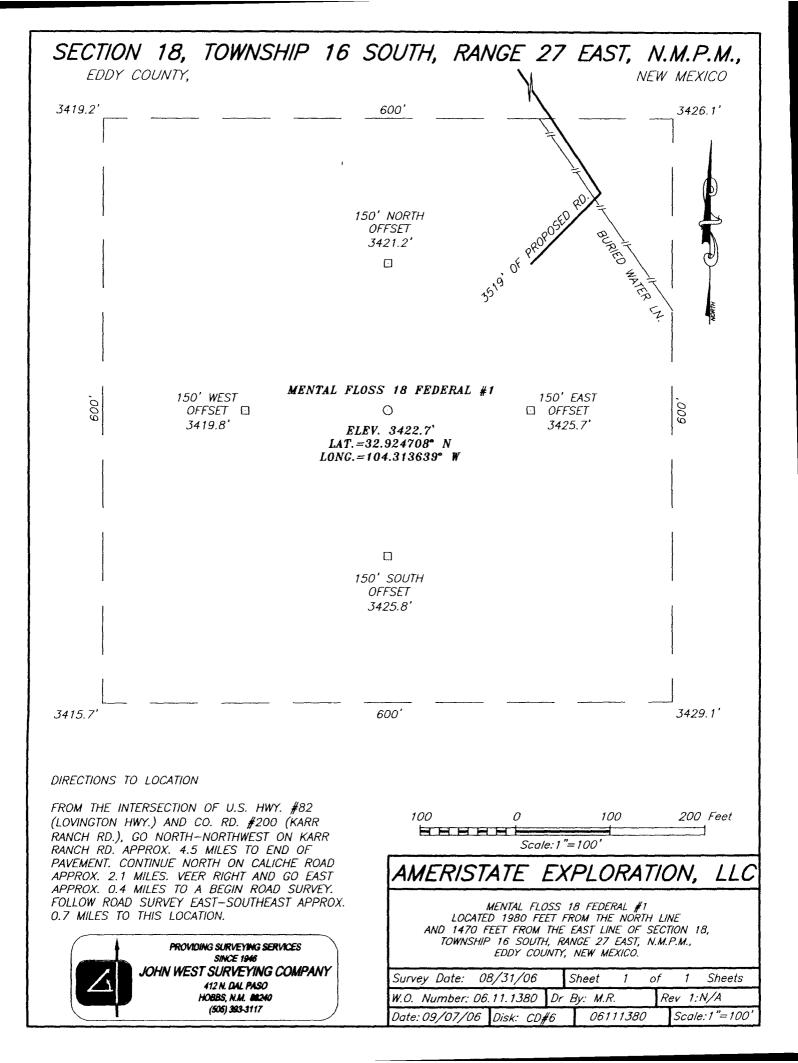
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	18	16-S	27-E		1980	NORTH	1470	EAST	EDDY

## Bottom Hole Location If Different From Surface

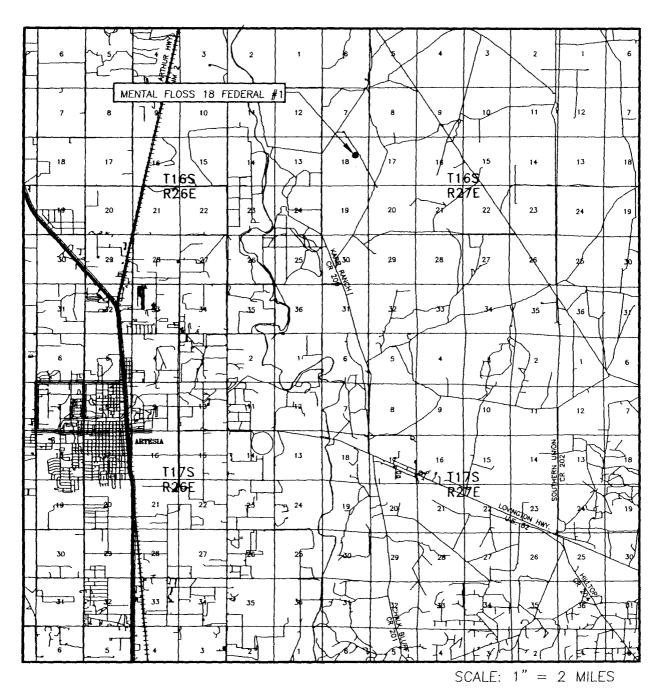
			Doctom	HOIC LOC	acion ii biiic	TCMC TIOM DUI	iacc		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1			_					ĺ	_
1		1	1	}					
		L		L	L	L	L	<b></b>	L
Dedicated Acres	Joint o	r Infill	Consolidation	Code Or	der No.				
320	j	1							
320	1	}		1					
	UL or lot No.  Dedicated Acres 320	Dedicated Acres   Joint o	Dedicated Acres   Joint or Infill	UL or lot No. Section Township Range  Dedicated Acres Joint or Infill Consolidation	UL or lot No. Section Township Range Lot Idn  Dedicated Acres Joint or Infill Consolidation Code Or	UL or lot No. Section Township Range Lot Idn Feet from the  Dedicated Acres Joint or Infill Consolidation Code Order No.	UL or lot No. Section Township Range Lot Idn Feet from the North/South line  Dedicated Acres Joint or Infill Consolidation Code Order No.	Dedicated Acres   Joint or Infill   Consolidation Code   Order No.	UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line  Dedicated Acres Joint or Infill Consolidation Code Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

107.1	OR A NON-STANDARD UNIT HAS BEEN APPROVED	
LOT 1	1 7/1	OPERATOR CERTIFICATION
		I hereby certify that the information herein is true and complete to the best of
		my knowledge and belief, and that this
	1 1	organisation either owns a working interest or unleased mineral interest in the land
		including the proposed bottom hole location or has a right to drill this well at this
	. 67	location pursuant to a contract with an owner of such mineral or working interest,
		or to a voluntary pooling agreement or a compulsory pooling order heretofore entered
LOT 2		by the division.
	3419.2' 3426.1'	Willack tan 155 cot
		Signature Date
	1470'-	Michael Brenie
		Printed Name
	3415.7' 3429.1'	/
	1	SURVEYOR CERTIFICATION
LOT 3		
	GEODETIC COORDINATES NAD 27 NME	I hereby certify that the well location shown on this plat was plotted from field
	NAD 27 NME	notes of actual surveys made by me or under my supervision, and that the same is
	Y=700121.3 N	true and correct to the best of my belief.
	X=506043.2 E	
	LAT.=32.924708° N	AUGUST 31, 2006
	LONG.=104.313639° W	Date Surreyed State MR
LOT 4	·	Signature & Seal of
101 4		Professional Surveyor
		Dan 12 2 mm 9/13/06
		06.11.1380
	/	Certificate No. GARY EDSON 12841
	1	
		Manufacture Commence



# VICINITY MAP



SEC. 18 TWP. 16-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 1470' FEL

ELEVATION 3423'

AMERISTATE

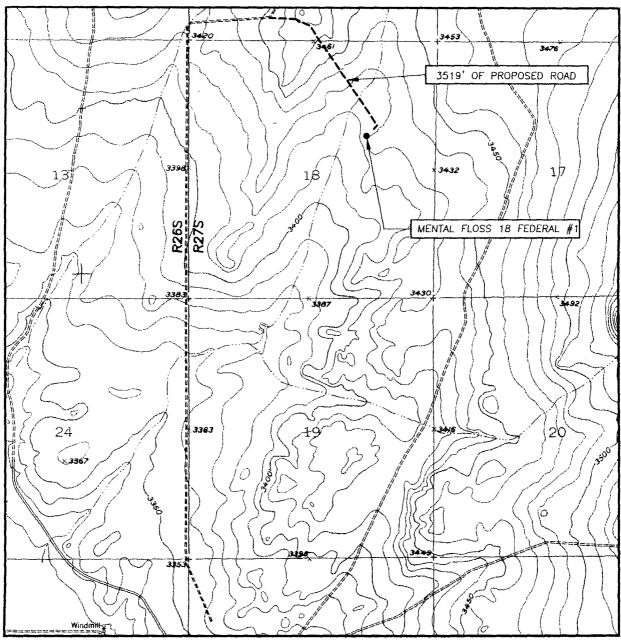
OPERATOR EXPLORATION, LLC

LEASE MENTAL FLOSS 18 FEDERAL





## LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

CONTOUR INTERVAL: ARTESIA NE, N.M. - 10'

SEC. 18 TWP. 16-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 1470' FEL

ELEVATION 3423'

AMERISTATE

OPERATOR EXPLORATION, LLC

LEASE MENTAL FLOSS 18 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

ARTESIA NE, N.M.

EXHIBIT "A"

AMERISTATE EXPLORATION, LLC

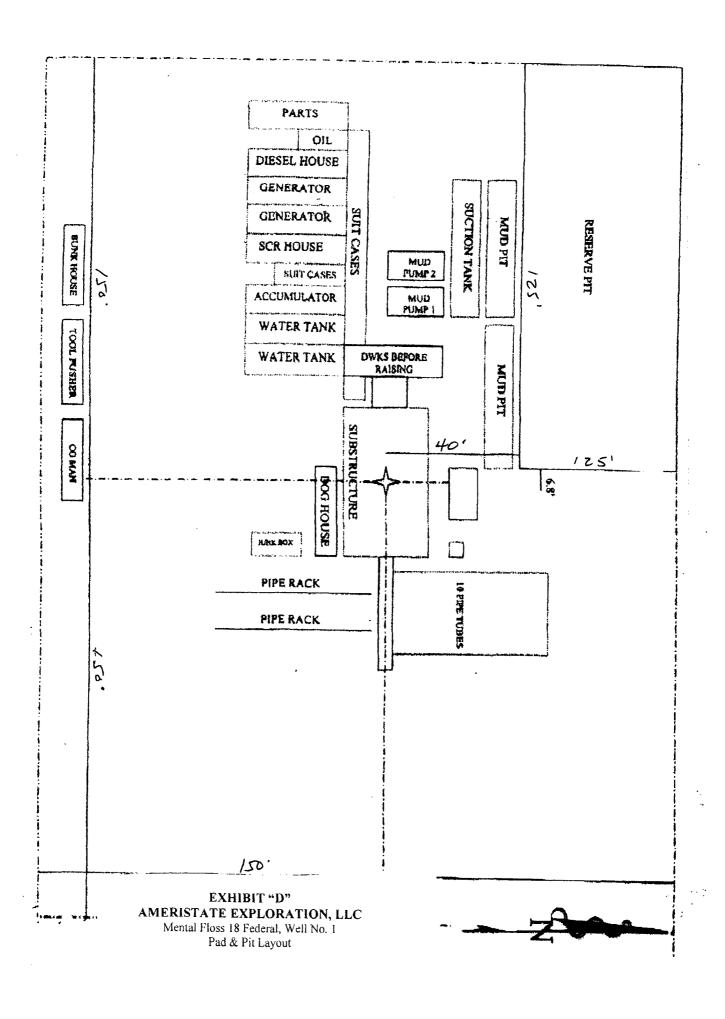
Mental Floss 18 Federal, Well No. 1

1980' FNL & 1470' FEL, Sec. 18-T16S-R27E

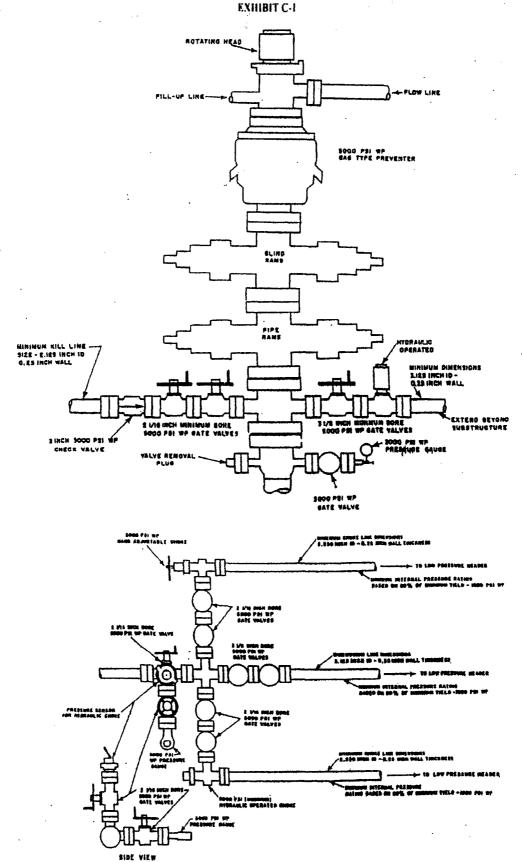
Existing Access Roads:

Proposed Access Road:

	3434 17	J. OE Gonza	. 1 U.E.	J Cany Expl. 71.50 Read E. Stevens	70	**************************************	14 13.	143 15	16 1 79 8436	- <b>4</b>		15 m	E 60'11
	38.72 18	9-1-20 VA 15:	22 3-) 2002 56 VA 5507 180 99	871.60 Ac. etal,	97	RCo 867 45∞	M.M.Sor- enson II-I-98 69162	31878 U & G 10 · 1 · 9 4 82862 1 44 40	1 1		Inited  Set  Gland  Hess  Moun  Mess Pet  Diamond  Mound-Fed  Atoka Pisc  J. IMIII	Meridian Literation Hantic Hest	10 12 m
	38 45 1 C	stilla Ener.	.   Colleg	fmouth   S.P. le, etal   Johnson Forms,inc. 田, eta		V. S. 19958	87 4	V. 84 A.c. I U. S	Yoles Artistal Filia 600 5.5.	"Bogle-St." 867.44 Ac. Stale	ı	u s	Call 41.33 16
	38 55 Z Yutes P	165 76F	12-1-2007 120-13-0 100-33-0 100-32-9 65-00 45-00	McClellano	. 40	Atlantic Res	General Atlantic Res.	Coak-Fe	Gen'i.	Attantic Res.  et.   Cont'l.	(Matador Pet., etal On Gen'l. Atlantic	(Enron /s Gen Atlanti Res.) HBP Res., 7065	41.50
	38 65 3	<i>"</i> ל	U. 3 Morexco 5 -7 -2002 W.H.	M.S. Trope  A Trivin  A Tr	Collier Energy Lark-Fed TOSOS D/AII-18-82	9 Sink-Fed. Grba Disc.	→ **	Germa Internalia	7056 277MU Union 10667	A   I   I   I   I   I   I   I   I   I	7.51 7066 Nadel 6 2	HBC N/2 -12	41.71 2
	30.75 7	/ S.	Ridaye Colorado O Irwin TD1485 R. H. Hayes	Morexo	0 McClellan Oil 02 Read 6 5 Stevens St. 6 10 1885 (P/8) 12 QA3-5-78 (P/8)	(Mesa) Sink-Fed, 2 C.B-20-88 (Morr.Disc.) (Morr.Disc.)	Hoss Fea	HBC er-Fed."		(Nadel f Gussmah)	Madel f Gussman) ‡ "Williamson-f	HBC z Mily Ced	रेश हैं। रेश रे
	38 70 : Santa Fe Ene 9 7 2006 9 7 121 34 50 7 3199	0 E. Gonzales 3 / 2007 90157 15019	Santa Fe Ener.		13.1	(hon   Roy ) A seMil	<del></del>	Collins E. Ware,	Chi Oper.	Collins () Ware 12 12003	Penwell Ene	U 5	
	36.50 3	0 -		al Floss Fed	leral, Well N	lo. 1	Dennis 10 Me Link vs 20 A 4.13.		848SI	92163 65 00	3 1 2007 98156 160 %	Penwell Ene 9-1-2007 9-9027 270-90	ก. กม ปี
-	31 w 4"			Meridian 6-1-2003	Barbara Fa.	) <sub>(</sub>	4-1-93   .(O)	# Hilcheock-	₩12 Mil.	14		13	(1 34 3 <sup>†</sup>
5	J.S.Fpiry 38.is ;	U. Ş.	Exxon	90982 14 <u>85</u>	21416	TD 96000 16	27 190887 14 00		(Callins E.Ware) Cr-Fed TO 9100 PIB 1536	U.S.		 	विभाग
	5 anta Fe 6 1 9 93185 134.45 1 10695		10-1 95 Western 62-902 Oil Prod July 10-86-6 DIAIFES	So. Union Gas  H.B.P. 945154  Meridian 1 Feynmach 1 F08830 109 2 94  Clark etal	Dennis I Don Lij 4 · J · S 5 4 8 5		Dennis Link, V2 Don Link 4 · 1 · 93 5 4 8 5 0	Chi Oper, 9-1-2004 93469 6099	C 1 0 3	1 Oper	4 Manigome Tozzas Kalten	<b>be</b> ch	42 43 Aramore Pariners, P Eogletial 3 14477 V
	5 <sub>8,75</sub> ]	9 1	5 anta Fe Ener.	1 legumseh 1 1088394 - O 1 liorkelol 6 6 ates	500W OF G 76988 500W OF G 2	2.3 Mil.	2	8. Anderson 2 To 2350	,⊚, ^-⊗,	Boyd +	۶	well Ener.,etal 1 · 2007 18806 250 9	42.50 2 Same Amoc Morc
	39.05 4	!	93190 106 <u>9</u> 2	' \$ 0 ares T# 2500	Ourfield (Was Disc.)	quina     Quina	81A 91.99 16988 65 92		LE.Jones Drig. Hitchcock 10 5018 DVA 5-20-60	£.J 102293	W.G.McCoy-	2 4 E.A. M.J. Harragan Harvey, 170 2-1-98	4258 3 Somedon Amoco- Fed. 10942B Arc
	22102	S.     Altrogge Res.   7 - 1 - 97   686-47	Santa ra Ener.	Fartco 19 1570 So Union Gas IVR	Par	teo		Marbob h			HEYartes	Manterey 2250	State Por 42.65 4 1, Er e 14.4
	106.00 39.27 Z	} ! !	8500	H ED 0 45154 Monterey 10 8865 0/4 749-59	90. 100 90. 100 0452 0452 Pitch Ener. 7	Spears	In IDIAGO (3)   So.Union Bas)   below 1570'   Marbob   To1570'	86895 35 22	061623 Spears Oil S/R	98906 88	LA.Monson, etal. J. Hap J. Oezeza Spears fill	Pitch Ener. 6-1 98 V 4157	42.69 Samedi HBP 1447
	Altrogge Res 7-1-97 68647	) — — — — 5anta Fe Ener. 6   1 2004 93189 10620	Pitch Ener.	Santa Fe Ener. 6 1 - 2004	Pitch Ener. 1	70 (369) - 10 (369) 5 anta Fe Ener. 6 1 2004	Hitchcock 2	10145) (Spears)  A Haragar  Tolan   Fed  # 6 A   Ha   P  # 7 A	enwell En,elul f	2A	18713. 2	W.J Spears Hanson ID 1812 DIAS 14 60	APD, 1/2
	19 37 Santa Fe Ener (6) 1804) 93 (4) 06 40 U.S.	108 a.c.	68647   	85 <u>°°</u>	Mates Peti etal !!:!- 90] !!:!- 90]	85 00 85 00	Hanson Hischewek, Fed. Sp. T01311	Tears DIASS	8006 250 <u>00</u> Hitchcock Halchcock Hanson Oil	1 7406  1 Yutes 1 Petriol 1 197 1 10 1662 V 4059 State 1 25 Pet, etal	(iātir)	Penwell Ener. 6 - 1 - 2007 90807	4171 JI- MWJ 12110 12.77 THE
	38 37 Exxon 5-1-84 Ed Phillips: 1-31-82) 38.15 2	Pitch Ener. 7 · 1 · 97 68647	Penwell Ener. 5 3 v 2002 v 1574 198 99	Joles el giol 0 70000 4 1380 1 70000 1 730		35 00 1A	HBP 16261	. 4	Hanson Yai	es Pet,etol		u.s.	41.77 CO
		5anta Fe Ener 6 · 1 · 2004 93189 106∞	ου h	Allen- das O.E.G. Georges fred - St. SA Disc. C. I-II-60	1	TD409	V. SI 6820	704) Yates Pet etal 5 · 1 · 2002 VA · 1588 126 95	1132477 4	/A · 1750 26289	7064	. 44 16 26 25	221 12 57 1
	SELECT	//////// 19, et al	Bayyar (	Yates Pet.etal 01-2000 1-4738 5733	H B P 961613	65 2004, Yates,etal 93190 наг 5 650 0 559532	Yates Pet, etal 5 · 1 · 2002 VA · 1588	4 — — — — — — — — — — — — — — — — — — —		71-6 13.4-Mil 15.4-Mi	strated -36 8.1.87 MWJ	HEC prod.Co	Tt.47 3 W.
	36 13 4 (Weel Morrow Disc, ece 1 1 Mil (Weel 2	19.36 B 40.12 1	51a1.	,	Sento F 10 - 1 - VA:1417 310	2000 52.28	126 <u>96</u> 51 a	11	5701.			Stratco Day + Oper. Cany-St. 8-1-87	Dog Canyon-i
/	Ed Phillips +7-31-84 31 220 5 Sporks Figt T- MI 5-20-65	1630 + HBP	16.4ndri- Amoco 7 (opoulos 3-1-91 62 A 3-964) 16.543 18.05 1		Fina O E, Conso 0 2 & 3	O USO 10 21 127 . 1	- 1018312	20.45 2  20.56   E,     BP	Weich et al. 51 J. Sinc-Ang. 5 702113		4877 4 48.58 3 Kaiser-Fra	LG-4436 12625 4633 21/0.11 1 ncie.efal 89 37850	0784 0784 1.45 4139.8
	Winston, etal 35.11 a 13.6.Larr 6 14.11 a 14.11 a 14.1	er Exxon	4 52   ( · 3)	Cenoco HBP 026375 Oce Santa Fe S	arta Fe Meridian		Penwell Ener.   6 · 1 · 2007 98808 2009	Fina De,c 8, Conpec HBP 028375	Pates John Patetal Yates 2-1-98 K 6593 2629 HBD	LiT.Serv Amoco Amoco HBP 1-1-8t 12029-6 L6-583	LTO 1750 Coper L-Fed. HBC W/2		2.46 st
Æ		EST 75 BB	1119 Co	6375	Figure 1 Florido   Florido	DXY LD-Fea	eridian 2 orida (wa) SOI Tenneca Bars (Cont II)	Nadel e, Gussman English	17. Amoce 16.50   1   1   12 1. HC   1805	13050-12.5-4	W/2  KWilliams   IZHA NY CE	Vandagriff	12.79 F
	otes eigl Exxon	V.S.   Yates   Pet, etal   8-1-97   WA-653   Stol   36 8	U.S. Penwell E. 6-1 · 200 98809 35	ner. Pe	028315 U.S 19	F.C. F	nd Of.C	113030	,' S/a	24749	- A	19640   8-1 80 12110	19.12 7 Hondo 1/ Fed.
	XX00 1 6-1-94 50-1-94 50-1-94 50-1-94 50-1-94 50-1-94	1.94 4 30 90 Ch Alasso	Yates Pot a	dal buil	12 (12 (12 (12 (12 (12 (12 (12 (12 (12 (	ales OI	7674 Paugherity H.S.	F, Conscor E, Cq HBP	naco vi Skell	namati H.E. Hu y-51 rafesetal K. HBP Op 10559532 H	nt Oil   KE. Yotes, e Morthy HBP er, etal   Ossass2	tal . I.C.	tuni oii Kw
<u>ئ</u> ئ	n Hoy pres fer Exxor 5 · 1 · 9 mall Ir Eddy Co.	2-1-2002	đ	13) 89 (1-51)	J 127 45 9	Chi Oper. AV Wallace-St. TD	rring E-1111	- AME	RISTAT	XHIBIT "C' E EXPLOR	ATIONALI	S 594	18 7 Myci otesetol Hey 1 Diomi 3. 918 Morg
£.	Pach Sp. Its Mari	287 49 1	State Penwell Ener 11, 2007 98609 95000	MWJ Ponoco - of Ponoco - of Ponoco - of	Penwell En 6 · 1 · 2007 98810	⊚ <sup>2</sup>	State Penwell Ent	94 IVI 1980 I	FNL & 14	s 18 Federal, 70' FEL, Sec.	Wall Ma 1	27E 点	4281 Qiàmi
100	Yotes Pet. 1-6-99	etal Hewent		77 - 82 Ronodero 1 - 1 - 98 1 - 1 - 10208 (Y - 10208 (Y - 10208)	330 <u>90</u> V.5. OXY 2 · 1 · 2001	Pe	78811 20520 V3. nwell Ener.			Existing wells	\$3,000 m	154 8 154 8	J. 83 Autes f Office etal 9 Office etal 9 Gibson 2,98 Prompho
Do L Oj			Exxon E 1 94 Yai	on Fed Com. te spet, etal 1 2007 090 570 99:	VA 1467		10000-Fed; 9.	1-2007 Yale 53000 9901 1990	2029 CA. Schellinge Etal Morganur 2007 Mest Fed. 20 200 List	M. S. Shearn D/R) W. P. Dooley to 750 or 0650 r. (Sol West) ig) Shear Fred 17450 May	Heading 1 (1997)	(Amoco de Green de Gr	1530 045818 1530 HLSS 164 57 66 1530 HIGHES



## 5144) PSI WORKING PRESSURE BLOWOUT PREVENTED STACK



5000 PSI WORKING PRESSURE CHOKE MANIFOLD

EXPLEIT C-1

EXHIBIT "E"

AMERISTATE EXPLORATION, LLC

Mental Floss 18 Federal, Well No. 1

BOP Specifications

# APPLICATION FOR DRILLING AMERISTATE EXPLORATION, LLC

Mental Floss 18 Federal, Well No. 1 1980' FNL & 1470' FEL, Sec. 18-T16S-R27E Eddy County, New Mexico Lease No. NM-098157 (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.	8400

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	8400'	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".

б	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 18 Federal, Well No. 1 Page 2

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None planned.

Logging: T.D -Int. Casing:

Triple Combo G/R, CNL

T.D. to surface: 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. H<sub>2</sub>S: None expected. None encountered in previously drilled wells.

Anticipated starting date: November 1, 2006.
 Anticipated completion of drilling operations: Approx. 6 weeks.

## MULTI POINT SURFACE USE AND OPERATIONS PLAN

## AMERISTATE EXPLORATION, LLC

Mental Floss 18 Federal, Well No. 1 1980' FNL & 1470' FEL Sec. 18-T16S-R27E Eddy County, New Mexico Lease No. NM-098157 (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 pavement. Continue north on gravel road for 2.4 miles to a road to the east. Turn east on road for .3 miles and pass through a cattleguard. The proposed new access road starts at this point and runs east for 500' and then turns southeast for 3,000' to 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 18 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.

#### 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 Pits 125' x 125'
- 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.

#### 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.
- Surface Ownership: The proposed well site and access road is on Federal surface and minerals.

## 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:

Mike Daniel Ameristate Exploration, LLC 401 Congress Avenue, Suite 2900 Austin, TX 78701 Cell Phone: (713) 826 3753

## 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.

October 4, 2006

Don C. Deck

Agent for: Ameristate Exploration, LLC

## SPECIAL DRILLING STIPULATIONS

## THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Location		Well Name & #:       Mental Floss 18 Fed. #1         E L; Sec. 18 , T. 16 S., R. 27 E.       State: New Mexico
condition General F	ed upon compliance with such stipulations in add Requirements, a copy of which is available from a	e to the above described well and approval of this application to drill is lition to the General Requirements. The permittee should be familiar with the Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT TIONS PURSUANT TO TITLE 43 CFR 3165.3 AND 3165.4.
This pern	nit is valid for a period of one year from the date	of approval or until lease expiration or termination whichever is shorter.
I.	SPECIAL ENVIRONMENT REQUIREMENTS	
	er Prairie Chicken (stips attached) Simon Swale (stips attached)	<ul><li>( ) Flood plain (stips attached)</li><li>( ) Other</li></ul>
II.	ON LEASE - SURFACE REQUIREMENTS PR	IOR TO DRILLING
	BLM will monitor construction of this drill site. 3-3612, at least 3 working days prior to commence	Notify the (x) Carlsbad Field Office at (505) 234-5972 () Hobbs Office ing construction.
	ads and the drill pad for this well must be surfaced to be a producer.	d with6 inches of compacted caliche upon completion of well and it is
resurfacir		struction of the drill site area will be stockpiled and made available for illing operation. Topsoil on the subject location is approximatelyinches erial will be stockpiled for reclamation.
(x ) Oth	ner. V-Door Southwest (Reserve pits to the Sou	theast).
III.	WELL COMPLETION REQUIREMENTS	
	ommunitization Agreement covering the acreage of the agreement must be prior to any sales.	dedicated to the well must be filed for approval with the BLM. The effective
to a slope surround	e of 3:1 or less. All areas of the pad not necessary ing terrain, and topsoil must be re-distributed and	serve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced of for production must be re-contoured to resemble the original contours of the re-seeded with a drill equipped with a depth indicator (set at depth of ½ inch) eed (PLS), per acre. If broadcasting, the seeding rate must be doubled.
( ) A. Se	eed Mixture 1 (Loamy Sites)	( ) B. Seed Mixture 2 (Sandy Sites)
	Side Oats Grama (Bouteloua curtipendula) 5.0	Sand Dropseed (Sporobolus crptandrus) 1.0
	Sand Dropseed (Sporobolus cryptandrus) 1.0 Plains lovegrass (Eragrostis intermedia) 0.5	Sand Lovegrass (Eragostis trichodes) 1.0 Plains Bristlegrass (Setaria magrostachya) 2.0
( ) C. S	eed Mixture 3 (Shallow Sites)	(x) D. Seed Mixture 4 (Gypsum Sites)
` ,	Side oats Grama (Bouteloua curtipendula) 5.0	Alkali Sacaton (Sporobolus airoides) 1.0
	Green Spangletop ( <i>Leptochloa dubia</i> ) 2.0 Plains Bristlegrass ( <i>Setaria magrostachya</i> ) 1.0	Four-Wing Saltbush (Atriplex canescens) 5.0
( ) OTE	IER SEE ATTACHED SEED MIXTURE	
		5 - November 15, before freeze up, or early as possible the following spring to
	intage of available ground moisture.	

#### RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6-mil plastic.

Mineral material extracted from within the boundary of the APD during construction of the well pad and reserve pits and be used for the construction of this well pad and its immediate access road only, as long as that portion of the access road it is use on remains on-lease. Removal of any additional material from this location for construction or improvement of other well pads and other access or lease roads must first be purchased from BLM.

<u>Reclamation</u>: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

#### OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

- (1) Lined as specified above and
- (2) A temporary or emergency pit may be constructed immediately adjacent to the reserve pit as long as the pit remains within the APD boundary. Mineral material removed from this pit may be used for the construction of this well pad only and its immediate access road, as long as that portion of the access road the material is used on remains on-lease. Removal of any material from the APD boundary for use on other well locations or roads must first be purchased from BLM.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be re-contoured, all trash removed, and reseeded as specified in this permit.

#### **CULTURAL**

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to process by BLM.

#### TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

#### CONDITIONS OF APPROVAL - DRILLING

Well Name & No. Operator's Name: 1 Mental Floss 18 Federal Ameristate Exploration LLC

Location:

1980FNL, 1470FEL, Section 18, T-16-s, R-27-E

Lease:

NM-098157

## I. DRILLING OPERATIONS REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5972 or (505) 361-2822 (After hours) for wells in Eddy County in sufficient time for a representative to witness:
- A. Spudding
- B. Cementing casing: 13-3/8 inch 9-5/8 inch 5-1/2 inch
- C. BOP tests
- 2. No Hydrogen Sulfide (H2S) has been reported in this area, but it is always a potential hazard.
- 3 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.
- 4. Submit a Sundry Notice (Form 3160-5, one original and four copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing ( size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.
- 7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

#### II. CASING:

1. The <u>13-3/8</u> inch surface casing shall be set at <u>425</u> <u>feet</u>, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate 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.

Possible lost circulation in the Grayburg and San Andres formations.

Possible high pressure water zone in the Grayburg.

- 2. The minimum required fill of cement behind the <u>9-5/8</u> inch intermediate casing is <u>circulate cement to</u> the surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is cement shall extend upward a minimum of 200 feet into the intermediate casing with planned TOC at 800 feet.

## **III. PRESSURE CONTROL:**

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling the surface and intermediate casing shall be <u>2M</u> psi. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the <u>9-5/8</u> inch casing shall be <u>5M</u> psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- 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.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.
- BOPE must be tested prior to drilling into the **Wolfcamp** Formation by an independent service company.

## **IV. DRILLING MUD:**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** Formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- 1. Recording pit level indicator to indicate volume gains and losses.
- 2. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- 3. Flow-sensor on the flow line to warn of abnormal mud returns from the well.

Engineer on call phone: (505) 706-2779

WWI 101706