Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMEN BUREAU OF	TED STATES	ARTERIA, M	MET IN TR. ther instruc	.TE) on	Budget Bure Expires Aug 5. LEASE DESIGNAT NM-025777	au No. 1004-0136 rust 31, 1985	
APPLICATIO	N FOR PERMIT	TO DRILL, D	DEEPEN, OR	PLUG B	ACK	6. IF INDIAN, ALLO	TTEE OR TRIBE NAME	
b. TYPE OF WELL		DEEPEN [LUG BAC		7. UNIT AGREEMEN East Shuga	rt Delaware Unit	
	VELL MOTHER	Water Inject	LOTZONE	ZONE	<u> </u>	C. JALA VL LALDE	25743	
St. Mary	Land & Explorat	ion c/o Na	ance Petrole	um Corpo	ration	9. WELL NO. 20	011/	
3. ADDRESS OF OPERATOR	7168 - Billing	IS. MT 5910	3			20 10. FIELD AND POO	L. OR WILDCAT	
4. LOCATION OF WELL (] At surface	Report location clearly an & 300' FEL U	d in accordance wit	SUBJECT I LIKE APPR			Shugart Del 11. BBC, T., R., M., AND SURVEY O Sec. 24-T18	aware East OB BLK. B ARBA	
	AND DIBECTION FROM NE	ABEST TOWN OR POST	T OFFICE*			12. COUNTY OR PARISH 13. STATE		
14 miles	SE of Loco Hill	S			:	Eddy	NM	
15. DISTANCE FROM PROF LOCATION TO NEAREH PROPERTY OR LEARE (Also to nearest dr 15. DISTANCE FROM FRO NEAREST WELL	IT LINE, FT. ig. unit line, if any) FOSED LOCATION [®] DRULING, COMPLETED,	300'	16. NO. OF ACRES 1 604.12 19. PROPOSED DEPT	unit	TO TI 20. ROTA	DF ACRES ASSIGNED HIS WELL 20 RY OR CABLE TOOLS		
OR APPLIED FOR, ON TI	EIS LBARE, FT. 63()' (ESDU #6)	5550'			Rotary	E WORK WILL START*	
21. ELEVATIONS (Show w) 3710	hether DF, RT, GR, etc.)					0ct. 10		
23.		PROPOSED CASIN	NG AND CEMENTI	NG BROGR	Ma or -		ATTE BAAAA	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F				QUANTITY OF C		
12 1/4"	8 5/8"	24		<i>₽860′</i>		5 sx circ.	witness	
7 7/8"	5 1/2"		555	0	69	<u>5 sx circ.</u>		

8-5/8": Circulate to the surface with 225 sx Premium Plus cement.

5-1/2": Circulate to the surface 365 sx Interfill C lead cement and tail in with 330 sx Super H w/2.5 lbm salt, 0.3% CFR-3, 0.3% Lap-1 & 5 lbm Gilsonite.

R-11254



APPROVAL SUBJECT IN GENERAL REQUIREMENTS SPECIAL STIPULATIONS ATTACHED

1.1

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive tone 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.

SIGNED	whenthe Thackenson	Herb Thackeray TITLE Operations Engineer	DATE .	8/17/00
(This space f	for Federal or State office use)			
PERMIT NO.	·····	APPROVAL DATE		· · · · · · · · · · · · · · · · · · ·
APPROVED BY	(UNIS, SUPER ANNALISE & USERZ	Acting Assistant Field Manager,	DATE .	SEE 1 6 2000
CONDITIONS OF APPROVAL, IF ANY :		Lands And Minerals		y san shi ka 19

*See Instructions On Reverse Side

Title 18 II S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

LÍRICT I . Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawar DD, Artenia, NM 88211-0719

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

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

154903

State of New Mexico

Energy, Minerals and Natural Resources Department X

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies For Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

3710

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 56419 Shugart Delaware East Property Code 25743 Property Name Well Number ESDU 20 OGRID No. **Operator** Name Elevation ST. MARY LAND & EXPLORATION CO.

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	18 S	31 E		1240	NORTH	300	EAST	EDDY
						and the second se			

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.		L		[

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

	·····		
			OPERATOR CERTIFICATION
	3705.9' 3708.6'		I hereby certify the the information contained herein is true and complete to the
		240	best of my knowledge and belief.
	0		
	3713.3' 3717.7'		all tet h
	DETAIL	300'	Hubert R. Thackhay
†	 	SEE DETAIL	Herb Thackeray
		SCE DEIML	Printed Name
1	i		Operations Engineer
			Title
			_7/18/00
			Date
	1		SURVEYOR CERTIFICATION
1	 	· · · · · · · · · · · · · · · · · · ·	
			I hereby certify that the well location shown on this plat uses plotted from field noise of
			antuni surveys made by me or under my
	i		supervison, and that the same is true and correct to the best of my beilef.
	,		
			JULY 7, 2000
			Date Surveyed DC
Гт-	 		Signature & Seal of the Professional Surveyor
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	I		
	t		Continue No. RONALD F. ELDSON 3239 GARY ELDSON 12841
			GARY EDSON 12841
			1 94.111.7777575.941.047

VICINITY MAP



SEC. <u>24</u> TWP. <u>18-S</u> RGE. <u>31-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1240' FNL & 300' FEL</u> ELEVATION <u>3710</u> ST. MARY LAND & OPERATOR <u>EXPLORATION CO.</u> LEASE <u>ESDU</u>

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505 393-3117

LOCATION VERIFICATION MAP



1

Nine Point Drilling Plan (supplement to BLM 3160-3)

St. Mary Land and Exploration Co. ESDU #20 1240' FNL, 300' FWL; Sec 24, T18S, R31E East Shugart Delaware Unit - Property Code 25743 Shugart (Delaware) East Field Eddy Co., NM NM-025777

- 1. The geologic surface formation is quaternary.
- 2. Name and estimated tops of geologic horizons

Yates	2400'
Queen	3500'
Grayburg	4020'
San Andres	4420'
Delaware	4575'

- 3. Protection of possible useable water will be achieved by setting 8.625" surface casing @ 350' + and cementing it to surface. The Queen Grayburg are oil and gas productive in this area in addition to the targeted Delaware-Brushy Canyon. Isolation will be achieved by setting 5.5" casing @ 5550' +/-, and cementing back to surface.
- 4. Specifically the casing strings referenced in #3 above will consist of the following:

Surface:	8.625" OD, 24#/ft, J55, STC, new pipe @ 350'+ in 12.25" hole
Production:	5.50" OD, 15.5#/ft, J55, LTC, new pipe @ 5550'+/- in 7.875" hole

Cementing programs for the above casing strings are:

Surface: 225 sx Premium Plus w/ 2% CaCl2, .25#/sk celloflake mixed at 14.8 ppg, and having a yield of 1.34 cu ft/sk

The above volume represents 100% excess over calculated hole volume, and will be adjusted to actual setting depth of casing. The slurries will be preceded by a fresh water spacer, and displaced with brine water.

- Production: (a) 365 sx Interfill C cement mixed @ 11.9 ppg and having a yield of 2.45 cu ft/sk
 - (b) 330 sx Super H cement w/2.5 lbm salt, 0.3% CFR-3, 0.3% Lap-1, 5 lbm Gilsonite mixed @ 13.2 ppg, and having a yield of 1.63 cu ft/sk

The above are Halliburton products with 50% excess volume - actual volumes will be adjusted to the open hole caliper of this wellbore. The

cement slurries will be preceded by 12 bbls cement wash for mud removal and displaced with fresh water. Equivalent products from another vendor may be substituted for Halliburton depending on price/availability.

- 5. The well control equipment to be employed during the drilling of this well is as illustrated on EXHIBIT A. This equipment includes a pipe and blind rams, an annular preventer and a choke manifold of comparable pressure rating. Equipment will be rated for a minimum of 3000 psi, and will be tested to 80% of that pressure rating prior to drilling out the 8.625" surface casing.
- 6. It is anticipated that this well will be drilled to TD utilizing fluids shown below
 - 0-350' NewGel/Lime "spud mud" 8.6-9.0 ppg Utilize native solids to maintain sufficient viscosity to clean hole. Mix paper as required to control seepage loss.
 - 350-5000' Brine 9.9-10.0 ppg Circulate thru reserve pit for gravitational solids removal. Add paper as required to control seepage loss. Maintain pH using Lime.
 - 5000-5550' Salt gel 10-10.1 ppg Confine circulation to steel pits. Discontinue Lime, mix starch for filtration control. Maintain water loss @ 10-15 cc. Sweep hole with Loloss at TD to clean hole for logging operations.
- 7. Auxiliary equipment will include an upper kelly cock valve, safety valve to fit drill pipe and pressure gauges.
- 8. No drill stem testing is planned for this wellbore.

Coring the Brushy Canyon is being considered and may be proposed if economically feasible.

A one-man mud logging unit will be utilized from 3000' to TD to record geological tops, collect samples, and monitor drilling fluids for hydrocarbons. GR/Caliper, Density Neutron and Dual Induction Laterologs will be run at TD to evaluate porosity and saturations. A cased hole GR/CBL/CCL will be run during the completion for correlation and to evaluate cement quality.

9. The expected BHP at TD is not expected to exceed 1500 psi, and a BHT of 105 F is anticipated. There is no H2S present in the hydrocarbons being produced from the other wells that the company operates in this section. Should such unexpected circumstances be encountered the operator and drilling contractor are prepared to take necessary steps to ensure safety of all personnel, and environment. Likewise, if water flow is experienced while drilling though the Penrose-Grayburg which has an active waterflood. Lost circulation is not expected to be a serious problem in this area, and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

It is estimated that this well will be drilled and cased in 10-11 days. Drilling will commence as soon after approval is received and services can be contracted.

Thirteen Point Plan for Surface Use (additional data for form 3160-3)

St. Mary Land and Exploration Co. ESDU #20 1240' FNL, 300' FWL; Sec 24, T18S, R31E East Shugart Delaware Unit - Property Code 25743 Shugart (Delaware) East Field Eddy Co., NM NM-025777

1. EXISTING ROADS – A "VICINITY MAP" and a "LOCATION VERIFCATION MAP" by John West Surveying are attached which show the location of existing roads and the area topography.

The road log to the location is as follows (the roads are better coming in from the east):

- a) Entrance to the lease is from County Road 126, +/- 4 miles south of the junction of 126 & US 529.
- b) Proceed west through cattleguard for +/- 1 mile to the Conoco Federal Battery.
- c) Follow road through battery heading SW to next intersection at well pad for Geronimo Fed. #6 and ESDU #6.
- d) Turn right and head east toward Inca Federal Battery.
- e) Proposed entrance road is staked on south side of road.
- f) The ESDU #20 location stake is 542' south of the road.
- PLANNED ACCESS ROADS Approximately 542' of new N-S access road will be built from the existing E-W road between Geronimo Fed. #6/ESDU #6 pad and the Inca battery.
- LOCATION OF EXISTING WELLS EXHIBIT B1 shows the location of other wells within a mile radius of the proposed location in Eddy County and EXHIBIT B2 in Lea, County.
- 4. LOCATION OF EXISTING OR PROPOSED FACILITIES –During the initial pilot stage, a fiberglass line will be laid to the well from the Geronimo Fed. #7 injector approximately 860' to the SW to utilize pressured injection water from the existing East Shugart (Penrose-Grayburg) waterflood. A new water injection facility will be proposed if the Delaware flood is successful and expanded unitwide.
- 5. LOCATION AND TYPE OF WATER SUPPLY All water (fresh or otherwise) needed for the drilling and completion of this well will be purchased from a commercial source and trucked to the location via the existing and proposed access road. No water source wells will be drilled, and no surface water will be utilized.
- 6. SOURCE OF CONSTRUCTION MATERIALS Construction material (caliche) required for the preparation of the drill site is available from a local source 3 ¹/₂ miles away. It is not anticipated that a significant amount of material will be required as the terrain is relatively flat. Transportation will be over the existing roads.

7. METHODS FOR HANDLING WASTE DISPOSAL -

- Drill cuttings will be disposed into drilling pits after fluids have evaporated .
- The drilling pits will be lined with a biodegradable plastic liner, and buried as per regulatory requirements. The pits will be located on the same location as the previously reclaimed Inca #12 pits.
- Receptacles for solid wastes (paper, plastic, etc) will be provided and equipped to prevent scattering by wind, animals, etc. This waste will be hauled to an approved landfill site.
- Any other waste generated by the drilling, completion, testing of this well will be removed from the site within 30 days of the completion of drilling or testing operations.
- A Porta-John will be provided for the crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
- 8. ANCILLARY FACILITIES The drilling, completion, and/or testing of this well will require no ancillary facilities.
- 9. WELLSITE LAYOUT Attached as EXHIBITS C & D are plats showing the anticipated orientation of the drilling rig and the pad. A similar rig may have to be substituted for Big Dog Rig #3 if it is no longer available when approval is granted for this application. Material moved to create the drilling pits will be utilized in the dike around the pits so as to facilitate restoration of the area when operations are completed.
- 10. PLANS FOR SURFACE RESTORATION Reclamation of the surface location will be in accordance with the requirements set forth by the BLM. As stated earlier all waste generated by this operation will be disposed of in an approved manner, and the site restored as closely as possible to its pre-operation appearance. Due to the topography of the area no problems are anticipated in achieving this status and no erosion or other detrimental effects are expected as a result of this operation.
- 11. OTHER INFORMATION The surface ownership of the drill site and the access routes are under the control/ownership of :

Bureau of Land Management P.O. Box 1778 Carlsbad, New Mexico 88221-1778 505-234-5972

The BLM representative for this area is Barry Hunt who can be reached at the above number, or 505-369-4046.

The site was archaeologically surveyed in July 2000. A copy of that report should be forwarded to the BLM by Desert West, the surveying company.

 OPERATORS REPRESENTATIVE - St. Mary Land and Exploration is covered by Nationwide Bond No. 6041872. Nance Petroleum Corporation is a wholly owned subsidiary of St. Mary represented by:

Robert L. Nance, President

Gary L. Evertz, Operations Manager

Herb Thackeray, Operations Engineer 550 North 31st Street, Suite 500 P.O. Box 7168 Billings, MT 59103 406-245-8627 (o) 406-861-7372 (m) 406-656-7250 (h)

Jackie Herron, Contract Pumper Hagerman, NM 505-746-7601 (m) 505-752-2701 (h)

13. OPERATORS CERTIFICATION

I hereby certify that I, Herb Thackeray-Operations Engineer, have inspected the proposed drill site and access route and that I am familiar with the conditions that currently exist; that the statements made in the APD package are to the best of my knowledge true and correct; and that the work associated with operations herein will be performed by ST. MARY L&E/NANCE PETROLEUM CORP and it's contractors and subcontractors in conformity with the terms and conditions of this APD package. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application with bond coverage being provided under a BLM nationwide bond.

This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Name and title:

Herb Thackeray, Operations-Engineer for Nance Petroleum Corp. A wholly owned subsidiary of St. Mary Land & Exploration Co.

Signature:

Date:

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8/17/00	\mathcal{J}	

EXHIBIT A



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Rig #3 Rig Plan

***Or Equivalent**



EXHIBIT D



Rig #3

