

20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260 FAX 405/552-4550

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June 7, 1994

Certified Mail No. P 005 347 015

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87504-2088

RE: East Shugart Unit #45 Non-Standard Location Approval

Gentlemen:

Devon Energy Corporation has determined our proposed East Shugart Unit #45, located 2550' FSL and 580' FWL of Section 35-T18S-R31E in Eddy County, is an unorthodox location. The APD was submitted with the location listed incorrectly as 2250' FSL. Enclosed is a plat of the East Shugart Unit showing the Unit's boundaries and the wells within; copy of Form 3160-3 with attachments and copy of corrected form C-102.

The East Shugart Unit is a federal unit (#14-08-0001-11572) and the proposed well is to be part of this active waterflood project. The wells offsetting the proposed location are owned and operated by Devon, therefore, no other notification is necessary.

If you have any questions, please contact the undersigned at (405) 235-3611, X4509.

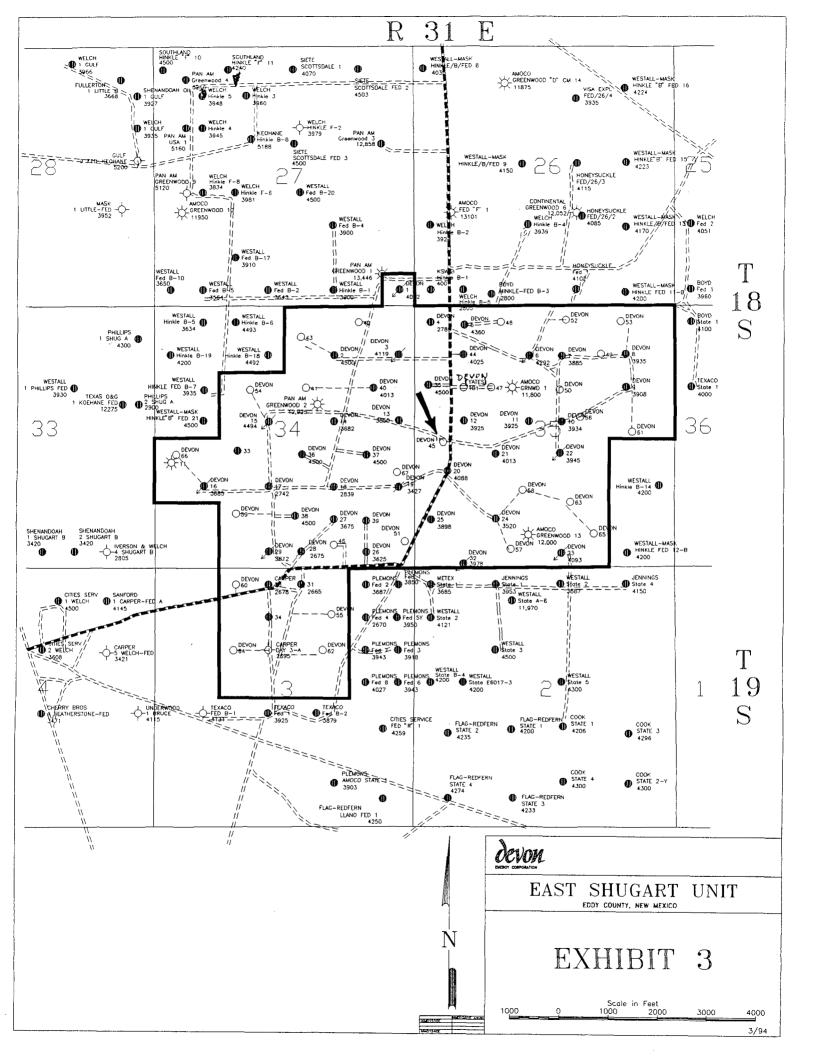
Sincerely yours,

DEVON ENERGY CORPORATION (NEVADA)

E. Z, Billios

Mr. E.L. Buttross, Jr. District Engineer

 /cg
 Enclosures
 cc: Oil Conservation Division - Artesia, NM Bureau of Land Management - Carlsbad, NM



	OPER	ATOR'S COP	Y_				
Form 3164-3 (December 1990)	DEPARTMEN	TED STATES	NTERIOR	SUBBLT IN (Other lastre reverse s		Form approved. Budget Bureau Expires: Decer 5. LEASE DESIGNATION	nber 31, 1991
	BUREAU O	F LAND MANAG	EMENT			NM 10190	
APF	LICATION FOR F	PERMIT TO D	DRILL OR	DEEPEN		6. EF INDIAN, ALLOTTRI	OF TELES HAND
	DRILL	DEEPEN [כ			NA 7. UNIT AGEREMENT N Shugart	ANS
D. TTPS OF WELL	GAS OTER			MULTH BONS		S. MAN OR LEASE HANS, WE	
2. NAME OF OPERATOR		<u> </u>				East Shugart	Unit # 45
Devon Energ	y Corporation (Ne	evada)	(405) 55	2 - 4511		S. AN WELLIND.	
	oadway Suite 150			73102	Ť	10. FIELD AND FOOL, O	WILDCAT
4. LOCATION OF WELL	(Report Jocation clearly an	d in accordance with	h any State requ	irements.*)		Shugart	
At proposed prod.	60 ¹ FSL & 580' FW 50 some same					11. SHC., T., H., M., OS I AND SUBVET OF AN Section 35-T.	
14. DISTANCE IN MIL	BE AND DIRECTION FROM ME	ABBET TOWN OR POST	0771C8*	·····		12. COUNTY OR PARLER	18. STATE
15 ½ miles	southeast of Loco	Hills, NM.				Eddy	NM
10. DISTANCE FROM P LOCATION TO NEAL PROFERTY OR LEAL (Also to persent)	LEST	300'	16. NO. OF ACE	0'		ACERS ASSIGNED IS WELL 40	
18. DISTANCE FROM F	BORGEED LOCATION®	450'	19. FEOFOSED D 45	арта 00 ^г	20. BOTAR	Y OR CABLE TOOLS rotary	
21. ELEVATIONS (Show	whether DF. RT. GR. etc.)	3631.2'	han da ma Angel		e Beeln	22. AFFEOR. DATE WO February 1	
23.		PROPOSED CASD		TING PROGRA	*		
SIZE OF HOLE	GRADE, SER OF CHEND		07 857	TING DEPTH	1	QUANTITY OF CEMER	T
17 1/2"	14"		40'	Collector of a	cmt wit	th readi-mix t	o surface
12 1/4"	8 5/8", J-55	24 ppf	950'			LITE + 200 sx	
7 7/8"	5 1/2", J-55	15.5 ppf	4500 '		550 sx	LITE + 500 sx	Class "C"

* We plan to circulate cement to surface on all casing strings.

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Devon Energy proposes to drill to 4500' (+) to test the Queen sand formation for commercial quantities oil oil. If the Queen sand is deemed non-commercial, the wellbore will be plugge and abandoned per Federal regulations. Programs to adhere to onshore oil and gas regulation are outlined in the following exhibits and attachments.

ne and proposed new productive zone. If proposal is to drill or

Surface Use and Operating Plan Exhibits #1/#1-A = Blowout Prevention Equip	Exhibit #7 = (ment Evidence of Bo			TIOBLE
Exhibit #2 = Location & Elevation Plat	H ₂ S Operating	Plan	-	
Exhibit #3 = Planned Access Roads	2	1	C 13	
Exhibit #4 = Wells Within One Mile Radius	Astrone? Subject to		C	
Exhibit #5 = Production Facilities Plat	General Excellements and		r K	
Exhibit #6 = Rotary Rig Layout	(
			-	1 1 1 4

BIGNED Dowey Jochom	Randy Jackson	December 28, 1993
(This space for Federal or State office see)	ر میں بین میں بین میں ایک	
PERNIT NO.		
Application approval does not warrant or cartify that the	applicant holds legal or equitable title to those rights in the subject lease which would en	title the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL & ANY:		

Pla It Man		RREA	MANAGER	2)18/4/1
	11TLE			DATE 18 74

"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 ite united in

June 1990)		D STATES OF THE INTERIOR	PORM APPROVED Bulger Bureau No. 1004–0135 Experts: March 31, 1993
	BUREAU OF LAI	ND MANAGEMENT	5. Losse Dataganese and Serval No.
SUN	DRY NOTICES AN	ID REPORTS ON WELLS	NM 10190
		or to deepen or reentry to a different reservoir ERMIT—" for such proposals	
	SUBMIT IN	TRIPLICATE	7. If Use or CA. Agreement Disagnase
1. Type of Well Qil Well Quantum Con			East Shugart Unit 8. Well Neuro and No.
2. Name of Operator Devon Energy Corp.	oration (Nevada	a)	East Shugart Unit
3. Address and Telephone No.		(405) 552-4511	
20 north Broadway		Oklahoma City, OK 73102	10. Finis and Post, or Exploratory Area
4. Lacanon of Well (Fornge. Sec., T. 2550' FSL & 580' 1 Section 35-T18S-R	FWL (CORRECTED		Shugart (Y-SR-Q-G) 11. County of Parish, Sant
	×.		Eddy County, NM
2. CHECK APPRC	OPRIATE BOX(s) T	O INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMIS	SION	TYPE OF ACTION	
Notice of Januar			Charge of Plans
Subsigned Report		La Bassarinan	
Subsequent Report		Carrier Report	Waar Stat-Off
Final Abandonment	e Maxim	Alamang Causing	
		with corected well s	
		WICH COrected well's with corected well's	Completion or Retemptation Report and Log form
		ris for all maxime and parameters to this wash.)*	
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102 Revised 1-1-89

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rig Brazos Rd., Aztec, NM 87410

All Distances must be from the outer boundaries of the section

Onit latter Section Township Range 31 EAST Nurw County EDDY Actual Foolage Location of Weil 300/11 31 EAST Nurw EDDY 2550 feet from the SOUTH ince Decinated references EDDY 2550 feet from the South Feet from the Decinated references Ince 3 (1 outling the scores decinated to the subject well by colored peculiate ackes on the pixt blote. 2.1 Increase Acres 1. Outling the an one lease is dedicated to the will, outling each and identify the organization Increase Increase Acres 2.1 more than one lease is dedicated to the will outling each and identify the organization Increase Increase Increase 1 outling the organization No N ansers in "yee" type of consolidation Increase Increase Increase 1 warren is "yee" type of consolidation Increase Increase OPERATOR EDEDY 1 warren is "yee" type of consolidated on the operation accessory. Increase OPERATOR EDEDY OPERATOR 1 warren is "yee" type of consolidated on the op	Operator			Lease		ADT UNIT		Well No.	
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best of my knowledge and beits! Signature Debby O'Donnell Position Engineering Technician Company Devon Energy Corporation Nevada Date February 3, 1994 SURVEYOR CERTIFICATION I have certify that the well location shown on this plat was plotted from fuld notes of actual reverse made by me or under my respersion and that the sens is ir un and correct to the best of my knowledge and beits? Date Surveyed JAMUARY., 27, 1994 Surveyed JAMUARY., 27, 1994 Surveyeed JAMUARY., 27	1	ł							
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DRILLING PROGRAM

Attached to Form 3160-3 Devon Energy Corporation East Shugart Unit #45 2250' FSL & 580' FWL Section 35-T18S-R31E Eddy County, New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Yates	2,300'
Queen	3,300'
Grayburg	4,000'
San Andres	4,400'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

The estimated depths at which water, oil and gas will be encountered are as follows:

Water: Random fresh water from surface to approximately 300' and a water injection interval at 3,200'.

Oil: Yates at 2,300' and Queen at 3,200'.

Gas: None anticipated.

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 8 5/8" casing at 950' and circulating cement back to surface. The Yates and Queen intervals will be isolated by setting 5-1/2" casing to total depth and circulating cement to surface.

EAST SHUGART UNIT #45 DRILLING PROGRAM PAGE 2

4. Casing Program:

Hole Size Inte	erval <u>Ca</u>	asing OD W	leight, Grade, Type
12 1/4" 0' -	- 40' 14 - 950' 8 4 - TD (4500'±) 5 1	5/8" 24	onductor, 0.30" wall 4#, WC, ST&C, new R-3 5.5#, J-55, ST&C, new R-3

Cementing Program:

14" Conductor Casing:	Cemented with ready-mix to surface.
8 5/8" Surface Casing:	Cemented to surface with 280 sks LITE (35% Poz: 65% Class C) + 6% gel + 2% CaCl2 + 1/4 lb/sk cellophane flakes 200 sks Class C + 2% CaCl2 + 1/4 lb/sk cellophane flakes.
5-1/2" Production:	Cemented to surface with 550 sks LITE (35% Poz: 65% Class C) + 6% gel + 1/4 lb/sk cellophane flakes 500 sks Class C + 4% gel + 1/4 lb/sk cellophane flakes.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach surface.

5. Minimum Specifications for Pressure Control:

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventor and a bag-type (Hydril) preventor (3000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be installed on the 8 5/8" surface casing and utilized continuously until total depth is reached. As per BLM Drilling Operations Order #2, prior to drilling out the 8-5/8" casing shoe, the BOP's and Hydril will be function tested.

EAST SHUGART UNIT #45 DRILLING PROGRAM PAGE 3

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 3000 psi WP rating.

6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to total depth using brine, cut brine and polymer mud systems. Depths of systems are as follows:

Depth	<u>Type</u>	<u>Weight</u> (ppg)	Viscosity (1/sec)	Water Loss (cc)
0' - 950'	Fresh Water	8.8	34-36	No control
950' - TD	Cut brine polymer	10.1	32-36	10-20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

8. Logging, Testing and Coring Program:

- A. No drill stem tests are planned.
- B. The open hole electrical logging program will be:

CNL/FDC/LDT/GR from T.D. to 2,300' DLL/MSFL/GR from TD to surface

- C. No coring program is planned.
- D. Additional testing will be initiated subsequent to setting the 5-1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Abnormal Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are foreseen. The anticipated bottom hole temperature at total depth is 104 degrees and maximum bottom hole pressure is 800 psig. Small quantities of hydrogen sulfide gas is associated with the Yates and Queen formations in this area. A hydrogen sulfide operations plan will be implemented prior to penetrating the Yates formation (see attached "Hydrogen Sulfide Operations Plan"). No major loss circulation intervals have been encountered in adjacent wells.

10. Anticipated Starting Date and Duration of Operations:

Notice of Staking (NOS) was sent to the Carlsbad, New Mexico BLM office on November 23, 1993. Barry Hunt of that office has reviewed the proposed pad site for the location. A Cultural Resources Examination has been completed by Pecos Archaeological Consultants and a copy forwarded to the Carlsbad, New Mexico BLM office.

Road and location preparation will not be undertaken until approval has been received from the BLM. The anticipated spud date is approximately February 1, 1994. The drilling operation should require approximately 10 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed.

SURFACE USE AND OPERATING PLAN

Attachment to Form 3160-3 Devon Energy Corporation East Shugart Unit #45 2250' FSL & 580' FWL Section 35-T18S-R31E Eddy County, New Mexico

1. Existing Roads:

- A. The well site and elevation plat for the proposed East Shugart Unit #45 is reflected on Exhibit #2. It was staked by John West Engineering of Hobbs, New Mexico.
- B. All roads into the location are depicted in Exhibit #3. County Road #249 will be used to access the location. No upgrades to roads other than the access into location from the lease road will be necessary.
- C. Directions to location: Turn right (south) off Highway 82 onto County Road 222 and go approximately 8.2 miles through the cattle guard to County Road 249. Turn left (east) and go approximately 2.0 miles east-northeast. Turn left (west) and go 500' (±). Turn left (south) into location.

2. Proposed Access Road:

Exhibit #3 shows the new access road to be constructed from County Road #249. It will be constructed as follows:

- A. The maximum width of the road will be fifteen (15) feet.
- B. It will be crowned and made of 6 inches of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- C. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location.
- D. The average grade will be approximately 1%.

- E. No cattle guards, grates or fence cuts will be required.
- F. No turnouts are planned.

3. Location of Existing Wells:

Exhibit #4 shows all existing wells within a one-mile radius of the proposed East Shugart Unit #45. There are 65 oil wells, 5 gas wells, 1 plugged and abandoned well and 11 injection wells (82 total).

4. Location of Existing and/or Proposed Facilities:

A. Devon Energy Corporation operates one production facility in this unit in Section 35. It is as follows:

(3) Heater treaters & tank battery (NW SW)

Water injection plant and (2) water tanks

- B. In the event the well is found productive, it will be added to the central production facility (refer to Exhibit #5).
- C. The well will be operated by means of an electric motor.
- D. If the well is productive, rehabilitation plans are as follows:
 - 1. The reserve pit will be back-filled after the contents of the pit are dry (within 120 days after completion, weather permitting).
 - 2. Caliche from unused portions of the drill pad will be removed. The original topsoil from the well site will returned to the location. The drill site will then be contoured to the original natural state.

5. Location and Type of Water Supply:

The East Shugart Unit #45 will be drilled using a combination of brine and fresh water mud systems (outlined in Drilling Program). The water will be obtained from the existing water line presently supplying fresh water to the unit. Additionally, produced salt water from lease gathering tanks may be used. No water well will be drilled on the location.

6. <u>Source of Construction Materials</u>:

All caliche utilized for the drilling pad and proposed access road will be obtained from a existing BLM approved pit. All roads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal:

- A. Drill cuttings will be disposed into the reserve pit.
- B. Drilling fluids will be contained in earthen working pits and the reserve pit. The reserve pit will contain excess drilling fluid or fluid from the well during drilling, cementing, and completion operations. The reserve pit will be an earthen pit roughly 70' x 70' x 5', or smaller, in size.
- C. The working pits and reserve pit will be fenced on three sides throughout drilling operations and will be totally isolated upon removal of the rotary rig. The pit will be lined using a 5-7 mil plastic to minimize loss of drilling fluids.
- D. Water produced from the well during completion operations will be disposed into a steel tank or reserve pit, if volumes prove excessive. After placing the well on production through the production facilities, all water will be collected in tanks and injected into the water injection system. Produced oil will be separated into steel stock tanks until sold.
- E. A portable chemical toilet will be available on the location for human waste during the drilling operations.

- F. Garbage, trash and waste paper produced during drilling operations will be collected in a contained trailer and disposed at a approved landfill. All waste material will be contained to prevent scattering by the wind. All water, fluids, salt or other chemicals will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be generated by this operation.
- G. All waste material will be removed within 30 days after the well is either completed or abandoned. The reserve pit will be completely fenced until it has dried. At the point the reserve pit is found sufficiently dry, it will be backfilled and reclaimed as per BLM specifications. Only the portion of the drilling pad used by the production equipment (pumping unit) will remain in use. If the well is deemed non-commercial, only a dry hole marker will remain.

8. <u>Ancillary Facilities</u>:

No campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout:

- A. The drill pad is shown on Exhibit #6. Approximate dimensions of the pad, pits and general location of the rig equipment is displayed. Top soil will be stored adjacent to the pad until reclamation efforts are undertaken. Only modest cuts will be necessary to build the pad which will be covered with 6" of compacted caliche.
- B. No permanent living facilities are planned, but temporary trailers for the tool pusher, drilling foreman and mud logger may be on location throughout drilling operations.
- C. The reserve pit will be lined using plastic sheeting of 5-7 mil thickness.

10. Plans for Restoration of Surface:

- A. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these efforts are feasible. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.
- B. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and location leveled, weather permitting, within 120 days after abandonment.
- C. The location and road will be rehabilitated as recommended by the BLM.
- D. The reserve pit will be fenced on three sides throughout drilling operations. After the rotary rig is removed, the reserve pit will be fenced on the fourth side to preclude endangering wildlife. The fencing will be in place until the pit is reclaimed.
- E. If the well is deemed commercially productive, the reserve pit will be restored as described in 10 (A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

11. Surface Ownership:

The well site is owned by the Bureau of Land Management.

12. <u>Other Information</u>:

- A. The area surrounding the well site is grassland. The top soil is very sandy in nature. The vegetation is moderately sparse with native prairie grass.
- B. There is permanent water (Laguna Plata) approximately 9.0 miles S/SE of the location.
- C. A Cultural Resources Examination has been completed by Pecos Archaeological Consultants and forwarded to the Carlsbad, New Mexico BLM office. The report references no cultural areas on either the access road or drilling pad.

13. Lessees's and Operator's Representative:

The Devon Energy Corporation representatives responsible for assuring compliance of the surface use plan are:

Randy Jackson	Danny Hokett
District Engineer	Production Foreman
20 North Broadway	422 West Main
Suite 1500	Suite F
Oklahoma City, OK 73102	Artesia, NM 88210
(405) 552-4560 (office)	(505) 748-3371 (office)
(405) 340-8939 (home)	(505) 748-9769 (home)

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions that presently exist; that the statements made in this 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 Devon Energy Corporation (Nevada) and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: ______ December 28, 1993_____

Signed: 1000

Randy Jackson District Engineer

Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTORS East Shugart Unit #45 Eddy County, New Mexico

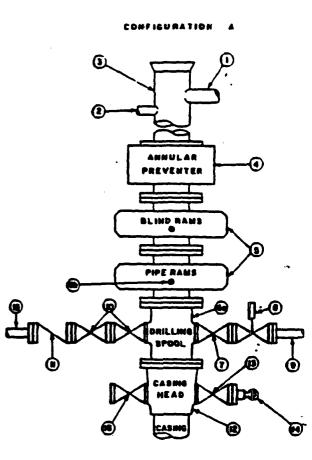
- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventor and all associated fittings will be in operable condition to withstand a 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.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3.000 pel Working Pressure

3 MWP

STACK REQUIREMENTS					
No.	tem	Min. I.D.	Min. Nominal		
T	Flowine				
2	Fill up line		2.		
З	Drilling supple				
4	Annulas preventer				
5	Two single or one dual hydraulically operated rame				
64	Drilling spool with 2" win. kill line and 3" min choke line outlets				
6 b	2" min. till tine and 3" min. choke tine outlets in ram. (Alternate to Sa above.)				
7	Valve Gate D Plug D	3-1/8*			
	Gate valve—power operated	3-1/8"			
9	Line to choke manifold		3.		
10	Valves Gate D Plug D	2-1/16*			
11	Check valve	2-1/16*			
12	Casing head				
13	Valve Gale D Plug D	1-13/16*			
14	Pressure gauge with needle valve				
15	Kill line to rig mud pump manifold		2*		



	OPTIO	NAL	
16 Fia	nged 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 psl, minimum.
- 2.Automatic accumulator (80 gallan, minimum) capable of closing BOP in 30 seconds or isse and, holding them closed against full rated working pressure.
- 3.BOP controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- 5.Inside blowout provventer of its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6. Kelly saver-sub equipped with subber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 8.Extra set pipe rams to lit drill pipe in use
- on location at all times.
- 8. Type RX ring peakets in place of Type R.

MEC TO FURNISH:

- 1.Bradenhead or casinghead and side
- 2.Wear bushing, Il required.

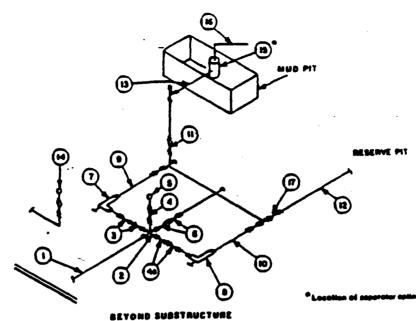
GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, littings, piping, etc., subject to well or pump pressure must be flanged (suitable clemp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers 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, showing opening and closing position.
- 4. Chokes will be positioned ap as not to hamper or delay changing of choke beens. Replaceable parts for adjustable choke, other been sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling speci to be kept open. Use outside valves except for emergency.
- All seemiess steel control piping (3000 psi working pressure) to have floxible joints to avoid stress. Hosse will be permitted.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine III-up operations.

MINIMUM CHOKE MANIFOLD 3.000, 5.000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP



_			Linu	MUM REQU	IREMENTS	5				
_	ſ	T	3.000 MMP			S.000 MINP			10,000 MWT	
No.		1.0	NOMINAL	RATING	LD.	NOMINAL	MATING	1.D.	NOMINAL	RATING
1	Line from drilling speel		3.	3,000		3*	5,000		2.	10,000
2	Cross 3"=3"#3"#2"			3.000			\$,000			
4	Cross 3'x3"x3"x3"									10,000
3	Valves(1) Gate D Plug D(2)	3-18*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gate C Plug D(2)	1-13/16*		3,000	1-13/16"		5,000	1-13/18*		10,000
44	Valves(1)	2-1/16*		3.000	2-1/16*		5,000	3-14.		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gale C Plug D(2)	3-1/8*		3.000	3-1/6*		5,000	3-1/8*		10,800
7	Adjustable Choke(3)	2"		3,000	2*		\$,000	2		10.000
	Adjustable Choice	1*		3,000	1.		\$,000	2*		10,000
9	Line		3.	3,000	-	2.	5,000		3.	10,000
10	Line		2"	3.000		r	5,000		3.	10,000
11	Valves Gate C Phug ()(Z)	3-1/6*		3,000	3-1/8*		\$,000	3-1/8*		10,000
12			3.	1,000		3.	1,000		3-	2,000
13	Lines		3.	1,000		3.	1,000	·	3.	2,000
14	Remote reading compound standpipe preseure gouge			3.000			\$,800	•		10.000
15	Gas Separater		8'±5'			2'x5'			2'15'	
16	Line		4.	1,000		4*	1,000		4.	2.000
17	Valves Plag D(2)	3-14*		3,000	3-14*		5,000	3-1/8"		10,000

(1) Only one required in Class 3M.

(2) Gase valves any shall be used for Cless 10hl.

(3) Remote operated hydraulic choice required on \$,000 pel and 10,000 pel for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choice manifold shall be welded, studded, Ranged or Cameron clamp of comparable rating.
- 2. All fianges shall be API 6B or 6BX and ring gaskets shall be API FIX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be evaluable.
- 5. Choice manifold pressure and standpipe pressure gauges shall be evaluable at the choice manifold to essist in regulating choices. As an alternate with sutomatic choice, a choice manifold pressure gauge shall be located on the rig loor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling speel to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bands using bull plugged tess.

7. Discharge lines from chokes, choke bypass and from top of ges separator should vent as far as practical from the well.

EXHIBIT #2

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

:

DISTRICT] P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION P.O. Box 2088

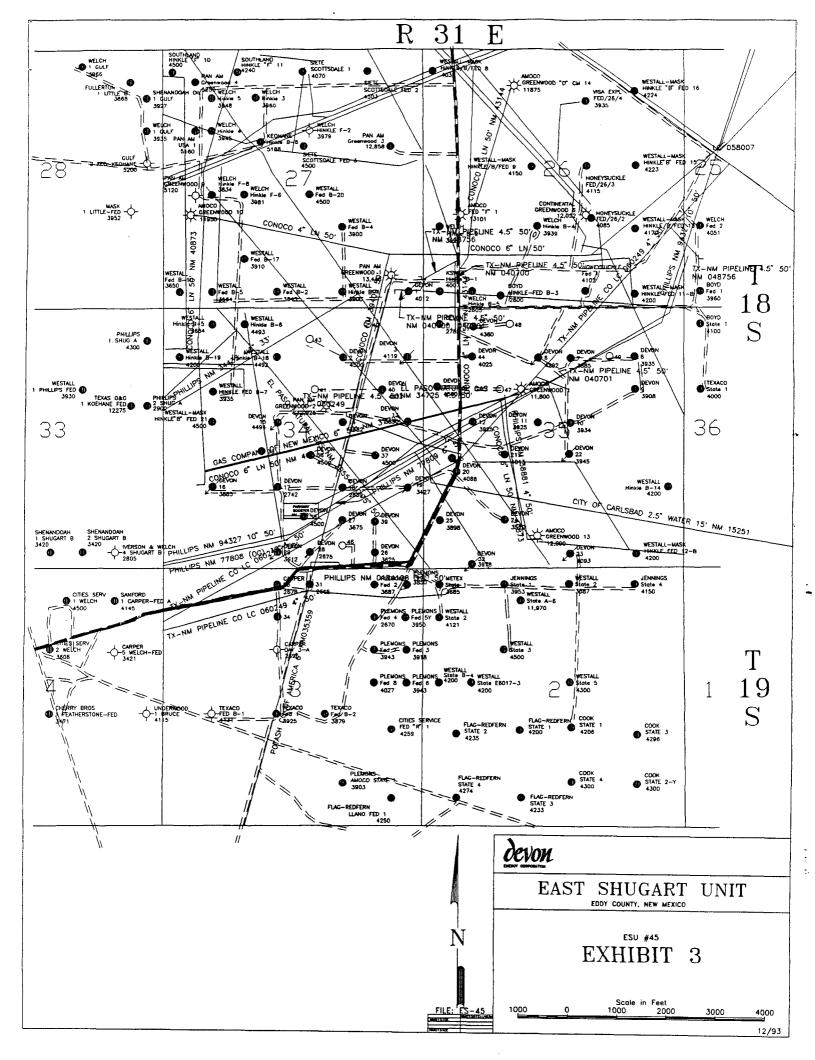
Santa Fe, New Mexico 87504-2088

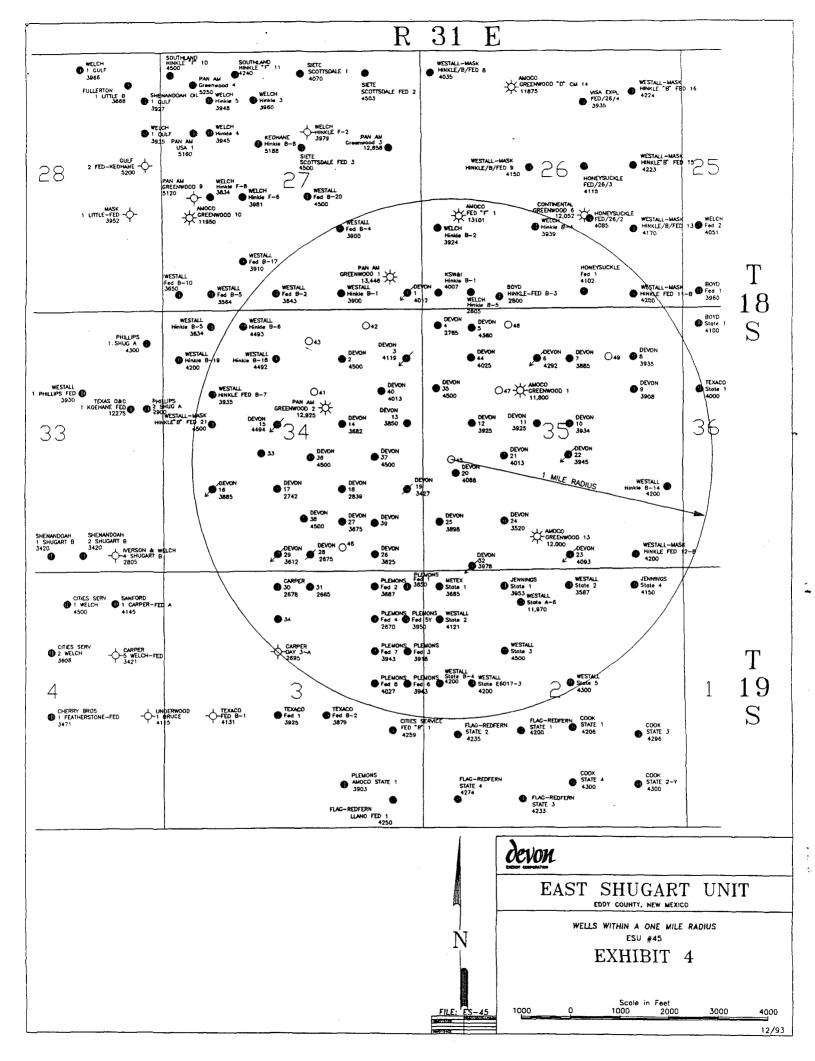
WELL LOCATION AND ACREAGE DEDICATION PLAT

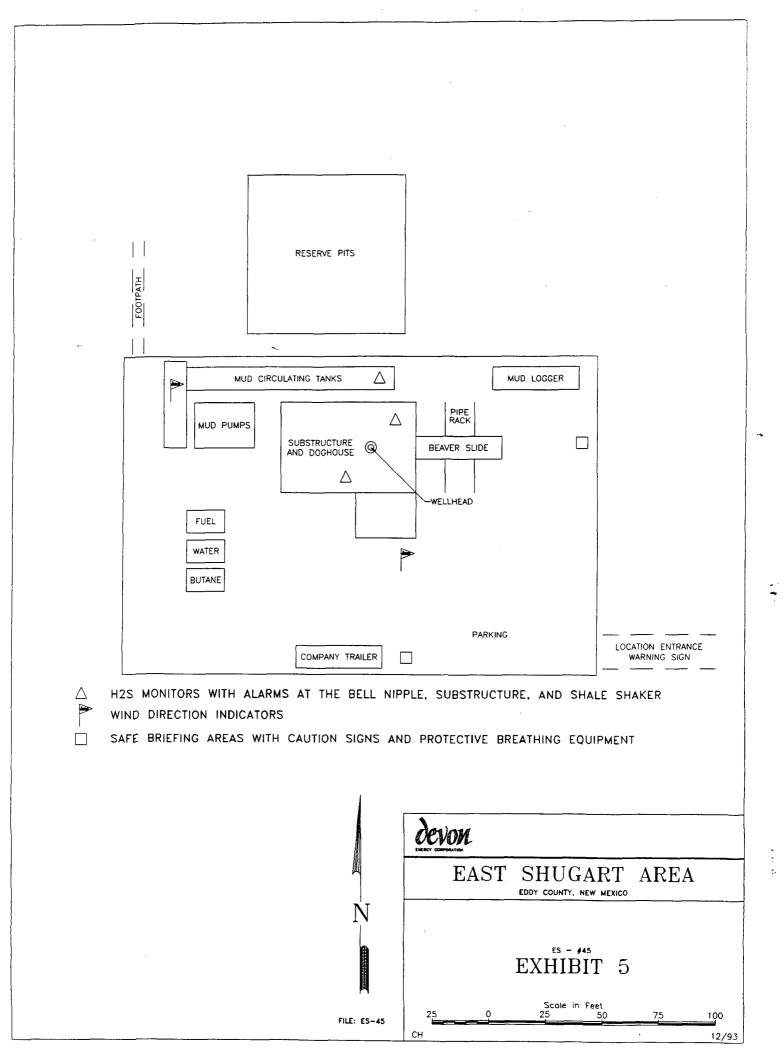
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

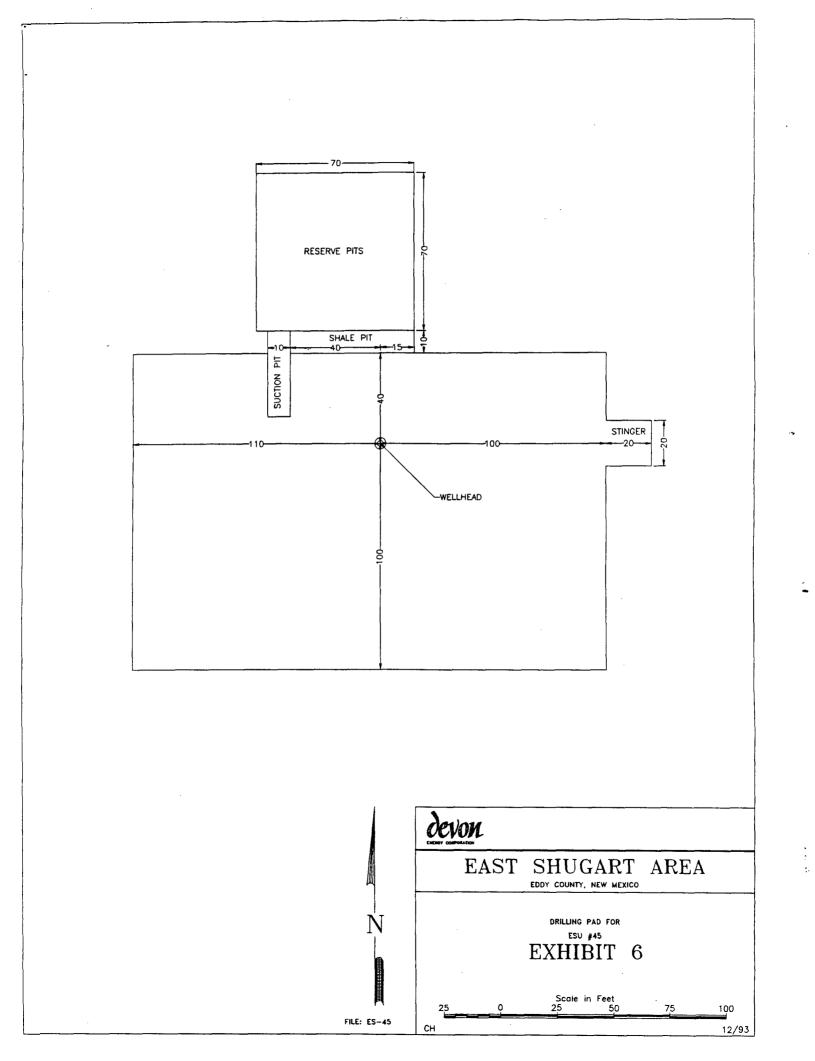
AI Distances must be from the outer boundaries of the section

Operator DF	VON ENERGY C	ORPORATION	Lease	EAST SHUG	ART UNIT	Well No. 45
	······	Township	Range			County
Unit Letter	Section 35	18 SOUTH	Nange -	31 EAST	NMPM	EDDY
Actual Footage Loc	the second se				NMPM	
0050	t from the SOU	JTH line and	580		feet from	the WEST line
Ground Level Elev			Pool		Teet nom	Dedicated Acreage:
3631.2'	Queen S	and	Shug	art <u>(Y-SR-C</u>)-G)	40 Acres
1. Outline the ac		the subject well by color				
2. If more than	one lease is dedice	ated to the well, outline	each and identif	ly the ownership	thereof (both	as to working interest and royalty).
	one lease of differ orce-pooling, etc.?		ed to the well, l	have the interest	of all owners	s been consolidated by communitization,
Yes Yes	No No	lf answer is "yes" ty	pe of consolidat	tion		
this form necess	ary	nd tract descriptions whi				
	-	the well unit all inte rd unit, eliminating suc				nitization, unitization, forced-pooling on.
						OPERATOR CERTIFICATION
1	1					I hereby certify the the informatio
	1			1		contained herein is true and complete to th best of my knowledge and belief.
	1			1		
	Í			i		Signature
	i					hand beboon
	1	•		1		Printed Name
	I			1		Randy Jackson
	+			+		Position
	ļ					District Engineer
Į.						Company Devon Energy
	1					Corporation (Nevada)
	ł			,		Date
	i	}		i		12/21/93
	j			i		SURVEYOR CERTIFICATION
						I hereby certify that the well location show
580'	$\langle \langle \rangle \rangle$			I		on this plat was plotted from field notes a
A-mart	$\backslash \backslash 1$	Į		1	[]	actual surveys made by me or under n supervison, and that the same is true a
$ \langle \cdot \rangle $	\mathbf{Y}			1		correct to the best of my knowledge a
				Ì		belief.
$ \backslash \backslash \rangle$	NNI			i		Date Surveyed
	$\langle X \rangle$			1		DECEMBER 6, 1993
$ \setminus \setminus $		· .		1		Signature & Seal of
		+		+	•	Professional Surrayor
2250		}		1		CARY L. JONIG
	l			1		No.
	1			1]	NEW AICH
	Ì			Ì		
		1		ч 		NE Cont III
	i k			1		12 Mary 10000
						Certificase Vid other W west of Ronald a Borner
						POFESSION CASH STORES TO
0 330 660	990 1320 1650	9 1980 2310 2640	2000 150	0 1000 8	500 0	93-1-2485









Op	erator	: DEVON E	NERGY C	ORP	Well	Name:	EAST SHU	JGART	UNIT
Pr	oject :	[D:			Loca	tion:			
	Mud weight Shut in sur Internal gr Annular gra Tensile loa		: 0.468 : 855 : 0.100 : 0.000	psi/ft psi psi/ft psi/ft weight	<u>D</u> .	Collapse Burst 8 Round Buttress Body Yield Overpull	Factors:	: 1.125 : 1.00 : 1.80 : 1.60 : 1.50 : 0	(J) (J) (B) lbs.
	Length (feet)	Size (in.)	Weight (lb/ft		e Joir		Depth (feet)	Drift (in.)	Cost
1	950	8-5/8"	24.00	J-55	5 ST&C	2	950	7.972	
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Load (kips)		th S.F.
1	444	1370	3.086	950	2950	3.11	22.80) 24	4 10.70 J

DEVON ENERGY

Prepared by : , Oklahoma City, OK Date : 08-09-1993

Remarks

Minimum segment length for the 950 foot well is 900 feet.

Surface string:

Next string will set at 4,500 ft. with 10.10 ppg mud (pore pressure of 2,361 psi.) The frac gradient of 1.000 at the casing seat results in an injection pressure of 950 psi. Effective BHP (for burst) is 950 psi. The minimum specified drift diameter is 7.972 in.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1990 pricing model. (Version 1.0G)

HIBIT #7

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DEVON ENERGY

Op	erator	DEVON E	NERGY C	ORP	Well	Name:	EAST S	HUGART	UNIT
Pro	oject]	[D:			Loca	tion:			
: : :	Mud weight Shut in sur Internal gr Annular gra Tensile loa	(10.10 ppg) (ace pressure adient (burst) dient (burst) d is determined ing is "Sweet"	: 0.525 : 1911 : 0.100 : 0.000	psi/ft psi psi/ft psi/ft weight	De	Collapse Burst 8 Round Buttress Body Yiel Overpull	<u>Factors</u>	: 1.125 : 1.00 : 1.80 : 1.60 : 1.50	(J) (J) (B) 0 lbs.
	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	e Joir	nt	Depth (feet)	Drift (in.)	
1	4,500	5-1/2"	15.50	J-55	5 ST&0	C	4,500	4.825	5
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	1	-	th S.F.
1	2361	4040	1.711	2361	4810	2.04	69.	75 20)2 2.90 J

Prepared by : , Oklahoma City, OK

08-09-1993 Date : :

Remarks

Minimum segment length for the 4,500 foot well is 1,500 feet.

The mud gradient and bottom hole pressures (for burst) are 0.525 psi/ft and

2,361 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1990 pricing model. (Version 1.0G)

DEVON ENERGY CORPORATION 1500 Mid-America Tower 20 North Broadway Oklahoma City, Oklahoma 73102-8260

405/235-3611 TWX 910-831-3277

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May 5, 1989

State of New Mexico Oil & Gas Conservation Commission State Capitol Building Santa Fe, NM 87504

> Re: Blanket Plugging Bond State of New Mexico No. 56-0130-11003-87

Gentlemen:

Devon Energy Corporation formerly Devon Corporation has changed its name to Devon Energy Corporation (Nevada). In this regard, enclosed is a Rider for the referenced bond to include both company names. Please amend your records.

Very truly yours,

Charlene Newkirk Lease Records Supervisor

encls

cc: Carolyn Wilson McEldowney McWilliams

RIDER

To be attached to and become a part of Bond No. 56-0130-11003-87-1 issued by the United States Fidelity and Guaranty Company, on behalf of Devon Energy Corporation as Principal, and in favor of State of New Mexico as Obligee, in the penalty of Fifty thousand and no/100 - --- - - - -Dollars (\$ 50,000.00) for Blanket plugging bond

It is hereby understood and agreed that effective on the February 10, 1989 the Principal in this bond shall be Devon Energy Corporation (Nevada)

However, the liability of the Surety in the appregate to the Obligge for any and all defaults of the Principal, whether occuring before or after or partly before and partly after this rider become effective, shall in no event exceed the penalty stated in the bond.

Signed, Sealed, and Dated this 3rd day of March 1989.

Devon Energy Corporation (Nevada) C. LUNDE, JR. By: Vice President STATES FIDELITY AND GUARANTY COMPANY UNITE

By:

Attorney-in-fact

Marcia C. Brejda

DEVON ENERGY CORPORATION

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

A. Hydrogen Sulfide Training

All rig crews and company personnel will receive training from a qualified instructor in the following areas prior to penetrating any hydrogen sulfide bearing formations during drilling operations:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of the H2S safety equipment and of personal protective equipment to be utilized at the location such as H2S detection monitors, alarms and warning systems, and breathing equipment. Briefing areas and evacuation procedures will also be discussed and established.
- 3. Proper rescue techniques and procedures will be discussed and established.

In addition to the above, supervisory personnel will be trained in the prevention of oil and gas well blowouts in accordance with Minerals Management Service Standards Subpart - 0 - 250 - 212.

Prior to penetrating any known H2S bearing formation, H2S training will be provided at the rig sight for all rig crews and company personnel that have not previously received such training. This instruction will be provide by a qualified instructor with each individual being required to pass a 20 question test regarding H2S safety procedures. All contract personnel employed on an unscheduled basis will be required to have received appropriate H2S training.

This Hydrogen Sulfide Drilling And Operations Plan shall be available at the wellsite during drilling operations.

B. H2S Safety Equipment And Systems

All H2S safety equipment and systems will be installed, tested, and operational when drilling operations reaches a depth approximately 500' above any known or probable H2S bearing formation. The safety systems to be utilized during drilling operations are as follows:

- 1. Well Control Equipment
 - (a) Double ram BOP with a properly sized closing unit and pipe rams to accommodate all pipe sizes in use.
 - (b) A choke manifold with a minimum of one remote choke.

Note: BOP's will be in place prior to drilling out surface casing.

- 2. H2S Detection And Monitoring Equipment
 - (a) Three (3) H2S detection monitors will be placed in service at the location. One monitor will be placed near the bell nipple on the rig floor; one will be placed at the rig substructure; and, one will be at the working mud pits or shale shaker. This monitoring system will have warning lights and audible alarms that will alert personnel when H2S levels reach 20 ppm.
 - (b) One (1) Sensidyne Pump with the appropriate detection tubes will also be available to perform spot checks for H2S concentrations in any remote or isolated areas.
- 3. Protective Equipment For Essential Personnel

Protective equipment will consist of the following:

- (a) Four (4) five minute escape packs located at strategic points around the rig.
- (b) Four (4) thirty minute rescue packs to be located at the designated briefing areas.
- (c) Breathing air cascade manifold system complete with 10 300 cubic feet air cylinders with four hose line work units.

4. Visual Warning System

Visual warning system will consist of the following:

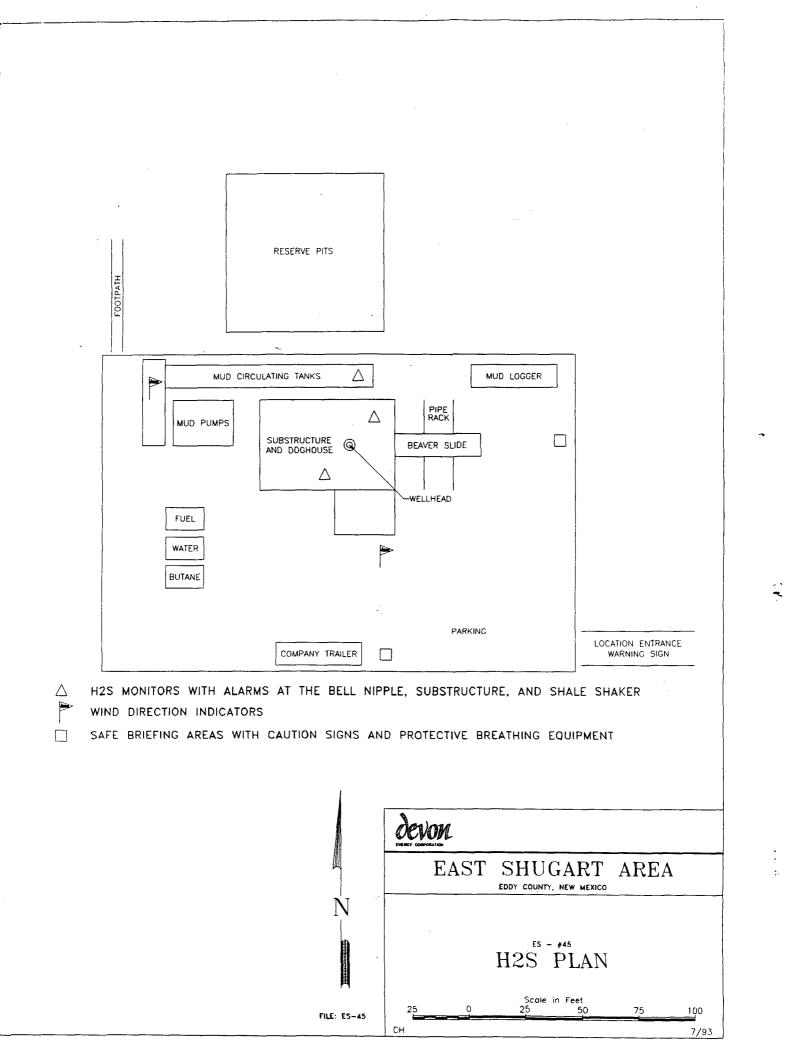
- (a) Two wind direction indicators.
- (b) One condition / warning sign which will be posted on the road providing direct access to the location. The sign will contain lettering of sufficient size to be readable at a reasonable distance from the

immediate location. The sign will inform the public that a hydrogen sulfide gas environment could be encountered be at the location.

- 5. Mud Program
 - (a) The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight and safe drilling practices (for example, keeping the hole filled during trips) will minimize hazards when drilling in H2S bearing formations.
- 6. Metallurgy
 - (a) All drill strings, casings, tubing, wellhead, blowout preventers, drilling spools, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- 7. Communication
 - (a) Two way radio and cellular telephone communication will be available in company vehicles.

C. Diagram Of Drilling Location

1. Attached is a diagram representing a typical location layout as well as the location of H2S monitors, briefing areas, and wind direction indicators.



OPERATOR'S COPY

SPECIAL DRILLING STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

OPERATORS NAME: DEVON ENERGY CORPORATION (NEVADA)	LEASE NO.: NM-10190
LOCATION: 2550'/S & 580'/W, SEC. 35-T18S-R31E	COUNTY: EDDY
WELL NAME & NO: NO. 45-EAST SHUGART UNIT	

The special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Conditions of Approval. The permittee should be familiar with the Onshore Order No. 2. a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE REVIEW OF THESE STIPULATIONS PURSUANT TO TITLE 43 CFR 3165.3.

I. SPECIAL ENVIRONMENT REQUIREMENTS - <u>Federal Surface</u>

 [] Lesser Prairie Chicken (Stips attached)
 [] San Simon Swale (Stips attached)
 [] Ploodplain (Stips attached)
 [] Other ______

II. ON LEASE - SURPACE REQUIREMENTS PRIOR TO DRILLING

Carbbad The BLM will monitor construction on this drill site. Notify the Resource Area Office, BLM at least <u>3</u> working days prior to commencing construction at (505) 887-6544.

The drill pad and access road for this well must be surfaced with <u>6</u> inches of compacted gravel/caliche.

[] All topsoil and vegetation encountered during the construction of the drill site areas shall be stockpiled and made available for resurfacing of the disturbed areas after completion of the drilling operations. Topsoil on the subject location is approximately ______ inches in depth. Approximately _____ cubic yards of topsoil material shall be stockpiled for reclamation.

[] Other -

HELL COMPLETION REQUIREMENTS

[] A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the Bureau of Land Management. The effective date of the agreement must be prior to any sales.

 $[\mathcal{V}]$ Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pads not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and topsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at a depth of 1/2 inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre:

()	A. Seed Mixture I (Loamy Sites) Lehmann's lovegrass (<i>Eragrostis lehmanniana</i>) 1.0 Sideoats grama (<i>3cuteloua curtipendula</i>) 5.0 Sand dropseed (<i>Sporobolus cryptandrus</i>) 1.0	 () B. Seed Hirture II (Sandy Sites) Sand dropseed (Sporobolus cryptandrus) 1.0 Sand lovegrass (Eragrostis trichodes) 1.0 Plains bristlegrass (Setaria macrostachya) 2.0
()	C. Seed Mixture III (Shallow Sites) Sideoats grama (<i>Bouteloua curtipendula</i>) 7.0 Lehmann's lovegrass (<i>Bragrostis lehmanniana</i>) 1.0 or Boar's Lovegrass (E. Chloromalas)	47 Seed Mixture IV (Gypsum Sites) Alkali Sacaton (Sporobolus airoides) 1.0 Pour-Wing Saltbrush (Atriplex canescens) 5.0

Seeding should be done either late in the fall (September 15 - November 15.) or early as possible the following spring to take advantage of available ground moisture.

[X] Other - NONE

RESERVE PIT CONSTRUCTION STANDARDS

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

Mineral material extracted during construction of the reserve pit may be used for development of the pad and access road as needed. Removal of any additional material on location must 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 borrow/caliche/gravel pit can be constructed immediately adjacent to the reserve pit and is capable of containing all reserve pit contents. The mineral material removed in the process can be used for pad and access road construction. However, a material sales contract must be purchased from BLM prior to removal of the material.

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 recontoured, 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 proceed 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.

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN
OPERATORS NAME DEVON ENERGY CORPORATION (NEVADA) NOLL NO. & NAME NO. 45-EAST SHUGART UNIT LOCATION 2550 / 2 S L& 580 / F W L SPC. 35 , T. 185 , R.31E .
LOCITION 2550 7 2 S L& 580 7 PW L SPC.35 , T. 185 ., R.31E . LEASE NO. NM-10190 - EDDY COUNTY NEW: MEXICO
The special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Dureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PERSIANT TO THEE 43 CFR 3165.3 and 3165.4.
DRILLING OPERATIONS REQUIREMENTS Capitan Controlled Water Finals
The Bureau of Land Management office is to be notified at (505) <u>887-6544</u> , in sufficient time for a representative to withous:
(1) 1. Spuiling (1) 2. Cement casing $\frac{8^{5}}{8}$ inch $\frac{5}{2}$ inch inch
() 3. DOP tests () Other Whenever a casing string is cemented in the R-111-P potash area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours perfore drilling the plug or initiating tests.
() $\frac{8^{5}8'}{8}$ surface casing should be set $A_{T} \approx 9.50'$ (below GROUNDWATER) and cement circulated to the surface. If cement does not circulate to the surface, this SLM office will be notified and a temperature survey or cement bond log will be run to verify the top of the cement. Remedial cementing will be done prior to drilling out of that string. () Minimum required fill of cement behind the <u>N/A</u> intermediate cosing is to
(V) Minimum required fill of coment brind the $5\frac{1}{2}$ production ensuing is to <u>TIE BACK TO $\pm 200^{\circ}$ THTO SURFACE CASING</u> .
PRESSURE CONTROL
(1) Before drilling below the <u>8%</u> casing, the blowout preventer assembly will consist of a minimum of: (1) One Annular Preventer, OR (1) Two RAM-Type Preventers (1) Other <u>STABBING</u> VALVE.
(v) After setting the $\frac{8^{5}\theta'}{\theta}$ casing string, and before drilling into the $\frac{74785}{8}$ Formation, the blowout preventers and related control equipment shall be pressure-tested as described in General Requirements. Any equipment failing to test satisfactorily will be repaired or replaced.
 () The test will be conducted by an independent service company. (v) The results of the test will be reported to the appropriate RIM office. () The Dureau of Land Management office is to be notified in sufficient time for a representative to witness the test.
() Mixi system monitoring equipment, with derrick floor indicators and visual and audio alarms, will be installed and operating before drilling into the Formation, and will be used until production casing is run and commented. Monitoring equipment will consist of the following:
() 1. A recording pit level indicator to determine pit volume gains and lowes.

- () 2. A mid-volume measuring device for accurately determining man volume necessary to fill the hole on trips.
- () 3. A flow-sensor on the flow-line to warn of any abnormal must returns from the well.

() A Hydrogen Sulfile Contingency Plan will be approved by this MIM office before drilling below the ______ Formation. A copy of the plan will be posed at the drilling site.

^() Other Samma-Rav/Neutron logs shall be run from the base of the Salado formation to the surface; cable speed not to exceed 30 feet her minute.