#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

July 15, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Energy Development Corporation 1000 Louisiana, Suite 2900 Houston, Texas 77002

Attention: Mark Blumenshine

Administrative Order DD-85

#### Dear Mr Blumenshine:

Reference is made to your application dated July 9, 1993 for a non-standard oil well location, for approval to intentionally deviate a well (drill a horizontal well) and to form a 480-acre proration unit consisting of contiguous quarter sections from more than one government section. The subject well being your San Isidro 5 Well No. 2, is to be located 475 feet from the North line and 1750 feet from the East line (Unit B) of Section 5, Township 20 North, Range 2 West, NMPM, Rio Puerco-Mancos Pool, Sandoval County, New Mexico. The NE/4 of said Section 5 and the E/2 of Section 32, Township 21 North, Range 2 West, NMPM, shall be dedicated to the well forming a non-standard 458.75-acre spacing and proration unit.

#### THE DIVISION DIRECTOR FINDS THAT:

- (1) The well is located in the San Isidro (Shallow) Unit which is governed by special rules and regulations as stated in Orders No. R-9330 and R-9330-A.
- (2) The well is located on the edge of the subject unit and requires that the offset operators be notified of requests for administrative approvals. Energy Development Corporation submitted a waiver from Gary-Williams Company, the operator of the offsetting acreage.
- (3) The geologic reason for the non-standard proration unit, contiguous quarter sections from more than one governmental section, is requested so that the proposed wellbore will follow the seismic line, which is the control for defining the area of maximum concentration of fractures.

(4) The surface location of the well is non-standard and the horizontal portion of the well will be nearer than 660 feet from the outer boundary at one point.

#### IT IS THEREFORE ORDERED THAT:

- (1) The non-standard surface location for Energy Development Corporation's San Isidro 5 Well No. 5 will be located 475 feet from the North line and 1750 feet from the East line (Unit B) of Section 5, Township 20 North, Range 2 West, NMPM, Rio Puerco-Mancos Pool, Sandoval County, is approved.
- (2) The drilling of the subject well horizontally into the E/2 of Section 32, Township 21 North, Range 2 West, NMPM, is approved.
- (3) The non-standard proration unit consisting of 458.75 acres and crossing from Section 5 into Section 32 is approved. Due to the survey adjustment between Township 20 North and Township 21 North, the wellbore will come closer to the proration unit boundary than the allowed 660 feet. Because this is a unitized area, this should not affect correlative rights and is approved.

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED HOWEVER THAT</u> during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

- (4) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.
- (5) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.
- (6) A corrected copy of Form C-102 showing the actual surface and bottomhole locations shall be filed with the Santa Fe and Aztec offices at the time the C-104 is submitted.

Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY Director

SEAL

WJL/MES/amg

Oil Conservation Division - Aztec cc: Bureau of Land Management - Albuquerque

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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Administrative Order DD-85

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#### THE DIVISION DIRECTOR FINDS THAT:

- (1) The well is located in the San Isidro (Shallow) Unit which is governed by special rules and regulations as stated in Orders No. R-9330 and R-9330-A.
- (2) The well is located on the edge of the subject unit and requires that the offset operators be notified of requests for administrative approvals. Energy Kindyment Corp.

A waiver from Gary-Williams Company, the operator of the offsetting acreage, was submitted.

The geologic reason for the non-standard proration unit, contiguous quarter sections from more than one governmental section, is requested so that the proposed wellbore will follow the seismic line, which is the control for defining the area of maximum concentration of fractures.

The surface location of the well is non-standard and the horizontal portion of the well will be nearer than 660 feet from the outer boundary at one point.

#### IT IS THEREFORE ORDERED THAT:

**(1)** The non-standard surface location and wellbore location are approved.

-The drilling of a horizontal well is approved. The non-standard proration unit is approved. 8 458.75 and and cruing

(3) from rection 5 into rection 32.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED HOWEVER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

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- Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.
- A corrected copy of Form C-102 showing the actual surface and bottomhole locations shall be filed with the Santa Fe and Aztec offices at the time the C-104 is submitted.
- Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.



OIL CONSERVATION DIVISION RECEIVED '93 JUL 22 AM 9 21

July 14, 1993

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504-2088 Attn: Larry Van Ryan

Re: San Isidro Well #5-2 Rio Puerco (Mancos) Pool Sandoval County, NM

#### Gentlemen:

As per special operating rule 2(d) for the San Isidro (shallow) unit, Energy Development Corporation requests administrative approval to cross governmental section lines, drill a horizontal well, and drill from an irregular location. The reasons for this request are as follows:

- 1. The horizontal portion of the well is to follow a seismic line to maintain geologic control. Both the surface and bottom hole locations are located on the seismic line.
- 2. The horizontal portion of the well will penetrate the Mancos formation at a flexure point where it is calculated to have a maximum concentration of natural fractures.

Please advise if additional information is required.

Sincerely

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Mark S. Gerding

Supervisor, Reg. and Environ. Affairs

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**Energy Development Corporation** 

A subsidiary of Public Service Enterprise Group Incorporated

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'93 JUL 30 AM 8 41

July 14, 1993

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504-2088 Attn: Larry Van Ryan Re: San Isidro Well #5-2 Rio Puerco (Mancos) Pool Sandoval County, NM

#### Gentlemen:

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- The horizontal portion of the well is to follow a seismic line to maintain geologic control. Both the surface and bottom hole locations are located on the seismic line.
- 2. The horizontal portion of the well will penetrate the Mancos formation at a flexure point where it is calculated to have a maximum concentration of natural fractures.

Please advise if additional information is required.

Sincerely,

Mark S. Gending

Supervisor, Reg. and Environ. Affairs

67:21

# TELECOPY TRANSMITTAL FORM ENERGY DEVELOPMENT CORPORATION

1000 Louisiana Street, Suite 2900 Houston, Texas 77002

TO: ME	2. LARRY UAN RYAN	Time:	
COMPANY:	NMOCO		
TELECOPY	NUMBER: 505-827-5	741	
FRON: M	Blomewshile	PHONE NO.:	<u> </u>
nunber of	PAGES (INCLUDING THIS )	gorm):	·
Message:	ATTACHED IS LATTER K	equesting Administra	41100
	APPROME. YOU SHOUL	D SHORTLY RECEIVE L	BPY
		ON FROM GARY-WILL	
		. MARLE B.	

TELECOPY NUMBER SENT FROM: (713) 750-7580

PLEASE CALL (713) 750-7300 OR THE NUMBER SHOWN ABOVE IF YOU HAVE ANY QUESTIONS.

The information contained in this FAX is confidential and/or privileged. This FAX is intended to be reviewed initially by only the individual named above. If the reader of this TRANSMITTAL PAGE is not the intended recipient or a representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this FAX or the information contained herein is prohibited. If you have received this FAX in error, please immediately notify the sender by telephone and return this FAX to the sender at the above address. Thank you.

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You Emigy Development Conjunction San Sides 5 No 2 will located 475 fut from the North line and 1750 Sut Adon the East line (Unit B) la sellion 5 Townhip 20 North, Range 20 West, NMPM, Kis Tunes - Manus Fool Sandoval County is approved. (2) The dulling of the subject will horizontally into the E/2 of rection 32, Township 21 North, Range 2 West (3) Du & the padjustment between Township 20 North and Township 21 North the will fore will come close to the proation unit boundary than the allowed 660 Aut Became This is a unityed evullation sight and in approval.

Serving the Petroleum Industry for over 60 Years



July 9, 1993

Mr. William J. LeMay New Mexico Oil Conservation Division 310 Old Santa Fe Trail Santa Fe, New Mexico 87503

Re: Application of Energy Development Corporation for Administrative Approval of a Horizontal Well in the San Isidro (Shallow) Unit

Dear Mr. LeMay:

Pursuant to Order No. R-9330, as amended, Energy Development Corporation (EDC) hereby applies for administrative approval of the following well: the San Isidro No. 5-2 Well, with a surface location 475 feet from the North line and 1,750 feet from the East line of Section 5, Township 20 North, Range 2 West, N.M.P.M., and a proposed bottomhole location 1,975' FEL X 1,200' FSL of Section 32, T21N-R2W, N.M.P.M., Sandoval County, New Mexico. A drilling proposal for the well is attached hereto. EDC proposes to dedicate lots 1 and 2 and the S/2 NE/4 of Section 5, T20N-R2W, N.M.P.M. and the E/2 of Section 32, T21N-R2W, N.M.P.M. (458.75 acres) to the well.

The well's surface location is unorthodox, for which EDC also requests administrative approval. The bottomhole location will be standard under the special operating rules for the Unit.

Energy Development Corporation requests a non-standard spacing and proration unit under Rule 6 of Order No. R-9330.

A Waiver of Objection to this location has been verbally approved by The Gary-Williams Company, as Operator of Section 4, T20N-R2W, N.M.P.M., Sandoval County, New Mexico. Mr. Craig Ambler of The Gary-Williams Company will telecopy the NMOCD a copy of the signed waiver shortly.

Energy Development Corporation
A subsidiary of Public Service Enterprise Group Incorporated

1000 Louisiana, Suite 2900, Houston, Texas 77002 (713) 750-7300

Mr. William J. LeMay July 9, 1993 Page Two

Please contact me at (713) 750-7535 if you need any additional information. Your prompt attention to this application is appreciated.

Yours very truly,

ENERGY DEVELOPMENT CORPORATION

12:20

WHOWENDE

Mark Blumenshine Landman

:lt

Need to approve.

1. NSL (surface & two close to PU boundary)

2. Directional Well

3. Crowing pretion line - med BLM approval

Require (1) Waiver from operator in sec 4

(2) Proof of BLM approval of provation unit

(3) Reason for 400 ac PD croning rue line

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

The thirty of

Form C-102 Revised 1-1-69

DISTRICT | P.O. Box 1980, Bobbs, NM 60840

OIL CONSERVATION DIVISION Santa Fe, New Mexico 8750 P.O. Box 2088

DISTRICT II P.O. Drawer DD. Arteria, NM 88810

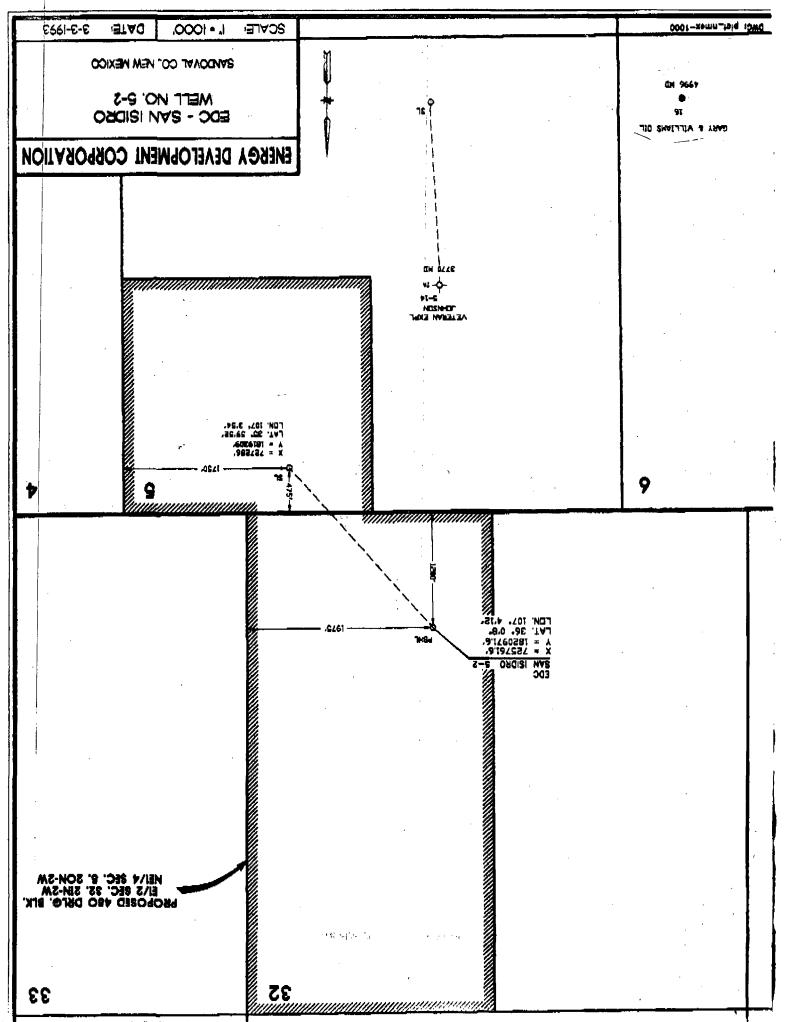
DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

must be from the outer houndaries of the section

ENERGY DEVE	LOPMENT CORPORAT	Lonse	SAN ISIDRO 5	Well No. 2
Letter Section	5 Township 20 N	ORTH	2 WEST NE	SANDOVAL
475 feet from the devel Elev. Pro	Month	175	O feet f	Dedicated Acresge:
Outline the acreage de			achure marks on the plet be ify the ownership thereof (b	elow.  both as to working interest and royalty).
mitization, force-poo	ling, etc.?	is dedicated to the well.		mers been consolidated by communitization
newer is "no" list of	owners and tract descrip	ctions which have actua	lly been consolidated. (Use	peverse side of munitisation, forced-pools
reise) or until a ne	on-standard unit, elimin	ating such interest, he	s been approved by the D	OPERATOR CERTIFICATION
			923.1' 	I hereby certify the the informational contained hereby to true and complete to best of my knowledge and belief.
<i>i. i. i.</i>			 	Signature  Printed Name
	<del> </del>	<b>_</b>	· <del> </del> <del></del>	Position
				Company
,	 			Date
				SURVEYOR CERTIFICATION  I hereby corridy that the well totation of
				on this plat was plotted from field note around surveys made by me or unde supervisors and that the same is true correct to the best of my knowledge bettef.
				Date Surveyed APRIL 2, 1993 Signature & Seal of
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SENT BY: XEROX Telecopier 7017; 7- 9-93; 2:35PM;



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#### ENERGY DEVELOPMENT CORPORATION

#### DRILLING PLAN

SAN ISIDRO WELL NO. 5-2

SANDOVAL COUNTY, NEW MEXICO

OBJECTIVE: Drill a vertical well (pilot hole) to the base of the Mancos Formation (+/-5300' TVD) to identify and evaluate prospective horizontal drilling targets. Plug well back and drill a horizontal leg a maximum of 2196' displacement in a direction of N 39° W. Estimated formation tops indicate a measured depth of 6,253' and TVD 4,384' at the end of the horizontal well. Actual vertical placement of the horizontal wellbore will depend on results of full core analyses and evaluation of logs from the vertical pilot hole.

#### ENERGY DEVELOPMENT CORPORATION

#### GENERAL DRILLING PROGRAM

#### SAN ISIDRO WELL NO. 5-2

#### SANDOVAL COUNTY, NEW MEXICO

- 1. Energy Development Corporation will build necessary road, approximately 135' x 260' location, appropriate cellar and reserve pits.
- 2. Move in and rig up Four Corners Drilling Company Rig No. 7.
- 3. Orill 12-1/4" hole to  $\pm$ /-350' using fresh water-gel.
- 4. Set 9-5/8" casing as detailed below or equivalent:

SETTING DEPTH	LENGTH	WEIGHT	<u>GRADE</u>	THREAD
350′	350 <i>′</i>	36.0#	K-55	ST&C

- 5. Cement to surface as per cementing recommendations.
- 6. WOC 8 hours minimum. Cut 9-5/8" casing and install 9-5/8" SOW x 10" 3000 psi WP braden head. Test head to 1000 psi.
- 7. Install 10" BOP 3000 psi Shaefer LWS double + annular + Grant rotating head. PU test plug and test annular to 2000 psi and rams to 3000 psi.
- 8. Drill out cement to float collar, test casing to 1500 psi, drill to float shoe and retest to 1500 psi.
- 9. Drill 8-3/4" hole to +/-3,600' into the top of the Mancos Formation using low solids nondispersed fresh water system. Mud logger to be operational before drillout.
- 10. Run Schlumberger logs per EDC Logging Program.
- 11. Run 7" new API inspected casing as detailed below or equivalent:

SETTING DEPTH	LENGTH	METCHI		GRADE	<u>THREAD</u>
3600′	3600′	23#	•	N-80	LT&C

- 12. RU cementing head and lines. C&CM. Cement 7" casing in two (2) stages per cementing company recommendation. RD cementers.
- 13. Raise BOP stack and set full weight of 7" casing on slips in braden head. Cut and bevel casing. Install 10" 3000 WP x 6" 3000 WP casing head and test to 1000 psi.
- 14. Install 10", BOP stack w/rotating head. Test annular to 2000 psi and rams to 3000 psi.
- 15. PU 6-1/4" bit and BHA. Install wear bushing. TIH.

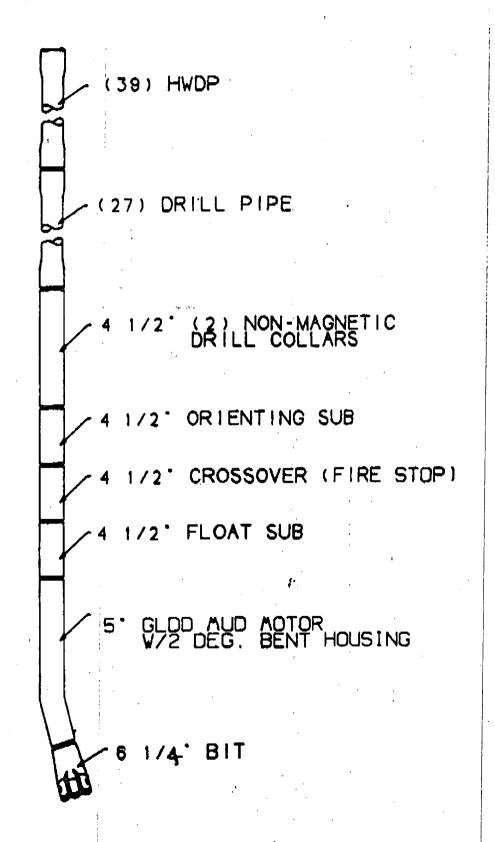
- 16. Drill out 7" DV tool, float collar and test casing to 1500 psi. Drill to float shoe and retest casing to 1500 psi.
- 17. Drill shoe and 5' of formation. CBU and test seat to 10.0 ppg EMW.
- 18. Drill 6-1/4" vertical hole to +/-5,300' with foam using MWD with Gammaray. Three (3) conventional cores will be taken in the Gallup "B", Gallup "C" and Semilla Zones.
- 19. Run Schlumberger logs per EDC Logging Program.

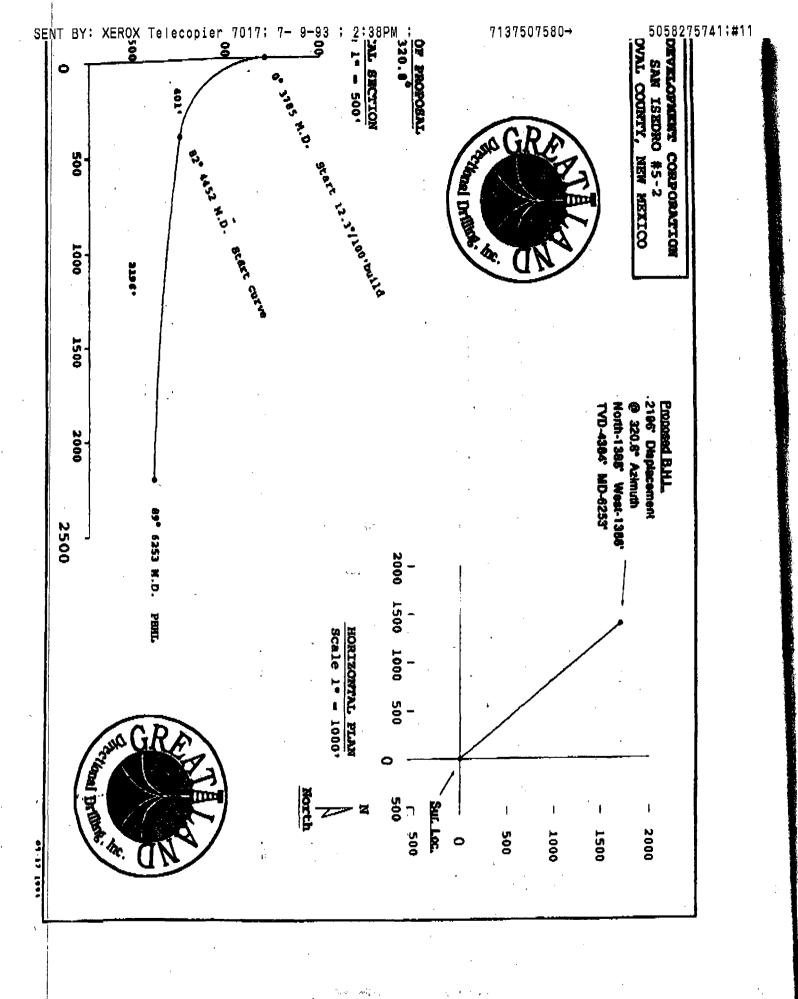
0857057212

- 20. Lay balanced cement plug 3,600-4,000'. WOC per cementers recommendation. PU 6-1/4" bit and dress plug to 3,785'.
- 21. PU horizontal drilling assembly with MWD and GR. Kick off and drill horizontal hole per Directional Program.
- 22. Run Schlumberger logs per EDC Logging Program.
- 23. Lay down drill string and BHA.
- 24. Run production tubing. ND BOP. NU tree and test. Release rig.

12:24

### ENERGY DEVELOPMENT EDC - SAN ISEDRO #5-2





7137507580→

# 7137507580

13:35

FRI JUL-09-93

#### GREAT LAND DIRECTIONAL DRILLING, INC.

FERGY DEVELOPMENT CORPORATION AN ISEDRO #5-2 ANDOVAL COUNTY, NEW MEXICO

lot Blevation: 0.00

lane of Vertical Section: N 39 12 W

#### Minimum Curvature Calculations

71375				TRUE	RECTA	NGULAR				
71	Measured	BORB -	HOLE	Vertical	COORD	INATES	VERTICAL	CLOS	URBS	
	Depth	Inclination	Direction	Depth	North/Sout	h Bast/West	SECTION	Distance	Direction	DLS
	Feet	Deg	Deg	Pest	Peet	Peet	Peet	Feet	Deg	Deg/100
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	tert 12.3°	/100°build							•	
o.	3815.00	3.69	320.80	3814.98	.75N	.61W	.96	.96	320.80	12.30
39.	3845.00	7.36	320.00	3844.83	2.99N	2.44W	3.86	3.86	320.79	12.30
2	3875.00	11.07	320.80	3874.44	6.72N	5.48W	8.67	8.67	320.80	12.30
••	3905.00	14.76	320.80	3903.68	11.91N	9.72W	15.37	15.37	320.00	12.30
က ၅	3935.00	18.45	320.60	3932.42	10.56N	15.13W	23.94	23.94	320.80	12.30
တ	3965.00	22.14	320.80	3960.55	26.62M	21.71W	34.35	34.35	320.80	12.30
7-	3995.00	25.83	320.80	3987.96	36.07N	29.41W	46.54	46.54		
••	4025.00	29.52	320.80	4014.52	46.86N	30.22W	60.47	60.47	320.80	12.30
7017;	4055.00	33.21		4040.13	58.96N	48.09W	76.08	76.08	320.80 320.80	12.30 12.30
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. <u>.</u>	4115.00	40.59	320.80	4088,08	86.86W	70.84W	112.08	112.08	320.80	12.30
ပ္ထ	4145.00	44.28	320.80	4110.22	102.54N	83.63W	132.32	132.32	320.80	12.30
<u></u>	4175.00	47.97	320.00	4131.01	119.30N	97.30W	153.94	153.94	320.60	12.30
	4205.00	51.66	320.00	4150.36	137.06W	111.78W	176.06	176.86	320.80	12.30
XEROX	4235.00	55.35	320.00	4168.20	100 000					
Ä	4265.00	59.04	320.60	4184.45	155.74N 175.20N	127.02W	200.97	200.97	320.80	12.30
	4295.00	62.73				142.96W	226.18	226.18	320.80	12.30
ΒΥ:	9477. <b>U</b> U	04.73	320.00	4199.05	195.59W	159.52W	. 252.39	252.39	320.80	12.30
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SENT										

EMERGY DEVELOPMENT CORPORATION SAN ISEORO #5-2
SANDOVAL COUNTY, NEW MEXICO EMERGY DEVELOPMENT CORPORATION

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7137507580→	4325.00	66.42	320.00	4211.92	216.50M	176.64W	279.48	279.48	320.00	12.30
_	4355.00	70.11	320.80	4223.03	230.17H	194.25W	307.34	307.34	320.80	12.30
	4385.00	73.80	320.00	4232.32	260.27N	212.27W	335.86	335.86	320.80	12.30
	4415.00	77.49	320.00	4239.76	202.79N	230.64W	364.92	364.92	320.80	12.30
	4445,.00	61.18	320.80	4245.31	305.63N	249.27W	394.39	394.39	320.80	12.30
	4451.67	62.00	320.60	4246.29	310.74N	253.44W	400.99	400.99	320.00	12.30
5	Start curve							200.33	320.00	14.30
:40PM	4481.67	82.12	320.80	4250.43	333.77N	272.22W	430.70	430.70	320.80	41
2	4511.67	62.24	320.80	4254.51	356.80N	291.00W	460,42	460.42	320.80	.41
	4541.67	62.37	320.80	4258.52	379.84N	309.79W	490.15	490.15	320.00	.41
9-93	4550.00	82.40	320.80	4259.63	386.24N	315.01W	490.41			.41
	333333					323102#	470.41	498.41	320.00	.41
_	Start curve									
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701	4610.00	82.64	320.00	4267.44	432.348	352.61W	557.90	557.90	320.00	-40
	4640.00	82.76		4271.25	455.40N	371.42W	587.66	587.66	320.00	.40
e L	4650.00	82.80	320.00	4272.51	463.09M	377.69W	597.58	597.58	320.80	.40
p.	Start Curve									• • • • • • • • • • • • • • • • • • • •
Telecopi	4680.00	62.92	320.80	4276.24	496.16N	396.50W	627.35	627.35	320.00	.40
	4710.00	83.04	320.80	4279.90	509.23N	415.32W	657.12	657.12	320.80	.40
×	4740.00	83.16	320.80	4283.51	532.31N	434.14W	686.91	686.91	320.80	.40
XEROX	4770.00	93.28	320.80	4287.05	555.40N	452.97W	716.70	716.70	320.80	.40
	400.00	83.40	320.80	4290.53	578.49N	471.80%	746.49	746.49	320.00	
ΒΥ:	4630.00	03.52	320.80	4293.95	601.59N	490.641	776.30	776.30	320.80	.40
									JAV. BU	.40
<u> </u>	4860.00	03.64	320.00	4297.30	624,69N	509.4014	006.11	006.11	320.00	
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7137507580→

; 2:40PM

8-63

SENT BY: XEROX Telecopier 7017;

EMERGY DEVELOPMENT CORPORATION SAN ISEDRO #5-2 SANDOVAL COUNTY, NEW MEXICO Page 3

			TRUB	RECTAN	GULAR	•			
Measured	BORB -	HOLE	Vertical	COORDI	NATES	<b>VERTICAL</b>	CLOS	URES	
Depth	Inclination	Direction	Depth	Horth/South	East/West	SECTION	Distance	Direction	DLS
Feet	Deg	Deg	Post	Feet	<b>Pee</b> t	Feet	Feet	Deg	Deg/100'
4890.00	83.76	320.80	4300.59	647.80M	528.33W	835.93	835.93	320.80	.40
4920.00	83.68	320.80	4303.82	670.91N	547.18W	865.75	865.75	320.80	.40
4950.00	84.00	320.80	4306.99	694.03N	566.04W	895.59	895.59	320.80	.40
4980.00	84.12	320.80	4310.09	717.15N	584.90W	925.42	925.42	320.80	.40
5010.00	84.24	320.80	4313.14	740.28N	603.76W	955.27	955.27	320.80	.40
5040.00	84.36	320.80	4316.12	763.41N	622.63W	985.12	985.12	320.80	.40
5070.00	84.48	320.00	4319.03	786.55N	641.50W	1014.98	1014.98	320.80	.40
5100.00	84.60	320.80	4321.89	809.70N	660.37W	1044.04	1044.84	320.00	.40
5130.00	84.72	320.80	4324.68	832.94N	679.25W	1074.71	1074.71	320.80	.40
5160.00	84.94	320.80	4327.41	855.99N	698.13W	1104.59	1104.59	320.80	.40
5190.00	84.96	320.80	4330.08	679.15N	717.02W	1134.47	1134.47	320.80	.40
5220.00	85.08	320.00	4332.68	902.31M	735.91W	1164.36	1164.36	320.80	.40
5250.00	85.20	320.60	4335.22	925.48N	754.80W	1194.25	1194.25	320.80	.40
526u.00		320.80	4337.70	948.65N	773.70W	1224.15	1224.15	320.80	.40
5310.00	85.44	320.90	4340.13	971.82N	792.60M	1254.05	1254.05	320.80	.40
5340.00	85.5 <del>6</del>	320.60	4342.47	994.99N	811.50W	1283.96	1283.96	320.80	.40
5370.00	85.60	320.80	4344.76	1018.10N	830.4GW	1313.87	1313.87	320.80	.40
5400.00	85.80	320.80	4346.99	1041.36N	849.31W	1343.79	1343.79	320.80	.40
5430.00	85.92	320.80	4349.15	1064.55N	868.22W	1373.71	1373.71	320.00	.40
5460.00	96.04	320.00	4351.26	1087.74N	887.14W	1403.64	1403.64	320.80	.40
5490.00	86.16	320.80	4353.30	1110.93N	906.05W	1433.56	1433.56	320.80	.40
5520.00	86.28	320.00	4355.28	1134.138	924.97W	1463.50	1463.50	320.80	.40
5550.00	86.40	320.80	4357.19	1157.33N	943.90W	1493.44	1493.44	320.80	.40
5800.00	96.52	320.80	6359.04	1160.54H	962.62W	1523.30	1523.30	320.00	.40

P. 15

SENT BY: XEROX Telecopier 7017; 7-

9-93

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MP6'SECT

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Inclination

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89.00

Pinal Station Closure Distance:

2195.84 Peet; Direction: N39 12W

320.80 4384.66	Deg Feet	Direction Depth	HOLE Vertical	TRUE
1701.65W	7eet	Morth/Sout	C 0 0 % D	RECTA
1387.83W	Poet Poet	h East/West	INATES	RECTANGULAR
2195,84	<b>Pee</b> t	SECTION	VERTICAL	
2195.84 320.80	Peet	Distance	C L O S	
320.80	Deg	Direction	CLOSURES	
	Deg/100	STIC		



July 9, 1993

#### VIA FAX

The Gary-Williams Company 370 17th Street Suite 5300 Denver, CO 80203

Attention: Mr. Craig Ambler

RE: SAN ISIDRO WELL NO. 5-2 WAIVER SAN ISIDRO (SHALLOW) UNIT SANDOVAL COUNTY, TEXAS

Dear Mr. Ambler:

As you are aware, Energy Development Corporation intends to drill the San Isidro Unit Well No. 5-2 as a Horizontal well with a surface location of 1750' FEL x 475' FNL of Section 5, T20N-R2W, N.M.P.M. and a bottom-hole location of 1975' FEL x 1200' FSL of Section 32, T12N-R2W, N.M.P.M., Sandoval County, New Mexico. The proposed well will provide for a 5300' vertical wellbore and a 2200' horizontal displacement. Attached herewith is a plat of the proposed drilling block and location of the well.

As the operator of Section 4, T2ON-R2W, N.M.P.M., being an offset tract outside of the unit boundaries, EDC respectfully requests your waiver of objection to the proposed San Isidro Unit Well No. 5-2 insofar as:

- 1. The proposed well is a non-standard location;
- 2. The proposed well is scheduled as a horizontal test well;
- 3. The proposed well is scheduled to cross the section line between Section 5, T20N-R2W and Section 32, T21N-R2W, N.M.P.N.

Assuming you have no objection, please indicate your waiver of objection by executing this letter in the space indicated and sending one telecopy of same to my attention at (713) 750-7580, as well as one telecopy to Mr. Larry Van Ryan at the NMOCD at (505) 827-5741.

**Energy Development Corporation** 

A subsidiary of Public Service Enterprise Group incorporated

1000 Louislana, Sulte 2900, Houston, Texas 77002 (713) 750-7300

12:28

SENT BY: XEROX Telecopier 7017; 7- 9-93; 2:42PM;

The Gary Williams Company July 9, 1993 Page Two

Thank you for your assistance in this matter.

Very truly yours,

MACONICA SPACE

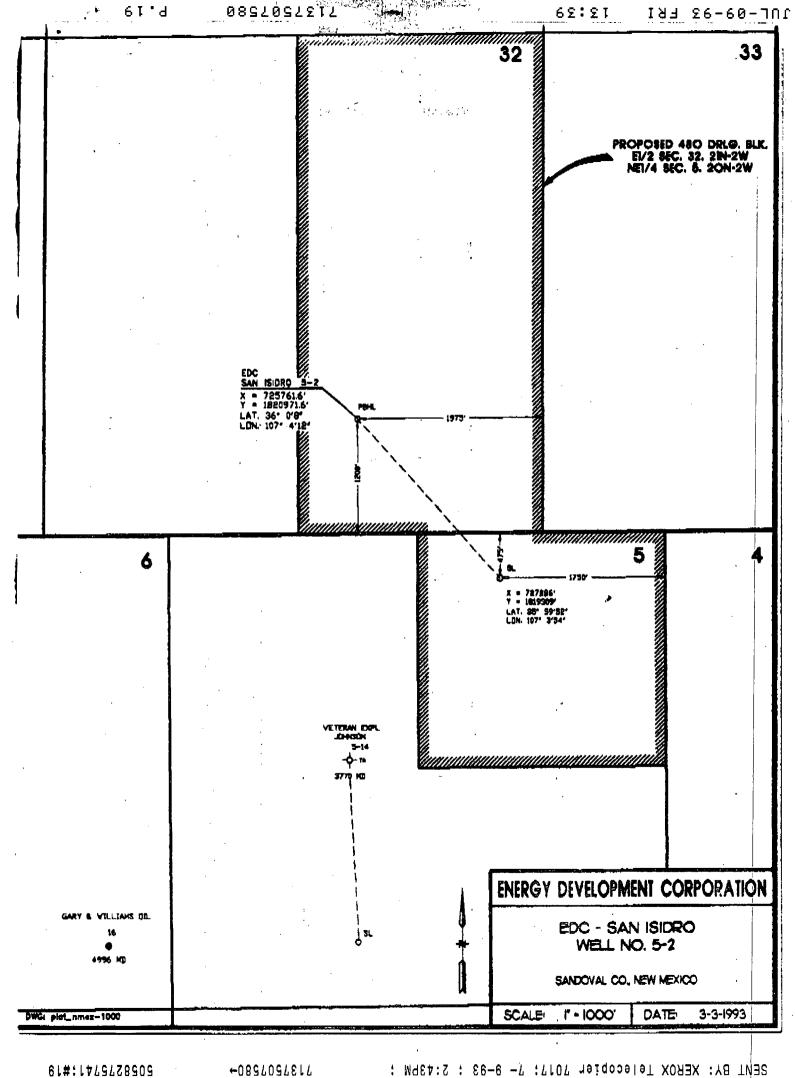
Mark Blumenshine Landman

WMB/pma

THE GARY WILLIAMS COMPANY HEREBY WAIVES OBJECTION TO THE SAN ISIDRO WELL NO. 5-2 AS INDICATED HEREINABOVE THIS 9TH DAY OF JULY, 1993.

THE GARY WILLIAMS COMPANY

Craig Ambler



# TELECOPY TRANSMITTAL FORM ENERGY DEVELOPMENT CORPORATION

1000 Louisiana Street, Suite 2900 Houston, Texas 77002

COMPANY:	R. CAMY L		T:	1me:	
		505-827	-5741		•
		SHARE	_		750-7585
Message:				m Rygn	Tungo, ATTECY
	000-0-70-46-6-0				

(713) 750-7580

THE NUMBER SHOWN ABOVE

The information contained in this FAX is confidential and/or privileged. This FAX is intended to be reviewed initially by only the individual named above. If the reader of this TRANSMITTAL PAGE is not the intended recipient or a representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this FAX or the information contained herein is prohibited. If you have received this FAX in error, please immediately notify the sender by telephone and return this FAX to the sender at the above address. Thank you.

750-7300 OR

SENT BY: XEROX Telecopier 7017; 7-12-93; 12:06PM;

TELECOPY NUMBER SENT PROK:

CALL (713)

ANY QUESTIONS.

1000 (cutstana, suite 2500, Houston, Texas 77002 (2+5)

Energy Development Corporation Energy Development Corporation

. IATE-TES (802) as GOOMM and as nave cav same to my actendade at (713) 750-75\$0, as well as one telecopy to Mr. Estry executing this letter in the space indicated and sending on telecopy of yearming Nor year so opjection, please indicate your waiver of objection by

M.M.P.W. .WSK-Mist .St noivosa bna WSK-NOST .a noitoed newwied enti nolthes ent secto of belubedos el liew besogning any

The proposed well is scheduled as a horizontal test well?

incitated brabhata-non a at liew beacquag adT

outside of the unit boundaries, BDC respectfully requests your waiver of objection to salver as insolated and the proposed far island white well no. 5-5 insolated and objection to the proposed far island white well not be added to the proposed far island. the operator of section 4, N.S.M.N. N.M.P.N.N. to totalege and sA

a plat of the proposed drilling block and location of the well. vertical wellbore and a 2200' horizontal displacement. Attached harawith is 1750' FELK 478' FML of Section 3, T20M-R2W, K.M.P.W. and a bottom-hole location of 1978' FML will will provide for a 5300' Sandoval well provide for a 5300' As you are swere, Brergy Development Corporation intends to drill the san Island to Unit Well No. 8-2 as a Morisontal Well with a surface losstion of

Besr Mr. Ambler:

SAMPOVAL, COUNTY, THENS TIMA (MOTTWES) OFFISI MYS SAN ISIDAO WELL NO. 8-2 WAIVER

Attention: Mr. Chaig Ambler

Denver, co. 80203 DOSS BATTE

340 TLEP BERGOR THE GELL-MITTIERS CONDENT

YES ESE

2417 8' 1993



SENT BY: XEROX Telecopier 7017; 7-12-93 ;12:07PM; SENT BY: XEROX Telecopier 1011; 1-9-88; 12:07PM;

THE GREAT WILLIAMS COMPANY

2-3 MBIT NO' 2-5 YE INDICHES METANGON FRIE SIE DEK ON ANTE NO' 1845. THE GENT MITTIFMS CONSENT METAND METANGON FRIE SIE DEK ON ANTE NO'

AME LEAN

Vary truly yours, Mark Blumenahas

Thenk you for your seststends in this matter.

Pede Imp 1877 P. 1993 IDS Germ Milliems Combeth

#### **ENERGY DEVELOPMENT CORPORATION**

1000	LOUIS	SIAN	A, STE.	. 2900
HOUS	STON	TX	A, STE. 77002	

TO: LARRY VAN RYAN	
COMPANY: NHOCD	_
TELECOPY NUMBER: 505 827 5741	
FROM: MANZY GERDING	•

MESSAGE: HARD COFT TO FOLLOW

"The information contained in this FAX is confidential and/or privileged. This FAX is intended to be reviewed initially "by only the individual names above. If the reader of this TRANSMITTAL PAGE is not the intended recipient or a "representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this FAX for the information contained herein is prohibited. If you have received this FAX in error, please immediately notify the sender by telephone and return this FAX to the sender at the above eddress. Thank you.

PLEASE CALL 713/750-7303 IF PROBLEMS SENT FROM: 713/750-7501

FAX Pobert Kent (BLM) Mark Gerding 713-750-7581

to Creologic reason for NSP crossing section line.

Visited of Robert Kent (BLM) they will approve well.

Jugarosto



July 14, 1993

Broke Garage

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504-2088 Attn: Larry Van Ryan Re: San Isidro Well #5-2 Rio Puerco (Mancos) Pool Sandoval County, NM

#### Gentlemen:

As per special operating rule 2(d) for the San Isidro (shallow) unit, Energy Development Corporation requests administrative approval to cross governmental section lines, drill a horizontal well, and drill from an irregular location. The reasons for this request are as follows:

- 1. The horizontal portion of the well is to follow a seismic line to maintain geologic control. Both the surface and bottom hole locations are located on the seismic line:
- 2. The horizontal portion of the well will penetrate the Mancos formation at a flexure point where it is calculated to have a maximum concentration of natural fractures.

Please advise if additional information is required.

Sincerely

Mark S. Geoding

Supervisor, Reg. and Environ. Affairs

**Energy Development Corporation** 

A subsidiary of Public Service Enterprise Group Incorporated

1000 Louisiana, Suite 2900, Houston, Texas 77002 (713) 750-7300

Energy Development Corpoiration 1000 Louisiana ,Suite 2900 Houston, Texas 77002

Attention: Mark Blumenshine

#### Gentlemen:

Reference is made to your application dated July 9, 1993 for a non-standard oil well location, for approval to intentionally deviate a well (drill a horizontal well) and to form a 480 acre proration unit consisting of contiguous quarter sections from more than one government section. The subject well being your San Isidro 5 Well No. 2 to be located 475 feet from the North line and 1750 feet from the East line (Unit B)of of Section 5, Township 20N, Range 2W, NMPM, Rio Puerco- Mancos Pool, Sandoval County, New Mexico. The NE/4 of said Section 5 and the E/2 of Section 32, Township 21N, Range 2W, NMPM shall be dedicated to the well forming a non-standard 458.75 acre spacing and proration unit.

#### The Division Director Finds That:

- (1) The well is located in the San Isidro (Shallow) Unit which is governed by special rules and regulations as stated in Orders No. R-9330 and R-9330-A.
- (2) The well is located on the edge of the subject unit and requires that the offset operators be notified of requests for administrative approvals.
- (3) A waiver from Gary-Williams Company, the operator of the offsetting acreage, was submitted.
- (4) The geologic reason for the non-standard proration unit, contiguous quarter sections from more than one governmental section, is requested so that the proposed wellbore will follow the seismic line, which is the control for defining the area of maximum concentration of fractures.
- (5) The surface location of the well is non-standard and the horizontal portion of the well will be nearer than 660 feet from the outer boundary at one point.

#### It Is Therefore Ordered That:

- (1) The non-standard surface location and wellbore location are approved.
- (2) The drilling of a horizontal well is appoved.
- (3) The non-standard proration unit is approved.

(4)

A TOTAL CONTRACTOR OF THE STATE		ers in the empty with	
Attention:	Provincia		
	Ad	ministrative Order DD- <u>85</u>	
Dear	R-9330 Kule 8 (立) ule 111 (c), (d) and (e)	Energy Development C	orf.
7-9-93, for a	uthorization to directi	onally drill its proposed	
SANISIDO NO. 5-2 Well	, SANDOVA COI	inty, New Mexico.	
The Division Director Finds That:		order 8-9339.	Rule B(B)
(1) The application has be (e) of the Division Ge	•	•	
(2) Satisfactory informatio		all offset operators have been	
duly notified;		er i Maria Garaga Garaga	
(3) The applicant has pr prescribed in General	esented satisfactory evi Rule 111 will be met; an	dence that all requirements	
(4) No objections have been rule.	en received within the wa	ting period prescribed by said	

JUI 1 4 1998

ESPIART

MERCHE CON EXION COLUMN CONTRACTOR

## Submit to Appropriate

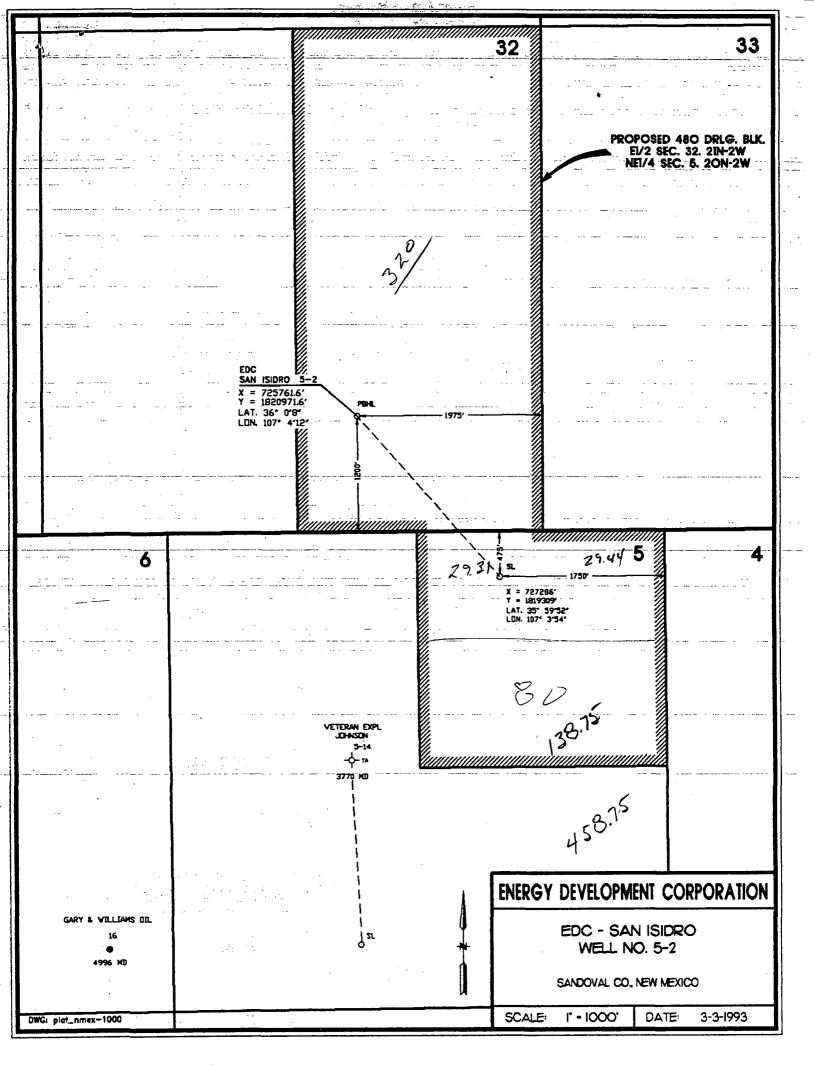
## State of New Mexico

Form C-101

· 在要推进各位的。

District Office State Lease — 6 copies	Energy	Energy, Minerals and Natural Resources Department		Revised 1-1-89	
Fee Lease - 5 copies  DISTRICT I  P.O. Box 1980, Hobbs, N		CONSERVATIO P.O. Box 208		API NO. (assigned by OC	
DISTRICT II Santa Fe, New Mexico 87504-2088 P.O. Drawer DD, Artesia, NM 88210				5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Azi				6. State Oil & Gas Lease	TATE FEE X
	·	TO DRILL, DEEPEN, C	NO DELLIC BACK	<u> </u>	
la. Type of Work:	TION FOR PENINT	TO DRILL, DEEPEN, C	A PLUG BACK	7. Lease Name or Unit A	Orement Name
DRILL RE-ENTER DEEPEN PLUG BACK			· .	SM ISIDRO 6	
b. Type of Well: OIL GAS WELL WELL [	OTHER	SINGLE	MULTIPLE ZONE	->AH 1310K	.0 0
2. Name of Operator ENERGY D	EVELOPMENT	CORPORATION	,	8. Well No.	
3. Address of Operator		Housens Tx 770		9. Pool name or Wildcat MANCOS	
4. Well Location —		1	13·L	1 1111111111111111111111111111111111111	
Unit Letter	5 : <u>475</u> F∞	From The NORTH	Line and 175	Feet From The	EAST Line
5 Section 2	D HORTH TOWN	nship 2 WEST Ran	ge	NMPM SALLD	ONA L. County
		10. Proposed Depth らてらろ N		Formation AALCOS	12. Rotary or C.T. ROTARY
13. Elevations (Show wheth	ur DF, RT, GR, etc.) GR	14. Kind & Status Plug. Bond	15. Drilling Contracto		Date Work will start 12 (93
17.	Pi	ROPOSED CASING AN	D CEMENT PROG	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
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B3/4"	7"	23,0*	<b>3600</b> '	740	SURFACE
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	• .,				
IN ABOVE SPACE DES		RAM: IP PROPOSAL IS TO DEEPEN	OR PLUG BACK, GIVE DATA C	N PRESENT PRODUCTIVE ZONE AI	ND PROPOSED NEW PRODUCTIVE
·	<del></del>	te to the best of my knowledge and b	C 202 9 E	W Accours	7/2/02

(713) TELEPHONE NO. 150-7536 HARL S. GERDING (This space for State Use) CONDITIONS OF APPROVAL, IF ANY:



### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

		,					
Operator ENERG	SY DEVELOPMEN	IT CORPORATION	Lease	SAN ISI	DRO 5		Well No.
Unit Letter	Section	Township	Range			County	
В	5	20 NORTH	1	2 WEST	NMPM	1	SANDOVAL
Actual Footage Loc	eation of Well:						<del></del>
475 fee	t from the NO	RTH line and	1750		feet_from	the EAS	line
Ground Level Elev	1 11-		Pool	PUERO	_		Dedicated Acreage:
6923.11	LMM L	<u> </u>	15/0	5 FUER	<u> </u>	· .	480 Acres
1. Outline the ac	creage dedicated to	the subject well by colored p	encil or hack	ure marks on t	he plat below.	•	
2. If more than	one lease is dedicate	ated to the well, outline each	and identify	the ownership	thereof (both	as to workin	g interest and royalty).
unitization, fo	orce-pooling, etc.?				of all owners	been consol	idated by communitization,
∐ Yes	∐ No	If answer is "yes" type o	f consolidati	on			<del></del>
this form necess	ery	nd tract descriptions which h			·		
		the well unit all interest rd unit, eliminating such in					nitization, forced-pooling,
<del></del>	<del></del>	<del></del>		<del></del>	<del></del>	OPERAT	OR CERTIFICATION
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# Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies

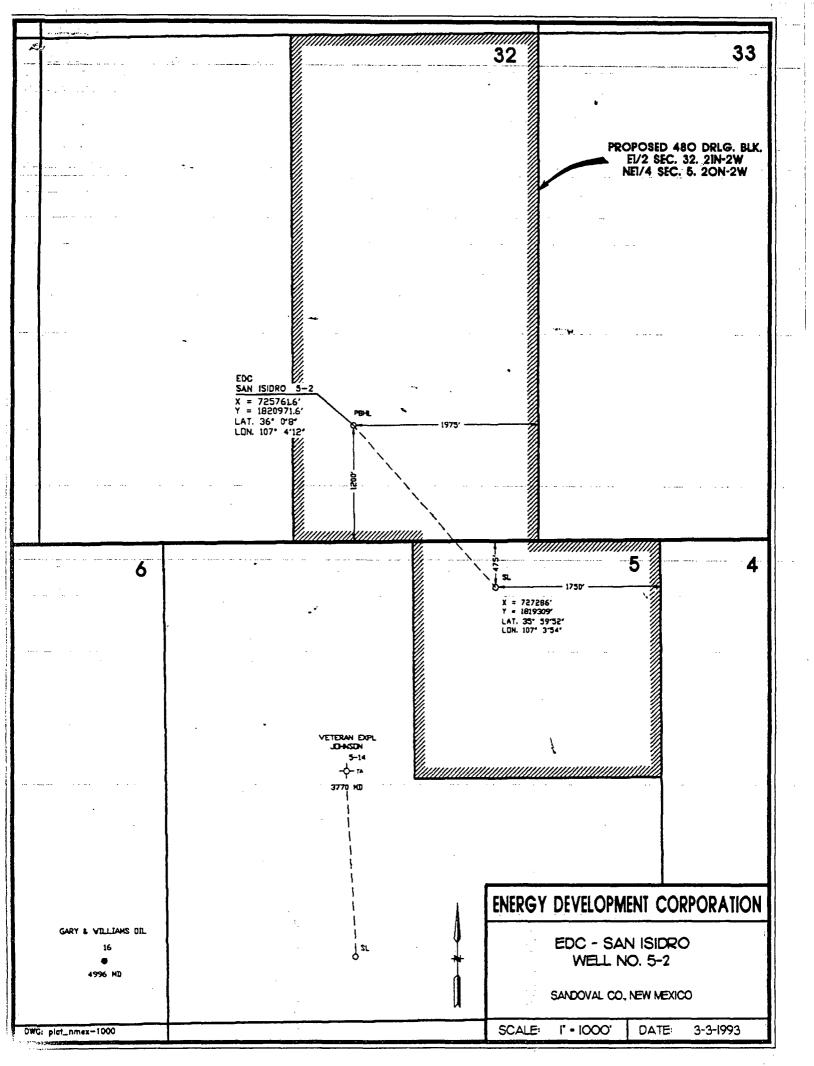
CONDITIONS OF AFFROVAL, IF ANY:

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-89

, Minerals and Natural Resources Department Revise

DISTRICT I		CONSERVATIO P.O. Box 20		API NO. ( assigned b	y OCD on New Wells)
P.O. Box 1980, Hobbs, N	uvi 6624U	Santa Fe, New Mexico			
DISTRICT II P.O. Drawer DD, Artesia	, NM 88210		2,20, 2000	5. Indicate Type of	STATE FEE
DISTRICT III 1000 Rio Brazos Rd., Azt	lec, NM 87410			6. State Oil & Gas	
	TION FOR PERMIT	TO DRILL, DEEPEN,	OR PLUG BACK		
la. Type of Work:		Y		7. Lease Name or U	Init Agreement Name
b. Type of Well: OIL GAS WELL WELL [	⊥ ⊠ RE-ENTI	ER DEEPEN SINGLE	PLUG BACK MULTIPLE ZONE	Sm Isi	dro 6
2. Name of Operator  ENERGY D	EVELOPN FAIT	CORPORATION		8. Well No.	
3. Address of Operator	· · · · · · · · · · · · · · · · · · ·	\		9. Pool name or Wil	
1000 Louisian	MA STE 2900	HOUSTON IX TTE	202	MAHCOS	
4. Well Location Unit Letter	3 : 475 Feet	From The NORTH	Line and 1750	Feet From Ti	he EAST Line
5 Section 2	O HORTH TOW	nship 2 WEST Ra	nge	NMPM SAI	UDOVA L County
		10. Proposed Depth 6253 A	11.11 11.1	Formation ALCOS	12 ROLLY OF C.T. ROTARY
13. Elevations (Show wheth	er DF, RT, GR, elc.) GR	14. Kind & Status Plug. Bond	15. Drilling Contractor FOUR CORNE		Prox. Date Work will start
17.	Р	ROPOSED CASING AN			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEME	NT EST. TOP
12 3/4"	958"	36.0#	350'	195	SURFACE
B3/4"	7" .	23,0#	3600'	740	SURFACE
HOLE TO A TO INTERVALS UCCEMENT PLU AT 3785', TI	DEPTH OF APPROVED BY WILL BE CORE WHE WEITH BE	D FOR EVALUA PLACED IN THE	o'TVD. THE ATION. FOLLOW OPEN HOLE S SE KICKED OF	MAMCOS'T SIMOTHE E ECTION AMO F AT THAT	B', 'C', AND SEMILL NALLIATION, A DIRECTED OFF POINT. APPROXIM
IN ABOVE SPACE DESC ZONE, GIVE BLOWOUT PREVI				J BODEEDNY BOACH KYTTUE 70	
I hereby certify that the difference SIGNATURE  TYPE OR PRINT NAME	ENTER PROGRAM, IF ANY.	SRAM: IF PROPOSAL IS TO DEEPER  THE to the best of my knowledge and  THE  S. GERDING	belief.	N AFFAIRS	DATE 7/8/93  TELEPHONE NO. 750-7936
SIGNATURE	ENTER PROGRAM, IF ANY.	nic to the best of my knowledge and ππ	belief.		DATE 7 (8 93 (715)



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

ويومين وودو ووياني مناورون والأراث والأناف والمرابع المكافئة

#### DISTRICT I P.O. Box 1980, Hobbs, NM 68240

OIL CONSERVATION DIVISION P.O. Box 2088

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

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410

All Distances must be from the outer boundaries of the section

Santa Fe, New Mexico 87504-2088

Operator ENERO	CY DEVELOPMEN	T CORPORATION	Lease	SAN I.SIDI	RO 5		Well No.
Unit Letter	Section	Township	Range	<del></del>		County	<del></del>
В	5	20 NORTH		2 WEST	имрм		SANDOVAL
Actual Footage Loc	No	377 I	4750			E. 6	-
475 fee Ground Level Elev	t from the NOI		1750		feet from	the EAS	
6923.1'		COS	I RIC	Puerce	<b>-</b>	· u	Dedicated Acreage: Acres
		the subject well by colored	pencil or hach	ure marks on the	plat below.		100 100
2. If more than	one lease is dedica	ted to the well, outline eac	h and identify	the ownership the	ereof (both	as to workin	g interest and royalty).
	one lease of differ orce-pooling, etc.?	ent ownership is dedicated	to the well, he	we the interest of	all owners	been consoli	idated by communitization.
Yes	☐ No	If answer is "yes" type	of consolidation	on		·	
this form necess	агу	d tract descriptions which					
		the well unit all interest dunit, eliminating such i					utization, forced-pooling,
				<del> </del>		OPERAT	OR CERTIFICATION
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ł	j		i			correct to th	is that the same is true and ie best of my knowledge and
	1		l		L	belief.	
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# Submit to Appropriate

### State of New Mexico

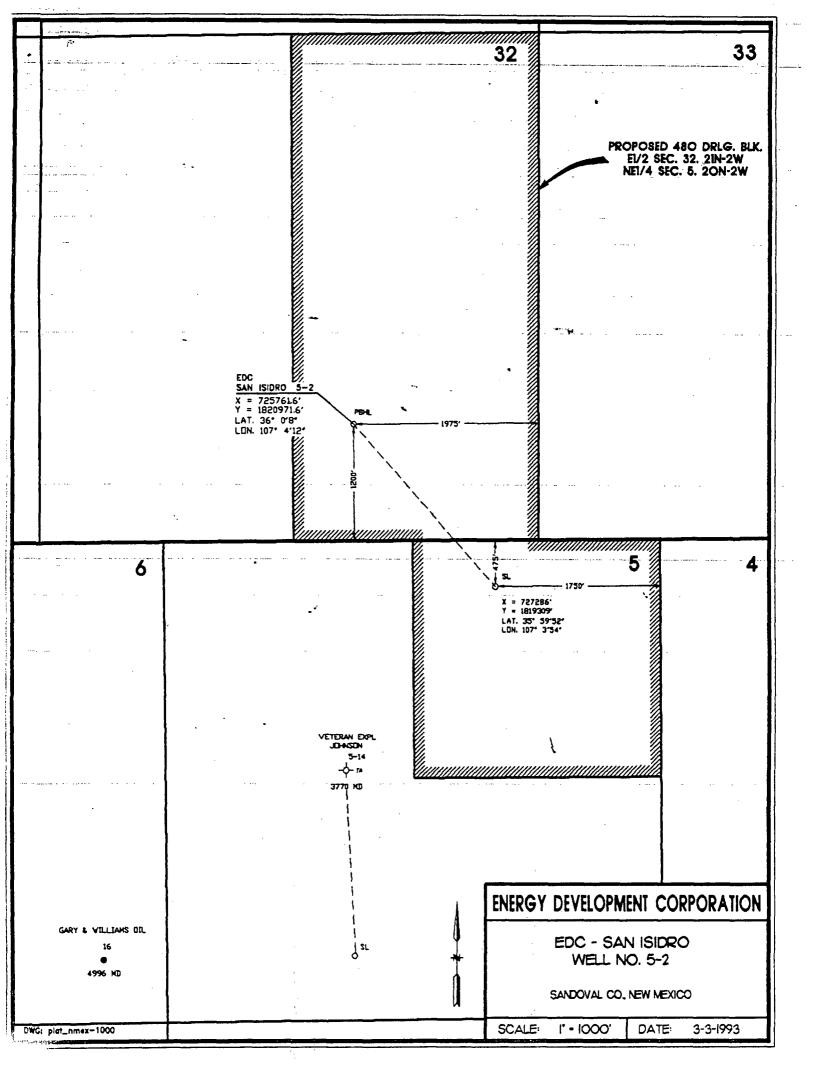
Form C-101

Surface

State Lease — 6 copies Fee Lease — 5 copies	energy, Munerals and Matural R	esources Department		1	Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. Box 20	88	API NO. ( assi	gned by OCD on I	New Wells)
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Ty	pe of Lease STATE	☐ FEE ☒
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410			6. State Oil &	Gas Lease No.	
	PERMIT TO DRILL, DEEPEN,	OR PLUG BACK			
la. Type of Work:			7. Lease Nam	e or Unit Agreem	ent Name
b. Type of Well:	RE-ENTER DEEPEN	PLUG BACK	Sw	ISIDRO	S
OIL GAS WELL OTHER	SINGLE ZONE	ZONE			
2. Name of Operator  ENERGY DEVELOPM	ENT CORPORATION		8. Well No.		
3. Address of Operator 1000 LOUISIANDA "STE 1	1	002	9. Pool name MAHC		
1. Well Location B: 479	Feet From The NORTH	Line and 1750	Feet Fi	rom The EA	ST Line
5 Section 20 HORTH	Township 2 WEST Ra	nge !	VMPM	SANDONA	County
	10. Proposed Depth 6253 N		ormation ALCOS		OTARY
3. Elevations (Show whether DF, RT, GR, GR, GR	etc.) 14. Kind & Status Plug. Bond	15. Drilling Contractor FOUR CORNE		6. Approx. Date, W	ork will start
7.	PROPOSED CASING AN				
SIZE OF HOLE SIZE OF C	ASING WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
123/4" 958	36.0#	3501	195		SURFACE

EHERGY DEVELOPHENT CORPORATION PROPOSES TO DRILL A VERTICAL PILOT HOLE TO A DEPTH OF APPROXIMATELY 5300' TVD. THE HANCOS 'B', 'C', AND SEMILLA INTERVALS WILL BE CORED FOR EVALUATION. FOLLOWING THE EVALUATION, A COMELIT PLUG WILL BE PLACED IN THE OPEN HOLE SECTION AND DIRECTED OFF AT 3785' THE VEICTICAL SECTION WILL BE KICKED OFF AT THAT POINT, APPROXIMATEL

2196' OF HORIZONTAL HOLE WILL BE DRIV	LED IN THE DIRECTION OF 1139	1.2° W.
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, # ANY.	EEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZO!	NE AND PROPOSED NEW PRODUCTIVE
I hereby certify that the information above is true and complete to the best of my knowledge SKINATURE  TYPE OR PRINT NAME  HARK S. GERDING	TITLE SUPRES & ENU AFFAIRS	DATE 7 8 93 (713) TELEPHONE NO. 150-7536
(This space for State Use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE



### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

#### DISTRICT I P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088

DIGEDICE II

Santa Fe, New Mexico 87504-2088

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

						100 01 010 01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Operator ENERGY	DEVELOPMEN	T CORPORATION	1	Lease	SAN	ISIDRO 5			Well No.	
Unit Letter Se	ection	Township	1	Range				County		
В	5	20 NOR	TH		2 WES	T NM	РМ	<u></u>	SANDOVAL	
Actual Footage Locati	NOT	3T) /		1750				F4C	•	
	om the NOF		<del></del>	1750		feet	Lom	the EAS		
Ground Level Elev.	Producing For		l'	Pool KIC	Ruse	71-			Dedicated Acreas	€:
6923.1'	MALL							<u> </u>	460	Acres
1. Outline the acres	age dedicated to	the subject well by	colored per	icil or hach	ure marks o	n the plat b	elow	7.		
2. If more than on	e lease is dedica	ted to the well, ou	tline each a	ind identify	the ownersh	up thereof (1	oth	as to workin	ng interest and roy	alty).
<ol> <li>If more than on unitization, force</li> </ol>		ent ownership is de	edicated to	the well, ha	ve the inter	est of all ow	ner	s been consol	idated by commun	itization,
Yes	☐ No	If answer is "ye	s" type of	consolidatio	·	<del></del>				
If answer is "no" li		d tract description	s which hav	re actually	been consol	idated. (Use	rev	erse side of		
No allowable will otherwise) or until	be assigned to								nitization, forced	-pooling,
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							Ļ	- 100 Page	RONALD JAHOSO	s. 7977
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## Submit to Appropriate

12 3/4"

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### State of New Mexico

SURFACE

SURFACE

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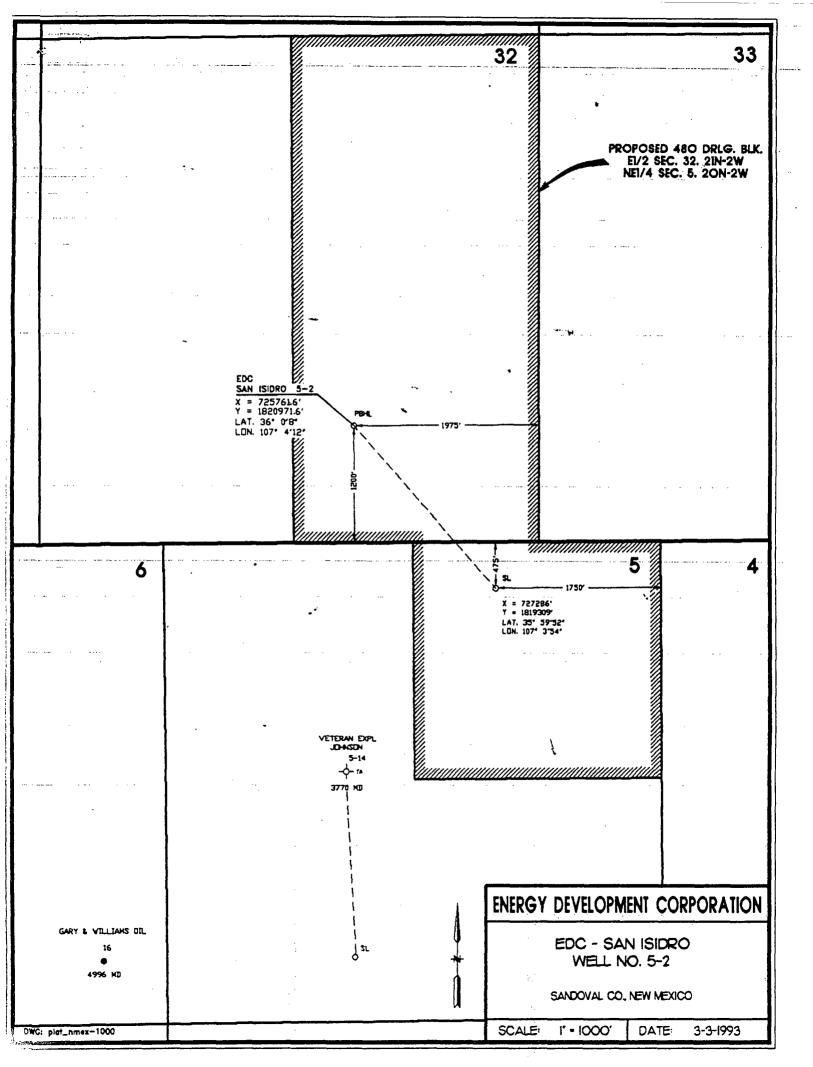
State Lease — 6 copies For Lease — 5 copies	nergy, Minerals and Natural Resol	•		Revised 1-1-89		
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	DIL CONSERVATION P.O. Box 2088		API NO. (assigned by OCD on New Wells)			
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico 87	504-2088	5. Indicate Type of Leas S	TATE FEE 🔀		
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410			6. State Oil & Gas Lease	No.		
	MIT TO DRILL, DEEPEN, OR	PLUG BACK				
la. Type of Work:			7. Lease Name or Unit A	igreement Name		
b. Type of Well:	ENTER DEEPEN P	LUG BACK	SW ISIDE	80 <b>6</b>		
OIL GAS WELL OTHER	SINGLE ZONE	MULTIPLE ZONE				
2. Name of Operator ENERGY DEVELOPMEN	UT CORPORATION		8. Well No. 2			
3. Address of Operator 1000 Louisiansa STE 290	oor x Tagrecol on	2	9. Pool name or Wildcat MAH COS			
4. Well Location B: 475	Feet From The HORTH	Line and 1750	Feet From The	EAST Line		
5 Section 20 NORTH	Township 2 WEST Range	N 	APM SAND	ONA L County		
	10. Proposed Depth 6253 ND		mation NLCOS	12. Rotary or C.T.		
3. Elevations (Show whether DF, RT, GR, etc.) 6923. GR	14. Kind & Status Plug. Bond	15. Drilling Contractor FOUR CORNER	16. Approx.	ROTARY Dele Work will stan 2 (93)		
7.	PROPOSED CASING AND					
SIZE OF HOLE SIZE OF CAS			SACKS OF CEMENT	EST. TOP		

EMERGY DEVELOPHENT CORPORATION PROPOSES TO DRILL A VERTICAL PILOT HOLE TO A DEPTH OF APPROXIMATELY 5300' TVD. THE HANCOS 'B', 'C', AND SEMILLA INTERVALS WILL BE CORED FOR EVALUATION. FOLLOWING THE ENALUATION A COMERT PLUG WILL BE PLACED IN THE OPEN HOLE SECTION AND DRESSED OFF TEL

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• •	• •	
AT 3785' THE VERTICAL SECTION WILL	BE KICKED OFF AT THAT	POINT. APPROXIMA
2196' OF HORIZONTAL HOLE WILL BE DRIL	red in the direction of his	1.2° W.
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO D ZONE. GIVE BLOWOUT PREVENTER PROGRAM, # ANY.	EEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZO	NE AND PROPOSED NEW PRODUCTIVE
I hereby certify that the information above is true and complete to the best of my knowledge SKINATURE	TITLE SERVE & ENV AFFAIRS	DATE 7/8/93
TYPE OR PRINT NAME HARK S. GERDING		(713) TELEPHONE NO. 750-7536
(This space for State Use)	•	
APPROVED BY	тт.в	_ DATE
CONDITIONS OF AFFROVAL, IF ANY:		
	•	
·		



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 I P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

Operator ENER	GY DEVELOPMEN	NT CORPORATION	Lease	SAN ISID	RO 5		Well No.
Unit Letter	Section	Township	Range	<del>~~</del>		County	
В	5	20 NORTH		2 WEST	NMPM		SANDOVAL
Actual Footage Lo					·		
475 <sub>fee</sub>		RTH line and	1750		feet from	the EAST	line
Ground Level Elev	1	- <del>-</del>	Pool	<b>7</b>			Dedicated Acreage:
6923.11	HAL	1COS	1<10	s rueru	O	·u	480 Acres
1. Outline the a	crease dedicated to	the subject well by colored	pencil or hach	ure marks on the	plat below.		
	· ·	ated to the well, outline each	•		•		g interest and royalty).
	one lesse of differ force-pooling, etc.?	rent ownership is dedicated t	the well, he	ve the interest o	f all owners	been consoli	idated by communitization,
Yes Yes	☐ No	If answer is "yes" type	of consolidation	on	<del></del>		
If answer is 'ne	o" list of owners a	nd tract descriptions which	have actually	been consolidate	d. (Use reve	rse side of	
this form necess		de duct descriptions which	dave details	DOCE COMBONIGAC	4. (000 1010	isc side of	
		the well unit all interes	ts have been	consolidated (b	y commun	itization, ur	itization, forced-pooling,
otherwise) or u	ıntil a non-standa	rd unit, eliminating such i	nterest, has b	een approved by	the Division	n.	
						OPERAT	OR CERTIFICATION
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77174					<del></del>		CARY LONES, 7977
0 330 660	990 1320 1650	1980 2310 2640 20	00 1500	1000 500	6 F		SSIONAL

Received	
Release Date	<del></del>

April 10, 1990

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E D + C	
Energy Renloquent Corporation	
Suit 2900	
Houton, Telas 7700 Z	
Attention: Mark Blumenshine	
	Administrative Order NSL-
Dentlemen	
Dear:	July 9, 1993
Reference is made to your application date	ed Office for a non-standard of well
<b>.</b> .	Vell No. 2 to be located 475 feet from the
	line (Unit 3) of Section 5, Township
20 N, Range ZW, NMPM, Ri	- A
•	d Sectionshall be dedicated to the well
forming a standard spaci	· ·
	<b>)</b> .
By the authority granted me under the n	order No. R-9330
	rovisions of General/Rule 104 (II) the above
described unorthodox location is hereby ap	oproved.
Sincerely, And the E/Z of S	ection 32, TZIN, RZW, NMPM
William J. LeMay Director	
WJL/MES/ag	
cc: Oil Conservation Division -	· · · · · · · · · · · · · · · · · · ·
No.	

CASE NO. 9570 Order No. R-8848 Page -7-

- (12) All proceeds from production from the subject well which are not disbursed for any reason shall immediately be placed in escrow in Lea County, New Mexico, to be paid to the true owner thereof upon demand and proof of ownership; the operator shall notify the Division of the name and address of said escrow agent within 30 days from the date of first deposit with said escrow agent.
- (11) Should all parties to this forced pooling order reach voluntary agreement subsequent to entry of this order, this order shall thereafter be of no further effect.
- (14) The operator of the well and unit shall notify the Director of the Division in writing of the subsequent voluntary agreement of all parties subject to the forced pooling provisions of this order.
- (15) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Nieto 2. Lyon pre WILLIAM J. LEMAY Director

SEAL

CASE NO. 9570 Order No. R-8848 Page -7-

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DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Wietr 2. Lyon MILLIAM J. LEMAY Director

SEAL

	Ad	lministrative	Order NSP	·
Dear	<b>:</b>	n de en en en en en en en en en en en en en		
Reference is made	to your applie	cation of		for a
a	cre non-standard _	·	pro	ration unit consisting
of the following acreage	in the	· .	Pool:	
		, NEW	MEXICO	
TOWNSHIP				, NMPM
•				
It is my understanding that	at this unit is to be	dedicated to	your	to be
drilled at a	well l	ocation		feet from the
	_ line and _			feet from the
				of said Section
· · · · · · · · · · · · · · · · · · ·				- 1
By authority granted me	under the provision	ons of	·	, the above non-
standard	_			,
Sincerely,	•			
				. •
William J. LeMay Director	· · · · · · · · · · · · · · · · · · ·	x - 1		
•				
WJL/MES/ag		,	e e e e e	Ā
on Oil Componition	District		•	

#### OIL AND GAS PRODUCERS

FIELD & DECEDIOD	COLINER	Number of Wells Leases		APPROXIMATE MONTHLY PRODUCTION - NEW MEXICO Oil-Bbls. Gas-MCF	
FIELD & RESERVOIR	COUNTY	меня	Leases	Ou-Bois.	Gas-MCr
MERRION OIL & GAS CORP.					
	9, Box 840, 610 Reilly Ave.; 505				
Endsley; Ldmn. Pat Hegarty;	rion; Opns. Mgr. Steven S. Duni Sr. Acct. Paul Long	n; Engr. George i	. Snarpe; Ge	oi. Doug	
NW Oil	or rect rum bong.				
Arena Blanca-Entrada	McKinley	1	1	5	
Bisti-Lower Gallup	San Juan	1	1	28	155
Counselors Gallup-Dakota	Rio Arriba	14	14	517	6,040
Devil's Fork-Gallup	<b>5</b> 0. 4 d	=-			
Associated	Rio Arriba Rio Arriba	79	27	5,465	69,111
Devil's Fork-Mesaverde Dufer's Point-Gallup-Dakota	San Juan	10 <b>2</b> 0	7 16	1,486 <b>2,32</b> 8	2,862 50,812
Eagle Mesa-Entrada	Sandoval	4	4	2,326 48	50,612
Escrito-Gallup Associated	Rio Arriba, San Juan	ī	ī	167	970
Gallegos-Gallup Associated	San Juan	20	13	1,127	20,155
Gavilan-Mancos	Rio Arriba	. 2	2	9	908
Lindrith, South-Gallup-Dakota	Rio Arriba	5	1	467	2,367
Lindrith, West-Gallup-Dakota	Rio Arriba	7	1	382	3,647
Media-Entrada	Sandoval	. 6	1	<b>74</b> 5	_
Ojito, Northeast-Gallup-Dakota	Rio Arriba	2	2	26	1,438
Otero-Gallup	Rio Arriba	1	1		_
Papers Wash-Entrada	McKinley	4	2	3,905	-
Pot Mesa-Mesaverde	McKinley San Juan	5 2	3	430	12,788
Snake Eyes-Entrada Undesignated-Dakota	Sandoval	. 1	1	893 5	81
Undesignated-Gallup	Rio Arriba	1	i	34	44
Undesignated-Gallup	Sandoval	3	3	58	852
Undesignated-Mesaverde	Rio Arriba	ĭ	. 1	.46	318
Undesignated-Mesaverde	Sandoval	ī	ī	5	. 37
NW Gas		_	_	-	
Ballard-Pictured Cliffs	San Juan, Sandoval,				
	Rio Arriba	10	6	_	6,746
Barker Creek-Paradox	San Juan	1	1	_	_
Basin-Dakota	Rio Arriba, San Juan,				
<b>-1</b>	Sandoval	14	7	266	17,296
Blanco-Mesaverde	Rio Arriba, San Juan	2	1		313
Blanco, South-Pictured Cliffs	Rio Arriba, Sandoval, San Juan	• • •	_		707
Cinis Flora Vista-Mesaverde	San Juan San Juan	11	5 4	_	737
Gavilan-Pictured Cliffs	Rio Arriba	4 1	1		282
Kutz, West-Pictured Cliffs	San Juan	3	3	_	16
Otero-Chacra	Rio Arriba, San Juan	. 4	3	_	7,575
WAW Fruitland-Pictured		-			.,
Cliffs	San Juan	50	16	_	5,266
Undesignated-Chacra	Sandoval	2	1	_	6
MESA OIL COMPANY	775. FOT 200 0707				
HOBBS, NM 88241, Box SE Oil	755; 505 393-2727.				
Jalmat Tansill-Yates-					
Seven Rivers	Lea	1	1	10	371
OPERATIONS DIVISION: ROSWELL, NM 88202-24 FLORA VISTA, NM 87415	RTNERSHIP NW 2009, Box 2009, One Mesa Squan 186, Box 2486; 505 622-0992; P 5, Box 579; 505 327-6174; SAN	ERMIAN EAST/V			
NW Oil	Com. Tours	-	,	110	05
Kutz-Gallup	San Juan	1	1	. 118	87
NW Gas Animas-Chacra	San Ivan	,		•	E 122
Aztec-Fruitland	San Juan San Juan	1 1	1 1	_	5,133 730
	Juli Guari	1	1	_	,,,,,,