Form 3160-3 (April 2004)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPROVED
	lo. 1004-0137
Expires	March 31, 2007

5.	Lease Serial No.
	SF 080557

<ol><li>If Indian, Allotee or Tribe Nam</li></ol>	6.	If Indian,	Allotee	or	Tribe	Nam
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APPLICATION FOR PERMIT TO	PHILL C	REENTER		6. It Indian, Allotee or	Tribe Name
la. Type of work: DRILL REENT	TER S	(SI 1 21 21 11 12 22		7. If Unit or CA Agreeme Northeast Blanco	
lb. Type of Well: Oil Well Gas Well Other	· 🗀	Single Zone Multip	ole Zone	8. Lease Name and Well NEBU 42E	No.
2. Name of Operator Devon Energy Production Company,	L.P.			9. API Well No. 30045	3 ユフクク
3a. Address PO Box 6459 Farmington, NM 87419		No. (include area code) 532-0244		10. Field and Pool, or Expl Basin Dakota	
4. Location of Well (Report location clearly and in accordance with a	any State requir	ements.*)		11. Sec., T. R. M. or Blk.a	nd Survey or Area
At surface NW SE, Unit J, 2,215' FSL & 2,11	15' FEL				
At proposed prod. zone NE SW, Unit K, 1,920' FSL & 3,1	70' FEL			Sec. 19, T31N, R7	W
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State
Approximately 31 miles	<del></del>		γ	San Juan	NM
15. 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) 2,115'	2,560	560 320 Aer		exes 259.82	
<ol> <li>Distance from proposed location* to nearest well, drilling, completed,</li> </ol>	19. Propos	isi tropossa Bopin		BIA Bond No. on file	
applied for, on this lease, ft.	8126' 7			59.82R-2046	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GR 6,492'	22. Appro	ximate date work will sta 02/14/2005	rt*	23. Estimated duration Unknown	
	24. Atı	achments			
The following, completed in accordance with the requirements of Onsh	ore Oil and Ga	as Order No.1, shall be a	ttached to th	is form:	
Well the ortified by a registered surveyor.     A Driming Plan.		4. Bond to cover t Item 20 above).		ns unless covered by an exi	sting bond on file (see
3. A Surface Use Plan (if the !ocation is on National Forest Syster SUPO shall be filed with the appropriate Forest Service Office).	m Lands, the	Operator certific     Such other site     authorized office	specific inf	ormation and/or plans as ma	y be required by the
25. Signature <i>M.S.</i> 36	Nan	ne <i>(Printed/Typed)</i> Melisa Zimmermar	1	Da	12-14-04
Title Senior Operations Technician					
Approved by (Signature) Manhielian	Nan	ne (Printed/Typed)		Da	3-2005
Title AFM	Offi	CE FFO			<u> </u>
Application approval does not warrant or certify that the applicant ho conduct operations thereon.  Conditions of approval, if any, are attached.	lds legal or eq	uitable title to those righ	its in the sub	oject lease which would entit	le the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations a	crime for any is to any matte	person knowingly and versition to person knowingly and versity and versity persons to person knowingly and version to person to pers	willfully to n	nake to any department or a	gency of the United

\*(Instructions on page 2)

PHOLD CION FOR Divectional

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 p.m. account persuant to 43 CFR 5165.4

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

District I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Pe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994

OIL CONSERVATION DIVISION PO Box 2088

Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

Santa Fe, NM 87504-2088 RECEIVED

Fee Lease - 3 Copies

070 FARMINGTON III E AMENDED REPORT

Footage from East Line at request of Operator

EAST

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

12-08-04

SAN JUAN

30-045-32	777 715°	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4 Proporty Code		<sup>3</sup> Property Name	Well Number
19641	NEBU		# 42E
7 OGRID No.		Elevation	
4137	Devon Energy P	6492	

Surface Location

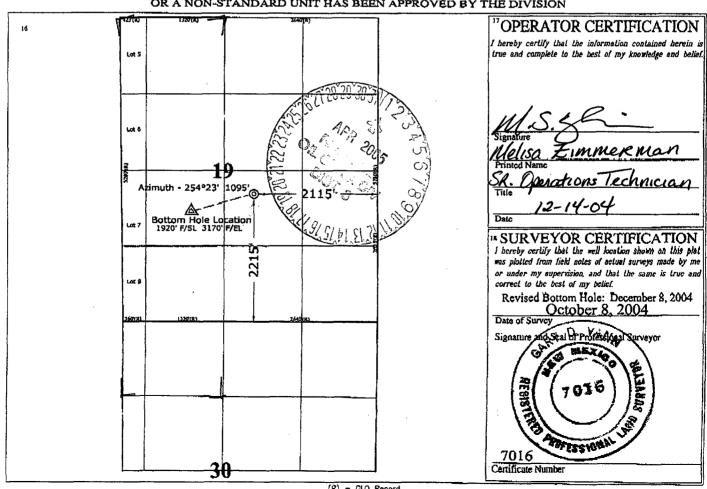
	UL or Lot No.		Township	Rango	Lot Idn	Peet from the	North/South line	Feet from the	East/West line	County	
	J	19	31 N	7 W		2215	SOUTH	2115	EAST	SAN JUAN	
" Bottom Hole Location If Different From Surface											
	2 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Foot from the	East/West line	County	

North/South line

Feet from the

19 1920 SOUTH 31 N 3170 Joint or Infill -2046

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

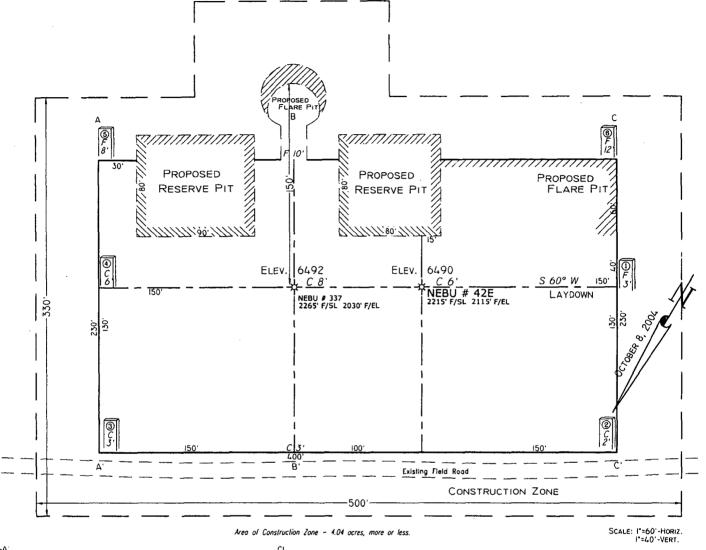


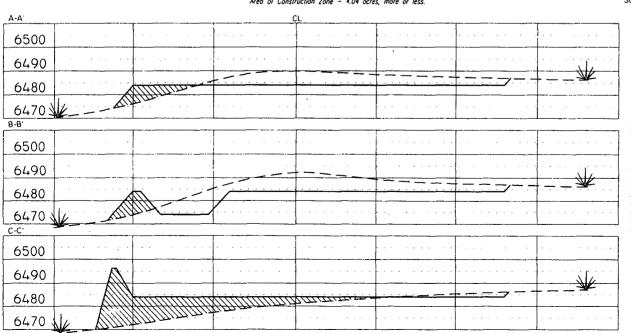
Submit 3 Copies To Appropriate District Office State of New Mexico	Form C-103
District I , Energy, Minerals and Natural Res, 1625 N. French Dr., Hobbs, NM 88240	WELL API NO. March 4, 2004
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVI	SION
District III 1220 South St. Francis Dr	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	STATE FEE 6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	o. State Off & Gas Lease No. SF 080557
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACIDIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	
PROPOSALS.)	NORTHEAST BLANCO UNIT
1. Type of Well:	8. Well Number
Oil Well Gas Well Other	42E
2. Name of Operator	9. OGRID Number
Devon Energy Production Company, L.P.	6137
3. Address of Operator	10. Pool name or Wildcat
PO Box6459, Navajo Dam, NM 87419	Basin Dakota
4. Well Location	
Unit LetterJ:2215'feet from theSouth lin	ne and _2115'feet from theEastline
Section 19 Township 31N Range 7W	NMPM County - SAN JUAN
11. Elevation (Show whether DR, RKB, AGR 6,492'	RT, GR, etc.)
Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 m	nust be attached)
Pit Location: UL_JSect_19_Twp_31N_Rng_7WPit type_Drilling_Depth to Gr	oundwater_>100'_Distance from nearest fresh water well_>1000'_
Distance from nearest surface water_>1000'_ Below-grade Tank Location ULSec	ct Two Rng :
	, , , , , , , , , , , , , , , , , , , ,
feet from the line and feet from the line	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
feet from theline andfeet from theline	
12. Check Appropriate Box to Indicate Nature NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
12. Check Appropriate Box to Indicate Nature NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMI	SUBSEQUENT REPORT OF: EDIAL WORK
12. Check Appropriate Box to Indicate Nature ( NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK   PLUG AND ABANDON   REMI TEMPORARILY ABANDON   CHANGE PLANS   COM PULL OR ALTER CASING   MULTIPLE   CASI	SUBSEQUENT REPORT OF: EDIAL WORK
12. Check Appropriate Box to Indicate Nature ( NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK   PLUG AND ABANDON   REMI  TEMPORARILY ABANDON   CHANGE PLANS   COM PULL OR ALTER CASING   MULTIPLE   CASI COMPLETION   CEMI	SUBSEQUENT REPORT OF: EDIAL WORK ALTERING CASING MENCE DRILLING OPNS. PLUG AND ABANDONMENT NG TEST AND MENT JOB
12. Check Appropriate Box to Indicate Nature ( NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK   PLUG AND ABANDON   REMI  TEMPORARILY ABANDON   CHANGE PLANS   COM PULL OR ALTER CASING   MULTIPLE   CASI COMPLETION   CEMI  OTHER: CONSTRUCT DRILLING PIT   OTHE	SUBSEQUENT REPORT OF: EDIAL WORK
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12. Check Appropriate Box to Indicate Nature (NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK □ PLUG AND ABANDON □ REMITTEMPORARILY ABANDON □ CHANGE PLANS □ COMPULL OR ALTER CASING □ MULTIPLE □ CASING □ COMPLETION □ CEMIT OTHER: CONSTRUCT DRILLING PIT □ OTHER: CONSTRUCT DRILLING PIT □ OTHER OF Starting any proposed work). SEE RULE 1103. For Multiple Computer or recompletion.  14.  DEVON ENERGY WILL BE CONSTRUCTING A LICENTIAL ANTICIPATE THE CLOSURE OF THE SAME PIT I	SUBSEQUENT REPORT OF:  EDIAL WORK ALTERING CASING MENCE DRILLING OPNS. PLUG AND ABANDONMENT  NG TEST AND ENT JOB  ER: Matter Matter Mellore diagram of proposed completion  INED DRILLING PIT AND WE  IN ACCORDANCE WITH OUR GENERAL  Matter Matter Mellore and belief. I further certify that any pit or below-
12. Check Appropriate Box to Indicate Nature (NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMI  TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ COM PULL OR ALTER CASING ☐ MULTIPLE ☐ CASI COMPLETION ☐ CHANGE PLANS  OTHER: CONSTRUCT DRILLING PIT ☐ OTHE  13. Describe proposed or completed operations. (Clearly state all pertiner of starting any proposed work). SEE RULE 1103. For Multiple Com or recompletion.  14.  DEVON ENERGY WILL BE CONSTRUCTING A LI ANTICIPATE THE CLOSURE OF THE SAME PIT I PLAN SUBMITTED ON JUNE 4, 2004.	SUBSEQUENT REPORT OF:  EDIAL WORK
12. Check Appropriate Box to Indicate Nature (NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK □ PLUG AND ABANDON □ REMI  TEMPORARILY ABANDON □ CHANGE PLANS □ COM PULL OR ALTER CASING □ MULTIPLE □ CASI COMPLETION □ CEMI  OTHER: CONSTRUCT DRILLING PIT □ OTHE  13. Describe proposed or completed operations. (Clearly state all pertiner of starting any proposed work). SEE RULE 1103. For Multiple Com or recompletion.  14.  DEVON ENERGY WILL BE CONSTRUCTING A LI ANTICIPATE THE CLOSURE OF THE SAME PIT I PLAN SUBMITTED ON JUNE 4, 2004.  I hereby certify that the information above is true and complete to the best of m grade tank has been/will be constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the constructed or closed according to NMOCD guidelines ☑, a general control of the control o	SUBSEQUENT REPORT OF:  EDIAL WORK
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# PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P.

Nebu #42E 2215' F/SL 2115' F/EL SEC. 19, T31N, R7W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

Lat: 36°53'02" Long: 107°36'38"





NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cobles on well pad and/or access road at least two (2) working days prior to construction.

Cuts and fills shown are approximate — final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS P. O. Box 1306 Farmington, NM

Form 3160-5 April 2004)  DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT  SUNDRY NOTICES AND REPORTS  Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.						SF 0805	FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007  5. Lease Serial No. SF 080557 6 If Indian, Allottee or Tribe Name		
s	· := ::::=::::	IPLICATE- Other instr		RE	CEIVED -	7. If Unit or	CA/Agreement, Name and/or No.		
1. Type of W	ell		401.01.0 01.1	-	FIFTO LON	Norther	ast Blanco Unit		
	J	Gas Well Other				8. Well Nar NEBU			
	Devon Energ	gy Production Company, L.P.	1	- 17 <u>71</u>	29 31 700	9. API We	Il No.		
3a. Address PO Box 645	9, Farmington, NM	1 87419	3b. Phone No. 505-632-62	Krichidê are 44	a code)		<b>3004532777</b> d Pool, or Exploratory Area		
	Well (Footage, Sec., it J, 2,215' FSL &	T., R., M., or Survey Description) 2,115' FEL	71.72.33	Og Co	2005	Basin D	Pakota  or Parish, State		
	12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE	ATURE	OF NOTICE,	REPORT, OR	OTHER DATA		
TYPE OF	SUBMISSION		, t	ETYPE C	OF ACTION				
	F Intent ent Report andonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Tre New Constr Plug and Ab Plug Back	uction [	Production (S Reclamation Recomplete Temporarily A Water Disposa	Abandon	Water Shut-Off Well Integrity Other		
If the pro Attach th following testing ha	posal is to deepen dire e Bond under which to completion of the in- us been completed. Fi	ectionally or recomplete horizontall the work will be performed or provi	y, give subsurfac de the Bond No. results in a multip	e locations ar on file with ole completion	nd measured and t BLM/BIA. Requented on or recompletion	rue vertical depth ired subsequent r n in a new interva	l, a Form 3160-4 shall be filed once		
Interm Lead: 0.1% E Tail: ' gal/sx '	ediate String: Cen 500 sx Of 50/50/S Diacel Lwl. 75 sx 50/50 Poz wit	ementing design for the intern nent will be circulated to surfa td/ Poz, Yd-1.45, Water Gal/Sl h 94#/sx Standard Cement, 0.3 ble due to existing conditions	ce. k 6.8, Mixed @	13ppg Foa	nmed W/ N2 Do		ditives 2% Gel, 0.2% Versaset, eld: 1.18 cuft/sx; Water: 5.23		
Volum Lead: ppg, 2. Tail: Gilsoni	es may vary with a 250 sx 50/50 Poz v 18 ft 3/sx. 450 sx 50/50 Poz w te, 0.25 #/sx Flocel	designed to circulate 1000' into ctual well characteristics. vith 2% Gel, 0.2% Halad, 0.1% ith 50% Standard Cement, 50° e. Density: 13.0 lb/gal; Yield:	% CFR-3, 5 #/s: % San Juan Po	Gilsonite, z, 3% Bent	0.25 #/sx Flocel onite, 1.40% H	le. Mixed at 13	ppg, 1.47 ft 3/sx foamed to 9		
Attach	ed is a copy of the	revised Drilling Plan.	· · · · · · · · · · · · · · · · · · ·			****			
14. I hereby Name (	certify that the fore Printed/Typed)	egoing is true and correct	1						
	Melisa Zimmeri	man		Title Senio	or Operations T	echnician			
Signature	11,5.	isti		Date _	3-7-0	5			
	,	THIS SPACE FOR	FEDERAL	OR STA	TE OFFIC	E USE			

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

Title

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

### NEBU 42E Unit J 19-31N-7W San Juan Co., NM

### DRILLING PLAN

# 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS & ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Formation	TVD (ft)	TMD (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	Surface	
Ojo Alamo	2328	2417	Aquifer
Kirtland	2431	2526	
Fruitland	2851	2968	Gas
Picture Cliffs Tongue	3377	3522	Gas
Pictured Cliffs	3448	3597	Gas
Lewis	3551	3705	Gas
Intermediate TD	4200	4367	
Mesaverde	4213	4380	Gas
Chacra \ Otera	4597	4764	Gas
Cliff House	5401	5568	Gas
Menefee	5448	5615	Gas
Point Lookout	5741	5908	Gas
Mancos	6023	6190	Gas
Gallup	7062	7229	Gas
Greenhorn	7757	7924	
Graneros	7806	7973	Gas
Dakota	7932	8099	Gas
Paguate	7944	8111	Gas
Cubero	7970	8137	Gas
Oak Canyon	8024	8191	Gas
Encinal Canyon	8042	8209	Gas

Lower Encinal Canyon	8066	8233	Gas
Burro Canyon	8106	8237	Gas
Morrison	8126	8293	
TD	8126	8293	

<sup>\*</sup>All shows of fresh water and minerals will be adequately protected and reported.

#### 2. PRESSURE CONTROL EQUIPMENT:

All well control equipment shall be in accordance with Onshore Order #2 for 2M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram, which shows the size, and pressure ratings.

• 2000# BOP With Pipe Rams and 2000# BOP With Blind Rams

Auxiliary equipment to be used:

• Upper kelly cock with handle available.

The manifold includes appropriate valves and adjustable chokes. The kill line will have one check valve. Ram type preventers will be pressure tested to full working pressure (utilizing a test plug) or 70% of the internal yield pressure (without a test plug) at:

- Initial installation
- Whenever any seal subject to test pressure is broken
- Following related repairs
- At 30 day intervals

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill will be conducted weekly for each drilling crew. All tests and drills will be recorded in the drilling log.

The accumulator will have sufficient capacity to close all rams and retain 200 psi above precharge pressure without the use of closing unit pumps.

Master controls will be at the accumulator. Anticipated bottom hole pressure is 3400 psi.

#### 3. Casing & Cementing Program:

A. The proposed casing program will be as follows:

		Hole					
TVD	TMD	Size	Size	Grade	Weight	Thread	Condition
0-285'	0-285'	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-4200	0-4200'	8-3/4"	7"	K-55	23#	LTC	New

- 1								
	0- TD	0- TD	6-1/4"	4-1/2"	J-55	11.6#	LTC	New
		1 0 10	U 17-7	1 1/2	0 00	11.0 //		14044

The 9-5/8" surface pipe will be tested to 750 psi. All casing strings below the surface shoe shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% minimum internal yield.

<u>Surface</u>: The bottom three joints of the surface casing will have a minimum of one centralizer per joint and one centralizer every joint thereafter (Total 5 centralizers estimated)

<u>Intermediate</u>: The bottom three joints of the 7" casing will have a minimum of one centralizer per joint and one centralizer every fifth joint thereafter to above Ojo Alamo with turbolizers below and throughout the Ojo Alamo. (Total 12 centralizers, 3 turbolizers estimated).

**Production**: The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 3500' (estimated 25 centralizers used). Centralizers will be open bow spring or basket bow spring type.

B. The proposed cementing program will be as follows:

**Surface String:** 

Cement will be circulated to surface.

**Lead:** 200 sx Class "B" with 100% Standard Cement, 2.00% CaCl2, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sx; Water: 5.24 gal/sx

Winer verietiene neceible due t

\* Minor variations possible due to existing conditions

#### Intermediate String:

Cement will be circulated to surface.

**Lead:** 500 sx 50/50 Poz, Yd-1.45, Water Gal/sx 6.8, Mixed @ 13ppg Foamed W/ N2 Down To 9.0# Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

**Tail:** 75 sx 50/50 Poz, Yd-1.45, Water Gal/Sk 6.8, Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

\* Minor variations possible due to existing conditions

If hole conditions dictate, an alternate, cement design will be used:

**Lead:** 575 sx 50/50 Poz with 50% Class B Cement, 50% San Juan Poz, .4% Halad-344, .1% CFR-3, 3% Bentonite, 5#/sx Gilsonite, .25#/sx Flocele. Density: 13.0 lb/gal; Yield: 1.46 cuft/sx; Water: 6.42 gal/sx

**Tail:** 75 sx 50/50 Poz with 94#/sx Standard Cement, 0.3% Halad-344, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sx; Water: 5.23 gal/sx

\* Minor variations possible due to existing conditions

**Production String:** 

TOC designed to circulate 1000' into intermediate string,

cement will tie into the intermediate casing as a minimum. Volumes may vary with actual well characteristics.

**Lead:** 250 sx 50/50 Poz with 2% Gel, 0.2% Halad, 0.1% CFR-3, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Mixed at 13 ppg, 1.47 ft 3/sx foamed to 9 ppg, 2.18 ft 3/sx.

**Tail:** 450 sx 50/50 Poz with 50% Standard Cement, 50% San Juan Poz, 3% Bentonite, 1.40% Halad-9, .10% CFR-3, .10% HR-5, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Density: 13.0 lb/gal; Yield: 1.47 cuft/sx; Water: 6.35 gal/sx \*

Actual volumes will be calculated and adjusted with caliper log prior to cementing.

#### 4. DRILLING FLUIDS PROGRAM:

TVD Interval	TMD Interval	Type	Weight (ppg)	Viscosity	рĦ	Water Loss	Rèmarks
0-285'	0-285'	Spud- foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
285'-4200'	285'-4367'	Air				NC	
4200' - TD	4367' - TD	Air/N2 or Mud	8.5-9.0*	30-50	8.0-10.0	8-810cc @ TD	Low solids- non-dispersed. * min Wt. to control formation pressure

NC = no control

Sufficient quantities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control. SPR will be recorded on daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

#### 5. EVALUATION PROGRAM:

Logs:

Density Neutron

Induction

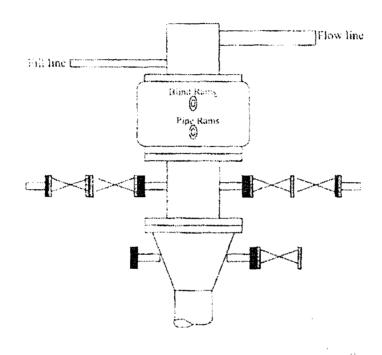
In the event open hole logs are not run in the well, a cased hole evaluation log will Be run.

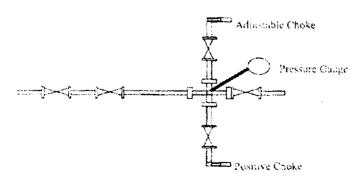
Survey:

Deviation surveys will be taken every 500' from 0-TD or first succeeding bit change. The hole will be air drilled from intermediate casing point to TD. The equipment used in this type of operation will not allow for single shot surveys without considerable operational delays. A survey will be taken at TD. Similar

<sup>\*</sup> Minor variations possible due to existing conditions

# Well Control Equipment 2,000 psi Configuration





 $\Delta E$  well control equipment designed to niect or exceed the Onshore Oil and Gas Order No. 2, BLM 43 CTR 3160 requirements for 2M systems.