	OIL CONS.	TED STATE	SINTE	SUBALT D (Other is, reverse RIOR NT	(IPLICATE /tions on side)	Budget Bureau Expires: Dece	No. 1004-0136 mber 31, 1991		
	LICATION FOR F		mail	L OR DEEPEN		LC-058008-A	B OR TRIBS NAME		
IA. TIPE OF WORK	LICATION FOR F			L ON DELFEN		NA			
		ADEFPEN	有望				LAND		
b. TIPE OF WELL			<u> </u>	Shugart					
OIL X		×. 1994		WHELE X MULTE	S. MANOL LEAD HANG, W	LHD. 7493			
	10	N <sub>v</sub> /	1	6137		East Shugari	East Shugart Unit #60		
Devon Energ	y Corporation (N	evada) / A	ttp:	Debby. O'Donne	11	B. AR WELLING.			
3. ADDRESS AND TELEVICINE		en Mexic 4	<u>05)</u>	552-4511 KLCE	VED	30-015-a	27957		
20 North Br	oadway Ste 1500	Oklahona	City	7, OK 73102		10. FELD AND POOL	N WEDCAT		
	(Report location clearly an		th any			Shugart (Y-			
3	30' FNL & 1650'	FWL		X MAY 1	3.'94	11. SOC., T., B., M., CE AND SUBVEY OR A	ALE. 56439		
At proposed prod. (	sane sane			11+	Ů,				
				MT.C C.C.		Section 3-T			
	S AND DIRACTION FROM NE			ARTESIA, I	OFFICE	12. COUNTY OR PARISH	18. 87478		
	southeast of Loc	o Hills, NM				Eddy	NM		
18. DISTANCE FROM FRO LOCATION TO NEAR PROPERTY OF LEASE	LINE, FT.	330'	16. ×	0. OF ACRES IN LEASE 160		OF ACEDS ASSIGNED			
(Also to mearest drig, unit line, if any) 330"			19 -	100 40 9. FROPOSED DEPTE 20. BOTARY OR CARLE TOOLS					
	DEILLING, COMPLETED,	600'		4500'					
· · · · ·	whether DF. 27. GB. etc.)	000	<u> </u>	4300	1	TOTATY			
		3602'				May 1, 1994	<u> </u>		
23.					M	nay 1, 1994			
BISE OF BOLE		WEIGHT FER F		SETTIXE DEPTH		QUANTITT OF CENER			
17 3"	14"			40'	cat wit	th readi-mix to			
12 12"	8 5/8", K-55	24 ppf		950'		Lite $+ 200 \text{ sx}$			
7 7/8"	5 ½", J-55	15.5 ppf		4500'		Lite + 500 sx			
Devon Energy p oil. If the Q	o circulate ceme roposes to drill to ueen is deemed non-c Programs to adhere t ttachments.	4500'± to test commercial, the	t the ( e well!	Queen Sand formatic bore will be plugge	on for com and aba	ndoned per Federa			
Drilling Progr	am		T	he undersigned acce	epts all a	pplicable terms,	conditions,		
Surface Use and Operating Plan			S	stipulations and restrictions concerning operations con-					
	A = Blowout Preventi	on Equipment		ducted on the leased land or portions thereof, as described					
	ocation and Elevatio	• •	b	elow:		Ω	4 -1-1		
Exhibit #3/3-A = Road Map and Topo Map			L	below: Lease #: LC-058008-A Legal Description: Section 3-T19S-R31E Formation: Queen Sand Addition: Allow APT					
-	ells Within 1 Mile R	-	L	Legal Description: Section 3-T19S-R31E ちーゴひ-94					
Exhibit #5 = Production Facilities Plat				ormation: Queen Sa	Ind	Menh	K + API		

Exhibit #6 = Rotary Rig Layout Exhibit #7 = Casing Design

Bond Coverage: Nationwide BLM Bond #: CO-1104

VIII Noc

H<sub>2</sub>S Operating Plan IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

BHENRED _ E.J. B. thon Jr.	E. L. Buttross, Jr. District Engineer	March 16, 1994
(This space for Federal or State office use)		APPROVAL SUBJECT TO
PERMIT NO	APPROVAL DATE	GENERAL REQUIREMENTS AND
Application environment does not margine an entitle that the applicant ho	ide least or equitable title to those picts in the achieve lease which we	SPECIAL STIPULATIONS
Application approval does not warrant or certify that the applicant ho CONDITIONS OF APPROVAL, IF ANY:		JITACHED
	AREA MANAGER	MAY 9 - 1994

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

**Bubmit** to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT II P.O. Drawer DD, Artesia, NM 86210

DISTRICT III 1900 Rio Brance Bd., Astoc, NM 87419

### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

		Distunces must be				
Devon	ENERGY CORPORATI	ON		SHUGART UNIT	Wall No.	60
Init Letter Sect			21	FAST	EDDY	
C C		SOUTH	31	EAST NMPK		
330 feet frem	MOTTL	and	1650	fort from	the WEST line	
tround Level Elev.	Producing Formation		ool.		Dedicated .	Acreage:
3602'	Queen Sand			(Y-SR-Q-G)		
1. Outline the across	dedicated to the subject	well by colored pend	di or hachurs man	ins an the plat below	7.	
2. If more than one	losse is definited to the	well, outline each an	d identify the own	nership thereof (both	as to working interest a	nd royalty).
3. If more than one unitization, force-	lease of different ownersh	ip is dedicated to th	e well, have the	interest of all owner	s been consolidated by o	mmmitisation,
		r is "yes" type of c	onsolidation ~		<u></u>	
	i of owners and tract des			medidated. (Use rev	erve side of	
this form necessary.						
No allowable will be otherwise) or until a	a non-standard unit, ali	minating such inter	est, has been ap	proved by the Divisi	ion.	toroud-hourne,
	3602.4' 21 3604.2'				OPERATOR CERT	TFICATION
1650'			1		I haroby corbify S	•
	$-\tau \rightarrow ( \land \land$		1		contained herein is true at best of my immeledge and	
	3603.7 3601.2'	$\sim$	1			
	$\land$		I		Signature	0
			ł		E.L. Button	<u>s-n.</u>
			1		E. L. Buttross	Tr
					Position	<u>, , , , , , , , , , , , , , , , , , , </u>
	1		I		District Engin	
	ł		ł		Company Devon E	nergy
	l		ł		Corporation (N	evada)
			I		3/11/94	
			I			
	l		1		SURVEYOR CERT	IFICATION
					I hereby certify that the u	rell location shown
			1		on this plat was platted f	rom field natur of
	1				supervises, and that the	sume is true and
			ļ		correct to the best of	my insuladge and
			I			
			1		JANUARY 28	. 1994
			l		Signature & Seal of	
F	· +	-+	+		Professional Service	
			1		GARYLJO	1 5 M
	1		ł		NEW MEN	
	1		ł		$\mathbb{N}$	×1 1
			!		12/13/ (1/27*	1.5
			l I		1 124 K	UNOp_
			1		Certificate No. 10	1 5 1
					COPESSION	TONES TOTT
0 330 660 99	0 1320 1050 1960 231	0 2640 2000	1500 100	0 500 0	94-11-0	

EXHIBIT #2

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 98240

State of New Mexico

# MINIMUM BLOWOUT PREVENTER REQUIREMENTS

# 3,800 pel Working Pressure

J MWP

	STACK REQUIREMENTS							
No	kem	Min. LD.	Min. Nominal					
	Figwine							
2	Fill up line		2*					
3	Drilling rupple							
4	Annular proventor							
5	Two single or one dual hydraulica operated rams	<b>W</b> y						
8.	Delling speel with 2° min. Lill line 3° min choke line eutlets							
<b>6</b> b	2" min. till tine and 3" min. Challe outlets in ram. (Alternate to Ga abo	tine tre.)						
7	Value Gete Plag							
	Gate valve-power operated	3-1/8*						
9	Line to chelie menifeld		3.					
	Valves Gete Plug							
	Check velve	2-1/16"						
12	Casing head							
13	Valve Gale Plug							
	Pressure gauge with needle value		<b></b>					
15	Kill line to sig mud pump menileld		2					



	OPTIONAL	
16 Flanged valve	1-13/16*	

### CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 pel, minimum.
- 2.Automatic accumulator (80 gallen, minimum) capable of classing 80P in 30 seconds or less and, holding them closed against full relad working pressure.
- 3.BOP centrels, to be leasted near drillers position.
- 4.Kelly equipped with Kelly cack.
- 5.Inside bloweut provventer er its equivalent en derrick liger at all times with proper timeads to it pipe being used.
- 6.Kelly sever-sub equipped with subber casing prejector at all times,
- 7.Plug type bloweut provenier tester.
- 8.Extra act pipe same to it drill pipe in use
- on location at all times. 9. Type RX sing gashets in place of Type R.

### MEC TO FURNISH:

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- 1.Bradenhead or casinghead and side
- 2.Weer bushing, il required.

#### GENERAL NOTES:

- 1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (subable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventors up through shore. Valves must be full opening and suitable for high pressure mud service.
- 3.Controls to be of standard design and each marked, shawing aponing and closing position.
- 4. Choice will be positioned so as not to hamper or delay changing of choice beans. Replaceable parts for adjustable choice, other bean alsos, retainers, and choice wrenches to be conveniently tecased for immediate use.
- 5.All values to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be suitably anchored.

- 7.Handwheels and entensions to be connected and ready for use.
- Volves adjacent to drilling apost to be hept apon. Use outside volves encept for emorgency.
- B.All exemices steel extinal piping (2000 pai working pressure) to have floatble joints to avaid stress. Hasse will be permitted.
- 18.Cosinghead connections shall not be used except in case of emergency.
- 11.Do not use till line for routine fill-up operations.

4.

# Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTORS East Shugart Unit #60 Eddy County, New Mexico

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventor and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventor will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

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### MINIMUM CHOKE MANIFOLD 3,800, 5,800 and 10,800 PSI Working Pressure

#### 3 MWP . 5 MWP . 10 MWP



#### SEVEND SUBSTRUCTURE

MINIMUM REQUIREMENTS									٦		
		3.800 MWP 5.800 MWP			)	10,000 MM/P			1		
No.		LD LD	HOLINAL		LD.	NOMINAL	RATING	LD.	NOMINAL	RATING	1
	Line from drilling speel		31	2,000		5	5,800		3.	10.000	1
2	Crees 3"x3"x3"x2"			3,800			5,800				1
	Crees 3"13"13"13"									10.800	1
3	Values(1) Gate D Plag D(2)	3-148*		3,800	3-148*		5,800	3-147*		10,000	1
4	Valve Case C Plug (2)(2)	1-13/16*		3,800	1-13/16*		5,880	1-13/16*		10,000	1
48	Valves(1)	2-1/16"		3,000	2-1/16*		5,000	3.148.		18.000	1
5	Pressure Gauge			3,000			5,000			10.000	1
•	Valves Gets C Plug ()(2)	3-148*		3,860	3-1/8*		5,000	3-1/8*		10,800	1
7	Adjustable Chate(3)	2		3.000	2"		5,600	2"		10,000	ł
	Adjustable Chahe	1*		3,000	<b>t</b> *		\$,900	2"		10.000	1
•	Line		3*	3,000	-	5	5,600		3-	10,000	t
10	Line		2*	3.000		2	5.000		3-	10,000	ł
11	Valves Gate D Plug D(2)	3-148*		3,800	3-147*		5,000	3-148*		10,000	
12	Lines		3"	1,800		3"	1,800			2,000	ſ
13	Lines		3*	1,800		3*	1,000	•		2.000	
14	Plameto reading compound standpipe pressure gouge			3.000			5,000	•		10.000	
15	Ges Seperator		2'15'			2'25'			2'25'		ł
16	Line		ſ	1,800			1,600			2.000	ł
17	Valves Plug ()(2)	3-147		3,000	3-147*		6,000	3-148*		10,000	

(1) City one required in Class 344.

(2) Gate valves anly shall be used for Class 101.

(2) Remote operated hydroulic shake required on \$,000 pel and 10,000 pel for striling.

# EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in shake manifold shall be welded, studded, Ranged or Cameron clamp of comparable rating. 2. All Ranges shall be API 6B or 6BX and ring gaskets shall be API PX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Ch S. Chat
- ue shall be equipped with tungeton carbide seets and needles, and replacements shall be evaluable. In manifold pressure and standpipe pressure gauges shall be available at the choice manifold to assist in regulating M. As an alternate with externatic choice, a choice manifold pressure gauge shall be incated on the rig liser in can-Junction with the standpipe pressure gauge.
  Line trem diffing speal to choice manifold should be as straight as possible. Lines downstream from choice shall make turns by large bends or 90° bends using bull plugged tees.
  Discharge times trem choice, choice bypase and from top of gas separator should vent as far as practical from the well.