

**April 14, 2000** 

State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Case 12614

RE: Energen Resources Corporation, Ogrid #162928

Application for Administrateive Approval to Inject, Expansion of Project #WFX-581

Langlie Lynn Queen Unit, Wells #3, 5, 7, 9, 12, 14, 16, & 18

Lea County, New Mexico

#### Gentlemen:

Energen Resources Corporation is seeking Administrative Authority to Expand it's existing Injection Permit #WFX-581 on the above wells. Enclosed are the following required supporting documents to complete the application.

- 1. Original C-108 Form.
- 2. Well Data Sheet on each well on Injection Application, including wellbore schematics and maps.
- 3. Table of Wells of all wells in "Area of Review" (1/2 mile).
- 4. Well Data Sheet on all wells in "Area of Review".
- 5. Proposed Project, including "Geological Data" and "Stimulation Program".
- 6. Water analysis on injection fluid.
- 7. Water analysis on fresh water wells.
- 8. Logs on new drill LLQU #20, (logs previously submitted on all other wells).
- 9. "Proof of Notice" to county newspaper, including "Affidavit of Publication".
- 10. "Proof of Notice" to State of New Mexico as landowner.
- 11. "Proof of Notice" to all leasehold operators within 1/2 mile.

Should additional information be needed, please advise.

Sincerely,

Denise A. Menoud Production Tech. Energen Resources Corporation (915) 687-2074 Encl.

cc: Hobbs District Office cc: N.M. State Land Office

PKRV0132048104

WFX

10/4/01

TELEPHONE: 915-687-1155 FAX: 915-687-1796

April 20, 2000

10

Mr. Mark Ashley State of New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

( Cal 12614

1. 16. 18 N. 16. 18

Dear Mr. Ashley,

RE: Energen Resources Corporation, Ogrid #162928
Application for Administrative Approval to Inject,
(Expansion of Project #WFX-581)
Langlie Lynn Queen Unit, Wells #3,5,7,9,12,14,16,18,
Lea County, New Mexico

As a follow-up to our recent telephone conversation and to letter of April 14, 2000 from Denise H. Menoud, of this office, Energen's application did not include well # 23. Well #23 was included in the legal notice and advertised in the paper but once the Lanexco letter of March 23, 2000 was reviewed, Energen elected to exclude Well # 23 from its application to inject until the relationship between Well #23 and the Lanexco, Inc well, being the El Paso State # 1, is fully evaluated. It is our understanding that Lanexco, Inc. objections were limited to well #23.

If anything else is needed, please advise.

Sincerely,

District Landman
ASHLEY-INJECT-LLQU

KHG/pkr

cc: Lanexco, Inc.

Attention: Mr. Robert W. Lansford, President

Scott Hall

LANGLIE LYNN TABLE OF WELLS (1/2 Mile Area of Review)
LOCATION.

Convert to producer		R36E	Lynn Dr. #/ Langlie Lynn Queen Unit #11 George Etz #4 George Etz #6	Energen Resources HCW Exploration OGG Roca Petroleum
Convert to injector	10/14/1965 05/01/1949 10 Desta Drive Suite 100W, Midland TX 79705-4500	L 26 123S R36E 1980'FSL, 660'FWL M 26 T23S R36E 990'FSL, 990'FWL A 27 T23S R36E 990'FNI 990'FFI	Lynn B-1 #7	Conoco
replace #10 producer	02/16/1965	26 T23S R36E 1980'FSL 1980'	Langlie Lynn Queen Unit #19	Conoco
Penlace #10 producer	01/31/1929 10 Desta Drive Suite 100W, Midland TX 79705-4500	J 26 T23S R36E 2310'FSL, 2310'FEL	Lynn B-1 #1	ရှိ စ
Convert to producer	03/06/1965	R36E 1980' FNL, 1980'	Langlie Lynn Queen Unit #15	TA 6
Convert to injector	10/06/1965	E 26 T23S R36E 1980'FNL, 660'FWL	Langlie Lynn Queen Unit #17	7700 O&G Energen Resources
Replace #17 producer	Loc.	R36E 2130' FNL, 657' F	Langlie Lynn Queen Unit #21	Loc.
Convert to injector	06/10/1963	26 T23S R36E 660' FNL,	Langlie Lynn Queen Unit #12	2750 O&G Energen Resources
		C 26 T23S R36E 660'FNL, 1980'FWL	Langlie Lynn Queen Unit #13	980
Return to injection		26 T23S R36E 660' FNL, 1980' F	Queen Unit	. <u> </u>
	03/37/1946 10 Desta Drive Suite 100W, Midland TX 79705-4500	A 26 T23S R36E 660' FNL, 660' FEL	Lynn B-1 #16	
'	1	26 T23S R36E	Lynn B-1 #17	3270 G Conoco
	01/16/1985 200 N. Loraine Suite 1270, Midland TX 79701	E 25 T23S R36E 1650 FNL, 330 FWL	Lankford #4	2. 3800' O&G Rhombus Operating
•	1	24 123S R36E 1980' FSL, 660' F	State A A/C-1 #107	086
•	12/30/1963 P.O. Box 1710, Hobbs NM 88240	R36E 660' FSL, 660' FE	Sinclair A State #9	P&A
	12/21/1962	23 T23S R36E 660'FSL, 1980'F	Langlie Lynn Queen Unit #6	0&G
Return to injection	11/25/1962	T23S R36E	Langlie Lynn Queen Unit #7	<u>≅</u> . 0
	03/24/1000 P.O. BOX 1710 Hobbs NM 98340	M 23 1235 R36E 000 F5L, 000 FVVL	Sinclair A State #10	Arco Permian
Return to injection	10/10/1960	R36E	Langlie Lynn Queen Unit #3	) (3.
	11/03/1960	R36E 1650' FSL, 2310'	Langlie Lynn Queen Unit #4	0&G
Continue injection	11/17/1960	R36E 1980' FSL 1980'	Langlie Lynn Queen Unit #5	∄. g
	0 0	1 23 T23S R36E 1650'FSL, 990'FEL	Sinclair A State #1	3300' G Arco Permian
		23 T23S R36E 2080' FNL, 660' F	State A A/C-1 #105	O&G Raptor Resources
		R36E 1650' FNL, 1650'	State A A/C-1 #26	O&G Raptor Resources
	03/20/1949 P.O. Box 160430, Austin TX 78716	23 T23S R36E	State A A/C-1 #2/	3585' O&G Raptor Resources Inc.
		23 T23S R36E 1980 FNL,660 FV	State A A/C-1 #72	ak Raptor Resources Inc.
		23 T23S R36E 660' FNL 760' FV	State A A/C-1 #65	-
	12/05/1960 P.O. Box 160430, Austin TX 78716	B 23 T23S R36E 660'FNL, 2310'FEL	State A A/C-1 #98	OL TRACT Raptor Resources Inc.
•	<b>-</b>	22 T23S R36E 660' FSL, 660' FE	Shell State #3	_
Convert to injector	04/12/1963	P 22 T23S R36E 660'FSL, 330'FEL	Langlie Lynn Queen Unit #9	Energen Resources
Replace #10 producer	Drilling	R36E 672' FSL, 1797' F	Langlie Lynn Queen Unit #20	OK Warming Energen Resources
•	10/11/1930 Six Desta Drive Suite 3000, Midland TX 79705	T23S R36E 330' FSL, 2310' F		5
Drill as injector	Drilling	J 22 T23S R36E 1863' FSL, 1950' FEL	Langlie Lynn Queen Unit #23	3843' Drilling Energen Resources
	09/07/1960	736E	El Paso State #1	C 3812 P&A Energen Resources
		R36E 1980' FSL, 660' F	Langlie Lynn Queen Unit #2	0%6
		22 T23S R36E	New Mexico "AA" State #1	റ
	07/22/1960 P.O Drawer 2358, Midland TX 79702	H 22 T23S R36E 2310' FNL 330' FEI	New Mexico "AA" State #3	Grace Petroleum
		22 T23S R36E 1980' FNL, 1980'	State A A/C-1 #97	SAS OXG
	- 1	22 T23S R36E 990' FN	New Mexico "AA" State #6	)0' P&A
Notes	Date Drilled Address	Letter Sec. Twp Range Footage	LEASE & WELL	TD Type OPERATOR

#### OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

#### APPLICATION FOR AUTHORIZATION TO INJECT

	I.	PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No
,	II.	OPERATOR: Energen Resources Corporation
		ADDRESS: 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705
		CONTACT PARTY: Denise Menoud PHONE: (915) 687-2074
	III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  Additional sheets may be attached if necessary.
	IV.	Is this an expansion of an existing project? X Yes No If yes, give the Division order number authorizing the project: WFX-581
V	V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
	VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
	VII.	Attach data on the proposed operation, including:
		<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>
	*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
	IX.	Describe the proposed stimulation program, if any.
	*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
	*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
	XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
	XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
	XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
		NAME: Denise Menoud TITLE: Production Tech.
		SIGNATURE: DATE: 04/13/00
	×	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:
	DISTR	ABUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

#### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well if any.

#### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operation within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

#### NJECTION WELL DATA SHEET

OPERATOR:		Energen R	esource	es					
WELL NAME & NUM	BER:	Langlie Lyr	n Quee	en Unit #3	<del>-</del>			<del></del>	
WELL LOCATION:	1980' FSL,	660' FWL			L	23	T-23-S	R-36-E	Lea
	(Footage Location	n)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL	. CONSTRU	JCTION DATA				
				Surface (	Casing				
Hole Size:	11"								
Casing Size:	8-5/8"		_						
Cemented with:	200		sacks	(or)			_ft3		
Top of Cement:	Surface		_						
Method Determined:	Visual	<del></del>	-						
				Production	Casing				
Hole Size:	6-1/4"		:		<del></del>				
Casing Size:	4-1/2"		<b>-</b> -						
Cemented with:	1100		sacks	(or)			_ft3		
Top of Cement:	Unknown		_						
Method Determined:			_						
Total Depth:	3790'		-						
				Injection I	nterval				
3490'	_ feet to	3691'			(Indicate wheth	er Open Hole	e or perforated)	perforated	
			Pro	onosed Tu	bing Detail				
Tubing Size:	2-3/8" J-55	5	<u> </u>	oposca ra	bing Detail				
Lining Material:		astic Coated	d (IPC)						
Type of Packer:	Baker "Lol				<del></del>				
Packer Setting Depth:	3458'				<del></del>				
Other Type of Tubing	/Casing Sea	ıl (if applical	ble):						
Addtitional Data									
1. Is this a new well of	drilled for ini	ection?			No				
If no, for what purpos			drilled?	,	Oil and gas	<del></del>			<del></del>
2. Name of the Inject	tion Formation	on:			Seven Rive	ers-Queen-	Grayburg		
3. Name of Field or F	Pool (if appli	cable):			Langlie Ma	ttix Seven	Rivers-Que	en-Grayburg	
4. Has the well ever I.e. sacks of cement			other zo	ne(s)? List	all such perfora	ted interva	ls and give p	olugging deta	ail,
	<del>_</del>								
5. Give the name an Jalmat Yates Gas Zo	-	-		underlying	or overlying the	proposed	injection zoi	ne in this are	:a:
Completion Record		<u></u>			· · · · · · · · · · · · · · · · · · ·				
Perfs:		See attach	ned diag	ıram					
Acid. Shot. Fracture.	Saueeze:								

Submit 3 Opics To Appropriate District	State of Ne						rm C-10.	
Office District I	Ener Minerals and	Natur	al Resources	WL AP	LNO	Revised Ma	rch 25, 199	9 <b>1</b>
1625 N. French Dr., Hobbs, NM 87240 District II	OH CONCEDIAL	TION	DIVICION		1 NO. 30-025-093	88		1
811 South First, Artesia, NM 87210	OIL CONSERVA 2040 South				Type of Lea			1
District III 1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, N			STA	TE X	FEE 🗌		1
District IV	Januare, 1	1111 07	303		il & Gas Lea			1
2040 South Pacheco, Santa Fe, NM 87505								
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)		PEN C	R PLUG BACK TO A	-	iame or Unit		: Name:	
1. Type of Well: Oil Well Gas Well	Other Injection	•		Langile L	ynn Queen	unit		
2. Name of Operator	2110001011		<del></del>	8. Well N	O.			1
Energen Resources Corporation				3				_
3. Address of Operator	400 W. II . L. TV 7076			1	me or Wildo			
3300 N. "A" St., Bldg 4, Ste. 4. Well Location	100, Midland, IX 7970	)5		<u> Langlie M</u>	lattix 7 R\	/RS/Queen/	GB	1
Unit LetterL	1980 feet from the	Sou	th line and	660	feet from th	e <u>West</u>	line	
Section 23	Township 23	S	Range 36E	NMPM	C	ounty	Lea	
	10. Elevation (Show wh	ether .	DR, RKB, RT, GR, et	c.)				
11. Check A	ppropriate Box to Ind	icate	Nature of Notice,	Report, o	r Other Da	.ta		_
NOTICE OF INTE	• • •			- '	IT REPO			
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WORK			LTERING C	ASING	
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRILL	NG OPNS.		LUG AND BANDONM	ICNIT	
PULL OR ALTER CASING	MULTIPLE COMPLETION		CASING TEST AND CEMENT JOB			DANDONN	LIVI	
OTHER:		П	OTHER:					$\Box$
12. Describe Proposed or Complete of starting any proposed work). or recompilation.		-	ertinent details, and g	-		-		
Note: Well was TA'd from	injection in 08/91.							
02/16-18/00: MIRUPU, test Peforated 7 RVRS/Queen @ 3								
02/19/00: Found new PBTD	to be @ 3757'.							
02/22/00: RIH w/ 2 3/8" tested csg to 550# for 30								
hereby certify that the information above	is true and complete to the b	est of i	ny knowledge and belie	f.		<del></del>		-
SIGNATURE CA. 77 Les	oud	TITI	F Production Tech		DΔ	rr 03/16	5/2000	
Type or print name Denise Menoud					Telephone 1			-
(This space for State use)					priorie	(312)	<u> </u>	-
•								
APPROVED BY	——————————————————————————————————————	- TITI	_E		DATI	Ę		-

Langlie Lynn Unit #3 Lea County, NM

Conductor: None

Surface Casing: 8-5/8" 24# J-55, ST&C @ 259' in 11" hole Cemented to surface W/200 sx 50/50 Pozmix

**Intermediate Casing:** None

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3790' in 7-7/8" hole 1000 sx 50/50 Pozmix 100 Sx Regular Cement + Latex

Current Conditions: Jan-99
Temporarily Abandoned

GI Flevation: 3381'

KŁ \_\_ievation:

Location: 1980' FSL, 660' FWL,

Sec 23, T-23-S, R-36-E

Well Head Assembly:

??? TOC: unknown

RBP @ 3467' (11/22/91)

Perfs:

7 Rivers: 3536-44, 74-84' (10/60)

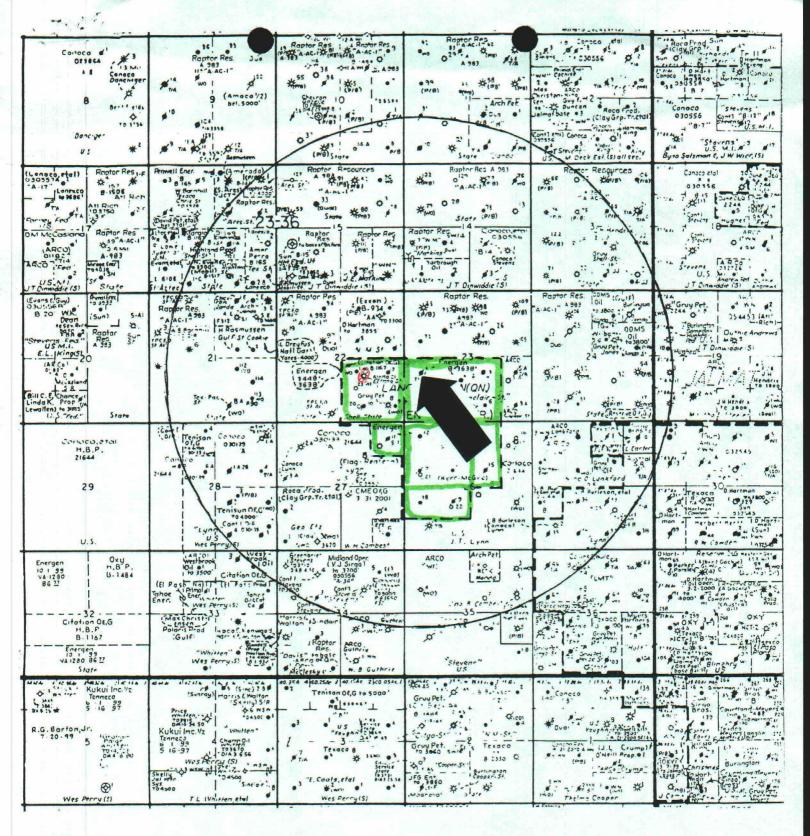
'3556-61, 64, 68' (3/90)

Queen: 3602-10, 13-24, 48-58, 60-64, 68-72' (10/60)

3626-29, 38-45, 48-58, 60-64, 68-72, 82-91'

Frac: 20,000 gal lease oil + 30,000# sand (10/60)

PBD: 3757' TD = 3790'

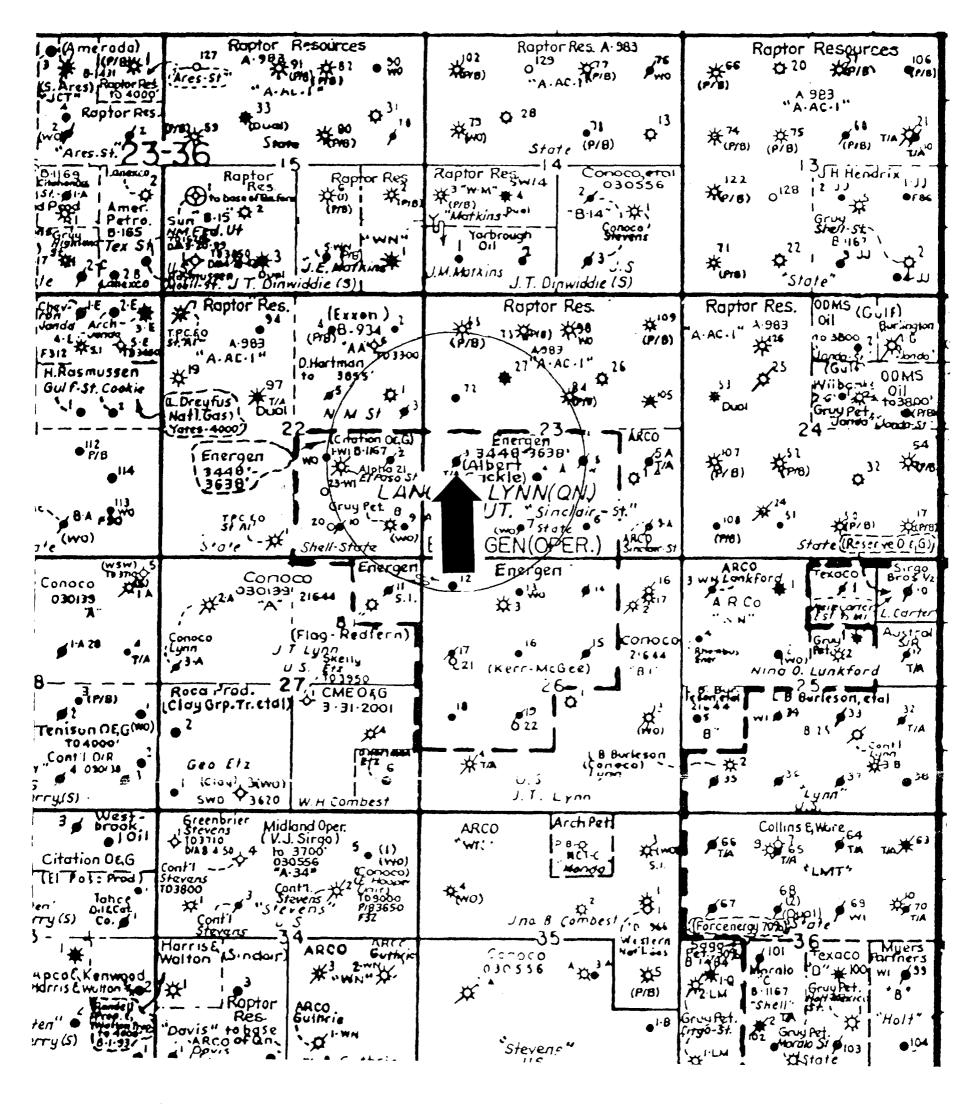




### LANGLIE-LYNN #3 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD

T23s – R36E Lea County, New Mexico

TWO MILE RADIUS



MILES 0 1/2 1

LANGLIE-LYNN #3
LANGLIE-LYNN UNIT
LANGLIE-MATTIX FIELD
T23s – R36E
Lea County, New Mexico
HALF MILE RADIUS

#### **IJECTION WELL DATA SHEET**

OPERATOR:		Energen F	Resource	es	T.	-025	<u> 10932</u>	7	····
WELL NAME & NUM	BER:	Langlie Ly	nn Que	en Unit #5	5				
WELL LOCATION:	1980' FSL	, 660' FWL			J	23	T-23-S	R-36-E	Lea
,	(Foolage Locatio	n)	χ.		(Unit Letter)	(Section)	(Township)	(Range)	(County)
		1970	27.						
		,	WELL	CONSTR	RUCTION DATA				
				Surface	Casing				
Hole Size:	11"			<u> </u>					
Casing Size:	8-5/8"		<del>-</del>						
Cemented with:	200		sacks	(or)			_ft3		
Top of Cement:	Surface		_						
Method Determined:	Visual	<del></del>	-						
			,	Troductio	on Casina				
Hole Size:	6-3/4"		<u> </u>	-rouuciic	on Casing				
Casing Size:	4-1/2"								
Cemented with:	1600		- sacks	(or)			ft3		
Top of Cement:	Surface		<del>-</del>						
Method Determined:	Circ.		_						
Total Depth:	3734'	<del></del>	_						
				Injection	Interval				
3494'	feet to	3631'			(Indicate whethe	er Open Hole	e or perforated)	perforated	
Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing	2-3/8" /Casing Se	al (if applic	- - - able):	Tubing	g Detail				
Addtitional Data									
1. Is this a new well	drilled for in	jection?			No				
If no, for what purpos		-	lly drilled		Oil and gas				
2. Name of the Inject			·		n Rivers-Queen-		oon Cravbu		·
3. Name of Field or F	-ooi (ii appi	icable).		Lang	lie Mattix Seven F	Rivers-Qu	een-Graybu	rg	
4. Has the well ever l.e. sacks of cement of			other zo	one(s)? L			vals and giv		detail,
5. Give the name and Jalmat Yates Gas Zo		•	=	s underly	ing or overlying th		•		area:
Completion Record									
Perfs:		See attack	had diaa	ıram					
Acid Shot Fracture	Sanesse.	See attac	neu ulag	ıanı				<del>"</del>	

Submit 3 Copies to Appropriate District Office

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

Form C-103

Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVA'		WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Me.	xico 87504-2088	30-025-09389  5. Indicate Type of Lease
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			STATE X FEE  6. State Oil & Gas Lease No. 23267
( DO NOT USE THIS FORM FOR PRODIFFERENT RESE	ICES AND REPORTS ON OPOSALS TO DRILL OR TO DE RVOIR. USE "APPLICATION FOF-101) FOR SUCH PROPOSALS.	EPEN OR PLUG BACK TO A DR PERMIT	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL WELL	OTHER I	njection Well	Langlie Lynn Queen Unit
2. Name of Operator		<u> </u>	8. Well No.
Energen Resources Corp	oration		5
3. Address of Operator 3300 N. A St, Bldg 4,	Ste 100, Midland,TX	79705	9. Pool name or Wildcat Langlie Mattix 7 RVRS/Queen/G
4. Well Location  Unit Letter : 19	80 Feet From The South	Line and198	80 Feet From The East Lin
Section 23	Township 23S 10. Elevation (Show w.	Range 36E hether DF, RKB, RT, GR, etc.)	NMPM Lea County
11. Check NOTICE OF IN	Appropriate Box to Indic		Report, or Other Data  SSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	
PULL OR ALTER CASING		CASING TEST AND C	[ <del>]</del>
OTHER:		OTHER:	
12. Describe Proposed or Completed Operawork) SEE RULE 1103.	utions (Clearly state all pertinent det	ails, and give pertinent dates, inclu	uding estimated date of starting any proposed
MIRU WSU, pressure tes Re-perforate the 7 RVR perform casing integri	S/Queen, acidize w/	3,000 gals. Run	Pull injection equipment. injection packer and tubing,
I hereby certify that the information above is trustional signature.	e and complete to the best of my knowled		. Tech. DATE 3/13/2000
TYPE OR PRINT NAME	Denise Menoud	······································	те <b>l</b> ерноне но. 915–687–
(This space for State Use)			
APPROVED BY		— TITLE	DATE —

Langlie Lynn Unit #5 Lea County, NM

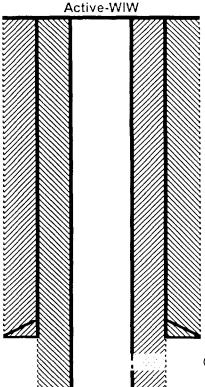
Conductor: None

Surface Casing: 8-5/8" 24# J-55, ST&C @ 263' in 11" hole Cemented to surface W/200 sx 50/50 Pozmix

Intermediate Casing: None

**Production Casing:** 4 1/2" 9.50# J-55 ST&C @ 3734' in 6-3/4" hole 1600 Sx Regular Cement Circulated to Surface

Current Conditions: Jan-99



GL Flevation: 3381'

KL \_ievation:

Location: 1980' FSL, 660' FWL,

Sec 23, T-23-S, R-36-E

Well Head Assembly:

Casing Leak @ 334'--Squeezed (12/89)

Perfs: 3450-52 (Squeezed 12/89)

Inj profile showed perfs taking water (9/91)

Queen: 3494-3502' (11/60)

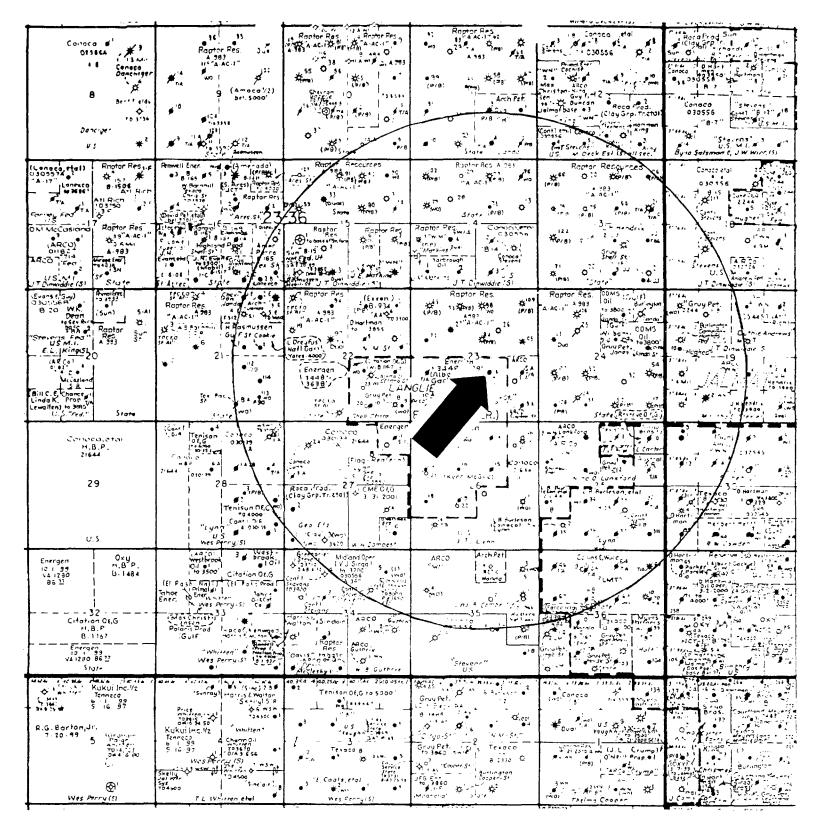
3518-47, 55-59, 62-88, 94-3600'

3609-22, 26-31'

Frac: 20,000 gal lease oil + 31,000# 20/40 sand (10/60

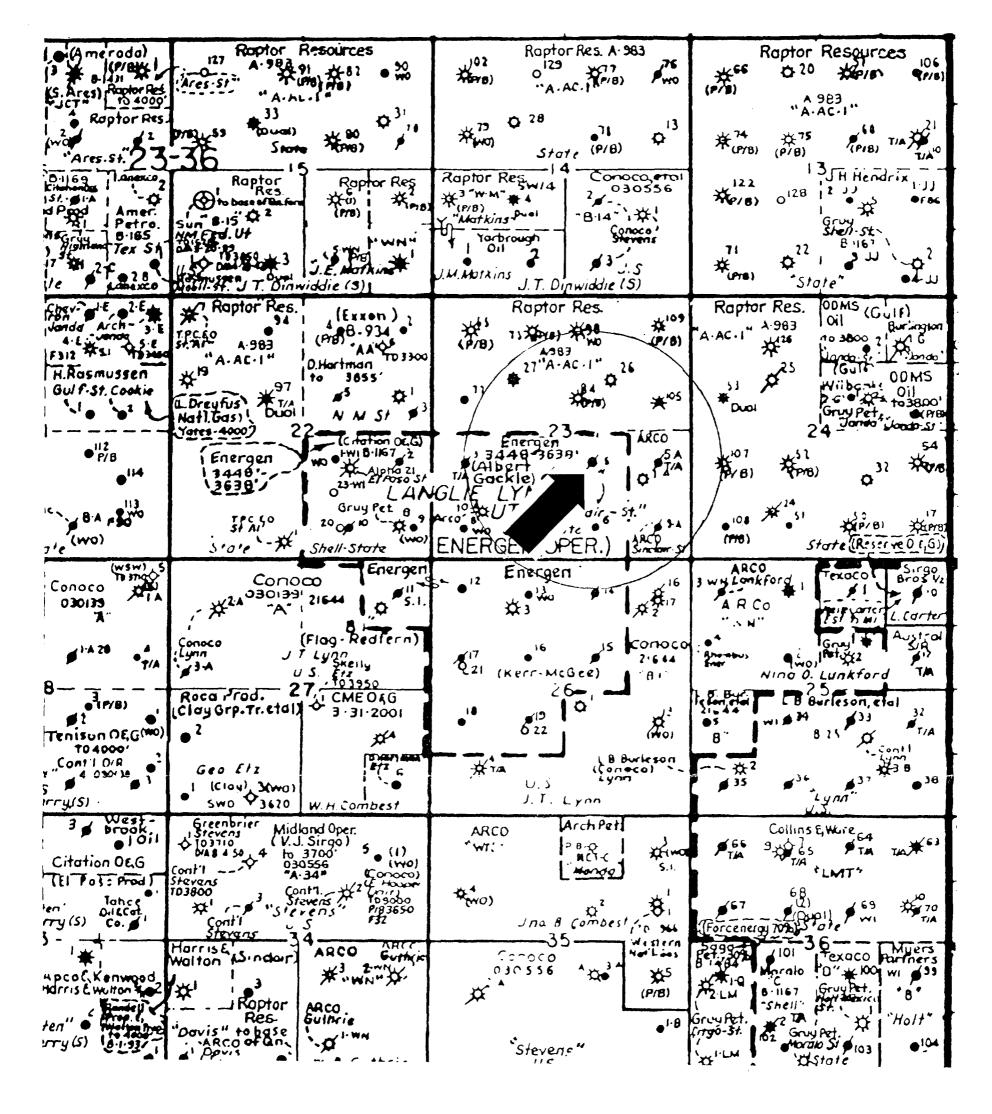
PBD: 3670'

TD = 3734'





# LANGLIE-LYNN #5 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s - R36E Lea County, New Mexico TWO MILE RADIUS





### LANGLIE-LYNN #5 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23S - R36E Lea County, New Mexico

HALF MILE RADIUS

#### **JECTION WELL DATA SHEET**

/WEV- 52/

							WEY		
OPERATOR:		Energen R	Resources	<u> </u>	<del></del>	24-4	25-09	1-2,91	
WELL NAME & NUM	IBER:	Langlie Ly	nn Queer	n Unit #7					
WELL LOCATION:	660' FSL,	1980' FWL	·		N	23	T-23-S	R-36-E	Lea
·	(Footage Location	on)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL (	CONSTRUC	CTION DATA				
			:	Surface Ca	asing				
Hole Size:	11"		_						
Casing Size:	8-5/8"								
Cemented with:	275	<del></del>	_sacks	(or)			_ft3		
Top of Cement:	Surface		-						
Method Determined:	Visual		-						
			Pi	roduction (	Casing				
Hole Size:	6-3/4"								
Casing Size:	4-1/2"		<del>-</del>						
Cemented with:	1778		sacks	(or)			_ft3		
Top of Cement:	Surface		-						
Method Determined:	Visual		_						
Total Depth:	3800'		<del></del>						
			<u>!</u>	njection In	terval				
3510'	feet to	3682'			(Indicate whethe	er Open Hole	or perforated)	perforated	
				<del></del>	(marcate who the	or open ridio	or portorated)	<u> </u>	
	Car.	4	Prot	osed <u>Tub</u> i	ina Detail				
Tubing Size:	2-3/8" J-5	5	<u> </u>	<del>, , , , , , , , , , , , , , , , , , , </del>					
Lining Material:		lastic Coate	ed (IPC)						
Type of Packer:	Baker "Lo	k-Set"							
Packer Setting Depth:	± 3350'		_		<del></del>				
Other Type of Tubing	g/Casing Se	eal (if application	able):			·			
A 4-1691 1 D - 4 -									
<u>Addtitional Data</u>									
1. Is this a new well		•	. —		No				
If no, for what purpos		-	ly drilled?		Oil and gas				
2. Name of the Inject					Rivers-Queen-				
3. Name of Field or	Pool (II app	ilicable):		Langile	Mattix Seven I	Rivers-Que	een-Graybu	rg	
4. Has the well ever		-		ne(s)? List	all such perfo	rated inter	vals and giv	e plugging (	detail,
I.e. sacks of cement	or plug(s) t	iseu.	No				·		
5. Give the name an Jalmat Yates Gas Zo				underlying	or overlying th	ne propose	ed injection	zone in this	area:
	<del></del>								
Completion Record	!								
Perfs:		See attact	ned diagr	am					
Acid, Shot, Fracture,	Squeeze:								

### Submit 3 Copies to Appropriate District Office

CONDITIONS OF APPROVAL, IF ANY:

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

Form C-103

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. Box 208		WELL API NO.	30-025-09391
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico 8	37504-2088	5. Indicate Type o	Lease
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas	
( DO NOT USE THIS FORM FOR PRO DIFFERENT RESER	CES AND REPORTS ON WELL POSALS TO DRILL OR TO DEEPEN ( VOIR. USE "APPLICATION FOR PER 101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	1	Unit Agreement Name
1. Type of Well: OIL OAS WELL WELL	oner Conver	t to WIW		
2. Name of Operator			8. Well No.	
Energen Resources Corp	poration			7
3. Address of Operator 3300 N. A St, Bldg 4,	Ste 100, Midland, TX 7	9705	9. Pool name or W Langlie Mat	/ildcat cix 7 RVRS/Queen/GB
4. Well Location				
Unit Letter N: 600	Feet From The South	Line and1980	Feet From	The West Line
Section 23	Township 23S Ran	ge 36E	NMPM	Lea County
	10. Elevation (Show whether L	OF, RKB, RT, GR, etc.)		
11. Check A	Appropriate Box to Indicate N	Jature of Notice Re	eport or Other	<u>V////////////////////////////////////</u>
NOTICE OF INT			SEQUENT R	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	MENT JOB	
OTHER: Convert To WIW		OTHER:	·	·
12. Describe Proposed or Completed Operat work) SEE RULE 1103.	ioas (Clearly state all pertinent details, and	l give pertinent dates, includ	ding estimated date of	starting any proposed
MIRU WSU, pressure tes acidize w/ 3,000 gals. and begin water inject	st casing to 500 psi for Run injection packer tion.	30 minutes. and tubing, pe	Re-perforate rform casing	e the 7 RVRS/Queen, g integrity test
I hereby certify that the information above is true	and complete to the best of my knowledge and b			DATE 3/13/2000
SIGNATURE Denise		r,		TELEPHONE NO. 915-687-20
TYPE OR PRINT NAME DETILISE	Henoud			TELEPHONE NO. 913-007-20
(This space for State Use)				
APPROVED BY	TILL	Ε		DATE

Langlie Lynn Unit #7 Lea County, NM

Conductor: None

Surface Casing: 8-5/8" 24# J-55, ST&C @ 271' in 11" hole Cemented to surface W/150 sx 50/50 Pozmix

Intermediate Casing: None

**Production Casing:** 4 1/2" 9.50# J-55 ST&C @ 3800' in 6-3/4" hole 1728 sx 50/50 Pozmix 50 sx Regular cement + Latex Cement Circulated

KL levation: 3385

Current Conditions: Jan-99

Inactive-TA

Location: 660' FSL, 1980' FWL,

Sec 23, T-23-S, R-36-E

GI Flevation: 3374'

Well Head Assembly:

TOC: unknown

3510-20, 30-38, 50-58, 60-64, 70-3600' (1/99)

3548-50, 64-66, 82-84,

3605-07, 08-10, 16-18, 24-26, 28-30, 42-44,

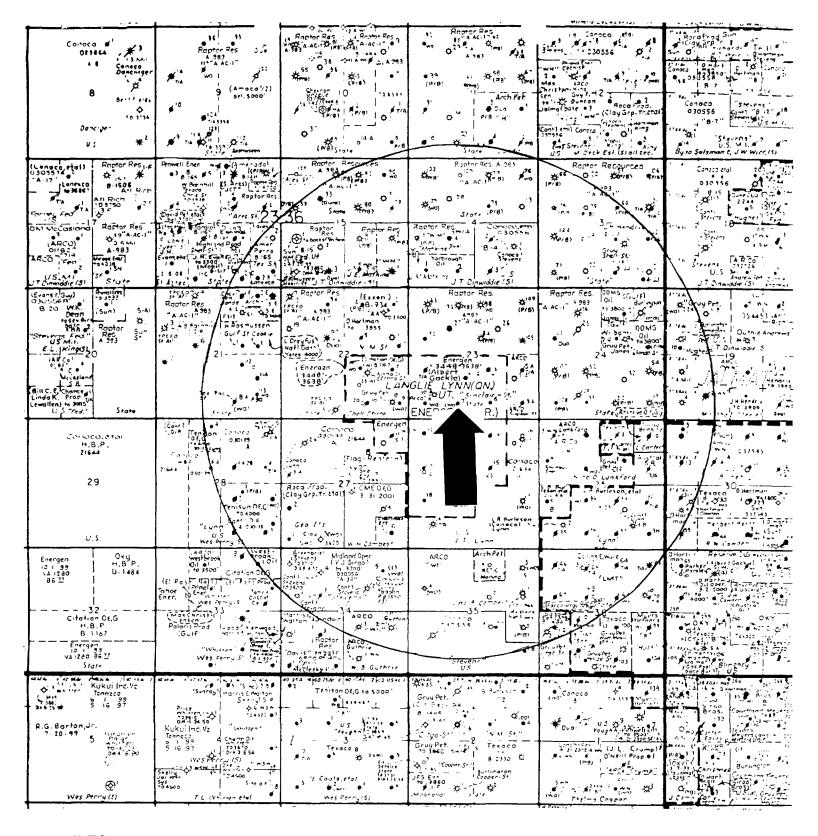
3648-50, 53-55, 59-61, 66-68, 80-82'

3608, 12, 19, 23, 28, 36, 40, 48, 52 (11/62)(re-perl

Frac: 20,000 gal lease oil + 28,000# sand (11/62)

PBD: 3757' TD = 3800'

Perfs:





## LANGLIE-LYNN #7 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s - R36E Lea County, New Mexico TWO MILE RADIUS

#### **JECTION WELL DATA SHEET**

OPERATOR:		Energen F	Resources	<u>s</u>					
WELL NAME & NUM	BER:	Langlie Ly	nn Queer	n Unit #9					
WELL LOCATION:	660' FSL,	330' FEL		-	Р	22	T-23-S	R-36-E	Lea
•	(Footage Location	on)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL (	CONSTRU	ICTION DATA				
				Surface C	Casing				
Hole Size:	9-7/8"		_	•					
Casing Size:	7-5/8"						"		
Cemented with:	275		_sacks	(or)			_ft3		
Top of Cement:	Surface Visual		_						
Method Determined:	Visuai		_						
			P.	roduction	Casing				
Hole Size:	6-3/4"		<u></u> -						
Casing Size:	4-1/2"		_						
Cemented with:	200		sacks	(or)			_ft3		
Top of Cement:	Unknown								
Method Determined:			-						
Total Depth:	3800'		-						
			<u> </u>	Injection I	nterval				
3512'	_ feet to	3714'		<del></del>	(Indicate whether	er Open Hole	or perforated)	perforated	
			D		him m Dadail				
Tubing Size:	2-3/8" J-5	55	Proj	posea rui	bing Detail				
Lining Material:		lastic Coate	ed (IPC)						
Type of Packer:	Baker "Lo		<del>30 (11 0)</del>						
Packer Setting Depth:	± 3350'				<del></del>				
Other Type of Tubing	/Casing Se	eal (if applic	able):						
Addtitional Data									
1. Is this a new well	drilled for in	njection?			No				
If no, for what purpos			ly drilled?	?	Oil and gas	S			
2. Name of the Inject	tion Forma	tion:			Seven Rive	ers-Queen	-Grayburg		
3. Name of Field or F	Pool (if app	licable):		······································	Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever	been perfo	rated in any	other zo	ne(s)? Lis	st all such perfo	rated inter	vals and giv	e plugging o	detail,
I.e. sacks of cement	or plug(s) ι	used.	No		·	<del></del>			
	<del>,</del>					<del></del>			
5. Give the name and Jalmat Yates Gas Zo	-		-	s underlyin	g or overlying th	ne pro <b>pos</b> e	ed injection	zone in this	area:
	··	<del></del>	<del></del>	· · · · · · · · · · · · · · · ·					
Completion Record									
Perfs:		See attac	hed diagr	am					
Acid, Shot, Fracture,	Squeeze:								

#### Submit 3 Copies to Appropriate District Office

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

Form (	C-103
Revised	11-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION P.O. Box 2088

**DISTRICT II** 

Santa Fe. New Mexico 87504-2088

WELL API NO. 30-025-20049

5. Indicate Type of Lease P.O. Drawer DD, Artesia, NM 88210 STATE FEE 6. State Oil & Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 23267 SUNDRY NOTICES AND REPORTS ON WELLS ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) Langlie Lynn Queen Unit 1. Type of Well: WELL WELL Converty to WIW OTHER 2. Name of Operator 8. Well No. Energen Resources Corproation 3. Address of Operator 9. Pool name or Wildcat 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705 Langlie Mattix 7 RVRS/Queen/GB 4. Well Location Unit Letter \_ 660 Feet From The South 330 Line and East \_ Feet From The \_ 36E Section Township Range **NMPM** Lea County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3378' KB Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDONMEN PULL OR ALTER CASING CASING TEST AND CEMENT JOB OTHER: Convert to WIW OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. MIRU WSU, pull all producton equipment. TIH w/ RBP to 3,500', pressure test casing to 500 psi for 30 minutes. POH & re-perforate the 7 RVRS/Queen, acidize w/ 3,000 gals. Run injection packer and tubing, perform casing integrity test and begin water injection.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. Prodc. Tech. 3/13/2000\_ SIGNATURE . Denise Menoud **тецерно**ме но.915-687<u>-20</u>7 TYPE OR PRINT NAME (This space for State Use)

TITLE -

APPROVED BY -

CONDITIONS OF APPROVAL, IF ANY:

Langlie Lynn Unit #9 Lea County, NM

Conductor: None

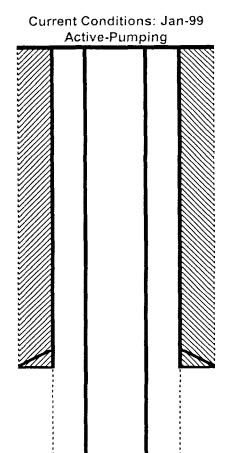
Surface Casing: 7-5/8" 24# Smls, ST&C @ 295' in 11" hole Cemented to surface W/275 sx 50/50 Pozmix

**Intermediate Casing:** None

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3800' in 6-3/4" hole 200 sx "C" Neat GL Flevation: 3378' KL evation: 3388'

Location: 660' FSL, 330' FEL, Sec 22, T-23-S, R-36-E

Well Head Assembly:



??? TOC: unknown

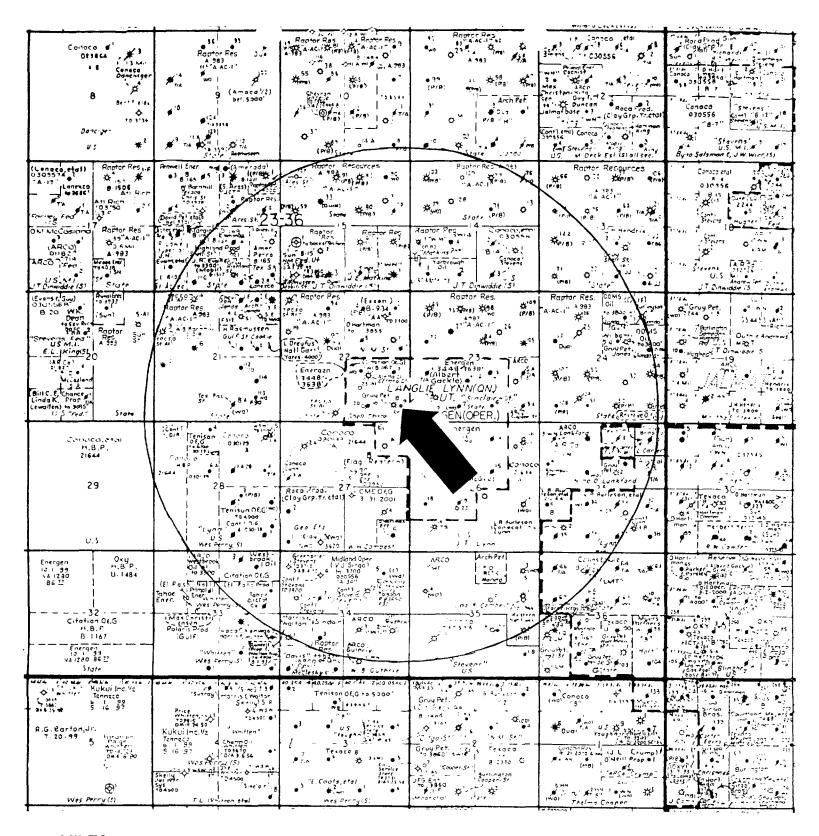
Perfs: 3512-26, 32-50, 56-61, 66-75, 81 3616-30, 38, 40, 42, 46, 56, 88 (2/99)

3588, 90, 3605, 08,10, 12, 31, 34, 36, 44, 48, 3650, 52, 54, 58, 60, 67, 69, 72, 74, 81, 84, 90, 92

3702, 11, 14, (4/63)

Frac: 30,000 gal lease oil + 40,000# sand (4/63)

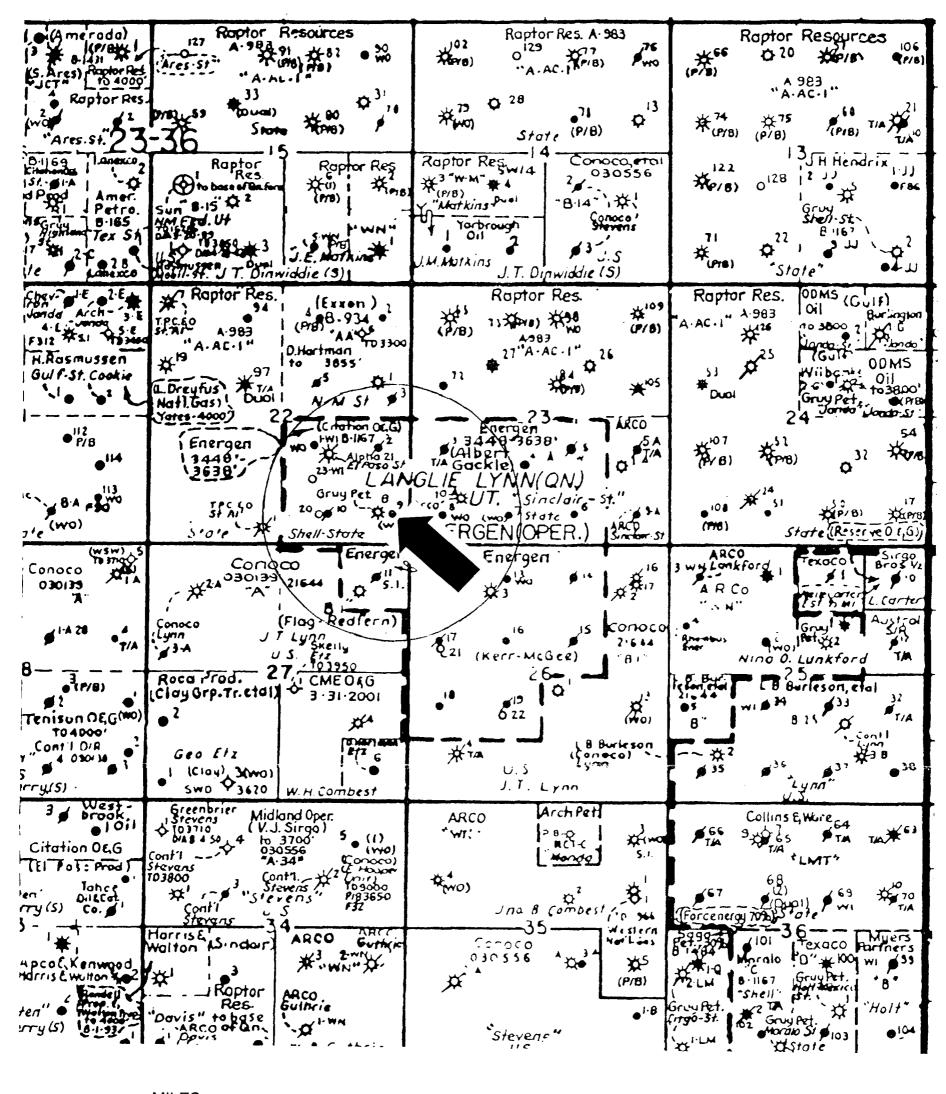
PBD: 3773' TD = 3800'





#### **LANGLIE-LYNN #9**

LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E Lea County, New Mexico **TWO MILE RADIUS** 





### LANGLIE-LYNN #9 LANGLIE-LYNN UNIT

LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23S – R36E Lea County, New Mexico

HALF MILE RADIUS

Office District I 1625 N. French Dr., Hobbs, NM 87240 District II 811 South First, Artesia, NM 87210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505  SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  1. Type of Well: Oil Well  Gas Well  Other  2. Name of Operator Energen Resources Corporation 3. Address of Operator 9. Pool name or Wildcat	999
SUNDRY NOTICES AND REPORTS ON WELLS   District III   SUNDRY NOTICES AND REPORTS ON WELLS   District III   SOUTH FIRE FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)   1. Type of Well:   Oil Well     Other	
2040 South Pacheco District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505  SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well  Gas Well Other  2. Name of Operator Energen Resources Corporation  5. Indicate Type of Lease STATE  FE  6. State Oil & Gas Lease No.  7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit 8. Well No. 12	
Santa Fe, NM 87505  District IV 2040 South Pacheco, Santa Fe, NM 87505  SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  1. Type of Well: Oil Well X Gas Well Other  2. Name of Operator Energen Resources Corporation  STATE X FEE  6. State Oil & Gas Lease No.  7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit  8. Well No.	
SUNDRY NOTICES AND REPORTS ON WELLS  (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  1. Type of Well: Oil Well X Gas Well Other  2. Name of Operator Energen Resources Corporation  6. State Oil & Gas Lease No.  7. Lease Name or Unit Agreement Name Variable of Unit Agreement Name of Unit Agreement Nam	
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  1. Type of Well: Oil Well X Gas Well Other  2. Name of Operator Energen Resources Corporation  8. Well No.	
1. Type of Well:       Oil Well	
2. Name of Operator8. Well No.Energen Resources Corporation12	
	7
3 Address of Operator 10 Dool name or Wildoot	
3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705  4. Well Location	_
Unit Letter D: 660 feet from the North line and 660 feet from the West	ine
Section 23 Township 235 Range 36E NMPM County Lea	
10. Elevation (Show whether DR, RKB, RT, GR, etc.)	
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	الانخنجة
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK X PLUG AND ABANDON REMEDIAL WORK ALTERING CASING	
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT	
PULL OR ALTER CASING MULTIPLE CASING TEST AND CEMENT JOB	
OTHER: Convert to Injection	
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated dat of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.	
MIRU WSU, pull all production equipment. TIH w/ 2 1/2" RBP to 3,500', pressure test casing to 500# for 30 mins. P00H & reperf the 7 RVRS/ Queen. Acidize w/ 3,000 gals 15% HCL. Run injection packer & tubing. Perform casing integrity test and begin water injection after approval of permit.	
I hereby certify that the information above is true and complete to the best of my knowledge and belief.	_
SIGNATURE	<del></del> -
	7.4
Type or print name Denise Menoud Telephone No. (915)687-20	14
	14

Langlie Lynn Unit #12 Lea County, NM

Current Conditions: Jan-99
Active-Pumping

GL Elevation: 3368' Kl evation: 3378'

Location: 660' FNL, 660' FWL,

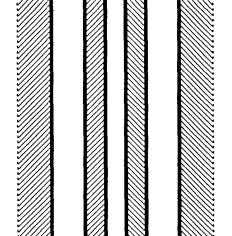
Sec 26, T-23-S, R-36-E

#### **Conductor:**

None

#### Surface Casing:

7-5/8" 24# H-40, ST&C @ 330' in 11" hole Cemented to surface W/200 sx 50/50 Pozmix



Well Head Assembly:

#### Intermediate Casing:

None

4-1/2" casing leaks from 580-1300'

2100' TOC: 2100' by TS

Slim Hole String: (10/80) 2-7/8" tubing @ 3748' Cemented to surface with 545 Sx "C"

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3750' in 6-3/4" hole 300 sx Regular cement Tight Spot @ 3416' in 2-7/8" casing

Perfs: 3548-50, 64-66, 82-84,

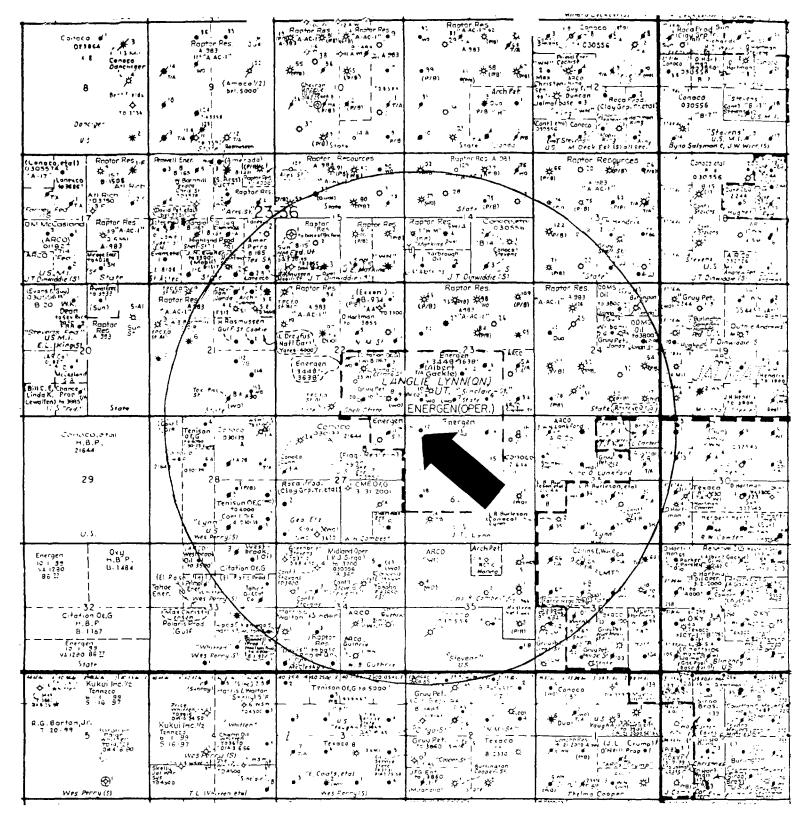
3605-07, 08-10, 16-18, 24-26, 28-30, 42-44,

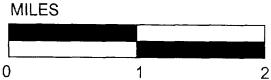
3648-50, 53-55, 59-61, 66-68, 80-82' (Perfed 11/62, Re-perfed 10/80) 3642-82' (Re-perf 3/88, 18 holes)

Frac: 25,000 gal lease oil + 37,500# sand (11/62)

PBD: 3720' TD = 3750'

2100

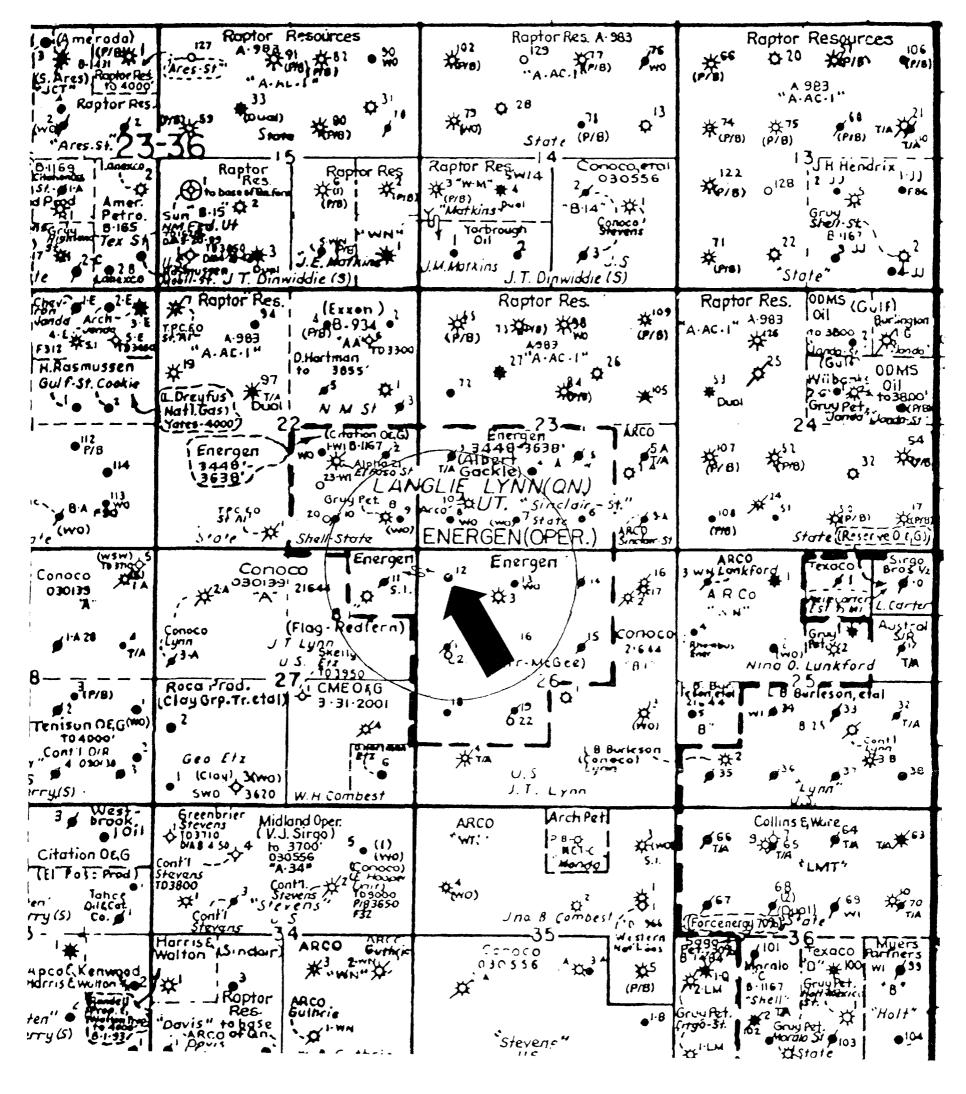




#### **LANGLIE-LYNN #12**

LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E Lea County, New Mexico

TWO MILE RADIUS





## LANGLIE-LYNN #12 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23S -- R36E Lea County, New Mexico HALF MILE RADIUS

#### **NJECTION WELL DATA SHEET**

**OPERATOR: Energen Resources** 20025 20191 WELL NAME & NUMBER: Langlie Lynn Queen Unit #14 WELL LOCATION: 660' FNL, 1980' FEL В 26 T-23-S R-36-E Lea (Footage Location) (Unit Letter) (Township) (Section) (Range) (County) **WELL CONSTRUCTION DATA** Surface Casing 11" Hole Size: 7-5/8" Casing Size: Cemented with: 200 ft3 sacks (or) Top of Cement: Surface Method Determined: Visual **Production Casing** 6-3/4" Hole Size: Casing Size: 4-1/2" Cemented with: 300 sacks (or) ft3 2600' Top of Cement: Method Determined: TS Total Depth: 3720' Injection Interval 3408' 3586' feet to (Indicate whether Open Hole or perforated) perforated **Proposed Tubing Detail** Tubing Size: 2-3/8" J/55 Lining Material: Internál Plastic Coated (IPC) Type of Packer: Baker "Lok-Set" 3393' Packer Setting Depth: Other Type of Tubing/Casing Seal (if applicable): Addtitional Data 1. Is this a new well drilled for injection? Nο If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: Seven Rivers-Queen-Grayburg 3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used. No 5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Jalmat Yates Gas Zone, Top @ approx. 3040' Completion Record Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze:

Form C-103 State of New Mexico Sut mit 3 Copies To Appropriate District Office Ent , Minerals and Natural Resources Revised March 25, 1999 District I WELL API NO. 1625 N. French Dr., Hobbs, NM 87240 30-025-20191 District II OIL CONSERVATION DIVISION 811 South First, Artesia, NM 87210 5. Indicate Type of Lease 2040 South Pacheco District III STATE 😠 FEE 🗌 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 District IV 6. State Oil & Gas Lease No. 2040 South Pacheco, Santa Fe, NM 87505 23267 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name: (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) Langlie Lynn Queen Unit 1. Type of Well: Gas Well Oil Well Other wiw 8. Well No. 2. Name of Operator Energen Resources Corporation 9. Pool name or Wildcat 3. Address of Operator 3300 N. "A" St., Bldq 4, Ste. 100, Midland, TX 79705 Langlie Mattix 7 RVRS/Queen/GB 4. Well Location North \_\_ line and \_\_\_ 1980 \_ \_ feet from the\_ Unit Letter 660 feet from the line Section 26 Township 23S Range 36E **NMPM** County Lea 10. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK  $\mathbf{x}$ ALTERING CASING **CHANGE PLANS TEMPORARILY ABANDON** COMMENCE DRILLING OPNS. PLUG AND **ABANDONMENT** PULL OR ALTER CASING MULTIPLE CASING TEST AND COMPLETION **CEMENT JOB** OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation. 03/07/00: MIRUPU. Tag RBP at 3360'. PU & set packer @ 3,340' and test RBP to 530#, no leak-off. Pressure test failed. Csg leak at 703'-989' FS. 03/10/00-03/18/00: RIH to 1233', spot 2 sacks sand out EOT. Tag CR @ 949', PU to 948', spot 25 sx Cl C cmt, tag cmt @ 708'. Shot 4 sqz holes at 703' FS over a 1' interval. Pump 218 sx Cl C cmt (slurry-290 cubic feet). Pressure test failed. DO cmt, circ, fish for RBP. POOH w/RBP. Set RBP @ 1010'. 03/19/00-03/22/00: Spot 2 sx sand on top of RBP. Acidize w/2 barrels 15% HCL. Spot 14 sx Cl C cmt (slurry-19 cubic feet), WOC. Spot 14 sx Cl C cmt (slurry- 19 cubic feet). DO cmt. Tag tbg @ 840'. Perf 3,408'-3,416', 3,424'-3,428', & 3,454'-3,462', total 80 holes. 3/23/00-3/24/00: Acidize w/3000 barrels 15% HCL. Swab. RIH w/ 2 3/8" x 4 1/2" "Lok-Set" injection packer, SN, & 2 3/8" tbg. Set inj pkr at 3,393'. PBTD @ 3,607'. Pressure test csg to 500#. Pressure held. Waiting on reinstatement of injection permit. I hereby certify that the information above is true and complete to the best of my knowledge and belief. TITLE Production Clerk DATE 4/10/2000 SIGNATURE S Type or print name Judy Baqwell Telephone No. (915)687-1155

\_ TITLE\_

DATE

(This space for State use)

Conditions of approval, if any:

APPROVED BY

#### Langlie Lynn Unit #14 Lea County, NM

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C @ 302' in 11" hole Cemented to surface W/200 sx "A" 2% gel, 2% CaCl2

Intermediate Casing:

None

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3720' in 6-3/4" hole 250 sx "C" + 4% gel, salt saturated TA-WIW GL Elevation: 3364'

Current Conditions: Jan-99

DF Elevation: 3374' Location: 660' FNL, 1980' FEL,

Well Head Assembly:

Sec 26, T-23-S, R-36-E

TOC: 2600' by TS

Baker Lok-Set RBP @ 3370' (7/91)

Original WIW Packer was set @ 3438'

Possible hole @ 3455' 80% water inj @ 3451-71' (3/90)

Perfs: 3474, 80, 95

3515, 19, 27, 35, 50-52, 58-60, 69-71, 84-86'

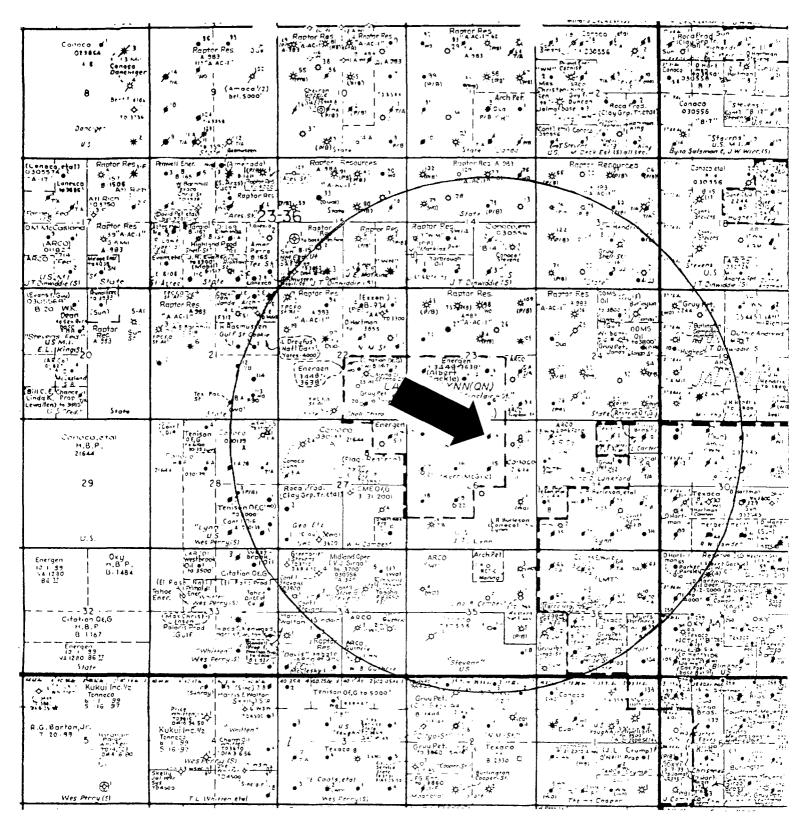
CIBP @ 3605'

XIXIX

Perfs: 3620-22, 34-36, 53-55'

Frac: 40,000 gal lease oil + 60,000# sand

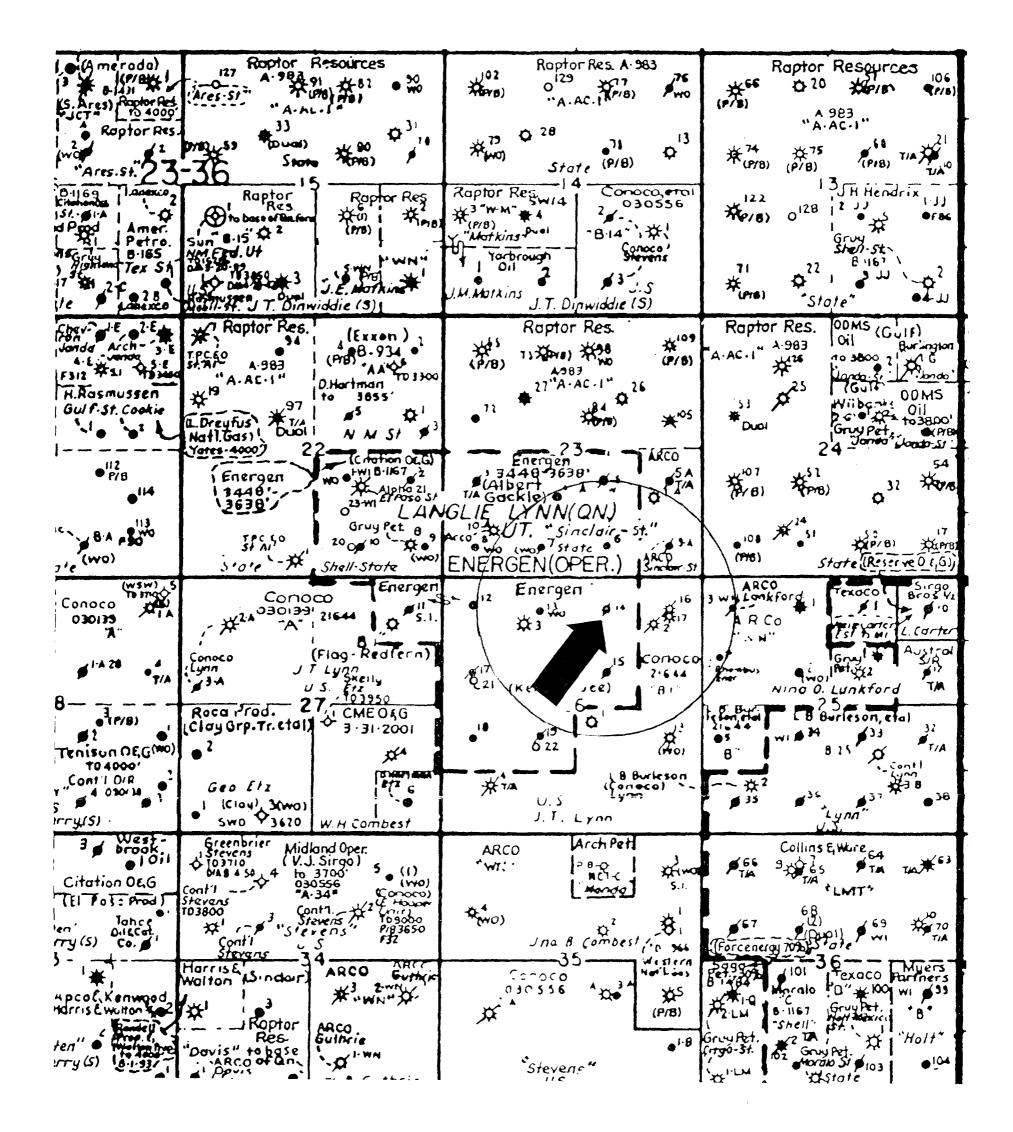
TD = 3720'





#### **LANGLIE-LYNN #14**

LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E Lea County, New Mexico TWO MILE RADIUS





#### LANGLIE-LYNN #14 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23S – R36E

Lea County, New Mexico

HALF MILE RADIUS

#### JECTION WELL DATA SHEET

OPERATOR:		Energen Resources				·		
WELL NAME & NUMBER:		Langlie Lynn Queen Unit #16	3	3 × 52 × 2 × 2 × 2				
WELL LOCATION:	1980' FNL	, 1980' FWL	F	26	T-23-S	R-36-E	Lea	
•	(Footage Location	n)	(Unit Letter)	(Section)	(Township)	(Range)	(County)	
		WELL CONSTR	UCTION DATA					
		Surface (	Casing					
Hole Size:	11"							
Casing Size:	7-5/8"				6.0			
Cemented with:	250	sacks (or)			_ft3			
Top of Cement:  Method Determined:	Surface							
Method Determined.	Visual							
		<u>Productio</u>	n Casing					
Hole Size:	6-3/4"						,	
Casing Size:	4-1/2"							
Cemented with:	200	sacks (or)			_ft3			
Top of Cement:	2450'							
Method Determined:	TS 3700'	· · · · · · · · · · · · · · · · · · ·						
Total Depth:	3700	<del></del>						
		<u>Injection</u>	<u>Interval</u>					
3468'	feet to	3653'	(Indicate whethe	er Open Hole	or perforated)	perforated		
Tubing Size:	2-3/8" \$-5	<u>Proposed Tu</u>	bing Detail					
Lining Material:		lastic Coated (IPC)						
Type of Packer:	Baker "Lo							
Packer Setting Depth:	± 3350'		<del></del>					
Other Type of Tubing	/Casing Se	eal (if applicable):	<del></del>					
Addtitional Data								
1. Is this a new well	drilled for in	jection?	No					
If no, for what purpos		·	Oil and gas	<u> </u>				
2. Name of the Inject		•	Seven Rivers-Queen-Grayburg					
3. Name of Field or F	Pool (if appl	licable): Langli	e Mattix Seven F	Rivers-Que	en-Graybu	rg		
4. Has the well ever I.e. sacks of cement		rated in any other zone(s)? Li sed. <u>No</u>	st all such perfor	rated interv	vals and giv	e plugging c	detail,	
5. Give the name an Jalmat Yates Gas Zo		any oil or gas zones underlyir approx. 3040'	ng or overlying th	ne propose	ed injection :	zone in this	area:	
Completion Record								
Perfs:		See attached diagram						
Acid Shot Fracture	Squeeze:					·	···	

Submit 3 Copies to Appropriate District Office

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

Form C-103 Revised 1-1-89

DISTRICT I

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

WELL API NO.

P.O. Box 1980, 110008, 1441 66240	P.O. Bo			30-025	-21229	1
DISTRICT II P.O. Drawer DD, Artesia, NM 88210  Santa Fe, New Me			87504-2088	of Lease	FEE	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	6. State Oil & Ga 23267		- EE			
CLINIDDA NOT	ICES AND REPORTS ON	J W⊏I	18			
( DO NOT USE THIS FORM FOR PR	7. Lease Name o	Unit Agreement Name				
DIFFERENT RESE (FORM C	Langlie Lynn Queen Unit					
1. Type of Well: OIL GAS WELL WELL	OTHER	Conv	ert to WIW			
2. Name of Operator				8. Well Na.		
Energen Resources Cor	poration			16		
3. Address of Operator	9. Pool name or Wildcat Langlie Mattix 7 RVRS/Queen/GB					
3300 N. A St, Bldg 4,  4. Well Location	Sie 100, Midland,	ĽΧ	79705	tangile mat	CIX / KAKPIÁNGE	=n/GB
	80 Feet From The North	<del>_</del>	Line and	Feet From	n The West	Line
Section 26	Township 23S	R2	nge 36E	NMPM	Lea	County
			DF, RKB, RT, GR, etc.)			
11. Check	Appropriate Box to Indi	cate ì	Nature of Notice, R	eport, or Othe	r Data	
NOTICE OF IN	SEQUENT F	REPORT OF:				
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK					ALTERING CASING	
TEMPORARILY ABANDON	OPNS.	PLUG AND ABANDON	MENT 🗌			
PULL OR ALTER CASING	EMENT JOB					
OTHER: Convert to WIW			OTHER:			□
12. Describe Proposed or Completed Openwork) SEE RULE 1103.	ations (Clearly state all pertinent de	tails, an	d give pertinent dates, inclu	ding estimated date o	of starting any proposed	
MIRU WSU, pull all proposed psi for 30 minute and @ 3,502'-08'. Accasing integrity test	s. POH & re-perfor idize w/ 3,000 gals	ate 1	the 7 RVRS/Quee in injection pa	n @3,468'-7	2', @ 3,478'-86	5',
I hereby certify that the information above is trues in the signature of t	e and complete to the best of my knowle accolorise Menoud			ch.	date 3/13/2 Telephone no. 915-	
(This space for State Use)						
					D	

Langlie Lynn Unit #16 Lea County, NM

Current Conditions: Jan-99
Active-Pumping

GI Flevation: 3356' K⊾ \_(evation: 3367'

Location: 1980' FNL, 1980' FWL,

Sec 26, T-23-S, R-36-E

Well Head Assembly:

Conductor: None

**Surface Casing:** 

7-5/8" 24# Smls, ST&C @ 319' in 11" hole Cemented to surface W/250 sx 50/50 Pozmix

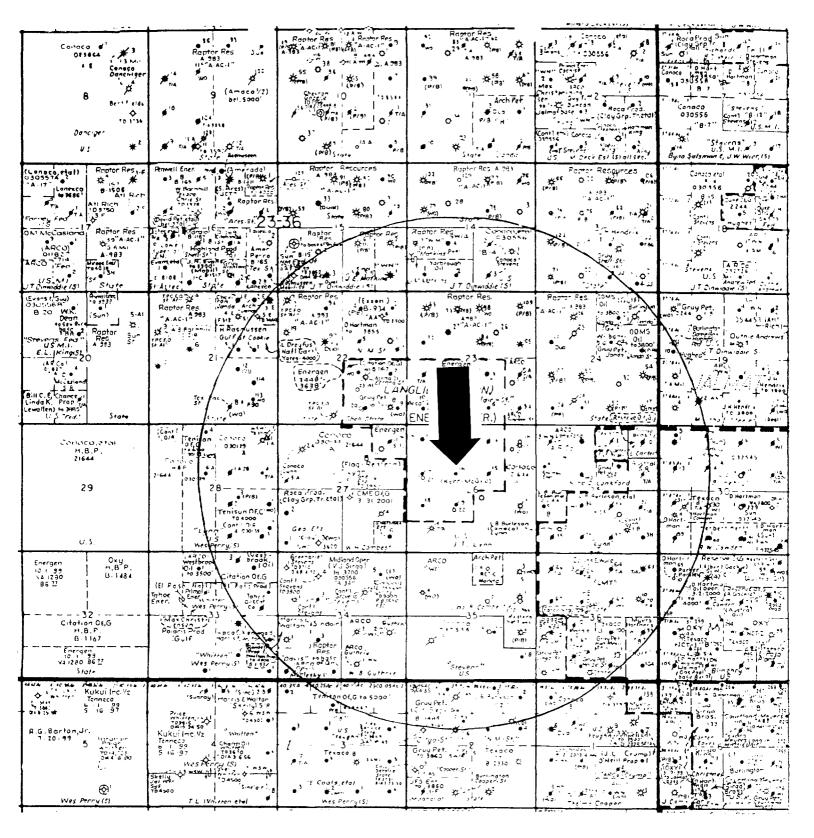
Intermediate Casing:

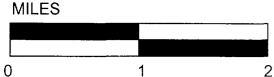
None

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3700' in 6-3/4" hole 200 sx "C" Neat Perfs: 3519, 36, 55, 79, 84, 88, 96 3600, 11, 24, 33, 48, 53 (1 JSPF) Frac: 40,000 gal lease oil + 60,000# sand

TD = 3700'

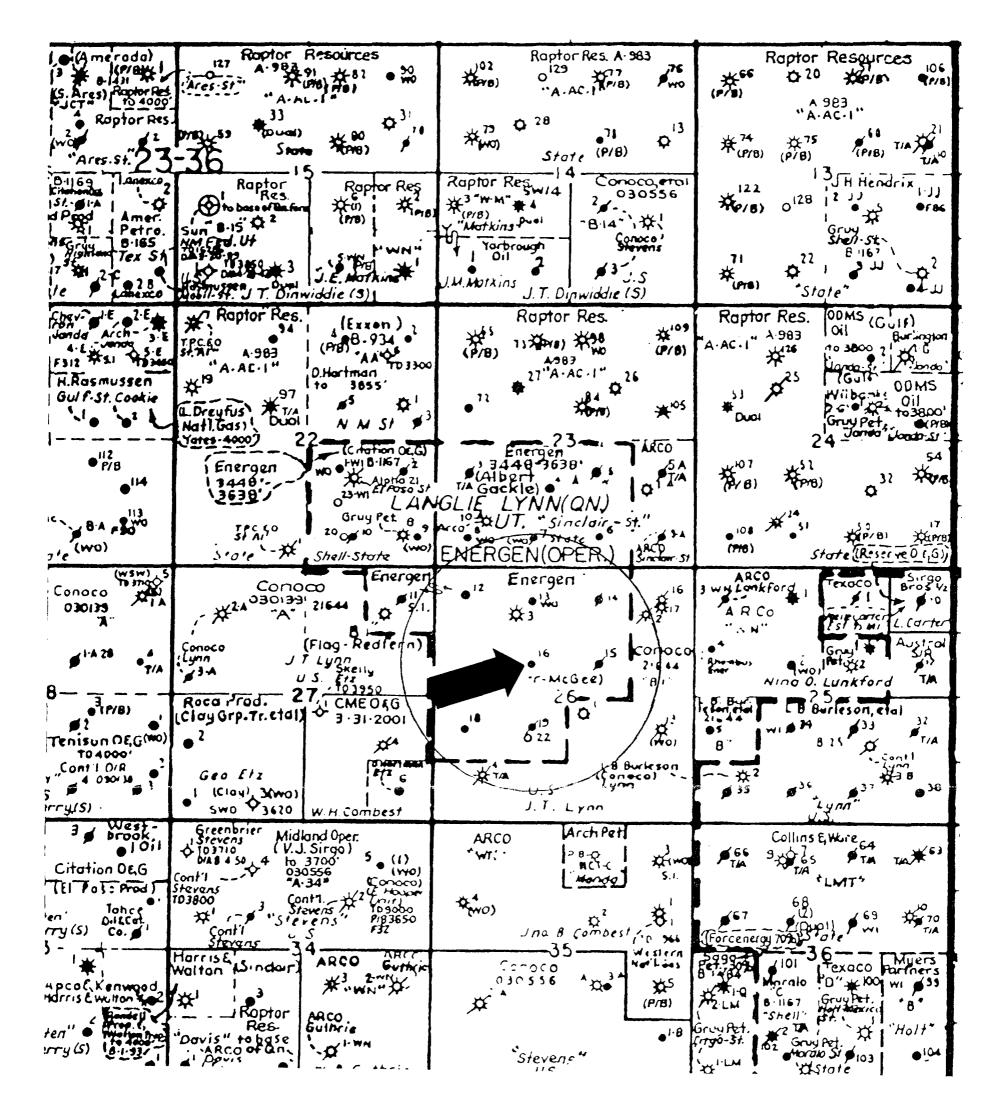
2450 **TOC**: 2450' by TS





### **LANGLIE-LYNN #16**

LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E Lea County, New Mexico **TWO MILE RADIUS** 





LANGLIE-LYNN #16
LANGLIE-LYNN UNIT
LANGLIE-MATTIX FIELD
T23S – R36E
Lea County, New Mexico
HALF MILE RADIUS

## **JECTION WELL DATA SHEET**

OPERATOR:		Energen R	nergen Resources								
WELL NAME & NUM	BER:	Langlie Lyr	n Queen	Unit #18		ۇ بە قۇ مىغىر	215	158			
WELL LOCATION:	1980' FSL	, 660' FWL			_ L	26	T-23-S	R-36-E	Lea		
•	(Footage Locatio	n)			(Unit Letter)	(Section)	(Township)	(Range)	(County)		
				ONSTRUCT							
Hole Size:	9-7/8"		<u>s</u>	urface Cas	<u>ing</u>						
Casing Size:	7-5/8"										
Cemented with:	98		sacks	(or)			ft3				
Top of Cement:	Surface	<del></del>		,			-				
Method Determined:	Visual		•								
			Pro	duction Ca	esina						
Hole Size:	6-3/4"		<u> </u>								
Casing Size:	4-1/2"		•								
Cemented with:	100		sacks	(or)			_ft3				
Top of Cement:	2400'		•								
Method Determined:	TS		•								
Total Depth:	3710'										
			<u>In</u>	jection Inte	erval						
3540'	feet to	3681'	·	(	Indicate whethe	er Open Hole	or perforated)	perforated			
			Prope	osed Tubin	a Detail						
Tubing Size:	2-3/8" J-5	5	<u>ypc</u>		<u>g Dotan</u>						
Lining Material:	Internal Pl	astic Coate	d (IPC)								
Type of Packer:	Baker "Lo				-						
Packer Setting Depth:	± 3350'		-								
Other Type of Tubing	/Casing Se	al (if applica	able):								
Addtitional Data											
1. Is this a new well		•			No						
If no, for what purpos			y drilled?		Oil and gas			· · · · · · · · · · · · · · · · · ·			
2. Name of the Inject					/ers-Queen-(		<del></del>	<del></del> -			
3. Name of Field or F	ool (it app	icable):		Langlie M	attix Seven F	Rivers-Que	en-Graybui	<u>rg</u>	<del></del>		
4. Has the well ever i.e. sacks of cement of		-	other zone	e(s)? List a	ll such perfo	rated interv	vals and giv	e plugging o	detail,		
5. Give the name and Jalmat Yates Gas Zo				underlying o	r overlying th	ne propose	ed injection :	zone in this	area:		
Completion Record											
Perfs:		See attach	ed diagrar	m							
Acid, Shot, Fracture,	Squeeze:						· <u>- · · · · · · · · · · · · · · · · · ·</u>	<del></del>	<del></del>		

### Submit 3 Copies to Appropriate District Office

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

Form C	-103
Revised	1-1-89

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

OIL CO

NSERVATION DIVISION 2040 Pacheco St.	WELL API NO. 30-025-21458				
Santa Fe, NM 87505	5. Indicate Type of Lease STATE X				
••	6 Chata Oil & Can Lanna Nia				

DISTRICT II S	anta re, NM 8/505	<del></del>						
P.O. Drawer DD, Artesia, NM 88210		5. Indicate Type of	STATE X FEE					
DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410			6. State Oil & Gas Lesse No. 23267					
SUNDRY NOTICES AND RE								
( DO NOT USE THIS FORM FOR PROPOSALS TO DR DIFFERENT RESERVOIR. USE "AP		ACK TO A 7. Lease Name or	7. Lease Name or Unit Agreement Name					
(FORM C-101) FOR SUCH		Langlie Ly	nn Queen Unit					
1. Type of Well:		Bangina	m queen onte					
MET MET	OTHER Convert to WIW							
2. Name of Operator	8. Well No.							
Energen Resources Corporation	<del></del>	18						
3. Address of Operator	9. Pool name or							
3300 N. A St, Bldg 4, Ste 100,	Midland, TX /9/05	Langlie Ma	ttix 7 RVRS/Queen/GB					
Unit Letter L: 1980 Feet From Tr		nd 660 Feet From						
Section 26 Township	23S Range 36E		Lea County					
	evation (Show whether DF, RKB, RT,							
11. Check Appropriate I	Box to Indicate Nature of I	Notice, Report, or Othe	r Data					
NOTICE OF INTENTION TO	O:	SUBSEQUENT F	REPORT OF:					
PERFORM REMEDIAL WORK PLUG AND	ABANDON REMEDIAL	. WORK	ALTERING CASING					
TEMPORARILY ABANDON CHANGE I	PLANS COMMENC	E DRILLING OPNS.	PLUG AND ABANDONMENT					
PULL OR ALTER CASING	CASING T	EST AND CEMENT JOB						
OTHER: Convert to WIW	OTHER:							
12 Describe Proceed on Completed Commisses (Classic rese								

d or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MIRU WSU, pull all production equipment. TIH w/RBP to 3,500', pressure test casing to 500 psi for 30 minutes. POH & re-perforate the 7 RVRS/Queen, acidize w/ 3,000 gals. Run injection packer and tubing, perform casing integrity test and begin water injection.

I hereby certify that the	information above is true and complete to the best of my kn	nowledge and belief.	
SIGNATURE	S. Menoud	mr Prod. Tech.	DATE
TYPE OR PRINT NAME	Denise Menoud		<b>ТЕЈЕРНОКЕ КО. 915-687-20</b> 74
(This space for State Us	<b>k</b> )		
A DECRETO SE V			D.IT.

Langlie Lynn Unit #18 Lea County, NM

**Current Conditions: Jan-99** Active-Pumping

GL Elevation: 3358' D. evation: 3370'

Location: 1980' FSL, 660' FWL,

Sec 26, T-23-S, R-36-E

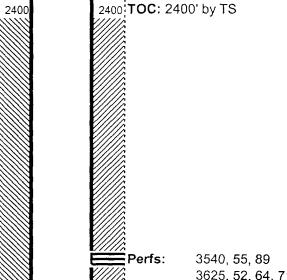
Conductor: None

Surface Casing:

7-5/8" 24# Smls, ST&C @ 312' in 11" hole Cemented to surface W/98 sx"C" + 2% CaCl2 Well Head Assembly:

Intermediate Casing:

None



PBD:

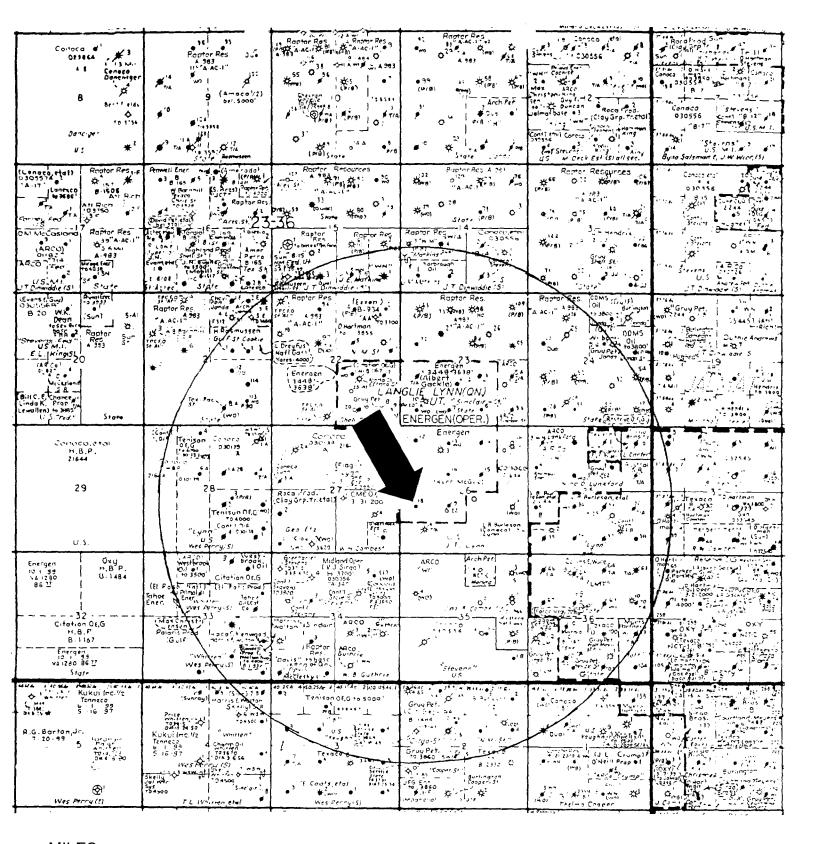
TD = 3710'

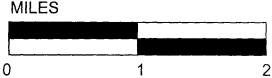
**Production Casing:** 

4 1/2" 9.50# J-55 ST&C @ 3710' in 6-3/4" hole 60 sx "C" + 4% gel, salt saturated 40 sx "C" + 12% gel, salt saturated

3625, 52, 64, 71, 81 (1 JSPF)

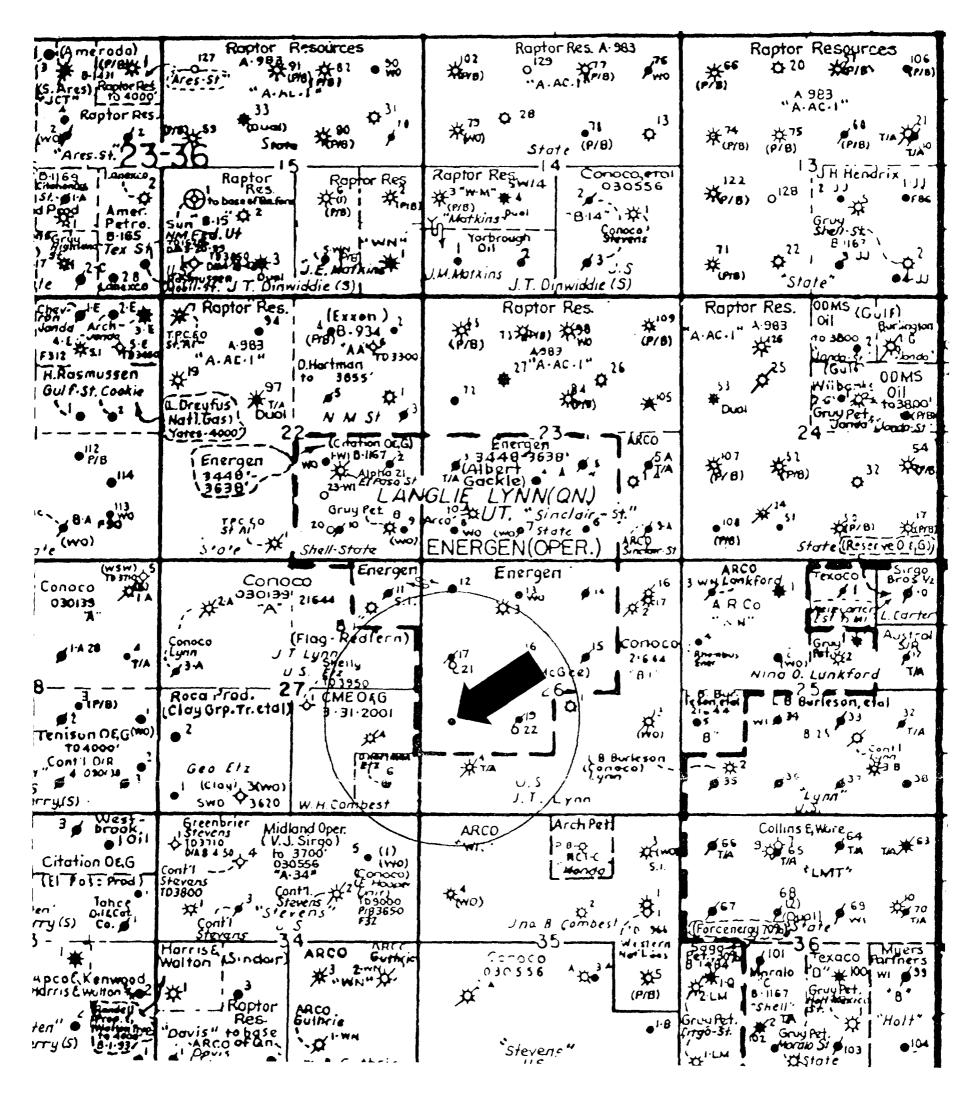
Frac: 40,000 gal lease oil + 60,000# sand





# **LANGLIE-LYNN #18**

LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E Lea County, New Mexico TWO MILE RADIUS





# **LANGLIE-LYNN #18**

LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23S – R36E Lea County, New Mexico

HALF MILE RADIUS

# **JECTION WELL DATA SHEET**

OPERATOR:		Energen f	Resource	s						
WELL NAME & NUM	BER:	Langlie Ly	nn Quee	n Unit #12	· i	125	20052			
WELL LOCATION:	660' FNL (Footage Locati	, 660' FWL	<del></del>		D (Unit Letter)	26 (Section)	T-23-S (Township)	R-36-E (Range)	Lea (County)	
			WELL	CONSTRU	CTION DATA					
				Surface C	asing					
Hole Size:	11"		_							
Casing Size:	7-5/8"	<del></del>	_ ,	, ,			"			
Cemented with:	200		_sacks	(or)			_ft3			
Top of Cement:  Method Determined:	Surface Visual		-							
Method Determined.	Visual		_							
			D	roduction	Casina					
Hole Size:	6-3/4"			<u>rounction</u>	Casny					
Casing Size:	4-1/2"		_							
Cemented with:	300		– sacks	(or)			ft3			
Top of Cement:	2100'			, <i>,</i>	<del></del>	•	<del>-</del>			
Method Determined:	TS		_							
Total Depth:	3750'		<del></del>							
			;	Slim Hole (	Casing					
Hole Size:	4-1/2"		•							
Casing Size:	2-7/8"									
Cemented with:	545		sacks	(or)			_ft3			
Top of Cement:	Surface									
Method Determined:	Visual									
				Injection li	nterval					
			•							
3446'	_ feet to	3682'			(Indicate whether	er Open Hole	or perforated	perforated		
	<i>y</i> :	į								
Tubing Sings	/ - - 0, 0,/0,!	/ = <b>=</b>	<u>Pro</u>	posed Tub	<u>ing Detail</u>					
Tubing Size: Lining Material:	2-3/8" J-5	Plastic Coat	- od (IBC)							
Type of Packer:	Baker "Le		ed (II-C)							
Packer Setting Depth:	± 3350'	on oot	<del></del> -	<del></del>						
Other Type of Tubing		eal (if applic	able):							
<u>Addtitional Data</u>										
1. Is this a new well		-			No					
If no, for what purpos		_	lly drilled		Oil and gas		<del></del> _			
<ol> <li>Name of the Injec</li> <li>Name of Field or I</li> </ol>					Rivers-Queen-Grayburg  Mattix Seven Rivers-Queen-Grayburg					
J. Hame of Flord of F	ooi (ii apţ	moable).		Langile	Mattix Geven	110015-00	een-Graybu	19		
4. Has the well ever	been perfo	orated in an	y other zo	ne(s)? Lis	t all such perfo	rated inter	vals and giv	e plugging o	detail,	
I.e. sacks of cement	or plug(s)	used.	No			<del> </del>				
			· · · · · · · · · · · · · · · · · · ·	<del></del>			<del></del>			
5. Give the name an	d depths o	f any oil or	gas zone:	s underlying	g or overlying th	ne propose	ed injection	zone in this	area:	
Jalmat Yates Gas Zo			_			•				
		<del></del>		<del></del>				·		
Completion Record										
Perfs:		See attac	hed discu	ram						
Acid, Shot, Fracture,	Squeeze:	Oce and	neu ulagi	шп						

OPERATOR:		Energen R	esource	es			_			
WELL NAME & NUM	BER:	Langlie Lynn Queen Unit #1								
WELL LOCATION:	1980' FSL	, 1980' FEL			J	22	T-23-S	R-36-E	Lea	
	(Footage Locatio	1)			(Unit Letter)	(Section)	(Township)	(Range)	(County)	
			14/51 1	CONSTR	UCTION DATA					
			VVELL							
Hole Size:	11"			<u>Surface</u>	<u>Casing</u>					
Casing Size:	8-5/8"		-							
Cemented with:	280		sacks	(or)			_ ft3			
Top of Cement:	Surface		_							
Method Determined:	Visual		-							
			,	Productio	n Casing					
Hole Size:	6-3/4"			7000000	n ousnig					
Casing Size:	4 1/2"		<u>.</u>							
Cemented with:	250		sacks	(or)			ft3			
Top of Cement:	2745'		-							
Method Determined:	CBL		_							
Total Depth:	3812'		-							
				Injection	Interval					
P&A	feet to				(Indicate wheth	er Onen Hol	e or perforated)	•		
1 4/1	_ 100110		<del></del>	<del></del>	(marcate wheth	er Open Hor	e or periorated)	·		
				Tubing	<u>Detail</u>					
Tubing Size:			_							
Lining Material:				- <del></del>						
Type of Packer:				<del></del>						
Packer Setting Depth:			<b>-</b>							
Other Type of Tubing	ycasing Se	аі (ії аррііса	able):		·	-		*		
Addtitional Data										
	duilla d fa u lu	:!:0			NI -					
<ol> <li>Is this a new well of no, for what purpos</li> </ol>			v drilled	12	No Oil and ga					
<ol><li>Name of the Inject</li></ol>		_	y urmeu	· · · · · · · · · · · · · · · · · · ·	n/a	5	<del></del>			
<ol><li>Name of field or l</li></ol>					<del></del>	attix Sever	n Rivers-Que	en-Gravbur	.a	
	,									
4. Has the well ever			other z	one(s)? Li	ist all such perfo	orated inte	rvals and giv	e plugging	detail,	
I.e. sacks of cement of Original perfs in inter							<del></del>			
Original peris in inter		22 10 3700		· · · · · · · · · · · · · · · · · · ·	<del></del>				<del></del>	
	etainer @ 3	550'			· · · · · · · · · · · · · · · · · · ·	<del></del>				
	Squeezed						<del></del>		·	
		cmt on top	of retain	ner (TOC 3	3425')					
Spot 25 s	x cmt @ 13				·					
Perf. @ 3	75'. Pump 1	48 sx cmt t	o surfac	ce.					·	
Re-entry PA'd 1-28-0	0									
See attacl	hed sheet fo	or plugging	details							
5. Give the name an Jalmat Yates Gas Zo	•			es underlyi	ng or overlying t	he propos	ed injection	zone in this	area:	
Completion Record										
Perfs:		San attack	and dian	ıram						
Acid, Shot, Fracture,	Sauceze:	See attach	ieu ulag	ji ali l						
Aulu, Silot, Fracture,	oqueeze:			·					<del></del>	

# Submit 3 Copies to Appropriate Diggiet Office

# State of New Mexico Energy Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

to Appropriate District Office	Fueldh Ameran and Mamrai Ke	source Debarment	Revised	1 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATIO		WELL API NO.	<u> </u>
DISTRICT II P.O. Drawer DD, Artesia, NM 88210		87505	30-025-09380 5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brizos Rd., Aziec, NM 87410		<del>.</del> .	STATE XX  6. State Oil & Gas Lease No. 23267	FEE
( DO NOT USE THIS FORM FOR PR DIFFERENT RESE	ICES AND REPORTS ON WELL OPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PER \$101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Nam	
1. Type of Well: OL OL WELL WELL	onex Plugge	ď	Langlie Lynn Queen Un:	lt
2. Name of Operator			8. Well No.	<del></del>
Energen Resources Cor	poration		1	_
3. Address of Operator			9. Pool name or Wildcat	
3300 N. A St, Bldg 4, 4. Well Location	Ste 100, Midland, TX	79705	Langlie Mattix 7 RVS	Queen
Unit Letter J : 19	80 Feet From The South	Line and198	Feet From The East	Line
Section 22	Township 23-S Ra	age 36-E	NMPM Lea	County
	10. Elevation (Show whether I	DF, RKB, RT, GR, etc.)		
11. Check	Appropriate Box to Indicate N	Nature of Notice, R	eport, or Other Data	
NOTICE OF IN			SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASI	NG [
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	G OPNS. DPLUG AND ABAN	NDONMENT [
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB	
OTHER:		OTHER:		[
12. Describe Proposed or Completed Opework) SEE RULE 1103.	rations (Clearly state all pertinent details, an	d give pertinent dates, incli	ding eximated date of starting any propo	sed
Larkin "R" type tubing medium-hard cement dow the casing to 500# whi Drilled cement to 1,02 RU Triple N Services & 25 sacks of Class "C" plug. Cut-off 4 1/2"	f the P&A marker. Stubb head, & BOP. RIH w/ a m to & fell out @ 372'. ch leaked-off down to 25 l', determined bit was o mixed & spotted 25 sack neat. POOH to 31' FS & casing & welded on Dry-He cellar, & cleaned the	3 7/8" blade by Circulated the O# in 6 minutes utside the casis of Class "C" mixed & spotted ole marker. Figure 1.5 of Class "C"	t. Tagged up @ 167'.  hole clean & pressure  RIH & tagged up @ 9  ng. POOH. RIH to 1,0  neat. POOH to 386', s  a 10 sack Class "C" S  lled in the working pi	Drilled d the cas 58'. 21'. potted urface t, dug up
SIONATURE	rue and complete to the best of my knowledge and	baid. LE Production 1	DATE	15/00
THE OWNER THE PARTY OF THE PART	Choud		TELEPHONE NO	(915) 687-
(This space for State Use)				
APPROVED BY	π	Œ	DATE	

### Langlie Lynn Unit #1 Lea County, NM

Conductor: None

Surface Casing: 8-5/8" 32# H-40, ST&C @ 324' in 11" hole Cemented to surface W/275 sx Regular Neat

Intermediate Casing: None

Production Casing: 4 1/2" 11.6# (1-jt) & 9.5 # J-55 ST&C @ 3812 " in 6-3/4" hole 200 Sx Regular Cement + 4% gel

Location: 1980' FSL, 1980' FEL, Current Conditions: Mar-00 Sec 22, T-23-S, R-36-E 0 sacks "C" at surface (01/28/00) Well Head Assembly: None--Well PxA Dry Hole Marker installed 25 sacks "C" from 386' (01/28/00) (Calc top @ 26') Perf @ 375' Pump 148 sacks circ. to surface (10/29/92) Drilled out (01/27/00) Drilled out to 1021'-bit outside casing (01/27/00) 25 sacks "C" from 1021' (01/28/00) 25 sacks "C" from 1300' (tagged top @ 931') (10/29/92) TOC 2745' By CBL 7 sx cement on retainer (tag @ 3425') Retainer @ 3550'- Squeezed w/50 sx (10/29/92) Perfs: 7 Rivers--3622-28, 34-38, 42-46, 48-52, 60-66' Queen--3682-3708, 19-24, 29-32, 36-40, 66' Frac W/ 36,000 gal lease oil + 54,000# sand

PBD: 3782'

TD = 3812'

GL avation: 3388' KB Elevation: 3399.3'

OPERATOR:		Energen F	Resource	s								
WELL NAME & NUM	BER:	Langlie Ly	nn Quee	n Unit #2					<del></del>			
WELL LOCATION:	1980' FSL	, 660' FEL			1	22	T-23-S	R-36-E	Lea			
•	(Footage Location	n)			(Unit Letter)	(Section)	(Township)	(Range)	(County)			
			WELL	CONSTRU	CTION DATA							
				Surface C	asing							
Hole Size:	11"		<del>-</del>									
Casing Size:	8-5/8" @ 3	320'	_		7.0							
Cemented with:				(or)		<del></del>	_ft3					
Top of Cement:	Surface		_									
Method Determined:	Visual		<del>-</del>									
			<u> </u>	roduction	Casing							
Hole Size:	7-7/8"		_									
Casing Size:	5-1/2" @ 3	3761'	<b></b>									
Cemented with:	200		sacks	(or)			_ft3					
Top of Cement:	Unknown		_									
Method Determined:			_									
Total Depth:	3765'	<del> </del>	_									
				Injection Ir	atonial							
				injection n	itervar							
3510'	feet to	3732'			(Indicate whethe	er Open Hole	or perforated)	perforated				
	-											
				Tubing D	notail							
Tubing Size:	2-3/8" @			Tubing L	etan							
Lining Material:	2000	<del></del>	<b>-</b>									
Type of Packer:	None				<del></del>							
Packer Setting Depth:		<del></del>										
Other Type of Tubing	/Casing Se	al (if applic	- able):									
<u>Addtitional Data</u>												
1. Is this a new well of	drilled for in	iection?			No							
If no, for what purpos			ly drilled	?	Oil and gas							
2. Name of the Inject		=	., .,		n/a			<del></del>	1			
3. Name of Field or F						ttix Seven	Rivers-Que	en-Graybur	g			
		·		<del>-</del> 1					-			
4. Has the well ever	· ·	-	other zo	ne(s)? Lis	•	rated inter	vals and giv	e plugging o	letail,			
I.e. sacks of cement	or plug(s) u	sed.			No							
		-										
5. Give the name an	d depths of	anv oil or o	as zone	s underlying	a or overlying th	ne propose	ed injection:	zone in this	area:			
Jalmat Yates Gas Zo	•	-	-		יי פיייניים יי				<del></del>			
Completion Description												
Completion Record												
Perfs:		See attac	hed diag	ram								
Acid Shot Fracture	Saneese.		9				<u> </u>					

Form C-103 State of New Mexico Submit 3 Copies To Appropriate District Minerals and Natural Resources Office Enc Revised March 25, 1999 District.1 WELL API NO. 1625 N. French Dr., Hobbs, NM 87240 30-025-09379 District II OIL CONSERVATION DIVISION 5. Indicate Type of Lease 811 South First, Artesia, NM 87210 2040 South Pacheco District III STATE X FEE  $\square$ 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe. NM 87505 District IV 6. State Oil & Gas Lease No. 2040 South Pacheco, Santa Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name: (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) Langlie Lynn Queen Unit 1. Type of Well: Oil Well X Gas Well Other 8. Well No. 2. Name of Operator Energen Resources Corporation 3. Address of Operator 9. Pool name or Wildcat 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705 Langlie Mattix 7 RVRS/Queen/GB 4. Well Location 1980 South 660 Unit Letter feet from the East line and feet from the\_ line 22 Township 235 Range 36E **NMPM** Section County Lea 10. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING **TEMPORARILY ABANDON CHANGE PLANS** COMMENCE DRILLING OPNS. **PLUG AND ABANDONMENT** PULL OR ALTER CASING **MULTIPLE** CASING TEST AND COMPLETION CEMENT JOB OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation. 02/02/00: MIRUPU to repair csg leak between 570'-602' FS. Shot 4 sqz holes @ 2,700' FS & 4 holes @ 1,589' FS. Set cmt ret @ 1,521', sqz'd the 5 1/2" x 8 5/8" annulus in 2 stages: 400 sx Cl C (slurry-679 cu.ft) & 175 sx Cl C (surry-253 cu.ft.), 5 sx circ 02/04-10/00: D.O. cmt, tested sqz, still had some leak-off. Re-sqz'd as follows: spotted 12 sx @ 2702'(slurry-16.2 cu.ft.), 6 sx @ 1622', & 12 sx @ 608'. D.O. cmt, tested sqz. pressure held. Ran CNL/GR/CCL. new WL PBTD @ 3738'. 02/11/00: Perf 7 RVRS/Queen @ 3510'-88' (total of 120 new holes). Acidized w/ 3000 gals 15% HCL. 02/16/00: RIH w/ 2 3/8" tbg, set @ 3582'. RIH w/ 2  $\times$  1 1/2  $\times$  12 RWBC pump. 02/29/00: 24 hr retest: 5 BO/ 33 BW/ 0 MCF. RIH w/ add. 4 jts tbg, set @ 3708'. I hereby certify that the information above is true and complete to the best of my knowledge and belief. TITLE Production Tech. SIGNATURE. 3/15/2000 \_DATE\_ Type or print name Denise Menoud Telephone No. (915)687-2074 (This space for State use) ORIGINAL SIGNED BY OFRIS WILLIAMS DISTACT I SUPERVISORTLE APPROVED BY

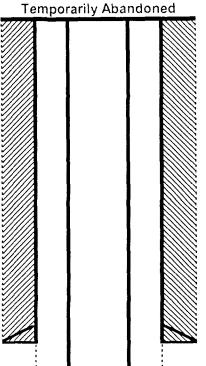
Conditions of approval, if any:

DATE

Langlie Lynn Unit #2 Lea County, NM

Conductor: None

Surface Casing: 8-5/8" 32# H-40, ST&C @ 330' in 12-1/4" hole Cemented to surface W/275 sx Regular Neat Current Conditions: Jan-99



GI Flevation: 3391'

Sec 22, T-23-S, R-36-E

Well Head Assembly:

### Intermediate Casing:

None

NOTE: Well records indicate casing leak at unknown depth.

No record of leak location or casing repair

??? **TOC:** unknown

### **Production Casing:**

5 1/2" 15.50# J-55 ST&C @ 3761 " in 7-7/8" hole 200 Sx Regular Cement + 4% gel 7 Rivers: 3590-94' Queen: 3626-30, 6

Queen: 3626-30, 69-73, 85-91, 96-99' 3705-09, 13-16, 19-22, 28-32'

Top interval 4 JSPF, all others 2 JSPF Frac W/ 27,000 gal lease oil + 1.5 ppg sand

PBD: Baffle @ 3741'

Perfs:

TD = 3765'

OPERATOR:	Energen Re	esources						
WELL NAME & NUM	BER: Langlie Lyn	n Queer	Unit #4					<del>,</del>
WELL LOCATION:	1650' FSL, 2310' FWL			К	23	T-23-S	R-36-E	Lea
•	(Footage Location)			(Un:t Letter)	(Section)	(Township)	(Range)	(County)
		WELL C	ONSTRU	CTION DATA				
			Surface C					
Hole Size:	15"	3	Surrace C	<u>asırıy</u>				
Casing Size:	10-3/4" @ 750'							
Cemented with:	500	sacks	(or)			_ft3		
Top of Cement:	Surface					<del></del>		
Method Determined:	Visual							
	•	Int	ermediate	Casing				
Hole Size:	10"							
Casing Size:	7-5/8" @ 1235'							
Cemented with:		sacks	(or)			ft3		
Top of Cement:	Unknown		- ·		·	<b>-</b>		
Method Determined:								
	Production Casing				<u>Pro</u>	duction Lin	<u>ier</u>	
Hole Size:	6-3/4"			Hole Size:		4-3/4"		
Casing Size:	5-1/2" @ 2900'			Casing Size		4-1/2" @ 3	3750'	
Cemented with:		sacks		Cemented		115	<del></del>	sacks
Top of Cement:	Unknown			Top of Cerr		Unknown		
Method Determined:				Method Det Total Depth		3751' OW	חח	
		_		·		0,0,0,0,0		•
		<u> </u>	njection Ir	<u>iterval</u>				
3440'	feet to 3628'			(Indicate whethe	r Open Hole	or perforated)	perforated	
			Tubing D	etail				
Tubing Size:	2-3/8"			-				
Lining Material:		<del></del>						
Type of Packer:	None	<del> </del>		<del></del>				
Packer Setting Depth: Other Type of Tubing	/Casing Seal (if applica	ble):						
Addtitional Data								
1. Is this a new well				No				
	e was the well originally	/ drilled?		Oil and gas				
<ol><li>Name of the Inject</li></ol>	-			n/a		<del></del>		
3. Name of Field or F	Pool (if applicable):	<del></del>	<del></del>	Langlie Mat	ttix Seven	Rivers-Que	en-Graybu	g
4. Has the well ever l.e. sacks of cement	been perforated in any or plug(s) used.	other zor	ne(s)? Lis	t all such perfor	rated inter	vals and giv	e plugging	detail,
	d depths of any oil or gane, Top @ approx. 304		underlying	g or overlying th	ne propos	ed injection	zone in this	area:
Completion Record			<del></del>				<del> </del>	<u> </u>
Perfs:	See attach	ed diagra	am	<del></del>	· · · · · · · · · · · · · · · · · · ·			
Acid, Shot, Fracture,	Squeeze:							

State of New Mexico Form C-103 Submit 3 Copies To Appropriate District Office , Minerals and Natural Resources En Revised March 25, 1999 District. WELL API NO. 1625 N. French Dr., Hobbs, NM 87240 30-025-09387 District II OIL CONSERVATION DIVISION 811 South First, Artesia, NM 87210 5. Indicate Type of Lease 2040 South Pacheco District III STATE X FEE  $\square$ 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 District IV 6. State Oil & Gas Lease No. 2040 South Pacheco, Santa Fe, NM 87505 23267 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name: (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) Langlie Lynn Queen Unit 1. Type of Well: Oil Well X Gas Well Other 2. Name of Operator 8. Well No. Energen Resources Corporation 3. Address of Operator 9. Pool name or Wildcat 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705 Langlie Mattix 7 RVRS/Queen/GB 4. Well Location 1650 Unit Letter feet from the South 2310 West \_\_ line and\_ feet from the Section Township 23S Range 36E **NMPM** County Lea 10. Elevation (Show whether DR, RKB, RT, GR, etc.) 11. Check Appropriate Box to Indicate, Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK X ALTERING CASING TEMPORARILY ABANDON **CHANGE PLANS** COMMENCE DRILLING OPNS. PLUG AND **ABANDONMENT** PULL OR ALTER CASING CASING TEST AND MULTIPLE COMPLETION **CEMENT JOB** OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation. 02/22-23/00: MIRUPU, pulled production equipment. Cleaned out fill to new PBTD of 3,685', (could not bail any deeper). 02/24/00: Re-perforated the 7 RVRS/ Queen @ 3,440'-78', (total of 152 holes). Old perfs @ 3,440'-3.526' & 3,542'-3,628'. Acidized perfs w/ 3M gals 15% HCL acid. 02/29/00: RIH w/ rods & 2 3/8" tubing. Tubing landed @ 3,660'. RDPU & RWTP. 03/05/00: Retest: 3 BO/ 27 BW. I hereby certify that the information above is true and complete to the best of my knowledge and belief. TITLE Production Tech. 03/21/00 DATE\_ Type or print name Denise Menoud Telephone No. (915)687-2074 UNICINAL SIGNED BY CHRIS WITCHAMS (This space for State use) MAR 24 2000 DISTAIST STIPERVISSA APPROVED BY\_ TITLE

Conditions of approval, if any:

# ENERGEN RESOURCFS, INC. Langlia Lynn Unit #4 Lea County, NM Current Conditions: Jan-99 Active-Pumping Conductor: None Surface Casing: 10-3/4" 28# casing @ 225' in ?" hole Cemented to surface W//500 sacks 7-5/8" 26# Casing @ 1235' with 500 sacks cement

C' Elevation: 3370'
Elevation: 3380'

Location: 1650' FSL, 2310' FWL,

Sec 23, T-23-S, R-36-E

Well Head Assembly:

Production Casing: 5-1/2" 14# @2795' with 600 sacks

Production Liner: 4 1/2" 16.60# Liner from 2768-3750' @ 3750' in ?" hole with 115 sacks

7-Rivers Perfs: 3478-90, 3494-3503, 06, 10, 17-26' (1/90) Queen Perfs: 3542-70, 3576-3614, 3618-3628'

Frac: 20,000 gals Lease oil

TOC: unknown

PBD: ?' TD = 3750'

OPERATOR:		Energen R	esource	S					
WELL NAME & NUM	BER:	Langlie Ly	nn Queei	n Unit #6					
WELL LOCATION:	660' FSL,	1980' FEL			0	23	T-23-S	R-36-E	Lea
•	(Footage Location	en)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL (	CONSTRU	ICTION DATA				
				Surface C	asing				
Hole Size:	11"		_						
Casing Size:	8-5/8"		_			•			
Cemented with:	150		sacks	(or)			_ft3		
Top of Cement:	Surface	,	_						
Method Determined:	Visual		-						
	,		n	raduation	Casina				
Hole Size:	6-3/4"		<u> </u>	<u>roduction</u>	<u>vasniy</u>				
	4-1/2"	<del></del>	-						
Casing Size: Cemented with:	1150		- sacks	(or)			ft3		
Top of Cement:	Unknown	<del></del>	- 30003	(01)			-110		
Method Determined:	OTKHOWH		-						
Total Depth:	3728'		-						
Total Deptil.	0120		-						
			1	njection l	nterval				
3456'	_ feet to	3612'		<del></del>	(Indicate whethe	er Open Hole	or perforated)	perforated	
				Tubing L	<u>Detail</u>				
Tubing Size:	2-3/8"		_						
Lining Material:		· · · · · · · · · · · · · · · · · · ·							
Type of Packer:	None								
Packer Setting Depth:			<b>-</b>						
Other Type of Tubing	g/Casing Se	al (if applica	able):						
Addtitional Data									
1. Is this a new well		•			No		<del></del>		
If no, for what purpos		-	y arilled?	, <u> </u>	Oil and gas	S			
2. Name of the Injec					n/a	His Carra	Divers O:	on C== 1	·
3. Name of Field or I	Pool (If app	licable):		<del></del>	Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever			other zo					e plugging o	detail,
I.e. sacks of cement	or prug(s) u	ocu.				***			
5. Give the name an	d depths of	any oil or g	as zones	underlyin	g or overlying th	ne propose	ed injection	zone in this	area:
Jalmat Yates Gas Zo		-							
0		<del></del>		<del></del>		·	<del></del>	····	
Completion Record									
Perfs:		See attach	ned diagr	am					
Acid, Shot, Fracture,	Squeeze:								

Langlie Lynn Unit #6 Lea County, NM

Conductor: None

Surface Casing: 8-5/8" 24# J-55, ST&C @ 269' in 11" hole Cemented to surface W/150 sx 50/50 Pozmix

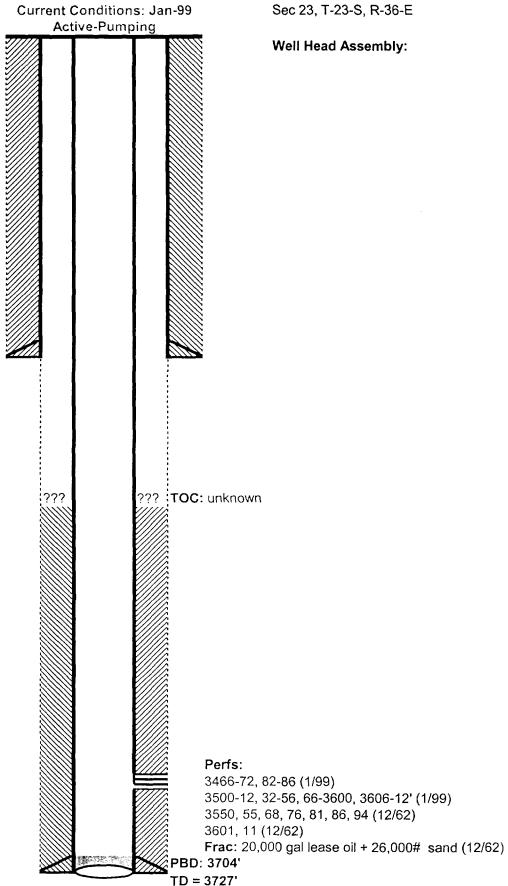
Intermediate Casing: None

**Production Casing:** 4 1/2" 9.50# J-55 ST&C @ 3727' in 6-3/4" hole 1100 sx 50/50 Pozmix 50 Sx Regular Cement + Latex GL Flevation: 3374' K<sub>k</sub> 'evation: 3385'

Location: 660' FSL, 1980' FEL,

Sec 23, T-23-S, R-36-E

Well Head Assembly:



OPERATOR:		Energen l	Resource	S					
WELL NAME & NUM	BER:	Langlie Ly	/nn Quee	n Unit #8					
WELL LOCATION:	660' FSL,	660' FWL			M	23	T-23-S	R-36-E	Lea
•	(Footage Localid	on)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL (	CONSTRU	CTION DATA				
				Surface C	asing				
Hole Size:	11"								
Casing Size:	8-5/8"		_						
Cemented with:	150		_sacks	(or)			_ft3		
Top of Cement:	Surface	· · · · · · · · · · · · · · · · · · ·	<del>_</del>						
Method Determined:	Visual		_						
	· ·								
			<u>P</u>	roduction	Casing				
Hole Size:	6-3/4"								
Casing Size:	4-1/2"		_						
Cemented with:	1926		sacks	(or)			_ft3		
Top of Cement:	Surface		_						•
Method Determined:	Visual								
Total Depth:	3712'		_						
				lniootion le	stanial				
			2	Injection Ir	itervai				
3482'	feet to	3673'			(Indicate whethe	er Open Hole	or perforated)	perforated	
	_			<del></del>	(marcate mistre	л орол пою	or portoratou,	<u> </u>	
Tubing Circu	2-3/8"			Tubing D	<u>etail</u>				
Tubing Size: Lining Material:	2-3/0		_						
Type of Packer:					<del></del>				
Packer Setting Depth:					<del></del>				
Other Type of Tubing	/Casing Se	eal (if applic	able):						
1. Is this a new well	drilled for in	niection?			No				
If no, for what purpos		-	lly drilled?	)	Oil and gas				<del></del>
2. Name of the Inject		_	•	<del></del>	n/a				
3. Name of Field or F	Pool (if app	licable):			Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g
4 Has 0 a - 0 and	l		41	- ( )0 11					. ,
4. Has the well ever			otner zo	ne(s)? List	t all such perfor	rated inter	vals and giv	e plugging o	detail,
I.e. sacks of cement	or plug(s) c	1960.		· · · · · · · · · · · · · · · · · · ·					
	<del></del>	<del></del>	<del></del>	······································					
5. Give the name an				s underlying	g or overlying th	ne propose	ed injection :	zone in this	area:
Jalmat Yates Gas Zo	ne, Top @	approx. 30	40'						
Completion Record				<del>,                                    </del>					****
		Coo o#==	had dise	<b>a</b> m					
Perfs:	Saucezo	See attac	neu diagr	am	<del></del>				

Langlie Lynn Unit #8 Lea County, NM

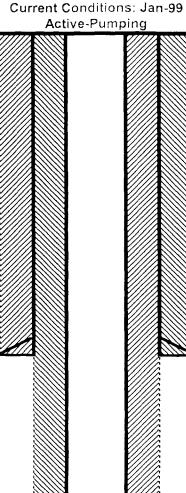
Conductor: None

Surface Casing:

8-5/8" 24# J-55, ST&C @ 272' in 11" hole Cemented to surface W/150 sx 50/50 Pozmix

Intermediate Casing: None

**Production Casing:** 4 1/2" 9.50# J-55 ST&C @ 3712' in 6-3/4" hole 1876 sx 50/50 Pozmix 50 sx Regular cement + Latex Cement Circulated



GL Flevation: 3358' KL evation: 3370'

Location: 660' FSL, 660' FWL,

Sec 23, T-23-S, R-36-E

Well Head Assembly:

Perfs: 3533,58, 69, 80, 89, 92, 96,

3604, 12, 16, 32, 38, 43, 47, 54, 58, 61, 70, 73'

Frac: 20,000 gal lease oil + 28,000# sand (11/62)

PBD: 3695' TD = 3712'

Note: Records indicate 18' corroded mud anchor left in hole (8/87)

OPERATOR:		Energen F	Resource	es				<del></del>	
WELL NAME & NUM	BER:	Langlie Ly	nn Que	en Unit #10		····			
WELL LOCATION:	660' FSL,	1650' FEL			0	22	T-23-S	R-36-E	Lea
	(Footage Locatio				(Unit Letter)	(Section)	(Township)	(Range)	(County)
			\4/F1 I	CONCTR	IOTION DATA				
			WELL		JCTION DATA				
Hole Size:	9-7/8"			Surface (	<u>Casing</u>				
Casing Size:	7-5/8"		-						
Cemented with:	225		- sacks	(or)			ft3		
Top of Cement:	Surface		-				<b>-</b>		
Method Determined:	Visual		-						
				Dun desation	. Carina				
Hole Size:	6-3/4"		!	<u>Production</u>	<u>i Casing</u>				
Casing Size:	4-1/2"		_						
Cemented with:	200		- sacks	(or)			ft3		
Top of Cement:	Unknown			(/					
Method Determined:			<del></del>						
Total Depth:	3812'		-						
Total Bopan	<u> </u>								
				Injection	<u>Interval</u>				
P&A	feet to				(Indicate whether	er Open Hole	or perforated)		
				<u>Tubing</u>	Detail				
Tubing Size:									
Lining Material:									
Type of Packer:									
Packer Setting Depth:			-						
Other Type of Tubing	g/Casing Se	al (if applic	able):	<del></del>				<del></del>	
Addtitional Data									
1. Is this a new well	drilled for in	iection?			No				
If no, for what purpos		•	lly drilled	1?	Oil and gas	 }	· · · · · · · · · · · · · · · · · · ·		
2. Name of the Injec		-	•		n/a				
3. Name of Field or l					Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever	been perfo	rated in any	y other z	one(s)? Li	st all such perfo	rated inter	vals and giv	e plugging	detail,
I.e. sacks of cement					<del></del>				
Old perfs in interval f			'd 7-2-86	<u> </u>					
See attached sheet f	or plugging	detail							
5. Give the name an		•	_	es underlyir	ng or overlying th	ne propos	ed injection	zone in this	area:
Completion Record	!								
Perfs:		See attac	hed diag	gram		_			
Acid, Shot, Fracture,	Squeeze:								***************************************

THE East LINE, SECTION 22 TOWNSHIP 235 RANGE 36E NAME.  15. Elevation (Show whether DF, RT, GR, etc.)  12. County Lea  16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK  PUUG AND ABANDON ARMEDIAL WORK  ALTERING CABINS			
NEW MEXICO OIL CONSERVATION COMMISSION  Citize of City	NO. OF COPIES RECEIVED		
SUNDRY NOTICES AND REPORTS ON WELLS  State Classes Via Control of Consolidation of Consolid	DISTRIBUTION		
Subject of the propriet Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Active and Advisory  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  Active and Advisory  Check Appropriate Systems (Clearly state all penthers sensity, and gus penthens dates, including estimated date of starting any Pro- Notice and Active and Advisory  Check Appropriate Systems (Clearly state all penthers sensity, and gus penthens dates, including estimated date of starting any Pro- Notice Systems (Clearly Appropriate Systems (Clearly Sys	SANTA FE	NEW MEXICO OIL CONSERVATION COMMISSION	
SUNDRY NOTICES AND REPORTS ON WELLS  BO NOT USE THIS PROPERTY SHAPE SHAP			
LAND OFFICE OPERATOR  Solve I God Leave No.  1. State I God Leave No.  8 - 1/67  100 407 WE THE PROPERTY OF TH			Sa, Indicate Type of Lease
Series of General Sundry Notices and reports on Wells  (a) and the first product of the Control	<del></del>		
SUNDRY NOTICES AND REPORTS ON WELLS    SUNDRY NOTICES AND REPORTS ON WELLS   SUNDRY NOTICES AND REPORTS ON WELLS   Note of Capital State   Sta	LAND OFFICE		
Section of the properties of t	OPERATOR		
2. Name of Operation  CONOCO INC.  3. Address of Operation  CONOCO INC.  4. Location of Well  Will See The Section 22 read of the Conoco Inc.  Cono	SUNDRY	NOTICES AND REPORTS ON WELLS	
2. Name of Operator  CONOCO INC.  1. Address of Operator  CONOCO INC.  1. Address of Operator  CONOCO INC.  1. Address of Operator  P. O. Box 460, Hobbs, N.M. 88240  4. Location of Well  Unit Little D  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  ***CEAST**  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  ***CEAST**  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  ***CEAST**  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  ***CEAST**  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  ***CEAST**  ***CHANGE PLANS**  ***CHANGE PLANS*		N FOR PERMIT I'M (FORM C-101) FOR SUCH PROPOSALS.)	7 Unit Agreement Name
CONOCO INC  1. Address of Operator P. O. Box 460, Hobbs, N.M. 88240  4. Location of Well  Unity Letter O (640 rect 1600 the South Line and 1650 rect 1600 the Martin 70)  The East Line, secritis 22 reason 235 rese 36E results  15. Elevation (Show whether DF, RT, GR, etc.)  12. Sounty  Lea  15. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  **EASTORM REMEDIAL WORK   Subsequent REPORT OF:  **EASTORM REMEDIAL WORK   Subsequent	OIL GAS WELL WELL	OTHER. In, well	
1. Address of Operator P. O. Box 460, Hobbs, N.M. 88240  4. Location of Well  WHIT LETTER O		<b>c.</b>	
UNIT LETTER D. 640 PEET FROM THE SOUTH LINE AND 1650 PEET FROM MARTIN 71.  THE FAST LINE, RECTION 22 TOWNERS 235 AND 36E VAN.  15. ELEVATION (Show whether DF, RT, GR, etc.)  12. County  15. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  PERFORM REMESIAL WORK TEMPORATICY ASANDON  PULL DA ALTER CASING  CHARGE SLAND  ALTERING CASING  CH	3. Address of Operator P. O. Box 460,	Hobbs, N.M. 88240	
UNIT LETTER D. 640 PEET FROM THE SOUTH LINE AND 1650 PEET FROM MARTIN 71.  THE FAST LINE, RECTION 22 TOWNERS 235 AND 36E VAN.  15. ELEVATION (Show whether DF, RT, GR, etc.)  12. County  15. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  PERFORM REMESIAL WORK TEMPORATICY ASANDON  PULL DA ALTER CASING  CHARGE SLAND  ALTERING CASING  CH			10 = 10
The East Line, section 22 Township 235 save 36E NUM.  15. Elevation (Show whether DF, RT, CR, etc.)  12. Country Lea  Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  ***COUNTRY LEADS OF THE PROPRIATE CARNES CANNOT COUNTRY LEADS OF THE PLUB AND ABANDON THE PLUB AND ALTERNAS CARNES COUNTRY COU		40 PEET FROM THE SOUTH LINE AND 1650 PEET	Langlie Mattix This
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  SUBSEQUENT REPORT OF:  **EATORN REMEDIAL WORK TENDOATHING TO:  **CANON REMED	- 1		THITTINITE TO THE
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  **CATORM REMEDIAL WORK   ** NOTICE OF IN	THE <u>East</u> LINE, BECTION	-22 rowyahir $235$ $36E$	
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  PERFORM REMEDIAL MORE TEMPORALITY ALAMSON TEMPORALITY ALAMSON THE CABINA  OTHER  17. DARRIES Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starring any project of the property of the proper		1444	
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  **EATORM REMEDIAL WORK		15. Elevation (Show whether DF, RT, GR, etc.)	i 2. County
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:  **EATORM REMEDIAL WORK			Lea Allilli
TEMPORABILY ABANDON PULL DR ALTER CASING  OTHER  17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed or CIBP @ 3600°, Displace hole w/mud, Set3cmt plugs, Tag top of plug after waiting on cont 35 hrs. (Top@1140°)  3 Bullhead 3e0 sxs class 'C' cmt down 45 csg, had good return out 758" csg. Installed PfH marker.  Brig down on 7-2-86.			
CHANGE PLANS CASING TEST AND ELMENT ICES  OTHER  OTHER  17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any project work) see RULE 1703.  OMIRU on 7-1-86, Pooh W/ tog  Set CIBP@ 3600', Displace hole W/mud, Set3cmt plugs, Tag  top of plug after waiting on cint 35 hrs. (Top@ 1140')  Bullhead 300 sxs class'c' cmt down 45 csg, had good refur:  Out 788" csg. Installed PfH marker.  Rig down on 7-2-86.	PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed or Completed Described Pertinent dates, including estimated date of starting any proposed or Completed Described Descr	TEMPORARILY ABANGON	COMMENCE ORICHING SPHE.	PLUG AND ABANDONMENT
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any property work) SEE HULE 1703.  DMIRU on 7-1-86, Poot W/ they  Set CIBP@ 3600', Displace hole W/mud, Set3cmt plugs. Tag  top of plug after waiting on cmt 3½ hrs. (Top@ 1140')  Bullhead 300 sxs class "c" cmt down 4½ csg, had good refur:  Out 7%" csg. Installed PfH marker.  Brig down on 7-2-86.	PULL OR ALTER CASING	CHANGE PLANS CASING TEST AND CEMENT JOS	
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any pro- work) SEE RULE 1 1703.  MIRU ON 7-1-86. POOH W/ they  Set CIBP@ 3600'. Displace hole W/mud, Set 3cmt plugs, Tag top of plug after waiting on cmt 35 hrs. (Top@ 1140')  Bullhead 360 sxs class c/ cmt down 45 csg, had good refur: Out 788" csg. Installed P&H marker.  Rig down on 7-2-86.		THER	
MIRU on 7-1-86. Poot w/ they  Set CIBP@ 3600', Displace hole w/mud, Set3cmt plugs. Tag top of plug after waiting on cmt 35 hrs. (Top@ 1140')  Bullhead 300 sxs class "C" cmt down 45 csg, had good refur: Out 788" csg. Installed PfH marker.  Brig down on 7-2-86.	OTHER		
MIRU on 7-1-86. Poot w/ they  Set CIBP@ 3600', Displace hole w/mud, Set3cmt plugs. Tag top of plug after waiting on cmt 35 hrs. (Top@ 1140')  Bullhead 300 sxs class "C" cmt down 45 csg, had good refur: Out 788" csg. Installed PfH marker.  Brig down on 7-2-86.			
(4) Kig down on 1-2-86.	17. Describe Proposed or Completed Oper work) SEE RULE 1 (01.	tations (Clearly state all pertinent details, and give pertinent dates, includ	ling estimated date of starting any propo
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	MIRU on 7-1-8.  Det CIBP@3  Top of plug of plu	6. PooH w/tbg 8600', Displace hole w/mud, Se after waiting on cmt 3½ hrs. (To sxs class'c' cmt down 4½ csg, Installed PFH marker, 7-2-86.	+3cmt plugs. Tag Sp@ 1140') had good return
	18. I hereby certify that the information ab	bove is true and complete to the best of my knowledge and belief.	

CONDITIONS OF APPROVAL IF ANY

OIL & GAS INSPECTOR

\*\*\* SEP 1 1 108E

### Langlie Lynn Unit #10 Lea County, NM

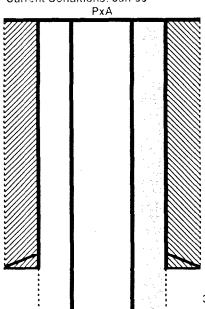
Conductor: None

Surface Casing: 7-5/8" 32# H-40, ST&C @ 307' in 11" hole Cemented to surface W/225 sx Regular Neat

Intermediate Casing:

None

Production Casing: 4 1/2" 10.5 & 11.6# J-55 ST&C @ 3800 " in 6-3/4" hole 200 Sx Regular Cement + 4% gel Current Conditions: Jan-99



GL Elevation: 3391' KB Elevation: 3401'

Location: 660' FSL, 1650' FEL,

Sec 22, T-23-S, R-36-E

Well Head Assembly: None--Well PxA Dry Hole Marker installed

300 Sacks bull headed down 4-1/2" & out 7-5/8"

Casing Leaks: 321-1236'

TOC Unknown

25 sacks "C" from 1302-582' (7/86)

20 sacks "C" from 3095-2805' (7/86)

20 Sx plug on CIBP top @ 3310' (7/86)

Retainer @ 3600' (7/86)

Perfs:

3623, 41 (5/74 Conv to WIW)

3659, 71, 75, 84, 85, 93,

3700, 04, 05, 13, 15, 21, 22, 23, 31, 35, 39, Frac W/ 30,000 gal lease oil + 40,000# sand 3770, 72, 76, 82, 84, 85, 87, 90, 93 (Squeezed 6/63)

PBD: 3782' TD = 3812'

OPERATOR:		Energen Re	esource	S					
WELL NAME & NUM	BER:	Langlie Lyn	n Quee	n Unit #13					····
WELL LOCATION:	660' FNL,	1980' FWL			C_	26	T-23-S	R-36-E	Lea
•	(Footage Location	on)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL	CONSTRU	ICTION DATA				
Hole Size:	11"			Surface C	<u>asmy</u>				
Casing Size:	7-5/8"								
Cemented with:	200		sacks	(or)			ft3		
Top of Cement:	Surface			• •			_		
Method Determined:	Visual								
Hole Size:	6-3/4"		<u>P</u>	roduction	Casing				
Casing Size:	4-1/2"								
Casing Size.  Cemented with:	250		sacks	(or)			ft3		
Top of Cement:	2500'		Sacks	(01)	***		-110		
Method Determined:	TS								
Total Depth:	3700'								
·									
			,	Injection I	<u>ntervai</u>				
3446'	_ feet to	3638'		<del></del>	(Indicate whether	er Open Hole	or perforated)	perforated	
				Tubing L	<u>Detail</u>				
Tubing Size:	2-3/8"								
Lining Material:					<del></del>				
Type of Packer:		<del> </del>	<del></del>	<del></del>					
Packer Setting Depth: Other Type of Tubing	/Casing Se	al (if applica	ble):						
Canon type of themis	,, , , , , , , , , , , , , , , , , , , ,	т. (п аррига							
Addtitional Data									
Is this a new well of	drilled for in	niection?			No				
If no, for what purpos		•	drilled	?	Oil and gas				
2. Name of the Inject					n/a				· · · · · · · · · · · · · · · · · · ·
3. Name of Field or I					<del></del>	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever l.e. sacks of cement			other zo	ne(s)? Lis	st all such perfo	rated inter	vals and giv	re plugging o	detail,
5. Give the name an Jalmat Yates Gas Zo				s underlyin	g or overlying th	ne propose	ed injection	zone in this	area:
Completion Record	· · · · · · · · · · · · · · · · · · ·								
Perfs:		See attach	ed diad	-am					
Acid Shot Fracture	Squeeze:	OGG ALLACIT	ou ulayi	um					

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### State of New Mexico Ene. , Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

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

OIL CONSERVATION DIVISION P.O. Box 2088 WELL API NO. 30-025-20335

DISTRICT II	Conta Ca Marri Mar	-:	07501 2000	
P.O. Drawer DD, Artesia, NM 8821	Santa Fe, New Mex	uco i	67304-2066	5. Indicate Type of Lease  STATE X FEE
DISTRICT III				
1000 Rio Brazos Rd., Aztec, NM 8	7410			6. State Oil & Gas Lease No. 23267
SUNDRY	NOTICES AND REPORTS ON	WEL	LS	
	OR PROPOSALS TO DRILL OR TO DEE			7. Lease Name or Unit Agreement Name
	RESERVOIR. USE "APPLICATION FO		RMIT"	7. Description of our resourch Halic
	ORM C-101) FOR SUCH PROPOSALS.	<u> </u>		Langlie Lynn Queen Unit
1. Type of Well:				
WELL X WEL	L OTHER			
2. Name of Operator				8. Well No.
Energen Resources	Corporation			13
3. Address of Operator .				9. Pool name or Wildcat
3300 N. A St, Bldg	4, Ste 100, Midland, T	X	79705	Langlie Mattix 7 RVRS/Queen/GB
4. Well Location				
Unit Letter : _	660 Feet From The Nort	h	Line and1980	Feet From The East Line
Section 26		Ra		NMPM Lea County
	10. Elevation (Show w)	hether I	DF, RKB, RT, GR, etc.)	
11. Ch	neck Appropriate Box to Indic	ate N	Nature of Notice, Re	eport, or Other Data
	F INTENTION TO:		·	SEQUENT REPORT OF:
			300	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRILLING	OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING			CASING TEST AND CE	MENT JOB
OTHER:			OTHER:	
12. Describe Proposed or Completed work) SEE RULE 1103.	d Operations (Clearly state all pertinent det	ails, an	l d give pertinent dates, includ	ling estimated date of starting any proposed
MIRU WSU, pull pro	oduction equipment. Re- @ 3,496'-3,504'. Acidi			

			·
I hereby certify that the info	ormation above is true and complete to the best of my knowledge and belief.		
SIGNATURE	X menous me	Prod. Tech.	DATE3/13/2000
TYPE OR PRINT NAME	Denise Menoud		те <b>лерноне но.</b> 915—687— <u>2</u> 0
(This space for State Use)			٠.٠
· wooden by	ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT LISURERVISORIE		DATE - PATE

Langlie Lynn Unit #13 Lea County, NM

Current Conditions: Jan-99
Active-Pumping

GL Flevation: 3376' KL .evation: 3386'

Location: 660' FNL, 1980' FWL,

Sec 26, T-23-S, R-36-E

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C @ 318' in 11" hole Cemented to surface W/200 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:

None

2500 **TOC**: 2500' by TS

TD = 3700'

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3700' in 6-3/4" hole 250 sx "C" Neat **Perfs**: 3518-20, 38-40, 50-52,

3518-20, 38-40, 50-52, 62-64, 71-73, 79-81, 85-87

Recommended perfs: 3444-52, 3498-3508'

3612-14, 16-18, 36-38 (2 JSPF)

Frac: 25,000 gal lease oil + 31,500# sand (5/63)

OPERATOR:		Energen R	esources	S		·····			
WELL NAME & NUMI	BER:	Langlie Lyr	nn Queei	n Unit #15				· · · · · · · · · · · · · · · · · · ·	
WELL LOCATION:	1980' FNL	, 1980' FEL			G	26	T-23-S	R-36-E	Lea
	(Foolage Location	1)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL (	CONSTRUC	CTION DATA				
				Surface Ca	sing				
Hole Size: Casing Size:	9-7/8" 7-5/8"		-						
Casing Size.  Cemented with:	275		sacks	(or)			ft3		
Top of Cement:	Surface		-	(0.)	<del></del>				
Method Determined:			-						
			P	roduction	Casino				
Hole Size:	6-3/4"								
Casing Size:	4-1/2"		-					•	
Cemented with:	200		sacks	(or)			_ft3	·	
Top of Cement:	2550' J		-						
Method Determined: Total Depth:	TS 3675'		-						
			-						
			Į	njection In	<u>terval</u>				
3416'	feet to	3641'			(Indicate whethe	er Open Hole	or perforated)	perforated	
				Tubing D	etail				
Tubing Size:	2-3/8"		_		<del></del>				
Lining Material:									
Type of Packer:									
Packer Setting Depth: Other Type of Tubing.	Casing Sea	al (if applica	able):						
Cara. Type or Tabling		ы (л оррлос		· · · · · · · · · · · · · · · · · · ·					
Addtitional Data									
1. Is this a new well o	drilled for inj	ection?			No				
If no, for what purpose		-	y drilled?	,	Oil and gas	)			
2. Name of the Inject					n/a		<u></u>		<del></del>
3. Name of Field or F	ooi (ii appii	cable):			Langlie ivia	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever to l.e. sacks of cement of			other zo	ne(s)? List	all such perfor	rated inter	vals and giv	e plugging o	detail,
5. Give the name and Jalmat Yates Gas Zor				underlying	or overlying th	ne propose	ed injection :	zone in this	area:
Completion Record					· · · · · · · · · · · · · · · · · · ·				
Perfs: Acid, Shot, Fracture,	Salleeze.	See attach	ed diagr	am					

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### State of New Mexico Εı , Minerals and Natural Resources Departmen.

Form C-103 Revised 1-1-89

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

OIL CONSERVATION DIVISION P.O. Box 2088

WELL API NO. 30-025-21067

DISTRICT II	Canta Ea Nam Marias	97504 2000	30 023	21007
P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	8/304-2088	5. Indicate Type	of Lease  STATE FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Ga	
SUNDRY NOTIC	ES AND REPORTS ON WEL	10		
( DO NOT USE THIS FORM FOR PROP DIFFERENT RESERV	OSALS TO DRILL OR TO DEEPEN OIR. USE "APPLICATION FOR PE	OR PLUG BACK TO A	7. Lease Name o	r Unit Agreement Name
1. Type of Well:	01) FOR SUCH PROPOSALS.)		Langlie Ly	nn Queen Unit
MET X MET OYZ	OTHER CONV	ert to Producer		
2. Name of Operator			8. Well No.	
Energen Resources Corpo	ration		15	
3. Address of Operator			9. Pool name or	
3300 N. A St, Bldg 4, S	te 100, Midland, TX	79705	Langlie Ma	ttix 7 RVRS/Queen/GB
4. Well Location Unit Letter 56 : 1980	_ Feet From The North	Line and1980	Feet From	m The East Line
Section 26			NMPM	Lea County
	10. Elevation (Show whether	DF, RKB, RT, GR, etc.)		
11. Check A	ppropriate Box to Indicate	Nature of Notice, Re	eport, or Othe	r Data
NOTICE OF INTE			•	REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	MENT JOB	
OTHER: Convert from WIW t	o Producer	OTHER:	<del></del>	
12. Describe Proposed or Completed Operation work) SEE RULE 1103.  MIRU WSU, pressure test Re-perforate the 7 RVRS w/ 3,000 gals. Run tub	casing to 500 psi fo /Queen @ 3,416'-24',	r 30 minutes. 3	Recover RBP nd @ 3,462'	@ 3,368'.
I hereby certify that the information above is true a	ad complete to the best of my knowledge and		,	2/12/2000
SIONATURE . Meno	<u>ив</u> п	TE Prod. Tec	n.	DATE
TYPE OR PRINT NAME Denis	e Menoud			<b>ТЕГЕРНОНЕ №.915-687-</b> 2
(This space for State Use)	-u-n 3 <sup>v</sup>			

APPROVED BY -CONDITIONS OF APPROVAL, IF ANY:

Langlie Lynn Unit #15 Lea County, NM

Current Conditions: Jan-99 TA-WIW

GL Flevation: 3342'
Dh .evation: 3354'

Location: 1980' FNL, 1980' FEL,

Sec 26, T-23-S, R-36-E

**Conductor:** 

None

Surface Casing:

7-5/8" 24# Smls, ST&C @ 312' in 11" hole Cemented to surface W/275 sx "A" 2% gel, 2% CaCl2 Well Head Assembly:

Intermediate Casing:

None

2550 **TOC**: 2550' by TS

2550

Baker Lok-Set RBP @ 3368'

Perfs:

TD = 3675'

Original WIW Packer was set @ 3398'

3468, 3485 (2JSPF) 7/74

3504, 32, 43, 48, 59, 64, 74, 82, 95

3619, 27, 41 (1 JSPF)

Frac: 40,000 gal lease oil + 60,000# sand

**Production Casing:** 

4 1/2" 9.50# J-55 ST&C @ 3675' in 6-3/4" hole 250 sx "C" + 4% gel, salt saturated

OPERATOR:		Energen R	esource	es					
WELL NAME & NUM	BER:	Langlie Lyr	nn Quee	en Unit #17		<del></del>			
WELL LOCATION:	1980' FNL	, 660' FWL			E	26	T-23-S	R-36-E	Lea
	(Foolage Location	(۱			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			W/ELI	CONSTRI	JCTION DATA				
			VVLLL						
Uala Cizar	11"			Surface (	<u>Casing</u>				
Hole Size: Casing Size:	7-5/8"		-						
Cemented with:	150		- sacks	(or)			ft3		
Top of Cement:	Surface		_				_		
Method Determined:	Visual		-						
			F	Production	n Casing				
Hole Size:	6-3/4"		_						
Casing Size:	4-1/2"		_						
Cemented with:	120	<i>j</i>	sacks	(or)			_ft3		
Top of Cement:	2400' V	,	_						
Method Determined:	TS	<del> </del>	-						
Total Depth:	3725'		-						
				Injection	<u>Interval</u>				
3506'	_ feet to	3560'			(Indicate whethe	er Open Hole	e or perforated)	perforated	
	_			T. 1. (	D - 4 - 11				
Tubing Size:				<u>Tubing</u>	<u>Detaii</u>				
Lining Material:			-						
Type of Packer:					<u></u>				
Packer Setting Depth:									
Other Type of Tubing	/Casing Se	al (if applica	able):						
Addtitional Data									
1. Is this a new well		•			No				
If no, for what purpos  2. Name of the Inject		_	ly drilled		Oil and gas	<u> </u>	<del></del>	<del> </del>	
3. Name of Field or F						ittix Seven	Rivers-Que	en-Gravhur	· · · · · · · · · · · · · · · · · · ·
		·	other 7	ono(a)2 Li					
4. Has the well ever l.e. sacks of cement	•	•	Uner Zi	one(s): Li	st all such perio	rated inter	vais and giv	e plugging (	Jetali,
Old perfs @ 3560'-36			follows	<u> </u>					
RBP at 3506' w/ 20 s								<del></del>	
Set cmt plug at 1356	w/ 25 sx cr	nt (TOC at	1110')						
Set cmt plug at 350'.	Circ cmt to	surface							
		<del></del>							
5. Give the name an	d depths of	any oil or g	as zone	es underlyir	ng or overlying t	he propos	ed injection	zone in this	area:
Jalmat Yates Gas Zo		-		<del>-</del>			<u> </u>		
Completion Record					<del></del>				
Perfs:		See attacl	ned diag	ram					
Acid, Shot, Fracture,	Squeeze:								

Langlie Lynn Unit #17 Lea County, NM

Current Conditions: Jan-99 PxA

GL Flevation: 3367'
K. evation: 3377'

Location: 1980' FNL, 660' FWL,

Sec 26, T-23-S, R-36-E

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C @ 300' in 11" hole Cemented to surface W/150 sx 50/50 Pozmix Well Head Assembly:

Marker installed

Cement circulated from 350' to surface Volume not reported

Intermediate Casing:

None

Pulled 4-1/2" casing @ 300'

25 Sx cement plug 1110' to 1356'

2400 TOC: 2400' by TS

20 Sx Cement Plug @ 3352'
RBP @ 3506'

Perfs:

3560, 64, 80

3601, 11, 18, 30, 42, 61, 73, 78, 87 (1 JSPF)

Frac: 40,000 gal lease oil + 60,000# sand (11/64)

**Production Casing:** 

4 1/2" 9.50# J-55 ST&C @ 3725' in 6-3/4" hole 120 sx "C" + 6% gel, salt saturated

PBD: 3693' TD = 3725'

OPERATOR:		Energen R	esource	es		<del></del>				<del></del>
WELL NAME & NUM	BER:	Langlie Lyr	n Quee	en Unit #1	9					
WELL LOCATION:	1980' FNL (Footage Location	, 660' FWL			(Unit L		26 (Section)	T-23-S (Township)	R-36-E (Range)	Lea_(County)
			WELL	CONSTR	RUCTION D	<u>ATA</u>				
				Surface	Casing					
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined:	11" 7-5/8" 150 Surface Visual		sacks	(or)				_ft3		
			<u> </u>	Productio	n Casing					
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: Total Depth:	6-3/4" 4-1/2" 225 2800' TS 3725'		sacks	(or)				_ft3		
				<u>Injection</u>	Interval					
3480'	feet to	3500'			(Indicate	whethe	er Open Hole	or perforated)	perforated	
Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing		al (if applica	able):	Tubing	ı Detail					
Addtitional Data										
1. Is this a new well	drilled for in	jection?			No					
If no, for what purpos			y drilled	?	Oil ar	nd gas	S			
<ol> <li>Name of the Inject</li> <li>Name of Field or F</li> </ol>					n/a Langl	ie Ma	ıttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever I.e. sacks of cement Old perfs @ 3503'-36	been perfor or plug(s) u	ated in any sed.								
RBP at 3406'		mt == 1 1	00 -11	20040						<del></del> ,
Set cmt plug at 3375' Set cmt plug at 1345'										
Set cmt plug at 635' v							· · · · · · · · · · · · · · · · · · ·			
5. Give the name an Jalmat Yates Gas Zo	d depths of	any oil or g	as zone		ing or overly	ying tl	he propose	ed injection	zone in this	area:
Completion Record										
Perfs:		See attach	ed diag	ıram						
Acid, Shot, Fracture,	Squeeze:									

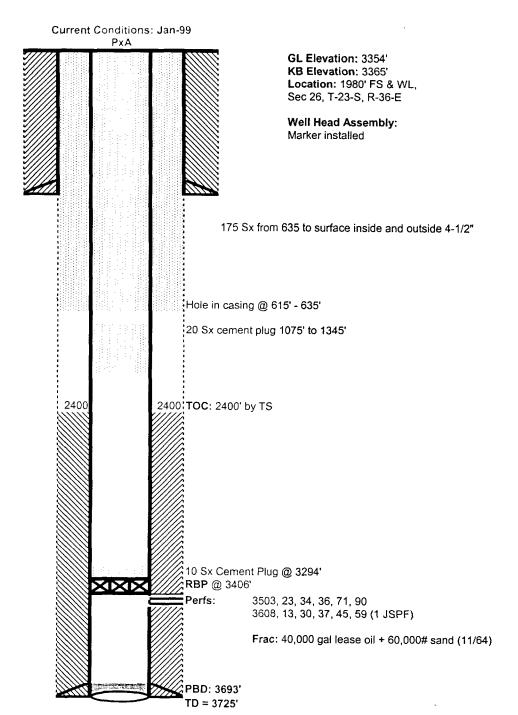
Lariglie Lynn Unit #19 Lea County, NM

Conductor: None

Surface Casing: 7-5/8" 24# H-40, Smls, ST&C @ 315' in 11" hole Cemented to surface W/250 sx "A" + 2% gel & CaCl2

Intermediate Casing: None

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3725' in 6-3/4" hole 225 sx "C" + 6% gel, salt saturated



Langlie Lyr FSL, 1797' FEL	n Queer	unit #20		·			
			0	22	T-23-S	R-36-E	Lea
			(Unit Letter)	(Section)	(Township)	(Range)	(County)
	<b>NATE:</b> 1. 6		OTION DATA				
	WELL C	CONSTRU	CTION DATA				
	2	Surface C	<u>asing</u>				
4"	-						
····							
<del></del>	sacks	(or)			_ft3		
ace							
	-						
	Produc	tion Casin	ng (Intended)				
, u							
, et	-						
	sacks	(or)			ft3		
ace	<u>.</u>	. ,			_		
al	-						
11	-						
	-						
	<u>I</u>	njection Ir	nterval				
et to 3804'		<del></del>	(Indicate whether	er Open Hole	e or perforated)	perforated	
		Tubing D	<u>etail</u>				
	-						
·			<del></del>				
	_						
ng Seal (if applica	able):						
for injection?			No				
	y drilled?			-24-00. P	esently drill	ing as a pro	ducer
			n/a	<del></del>			
i applicable):			Langlie Ma	ttix Sever	Rivers-Que	en-Graybur	g
	other zor	ne(s)? Lis		rated inter	vals and giv	e plugging o	detail,
j(s) useu.			INO				
hs of any oil or g	as zones	underlying	or overlying th	ne propos	ed injection	zone in this	area:
				<u>_</u>			
_							
	ned diagra	am					
	for injection? the well originall ormation: applicable): perforated in any (s) used. hs of any oil or g	the well originally drilled? ormation: applicable): perforated in any other zong(s) used. hs of any oil or gas zones up @ approx. 3040'	for injection? the well originally drilled? ormation: applicable): perforated in any other zone(s)? Listing(s) used. this of any oil or gas zones underlying app @ approx. 3040'  See attached diagram	for injection?  the well originally drilled?  Spudded 2 ormation:  applicable):  Derforated in any other zone(s)? List all such perforated in any other zone (s) and the such perforated in any other zone.  The soft any oil or gas zones underlying or overlying the paper ox. 3040'  See attached diagram	for injection?  the well originally drilled?  Spudded 2-24-00. Propriet in the second strength of the second stren	for injection?  the well originally drilled?  Spudded 2-24-00. Presently drilled ormation:  n/a  Langlie Mattix Seven Rivers-Question and give perforated in any other zone(s)? List all such perforated intervals and give perforated in any other zone of any oil or gas zones underlying or overlying the proposed injection of approx. 3040'  See attached diagram	for injection?  The well originally drilled?  Spudded 2-24-00. Presently drilling as a proportion:  In/a  Langlie Mattix Seven Rivers-Queen-Graybur  perforated in any other zone(s)? List all such perforated intervals and give plugging of the proposed.  No  hs of any oil or gas zones underlying or overlying the proposed injection zone in this up @ approx. 3040'  See attached diagram

### Langlie Lynn Unit #20 Lea County, NM

Current Conditions: Mar-00

GL Elevation: 3394'

DF Elevation: 3406'

API # 30-025-34916

Sec 22, T-23-S, R-36-E

Well Head Assembly:

Location: 627' FSL, 1797' FEL,

### Conductor:

None

### Surface Casing:

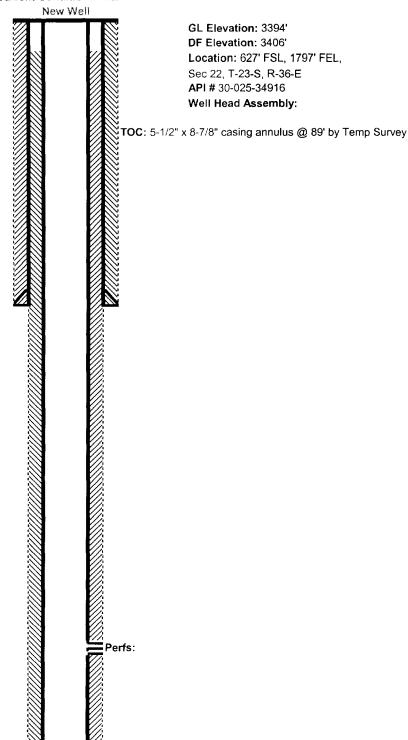
8-5/8" 24#, J-55, ST&C @ 329' in 12-1/4" hole Cemented to surface W/300 sx"C" + 2% CaCl2

### Intermediate Casing:

None

### **Production Casing:**

5 1/2" 15.50# J-55 LT&C @ 3853' in 7-7/8" hole 650 sx 50/50 Poz "C" + 10% gel, 5% salt FB 225 sx 50/50 Poz "C" + 5% salt Cement Circulated



TD = 3853'

OPERATOR:		Conoco	· · · · · · · · · · · · · · · · · · ·		and the second s		· · · · · · · · · · · · · · · · · · ·	<del></del>	
WELL NAME & NUM	BER:	Lynn B-1 #	<del>‡</del> 7						_
WELL LOCATION:	990' FNL,	990' FEL			А	27	T-23-S	R-36-E	Lea
	(Footage Location				(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRU	JCTION DATA				
			<u>s</u>	urface (	Casing				
Hole Size:	Unknown		-						
Casing Size:	7-5/8" @ 1	244'	-						
Cemented with:	500	_	sacks	(or)			_ft3		
Top of Cement:	Surface		-						
Method Determined:	Visual		-						
			Pro	duction	Casing				
Hole Size:	Unknown	20001	-						
Casing Size:	5-1/2" @ 2	929	-	(- )			(10)		
Cemented with:	500		sacks	(or)			_ft3		
Top of Cement:	Unknown		-						
Method Determined:	3480'		-						
Total Depth:	3400		-						
Addtitional Data									
1. Is this a new well o	drilled for in	jection?			No				
If no, for what purpose	e was the w	vell originall	y drilled?		Oil and gas	3			
2. Name of the Inject	ion Format	ion:			n/a				
3. Name of Field or F	ool (if appl	icable):			Jalmat Tan	sil-Yates-	Seven River	s	
Has the well ever to l.e. sacks of cement of the leading to the lead of t	· ·	•	other zon	. ,	st all such perfor		C	e plugging o	detail,
5. Give the name and Jalmat Yates Gas Zor	· ·	-		•	ng or overlying th		-		area:
Completion Record		0	20001.011	201 0					
Perfs:	Ca., a. = = :	Open hole							
Acid, Shot, Fracture,	oqueeze:								

OPERATOR:		Roca Petr	oleum					······	
WELL NAME & NUM	BER:	George Et	z #6						
WELL LOCATION:	660' FSL,	660' FEL			Р	27	T-23-S	R-36-E	Lea
·	(Footage Location	on)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL	CONSTRUC	CTION DATA				
				Surface Ca	asing				
Hole Size:	12-1/4"		-						
Casing Size:	8-5/8" @	447'	_						
Cemented with:	480		sacks	(or)			_ft3		
Top of Cement:	Surface		-						
Method Determined:	Visual		-						
			<u> </u>	Production	Casing				
Hole Size:	7-7/8"		_						
Casing Size:	4-1/2" @	3600'	_						
Cemented with:	1000		sacks	(or)		···	_ft3		
Top of Cement:	Unknown		_						
Method Determined:			_						
Total Depth:	3600'		-						
				Tubing D	etail				
Tubing Size:	2-3/8"				<del></del>				
Lining Material:			_						
Type of Packer:					<del></del>				
Packer Setting Depth:	3140'		_						
Other Type of Tubing	/Casing Se	al (if applica	able):	<del></del>				<del></del>	
Addtitional Data									
1. Is this a new well of	drilled for in	jection?			No				
If no, for what purpos		•	y drilled'	?	Oil and gas				
2. Name of the Inject	tion Format	ion:			n/a				
3. Name of Field or F	Pool (if app	licable):			Jalmat Tan	sil-Yates-	Seven River	S	
4. Has the well ever	been perfo	rated in any	other zo	ne(s)? List	all such perfor	ated inter	vals and giv	e plugging o	letail,
I.e. sacks of cement	or plug(s) u	sed.			· · · · · · · · · · · · · · · · · · ·				<del></del>
5. Oi the									
<ol><li>Give the name and Jalmat Yates Gas Zo</li></ol>	•	-		s unaeriying	or overlying th	e propos	ed injection :	zone in this	area:
Completion Record									
Perfs:		3164'-342	9', PBTC	3547'					
Acid, Shot, Fracture,	Squeeze:				R-100				
, ,	•				35 000# 20/40	& 50 000°	# 10/20 & 50	scf/bbl N2	

OPERATOR:		Doyle Hart	man						<del></del>
WELL NAME & NUM	BER:	State of Ne	ew Mexico	o AA #1					
WELL LOCATION:	1980' <b>FN</b> L	, 660' FEL			Н	22	T-23-S	R-36-E	Lea
	(Footage Location	))			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRU	CTION DATA				
			Ç	Surface C	asina				
Hole Size:	13-3/4		<u> </u>	<del>, , , , , , , , , , , , , , , , , , , </del>	<del>uonig</del>				
Casing Size:	10-3/4" @	305.26'							
Cemented with:	300		sacks	(or)			ft3		
Top of Cement:	Surface						-		
Method Determined:	Visual		•						
			Ω		Ci				
Hole Size:	8-3/4"		Pr	oduction	Casing				
Casing Size:	7" @ 2906	1	-						
Cemented with:	2350		sacks	(or)			ft3		
Top of Cement:	n/a			(,					
Method Determined:			•						
Total Depth:	3130'		:						
Addtitional Data									
1. Is this a new well of	drilled for inj	ection?			No			3	
If no, for what purpos			y drilled?		Oil and gas				
2. Name of the Inject					n/a				
3. Name of Field or F	Pool (if appli	cable):			Jalmat Tan	sil-Yates-	Seven River	'S	
4. Has the well ever	been perfor	ated in any	other zon	ie(s)? List	t all such perfor	ated inter	vals and giv	e plugging o	detait,
I.e. sacks of cement of	or plug(s) us	sed.	· · · · · · · · · · · · · · · · · · ·						
								·	
5. Give the name and	d depths of	any oil or ga	as zones	underlying	g or overlying th	e propose	ed injection:	zone in this	area:
Jalmat Yates Gas Zo	ne, Top @ a	approx. 304	0'						
Completion Record									
Perfs:		Open hole	2906'-31	30'					
Acid, Shot, Fracture,	Squeeze:	None				· · · · · · · · · · · · · · · · · · ·			
•	*								

OPERATOR:		Gruy Petro	leum Ma	anagem	ent					
WELL NAME & NUM	BER:	Shell State	#3					····		
WELL LOCATION:	660' FSL,	660' FEL				Р	22	T-23-S	R-36-E	Lea
·	(Footage Locatio	n)				(Unit Letter)	(Section)	(Township)	(Range)	(Caunty)
			WELL	CONST	RUCTI	ON DATA				
				Surfac	e Casiı	<u>19</u>				
Hole Size:	17-1/2"	······································	,							
Casing Size:	13-3/8" @	287'								
Cemented with:	350		sacks	(or)				_ft3		
Top of Cement:	Surface									
Method Determined:	Visual	····								
			<u>In</u>	<u>termea</u>	iate Ca	sing				
Hole Size:	11-1/4"									
Casing Size:	8-5/8" @ 1	1213'								
Cemented with:	500		sacks	(or)				ft3		
Top of Cement:	Unknown									
Method Determined:										
			F	Product	ion Cas	sina				
Hole Size:	7-7/8"		-	<u> </u>	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	21119				
Casing Size:	5-1/2" @ 3	3425'	•							
Cemented with:	750		sacks	(or)				ft3		
Top of Cement:	Unknown		•		•			_		
Method Determined:										
Total Depth:	3426'									
Addtitional Data										
1. Is this a new well of	drilled for in	jection?				No				
If no, for what purpos	e was the v	vell originally	y drilled	?		Oil and gas				
2. Name of the Inject	ti <mark>o</mark> n Format	ion:				n/a				
3. Name of Field or F	Pool (if appl	icable):	·-			Jalmat Tan	sil-Yates-	Seven River	S	
4. Has the well ever	been perfor	ated in any	other zo	ne(s)?	List all	such perfor	ated inter	vals and giv	e plugging o	detail,
l.e. sacks of cement	•	· ·				n/a	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
5. Give the name and Jalmat Yates Gas Zo	· ·	-		s under	lying or	overlying th	e propos	ed injection :	zone in this	area:
Completion Record								<u> </u>		
Perfs:		3017'-3068	י מאחחי	3/201						
Acid, Shot, Fracture,	Squeeze:				1# per d	al, sand to	oil			· · · · · · · · · · · · · · · · · · ·

OPERATOR:		Raptor Resources										
WELL NAME & NUM	BER:	State of No	ew Mexico	o A A/C-1	#98							
WELL LOCATION:	660' FNL,	2310' FEL			В	23	T-23-S	R-36-E	Lea			
	(Footage Localid			,	(Unit Letter)	(Section)	(Township)	(Range)	(County)			
			WELL C	ONSTRU	JCTION DATA							
				Surface (	Casing							
Hole Size:	12-1/4"		_									
Casing Size:	8-5/8" @	323'	-									
Cemented with:	300		sacks	(or)			ft3					
Top of Cement:	Surface		_									
Method Determined:	Visual		•		•							
			Pr	oduction	n Casing							
Hole Size:	<b>7-</b> 7/8"		<u></u>		<u> </u>							
Casing Size:	5-1/2" @	3580'	-									
Cemented with:	250		sacks	(or)			ft3					
Top of Cement:	Unknown		-	. ,								
Method Determined:			-									
Total Depth:	3595'		-									
Addtitional Data												
1. Is this a new well of	drilled for in	jection?			No							
If no, for what purpos	e was the v	well originall	y drilled?		Oil and gas							
<ol><li>Name of the Inject</li></ol>	tion Forma	tion:			n/a							
<ol><li>Name of Field or F</li></ol>	Pool (if app	licable):		<del></del>	Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g			
4. Has the well ever	been perfo	rated in any	other zor	ne(s)? Lis	st all such perfor	ated inter	vals and giv	ve plugging o	detail,			
I.e. sacks of cement	or plug(s) u	ised.					~					
E Civo the	d donth = -1	i anu all ar =		underbir	or overlying th	o prome	nd injection	anno in this	oroo:			
<ol><li>Give the name an Jalmat Yates Gas Zo</li></ol>	•			unaeriyin	ig or overlying th	e propose	ea injection	zone in this	area:			
Completion Record												
Perfs:		Open hole	3580'-35	95'								
Acid, Shot, Fracture,	Squeeze:				3'-3582' w/ 3 No.	. 3 charge	es	<del></del> _	<del></del>			
·			<del></del>		lease crude & 1			Adomite				
					<del></del>	<del></del>			· · · · · · · · · · · · · · · · · · ·			

OPERATOR:		Raptor Res	sources						<del></del>
WELL NAME & NUM	BER:	State of Ne	ew Mexico	A A/C-1	<del>4</del> 73				
WELL LOCATION:	660' FNL,	1980' FWL			С	23	T-23-S	R-36-E	Lea
,	(Footage Locatio				(Un <sub>i</sub> t Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRU	CTION DATA				
			S	Surface Ca	asina				
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined:	13-3/4" 9-5/8" @ 3 300 Surface Visual	325'	sacks	(or)	<u></u>		_ft3		
			Pri	oduction	Casina				
Hole Size:	8-3/4"		<u> </u>	<u>Juaction</u>	Casmy				
Casing Size:	7" @ 3537	7'	-						
Cemented with:	250		sacks	(or)			_ft3		
Top of Cement:	Unknown	·	_						
Method Determined:			_						
Total Depth:	3577'		-						
Addtitional Data									,
1. Is this a new well	drilled for in	jection?			No				
If no, for what purpos	e was the v	vell originall	y drilled?		Oil and gas	;			
2. Name of the Inject	tion Format	ion:			n/a				
<ol><li>Name of Field or F</li></ol>	ool (if appl	icable):			Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever l.e. sacks of cement	•	-	other zon	e(s)? List	all such perfor	rated inter	vals and giv	e plugging o	detail,
5. Give the name an Jalmat Yates Gas Zo	•			underlying	or overlying th	ne propos	ed injection	zone in this	area:
Completion Record		<del></del>							
Perfs:		Open hole	3527'-35	77'					
Acid, Shot, Fracture,	Squeeze:	Open hole			for 2 hrs.			<del></del>	
<u> </u>					& 10,000# san	nd		·	

OPERATOR:		Raptor Re	sources		·				
WELL NAME & NUM	BER:	State of No	ew Mexico	A A/C-1	#65				
WELL LOCATION:	660' FNL.	760' FWL			D	23	T-23-S	R-36-E	Lea
	(Footage Location				(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRU	CTION DATA				
			S	Surface C	asing				
Hole Size:	13-1/4"		_		<u> </u>				
Casing Size:	9-5/8" @	335'	-						
Cemented with:	300		sacks	(or)			ft3		
Top of Cement:	Surface		-				_		
Method Determined:	Visual		-						
			Pro	oduction	Casing				
Hole Size:	8-3/4"		<u></u>						
Casing Size:	7" @ 353	7'	-						
Cemented with:	250		- sacks	(or)			ft3		
Top of Cement:	Unknown		=	` ,	····		_		
Method Determined:			-						
Total Depth:	3569'		-						
Addtitional Data									
1. Is this a new well of	drilled for in	njection?			No				
If no, for what purpos	e was the	well originall	y drilled?		Oil and gas				
2. Name of the Inject	tion Forma	tion:			n/a				
3. Name of Field or F	Pool (if app	licable):			Langlie Mat	tix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever	•	•	other zon	e(s)? Lis	t all such perfor	ated inter	vals and giv	e plugging o	letail,
5. Give the name and Jalmat Yates Gas Zo	•	-		underlying	g or overlying th	e propose	ed injection :	zone in this	area:
Completion Record									
Perfs:		Open hole	3537'-356	69'					
Acid, Shot, Fracture,	Squeeze:				si Jet @ 3562' v	w/10,000	gals. refined	oil & 10,00	O# sand
	•				<del></del>	<u>-</u>	<del></del>		

OPERATOR:		Raptor Res	sources	Inc.					
WELL NAME & NUM	BER:	State of Ne	ew Mexi	co A A/C-1	#72				
WELL LOCATION:	1980' FNL	, 660' FWL			E	23	T-23-S	R-36-E	Lea
•	(Footage Locatio	n)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL	CONSTRU	CTION DATA				
				Surface C	asing				
Hole Size:	13-3/4"		_						
Casing Size:	9-5/8" @ 3	328'	-						
Cemented with:	300		sacks	(or)			_ft3		
Top of Cement:	Surface		-						
Method Determined:	Visual		-						
			F	Production	Casina				
Hole Size:	8-3/4"				<del></del>				
Casing Size:	7" @ 3560	 )'	-						
Cemented with:	250		- sacks	(or)			ft3		
Top of Cement:	Unknown		-	, ,			<del></del>		
Method Determined:			-						
Total Depth:	3587'		- -						
				Tubing D	etail				
Tubing Size:	2-3/8"@ 3	358'		rabing b	<u>ctun</u>				
Lining Material:			-						
Type of Packer:									
Packer Setting Depth:					<del></del>				
Other Type of Tubing	/Casing Se	al (if applica	able):		<del></del>			<del></del>	
Addtitional Data									
1. Is this a new well	drilled for in	iection?			No				
If no, for what purpos		-	v drilled	?	Oil and gas				
2. Name of the Injec		<del>-</del>	,		n/a				
3. Name of Field or I						sil-Yates-	Seven Rive	rs	
4. Has the well ever l.e. sacks of cement	•	•	other zo	one(s)? Lis	t all such perfor	rated inter	vals and giv	e plugging	detail,
5. Give the name an	d denths of	any oil or o	as zone	s underlying	or overlying th	e propos	ed injection	zone in this	area:
Jalmat Yates Gas Zo								20110 111 (1113	
Completion Record						· · · · · ·			
Perfs:		Open holo	. 3560' <u>-</u> 3	587'· PRTD	3513'; 3506'-3	1482'			
Acid, Shot, Fracture,	Squeeze:			tted @ 356		702	·····	<del></del>	
, 5.104, 1 1404410,	J440020.	<u>- CPOITTIOIC</u>			s refined oil & 1	0.000# se	and	<del>_</del>	
		3506'-348			CIW / 100 BS	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<del></del>	<del></del>
					s. 40# linear ge	el W 99 T	CO2 & 308	MCF N2 &	
				0# 12/20 Br					

OPERATOR:		Raptor Re	sources	Inc.					
WELL NAME & NUM	BER:	State of N	ew Mexic	co A A/C-1	<del>#</del> 84				
WELL LOCATION:	1980' FNL (Footage Location		-		G (Unit Letter)	23 (Section)	T-23-S (Township)	R-36-E (Range)	Lea (County)
			WELL	CONSTRU	CTION DATA				
				Surface Co	asing				
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined:	12-1/4" 9-5/8" @ 3 300 Surface Visual	34'	sacks	(or)			_ft3		
			P	Production	Casing				
Hole Size:	8-3/4"		_						
Casing Size: Cemented with: Top of Cement: Method Determined: Total Depth:	7" @ 3529 250 Unknown 3585'	1	sacks - -	(or)			_ft3		
				Tubing D	<u>etail</u>				
Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing	2-3/8" 2918' //Casing Sea	al (if applica	- - able):						
Addtitional Data									
1. Is this a new well o	drilled for ini	ection?			No				
If no, for what purpos	-		y drilled	?	Oil and gas	;		<del> </del>	
2. Name of the Inject		_			n/a			******	
<ol><li>Name of Field or F</li></ol>	Pool (if appli	cable):			Jalmat Tan	sil-Yates-	Seven River	rs .	
4. Has the well ever l.e. sacks of cement			other zo	one(s)? List	all such perfor	rated inter	vals and giv	e plugging o	detail,
5. Give the name an Jalmat Yates Gas Zo				s underlying	or overlying th	ne propose	ed injection	zone in this	area:
Completion Record		·							
Perfs:		Open hole	3519'-3	585" PRTD	3380'; 2918'-3	123'			
Acid, Shot, Fracture,	Squeeze:				18'-51' w/3 No.			.,,	<del></del>
,,	,				0,000 gals. Ref			nd	
		2918'-312		***************************************	ials Frac w/ 14				

OPERATOR:		Raptor Re	sources In	ic.					·····
WELL NAME & NUM	BER:	State of Ne	ew Mexico	A A/C-1 #	<del>‡</del> 105				
WELL LOCATION:	2080' FNL	, 660' FEL			Н	23	T-23-S	R-36-E	Lea
•	(Footage Location	(۱)			(Un-t Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRUC	CTION DATA				
Hole Size:	11"		<u>s</u>	urface Ca	sing				
Casing Size:	7-5/8" @ 3	23'							
Cemented with:	250		sacks	(or)			ft3		
Top of Cement:	Surface			()					
Method Determined:	Visual								
			Pro	duction (	Casing				
Hole Size:	6-3/4"								
Casing Size:	4-1/2" @ 3	669'	-						
Cemented with:	250		sacks	(or)			_ft3		
Top of Cement:	Unknown								
Method Determined:	20001								
Total Depth:	3669'								
Addtitional Data									
1. Is this a new well of	drilled for inj	ection?			No				
If no, for what purpos	e was the w	ell originally	y drilled?		Oil and gas				
2. Name of the Inject					n/a				
3. Name of Field or F	Pool (if appli	cable):			Jalmat Tan	sil-Yates-S	Seven River	S	
4. Has the well ever		-	other zone	e(s)? List	all such perfor	ated inter	vals and giv	e plugging o	detail,
5. Give the name and Jalmat Yates Gas Zo		-		underlying	or overlying th	e propose	ed injection :	zone in this	area:
Completion Record			<del></del>	·					
Perfs:		Unknown	perfs; oil z	zone @ 36	46'-3650'				
Acid, Shot, Fracture,	Squeeze:	Acidized w	/10,000 ga	als. LTNE	acid w/ 20 ball	s			

OPERATOR:		Arco Perm	ian						
WELL NAME & NUM	BER:	Sinclair A	State #5						
WELL LOCATION:	1980' FSL	, 660' FEL			I	23	T-23-S	R-36-E	Lea
	(Footage Location				(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRUC	CTION DATA				
				Surface Ca					
Hole Size:	11"		2	Juli luce Od	<u>Sing</u>				
Casing Size:	8-5/8" @ 2	290'	-						
Cemented with:	200		sacks	(or)			ft3		
Top of Cement:	Surface		_		•		_		
Method Determined:	Visual								
			_						
	7 7 0 1		<u>Pr</u>	oduction (	<u>Casing</u>				
Hole Size:	7-7/8"	77.51	-						
Casing Size:	4-1/2" @ 3 1290	3733	- cooks	(or)			ft3		
Cemented with: Top of Cement:	Unknown		sacks	(or)			_113		
Method Determined:	UNKHOWIT		-						
Total Depth:	3755'		•						
·			-						
<u>Addtitional Data</u>									
1. Is this a new well	drilled for in	jection?			No				
If no, for what purpos	e was the v	vell originall	y drilled?	-	Oil and gas	5			
<ol><li>Name of the Inject</li></ol>	ti <mark>on</mark> Format	ion:			n/a				
<ol><li>Name of Field or F</li></ol>	Pool (if appl	icable):	<u></u>	_ <del></del>	Langlie Ma	ttix Seven	Rivers-Que	een-Graybur	<u>g</u>
4. Has the well ever	been perfor	ated in any	other zon	ne(s)? List	all such perfor	rated inter	vals and giv	e plugging o	detail,
I.e. sacks of cement	or plug(s) u	sed.	<del></del>	· <del>- * ·</del> ···					
5. Give the name an	d denths of	any oil or d	25 70nes	underlying	or overlying th	ne propose	ad injection	zone in this	area.
Jalmat Yates Gas Zo	•	-		underlying	or overrying a	ic propose	ed injection	20110 111 11113	arca.
	,	-	<del></del>	·		71.			
			- · · · · · · · · · · · · · · · · · · ·						
Completion Record									
Perfs:		3695'-369	9', 3666'-3	3668', 3642	2'-3648', 3570'	-3578', 35	48'-3552'		
Acid, Shot, Fracture,	Squeeze:	3695'-369	9' none						
				d 250 gals.				····	
				d 250 gals.					
		3570'-3578							
		3548'-355	2' acidized	d 250 gals.					<del></del>

OPERATOR:	Arco Perm	iian						
WELL NAME & NUM	BER: Sinclair A	State #10	)					
WELL LOCATION:	990' FSL, 990' FWL			М	23	T-23-S	R-36-E	Lea
	(Footage Location)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
		14/F1 1 /	OONOTRUO	TION DATA				
			CONSTRUC					
Hole Size:	12-1/4"		Surface Cas	sing				
Casing Size:	8-5/8" @ 340'	-						
Cemented with:	200	sacks	(or)			_ft3		
Top of Cement:	Surface	- -				-		
Method Determined:	Visual	-						
		D	roduction C	asina				
Hole Size:	7-7/8"		. oddodon O	<del>uomy</del>				
Casing Size:	5-1/2" @ 3550'	<b></b>						
Cemented with:	700	_sacks	(or)			_ft3		
Top of Cement:	Unknown	_						
Method Determined:		_						
Total Depth:	3550'	=						
			Tubing De	tail				
Tubing Size:	2-3/8" @ 3241'	_						
Lining Material:								
Type of Packer:				<del>_</del>				
Packer Setting Depth:		<b>-</b>						
Other Type of Tubing	n/Casing Seal (if applica	able):						
Addtitional Data								
1. Is this a new well of	-	20 النوام ي		No Oil and see				
•	e was the well originall	y armed?	,	Oil and gas	<u> </u>			
2. Name of the Inject				n/a	oil Votos	Seven River		
3. Name of Field or F	-ooi (ii applicable).		· · · · · · · · · · · · · · · · · · ·	Jaiiilat Taii	1511-1 4165-	Seven River	<u> </u>	
	been perforated in any	other zo	ne(s)? List a	ıll such perfoi	rated inter	vals and giv	e plugging o	detail,
I.e. sacks of cement	or plug(s) used.							
	d depths of any oil or g ne, Top @ approx. 304		s underlying o	or overlying th	ne propos	ed injection :	zone in this	area:
Completion Record			<del></del>					
Perfs:	20001 245	איי סבדר	3520'					
	2980'-345 Squeeze: Acidized w			22 000 gals 3	& 46 000#	sand		

OPERATOR:		Raptor Res	sources						
WELL NAME & NUM	BER:	State A A/0	C-1 #107	7					
WELL LOCATION:	1980' FSL,	660' FWL			L	24	T-23-S	R-36-E	Lea
•	(Foolage Location	1)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL	CONSTRU	CTION DATA				
				Surface C					
Hole Size:	11"			<u>Surface C</u>	<u>asing</u>				
Casing Size:	7-5/8" @ 3	25'	•						
Cemented with:	Circulated		sacks	(or)			_ft3		
Top of Cement:	Surface								
Method Determined:	Visual	<del></del>							
	•		n	roduction	Casina				
Hole Size:	6-3/4"		<u> </u>	roduction	Casing				
Casing Size:	4-1/2" @ 3	664'	-						
Cemented with:	250		sacks	(or)			ft3		
Top of Cement:	2620'		-	` ,			<b></b>		
Method Determined:			_						
Total Depth:	3664'		-						
				Tubing D	etail				
Tubing Size:	2-3/8" @ 3	176'	_						
Lining Material:									
Type of Packer:									
Packer Setting Depth:			<b>.</b>						
Other Type of Tubing	g/Casing Sea	al (if applica	able):						
<u>Addtitional Data</u>									
1. Is this a new well	drilled for inj	ection?			No				
If no, for what purpos	e was the w	ell originall	y drilled	?	Oil and gas	3			
2. Name of the Inject	tion Formati	ion:			n/a				
3. Name of Field or I	Pool (if appli	icable):			Jalmat Tan	sil-Yates-	Seven River	rs	
4. Has the well ever l.e. sacks of cement			other zo	ne(s)? Lis	t all such perfor	rated inter	vals and giv	e plugging (	detail,
								· · · · · · · · · · · · · · · · · · ·	
5. Give the name an		-		s underlying	g or overlying th	ne propos	ed injection :	zone in this	area:
Jalmat Yates Gas Zo	ne, Top @ a	approx. 304	10'				<del></del>		
Completion Record									
Perfs:	0				2'-3114'; PBTD		0.00.000		···
Acid, Shot, Fracture,	Squeeze:				gals. SOT w/ 2	0,000 gal	s. & 20,000‡	# & 30 balls	
				<u>-</u>	al & 24,500#				
		2912-3114	+ LLSC A	# 20,500 ga	als. & 118,600#	٢			

OPERATOR:		Rhombus	Operatir	ng					····	
WELL NAME & NUM	BER:	Lankford #	4		<del></del>					
WELL LOCATION:	1650' FNL	., 330' FWL			E	25	T-23-S	R-36-E	Lea	
	(Footage Location	on)			(Unit Letter)	(Section)	(Township)	(Range)	(County)	
			WELL	CONSTRUC	TION DATA					
				Surface Cas	sing					
Hole Size:	12-1/8"		_							
Casing Size:	8-5/8" @ 4	41 <u>6'</u>	•							
Cemented with:	450		sacks	(or)			_ft3			
Top of Cement:	Surface		_							
Method Determined:	Visual		-							
Production Casing										
Hole Size:	7-7/8"		_							
Casing Size:	5-1/2" @ :	3800'	_							
Cemented with:	850		sacks	(or)			_ft3	·		
Top of Cement:	Surface		_							
Method Determined:	Visual		-							
Total Depth:	3800'		_							
				Tubing De	tail .					
Tubing Size:	2"		_		<del></del>					
Lining Material:					<del></del>					
Type of Packer:					_					
Packer Setting Depth:	3658'		<b>-</b>							
Other Type of Tubing	g/Casing Se	al (if applica	able):	<del></del>				·		
Addtitional Data										
1. Is this a new well	drilled for in	jection?			No					
If no, for what purpos	se was the v	vell originall	y drilled	?	Oil and gas					
2. Name of the Injec	tion Forma	tion:			n/a					
3. Name of Field or I	Pool (if app	licable):			Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g	
4. Has the well ever	been perfo	rated in any	other zo	one(s)? List a	all such perfoi	rated inter	vals and giv	e pluaaina d	detail.	
I.e. sacks of cement					р			-  959		
E Civo the name on	d dontha at	any oil or a	00 7000	o underlyine	ar overlying 44	0 01000	ad injection	zono in this	0.001	
<ol><li>Give the name an Jalmat Yates Gas Zo</li></ol>	•			s underlying (	or overlying tr	ie propos	ea injection :	zone in this	area:	
Jaimat Tales Gas 20	ile, rop @	approx. 50-	+0		······································					
Completion Record								<del></del>		
Perfs:		3416'-366								
Acid, Shot, Fracture,	Squeeze:	4000 gals	15% MC	CA acid						

OPERATOR:	Conoco							
WELL NAME & NUM	BER: Lynn B-1	<del>4</del> 17				·		<u>.</u>
WELL LOCATION:	810' FNL, 660' FEL			А	26	T-23-S	R-36-E	Lea
	(Footage Location)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
		141001		TION D 174				
		WELL	CONSTRUC	TION DATA				
Hole Size:	12-1/4"		Surface Ca	<u>sing</u>				
Casing Size:	8-5/8" @445'	<del>-</del>						
Cemented with:	350	- sacks	(or)			ft3		
Top of Cement:	Surface		(0.)		<del></del>	_'''		
Method Determined:	Visual	- -						
		<u>P</u>	roduction C	<u>Casing</u>				
Hole Size:	7-7/8"	_						
Casing Size:	4-1/2" @ 3270'	-						
Cemented with:	960	sacks	(or)			_ft3		
Top of Cement:	Unknown	_						
Method Determined:	2070	_						
Total Depth:	3270'	-						
			Tubing De	etail				
Tubing Size:	2-3/8" @3203'	_						
Lining Material:				<u></u>				
Type of Packer:								
Packer Setting Depth:		_						
Other Type of Tubing	/Casing Seal (if applic	able):						
Addtitional Data								
1. Is this a new well of	drilled for injection?			No				
If no, for what purpos	e was the well original	ly drilled?	)	Oil and gas	3			
2. Name of the Inject	tion Formation:			n/a				
3. Name of Field or F	Pool (if applicable):			Jalmat Tan	sil-Yates-	Seven River	s	
4. Has the well ever	been perforated in any	other zo	ne(s)? List	all such perfor	rated inter	vals and giv	e plugging d	detail.
I.e. sacks of cement of								
5. Give the name and	d depths of any oil or g	jas zones	underlying	or overlying th	ne propose	ed injection :	zone in this	area:
Jalmat Yates Gas Zo	ne, Top @ approx. 30	40'		· · · · · · · · · · · · · · · · · · ·				
			<del></del>	<del></del>				
Completion Record								
Perfs:	2914'-300	4', 3026'-	3102'. 3108	'-3204'; PBTD	3225'			
Acid, Shot, Fracture,				fluid, 230,000		orady sand	<del></del>	

OPERATOR:		Conoco							
WELL NAME & NUM	BER:	Lynn B-1 #	16						
WELL LOCATION:	660' FNL,	660' FEL			Α	26	T-23-S	R-36-E	Lea
•	(Footage Localio	n)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL	CONSTRUC	TION DATA				
				Surface Ca	sing				
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined:	12-1/4" 8-5/8" @ 4 250 Surface Visual	100'	sacks	(or)			_ft3		
			P	roduction (	Casing				
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: Total Depth:	7-7/8" 5-1/2" @ 2 300 Unknown 3400'	2900'	sacks	(or)	<u></u>		_ft3		
				Tubing De	etail				
Tubing Size:	2-3/8" @ 3	3106'							
Lining Material: Type of Packer:	SN				<del>-</del>				
Packer Setting Depth:	3074'				_				
Other Type of Tubing	/Casing Se	al (if applica	able):						
Addtitional Data									
1. Is this a new well	drilled for in	jection?			No				
If no, for what purpos		•	y drilled?	?	Oil and gas				
2. Name of the Inject					n/a	ail Vatas	Cavan Diver		
3. Name of Field or F	Poor (ir appi	icable):			Jaimat ran	sii-Yates-	Seven River	S	
Has the well ever     l.e. sacks of cement of	•	•	other zo	. ,	all such perfor		Ū	e plugging o	detail,
5. Give the name and Jalmat Yates Gas Zo	•	-		s underlying	or overlying th	e propos	ed injection	zone in this	area:
Completion Record									
Perfs:		Open hole	2900'-3	400'					
Acid, Shot, Fracture.	Saueeze:	None							

OPERATOR:		Conoco							
WELL NAME & NUM	BER:	Lynn B-1 #	<del>!</del> 3						
WELL LOCATION:	990' FNL,	1650' FWL			С	26	T-23-S	R-36-E	Lea
•	(Footage Location	n)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRUC	CTION DATA				
			s	urface Ca	ısing				
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined:	Unknown 7-5/8" @ 2 500 Surface Visual	1214'	sacks	(or)			_ft3		
			Pro	duction (	<u>Casing</u>				
Hole Size:	Unknown		_						
Casing Size:	5-1/2" @ 2	2882'							
Cemented with:	690		sacks	(or)			_ft3		
Top of Cement:	Unknown		-						
Method Determined: Total Depth:	3385'								
Addtitional Data									
1. Is this a new well	drilled for in	jection?			No				
If no, for what purpos	e was the v	vell originally	y drilled?		Oil and gas				
2. Name of the Inject	tion Format	ion:			n/a				
3. Name of Field or F	Pool (if appl	icable):			Langlie Mat	tix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever	· ·	-	other zon	e(s)? List	all such perfor	ated inter	vals and giv	e plugging o	detail,
5. Give the name and Jalmat Yates Gas Zo				underlying	or overlying th	e propose	ed injection :	zone in this	area:
Completion Record									
Perfs:		Open hole	2882'-338	35'					
Acid, Shot, Fracture,	Squeeze:				· · · · · · · · · · · · · · · · · · ·				······································
			· · · · · · · · · · · · · · · · · · ·					<del></del>	

OPERATOR:	Conoco							
WELL NAME & NUM	BER: Lynn B-1 #	4						
WELL LOCATION:	990' FSL, 990' FWL			М	26	T-23-S	R-36-E	Lea
	(Footage Location)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
		WELL C	ONSTRUC	CTION DATA				
			Sumfana Co					
Hole Size:	Unknown	3	Surface Ca	asing				
Casing Size:	10-3/4" @ 339'	•						
Cemented with:	300	sacks	(or)			ft3		
Top of Cement:	Surface		(0.7			- '''		
Method Determined:	Visual	•						
		•						
		Pre	oduction	Casing				
Hole Size:	Unknown		<del></del>					
Casing Size:	5-1/2" @ 2885'	•						
Cemented with:	865	sacks	(or)			ft3		
Top of Cement:	Unknown	<u>-</u>						
Method Determined:		-						
Total Depth:	3455'							
Addtitional Data								
1. Is this a new well of	drilled for injection?			No				
If no, for what purpos	e was the well originall	y drilled?		Oil and gas				
2. Name of the Inject	tion Formation:			n/a				
3. Name of Field or F	Pool (if applicable):			Jalmat Tan	sil-Yates-	Seven River	'S	<del></del>
4. Has the well ever l.e. sacks of cement	been perforated in any or plug(s) used.	other zon		all such perfor		_	e plugging o	detail,
	d depths of any oil or g ne, Top @ approx. 304			or overlying th		-		area:
			<del></del>			·	<del></del>	
Completion Record								
Perfs:	Open hole	2885'-34	55'					
Acid, Shot, Fracture,								
,	·		<del></del>			<del></del>		

#### Langlie Lynn Queen Unit Wells #3, #5, #7, #9, #12, #14, #16, #18

#### **Proposed Injection Project**

(April 13, 2000)

Proposed average and maximum daily rate: 300 BWPD / 500 BWPD

System is closed

Proposed average and maximum injection pressure: 500 psi / 1000 psi

Source of injection fluid: Texaco SW Supply (water lines)

<u>Geological Data:</u> The injection zone is the Queen/Seven Rivers at 3400-3800' and the lithology consists of dolomite, sandstone and anhydrite. No known sources of underground drinking water below the surface casing setting depth at  $325 \pm$  are present in the area of review.

<u>Proposed Stimulation Program:</u> Reperforate the Queen/Seven Rivers. Acidize each well with 3,000 gals NEFE acid.

# Martin Water Laborator RECDC.

28 2000

P O. BOX 1468 MONAHANS, TEXAS 79756 PH, 943-3234 OR 563-1040

#### RESULT OF WATER ANALYSES

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

HEGGET OF WA	TIEN MINETOLO		
Mr. Terry Lawler  3300 North "A" Street, Bldg. 4, Ste.	LABORATORY NO SAMPLE RECEIVED _ 100 RESULTS REPORTED	3-24-00	
Midland, TX 79705  COMPANY Energen Resources Corporation			
FIELD OR POOL			
SECTION BLOCK SURVEY COUNTY SOURCE OF SAMPLE AND DATE TAKEN:			· · · · · · · · · · · · · · · · · · ·
NO.1 Raw water - taken from Texaco Jal V		-00	
NO 2 Produced water - taken from Langlie	e-Lynn. 3-24-00		<del></del>
NO. 3			
NO. 4	<del></del>		<del></del>

NO. 4		·	<u></u>	<del>`</del>
MARKS:				or and the second second
	CHEMICAL AND PHYSICAL			<del></del>
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0087	1.0282		_ ·
H When Sampled				
oH When Received	6.94	7.14		
Bicarbonate as HCO <sub>3</sub>	927	1,586		<u> </u>
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>	<u> </u>			
Total Hardness as CaCO,	3,200	6,200		
Calcium as Ca	720	352		
Magnesium as Mg	340	1,293		
Sodium and/or Potassium	1,834	9,502		
Sulfate as SO,	1,751	508		
Onloride as Cl	3,266	17,750		
ron as Fe	0.27	12.5		
Barium as Ba	-			
Furbidity, Electric				
Color as Pt				
Fotal Solids, Calculated	8,838	30,991		
Temperature °F.				<del></del>
Carbon Dioxide, Calculated		· · · · · · · · · · · · · · · · · · ·	<del></del>	
Dissolved Oxygen,	<del></del>	·		
Hydrogen Sulfide	95.0	27.0	<del></del>	<del> </del>
Resistivity, ohms/m at 77° F	0.740	0.250	<del></del>	
Suspended Oil				
Filtrable Solids as mg/!				
Volume Filtered, ml			<del></del>	<u> </u>
TOJAMO I INTELEG. IIII	<del>-</del>			
			- <del></del>	
	Results Reported As Miligra	ms Per Liter		L
Additional Determinations And Femarks The	objective herein is		compatibil	ity hetwee
the two waters represent				
dence of any incompatibi				
This is to say that we w				
result of combining thes		carrie borener	ar or breezh	reacton as
resure of compining thes	e waters.		·	
			<u></u>	<del>,                                     </del>
		*	. 4	

Form No. 3

# **REC'D MAR 21 2000**

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040 Martin Water Laboratories, Inc.

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

#### **RESULT OF WATER ANALYSES**

NESULI OF WATE	IN MINAL I DED		
	LABORATORY NO	300138	
TO: Mr. Terry Lawler	SAMPLE RECEIVED		
3300 North A Street, Bldg. 4, Ste. 100	RESULTS REPORTED.	3-20-00	
Midland, TX 79705		<del></del>	
COMPANY Energen Resources Corporation	LEASE <u>Langlie</u> -	-Lynn	
FIELD OR POOL			
SECTION BLOCK SURVEY COUNTY	LeaSTAT	re <u> </u>	
SOURCE OF SAMPLE AND DATE TAKEN:		•	
NO.1 Raw water - taken from Dimwidder wind	lmi11. 3-14-00		
NO.2 Raw water - taken from Myers Ranch wi	ndmill. 3-14-0	0	
NO.3			
NO. 4			
REMARKS: Samples taken by Chuck Emerson, Marti	n Water Laborat	ories, Inc. c	С
CHEMICAL AND PHYSI	ICAL PROPERTIES	<del></del>	<del></del>
NO. 1		NO. 3	NO. 4

7.49 317 176 61 6 107 89 40 0.13	NO. 2 1.0019 7.39 224 312 112 8 60 148 74	NO. 3	NO. 4
7.49 317 176 61 6 107 89 40	7.39 224 312 112 8 60 148		
176 61 6 107 89 40	312 112 8 60 148		
176 61 6 107 89 40	312 112 8 60 148		
176 61 6 107 89 40	312 112 8 60 148		
61 6 107 89 40	312 112 8 60 148		
61 6 107 89 40	112 8 60 148		
61 6 107 89 40	112 8 60 148		
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107 89 40	60 148		<b>-</b>
89 40	148		<u></u>
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	74	1	
0.13			
	0.22		
619	626		
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0.0	0.0		
4.66	12.75		
2.9	4.1	-	
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ted As Milligrams			
ned certi	lfies the ab	ove to be true	and
d belief.	<del></del>		
		<del></del>	
		/	
		- X	
-			Sen Regers

Form No. 3



#### I, KATHI BEARDEN

Publisher	_
of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do sole swear that the clipping attach hereto was published once a week in the regular and entir issue of said paper, and not a supplement thereof for a per	ned re 1
of1	
-	weeks. ed
March 25	2000
and ending with the issue da	
March 25	2000
Sathe Blucke	
Publisher Sworn and subscribed to be	efore
me this 27th d	lay of
March	2000
Jodi Menson Notary Public.	
My Commission expires	

LEGAL NOTICE

March 25, 2000

NOTICE OF APPLICATION FOR FLUID INJECTION

WELL PERMIT

Energen Resources Corporation, 3300 N. A St., Bldg. 4, Ste. 100, Midland, TX. 79705 (Contact Person: Denise Menoud, Telephone: 915-687-2074) is applying to the New Mexico Oil Conservation Commission for a permit to inject fluid into a formation productive of oil or gas.

The applicant proposes to inject fluid into the Langlie Mattix Queen Unit #3, 5, 7, 9, 12, 14, 16, 18, and 23 for the purpose of a secondary recovery waterflood project. The purposed injection wells are located in Sec. 22, 23 and 26 - T-23S - H36E in the Langlie-Lynn Queen Unit, Langlie Mattix Field. Lea County, New Mexico. Fluid will be injected into strata in the subsurface Seven Rivers-Queen-Grayburg Formation, at a depth interval from 3400-3800. Expected maximum injection pressure is 500 BWPD. Expected maximum injection pressure is 1000#.

LEGAL AUTHORITY: Rule 401.C. (1) of the Rules and Regulations of the New Mexico Oil Conservation Commission.

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of this publication, to the Oil Cogservation Division, 2040 South Pacheco, Santa Fe, NM 87505.

# 17282

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made

October 18, 2000

(Seal)

01105161000 01539720 Energen Resources Corporation 3300 North "A" Street Building 4, Suite 100 MIDLAND, TX 79705

#### **AFFIDAVIT OF PUBLICATION**

STATE OF NEW	MEXICO	1				
COUNTY OF	Lea					
D (	41					
Before me	e, the und	dersigned author	ity, on th	is day persona	illy appeared	
Kathi Beard	len		_, the _	Publisher	_ of the	
1)	lame)			(Title)		
Hobbs News-Sun				, a	newspaper ha	aving
1)	lame of	Newspaper)	- " -	·		-
general circulation	in	Lea		County	, New Mexico	o, who being
by me duly sworn,	deposes	and says that th	ne forego	ing attached n	otice was pub	olished in
said newspaper or	n the follo	owing date(s), to	wit:	March 25,	2000	<u></u> .
3					(Date)	
Last	2					
Althi (	Signature	wer_	<del></del>	<del></del>		
(0	ngriature	<del>-</del> )				
Subscribe	ed and sv	vorn to before m	ne this th	e <u>3</u> day	of April	?,
<del>19</del> 2000, to ce						
Jacki	Hen	JOU blic in and for				
N	otary Pu	blic in and for		-		
Lea	2	Cou	ıntv. Nev	v Mexico		

March 15, 2000

New Mexico State Land Office P.O. Box 1148 Santa Fe, New Mexico 87504-1148

RE: Energen Resources Corporation

Application to Inject Fluid Into a Reservoir Productive of Oil or Gas

Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23

Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

<u>NOTICE</u>: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Sincerely,

Denise Menoud Production Tech. Energen Resources Corp. (915) 687-2074

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> <li>ORYX ENERGY</li> <li>P.D. BOX 2880</li> </ul>	A. Received by (Please Print Clearly)  B. Date/of/Delivery  C. Signature  X
DALLAS TX 75221-2880	3. Service Type  □ Certified Mail □ Express Mail □ Registered □ Return Receipt for Merchandise □ Insured Mail □ C.O.D.
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Copy from service label) $2-53$	58-120-409
PS Form 3811, July 1999 Domestic Re	turn Receipt 102595-99-M-1789

102595-99-M-1789



March 15, 2000

Oryx Energy Co. P.O. Box 2880 Dallas TX 75221-2880

RE: Energen Resources Corporation

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D. Menoud

(915) 687-2074

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	1. Article Addressed to:  RAPTOR RESOURCES POROW 160430	101 Rio Glande 78701
	AUSTIN TX 78716	3. Service Type    Certified Mail ☐ Express Mail  CRegistered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.
		4. Restricted Delivery? (Extra Fee) Yes
	2. Article Number (Copy from service label) $7-53$	58-120-406
ė	PS Form 3811, July 1999 Damestic Re	turn Receipt 102595-99-M-1789



March 15, 2000

Raptor Resources P.O. Box 160430 Austin, Texas 78716

RE: Energen Resources Corporation

Application to Inject Fluid Into a Reservoir Productive of Oil or Gas

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(915) 687-2074

en e	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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	Article Addressed to:	D. Is delivery address different from item 1?
•	CLAYTON WILLIAMS	
	6 DESTA DR. STE 3000	
	MIDLAND TX 79705	3. Service Type Certified Mail
		4. Restricted Delivery? (Extra Fee) Yes
and the second second	2. Article Number (Copy from service label) ${ m Z}-{ m 55}$	8-120-407
	PS Form 3811, July 1999 Domestic Re	eturn Receipt 102595-99-M-1789
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March 15, 2000

Clayton Williams 6 Desta Dr. Ste. 3000 Midland, Texas 79705

RE: Energ

**Energen Resources Corporation** 

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Energen Resources Corp.

D. Menoud

(915) 687-2074

#### COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION ■ Complete items 1, 2, and 3. Also complete A. Received by (Please Print Cie item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. D. Is delivery address different 1. Article Addressed to: If YES, enter delivery address be ROCA PETROLEUM P.O. BOX 10139 MIDLAND TX 7970Z 3. Service Type ☑ Certified Mail ☐ Express Mail ☐ Return Receipt for Merchandise 🔀 Registered ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes 2. Article Number (Copy from service label) 2-558-120-404

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789



March 15, 2000

Roca Petroleum P.O. Box 10139 Midland TX 79702

RE: Energen Resources Corporation

Application to Inject Fluid Into a Reservoir Productive of Oil or Gas

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Energen Resources Corp.

D. Menced

(915) 687-2074

	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
	<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> </ul>	A. Received by (Please Print Clearly)  SHANA WHUAMS  C. Signature  X
	CONOCO 10 DESTA DR. STE. 100W MIDLAND TX 79705	
Japan Baratan Maria	MIDLAND TX 79705	3. Service Type  ☑ Certified Mail ☐ Express Mail  ☑ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.
		4. Restricted Delivery? (Extra Fee) ☐ Yes
	2. Article Number (Copy from service label) Z - 55	8-118-764
		eturn Receipt 102595-99-M-1789

.



March 15, 2000

Conoco 10 Desta Dr. Suite 100W Midland TX 79705-4500

RE: Energen Resources Corporation

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Denise Menoud Production Tech.

Energen Resources Corp.

XI. Menoud

(915) 687-2074

,	SENDER:		I also wish to receive the follow-	<del>-</del>
i d	☐ Complete items 1 and/or 2 for additional services.	*	ing services (for an extra fee):	
	Complete items 3, 4a, and 4b.  Print your name and address on the reverse of this form so that card to you.	we can return this	1.  Addressee's Address	é
	☐ Attach this form to the front of the mailpiece, or on the back if sp	ace does not	2.   Restricted Delivery	Service
4	☐ Write "Return Receipt Requested" on the mailpiece below the a ☐ The Return Receipt will show to whom the article was delivered			 Receipt S
	3. Article Addressed to:	4a. Article Ni	/ -	Š
	DOYLE HARTMAN		558-120-423	
		4b. Service 1  Registere  Express №	d <b>S</b> Certified	using Return
999	MIDLAND TX 79701	'	ceipt for Merchandise GOD	_
		7. Date of De	elivery STA. Sag	you fo
. yannılı ilk ekniliki il	5. Received By: (Print Name)  DSPS LONE IFAR	8. Addressee fee is paid	e's Address (Only if requested and	
•	6. Signature (Addressee or Agent)			•

.



March 15, 2000

Doyle Hartman P.O. Box 10426 Midland TX 79701

RE: Energen Resources Corporation

Application to Inject Fluid Into a Reservoir Productive of Oil or Gas

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Energen Resources Corp.

D. Meneral

(915) 687-2074

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> <li>DEEP WELLS RANCH INC.</li> <li>ATTN: KELLY MYERS</li> </ul>	A. Received by (Please Print Clearly)  B. Date of Delivery  3 //4 / 00  C. Signature  X / Addressee  D. Is delivery address different from item 1?  Yes  If YES, enter delivery address below:
STAR RT. 1 BOX 244 JAL NM 88252	3. Service Type
2. Article Number (Copy from service label) Z -558	3-120-424

Domestic Return Receipt

102595-99-M-1789

to the same of the

PS Form **3811**, July 1999



March 15, 2000

Deep Wells Ranch Inc. c/o Kelly Myers Star Rt. 1, Box 244 Jal, New Mexico 88252

RE:

**Energen Resources Corporation** 

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<u>NOTICE:</u> Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Sincerely,

Denise Menoud Production Tech.

Energen Resources Corp.

(915) 687-2074

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	A. Received by (Please Print Clearly)  B. Date of Delivery  3 16-60
<ul> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	X Agent Addressee
Article Addressed to:	Is delivery address different from item 1?  Yes  If YES, enter delivery address below:  No
RHOMBUS OPERATING 200 N. LORAINE STE. 1270	
200 N. LORAINE	
STE. 1270	3. Service Type  ☑ Certified Mail ☐ Express Mail
MIDLAND TX 79701	☐ Registered
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Copy from service label) 2-558	3-120-403

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789



March 15, 2000

Rhombus Operating 200 N. Loraine Suite 1270 Midland TX 79701

RE:

**Energen Resources Corporation** 

Application to Inject Fluid Into a Reservoir Productive of Oil or Gas

Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23

Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

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Production Tech. Energen Resources Corp.

D. Menoud

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	<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Received by (Please Print Clearly)  B. Date of Delivery  FLAY  Signature  X  Addressee  D. Is delivery address different from item 1?  Yes	· '
	Article Addressed to:	If YES, enter delivery address below:	:
	L. DREYFUS 14000 QUAIL SPRINGS PKWY STE. 600		:
	OKLAHOMA CITY OK	3. Service Type	The Allegan
	73134		
		4. Restricted Delivery? (Extra Fee) ☐ Yes	
	2. Article Number (Copy from service label) Z-5	58-120-408	_
·	PS Form 3811, July 1999 Domestic Re	turn Receipt 102595-99-M-1789	<del>-</del> .



March 15, 2000

L. Dreyfus 14000 Quail Springs Pkwy. Ste. 600 Oklahoma City OK 73134

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Article Addressed to:	D is delivery address different from item 1? U Yes  If YES, enter delivery address below:   No						
ARCO PERMIAN 600 N. MARIENFELD							
MIDLAND, TX 79701	3. Service Type Certified Mail Registered Insured Mail C.O.D.						
	4. Restricted Delivery? (Extra Fee) ☐ Yes						
Article Number (Copy from service label)  7 - 55 8 - 11 8 - 6 2							
2 0 0 1 1 0 0 2	71						

to the production of the second section of the second section of the second sec

3300 North "A" Street **Energen Resources Corporation** 

Midland, Texas 79705 Building 4, Suite 100



ENERGEN

600 N. MARIENCELD.

138 5 200 PB 8660416 0550 \$ 03 200 M A R 15 00 4314 MAILED FROM MIDLAND TX 79705

4 MAILED FROM MIDLAND TX

Midland, Texas 79705 Building 4, Suite 100 3300 North "A" Street

ARCO PERMIAN HOBBS NM 88240

AN ENERGEN COMPANY

3-20,00

5 S &

118

263

Fold at line over top of envelope to the right of the return address

CERTIFIED



March 15, 2000

Arco Permian P.O. Box 1710 Hobbs NM 88240

RE:

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Energen Resources Corp.

D. Menoud

(915) 687-2074

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P.O. BOX 14097 IRVING TX 75014	3. Service Type  Certified Mail  Registered  Insured Mail  Restricted Delivery? (Extra Fee)  3. Service Type  Express Mary  Return Receipt for Merchandise  C.O.D. S  Yes					
2. Article Number (Copy from service lacel) $z - 55$	8-118-765 DNINE					

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789



March 15, 2000

Gruy Petroleum Mgmt P.O. Box 14097 Irving TX 75014

RE:

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Denise Menoud Production Tech.

Energen Resources Corp.

XI. Menoud

(915) 687-2074

OPERATOR:		Grace Pet	roleum Co	orp.				<del></del>		
WELL NAME & NUM	BER:	State of New Mexico AA #3								
WELL LOCATION:	2310' FNL	, 330' FEL			Н	22	T-23-S	R-36-E	Lea	
	(Footage Localio				(Unit Letter)	(Section)	(Township)	(Range)	(County)	
			WELL C	ONSTRU	ICTION DATA					
			<u> </u>	Surface C	asing					
Hole Size:	9-7/8"		_							
Casing Size:	7-5/8" @ 3	328'	-							
Cemented with:	175		sacks	(or)			_ft3			
Top of Cement:	Surface		_							
Method Determined:	Visual		-							
	•		Pr	oduction	Casing					
Hole Size:	6-3/4"		• •	<u>oud chon</u>	<u> Ousnig</u>					
Casing Size:	2-7/8" @ 3	3629'	-							
Cemented with:	200		sacks	(or)			ft3			
Top of Cement:	n/a		·	(0.)			-110			
Method Determined:	11/4		-							
Total Depth:	3630'		-							
Addtitional Data										
1. Is this a new well of	drilled for in	jection?			No					
If no, for what purpos	e was the v	vell originall	y drilled?		Oil and gas	 3				
2. Name of the Inject	tion Format	ion:			n/a					
3. Name of Field or F					Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g	
4. Has the well ever l.e. sacks of cement of Old perfs @ 3613'-36	or plug(s) u	sed.		ne(s)? Lis	st all such perfor	rated inter	vals and giv	e plugging o	detail,	
Set 100' cmt plug 50'				2050	'w/ 20 cv /TOC	1050')				
Set 100' cmt plug @				J <u>W</u> 2030	W/ 30 5X (100	, 1930)	<del></del>			
Spot 15 sx cmt @ su		57 (100 21)	<u> </u>							
<u> </u>										
5. Give the name an Jalmat Yates Gas Zo		-		underlyin	g or overlying th	ne pr <b>opos</b> e	ed injection	zone in this	area:	
Completion Record										
Perfs:		3613'-362	1'							
Acid, Shot, Fracture,	Squeeze:			refined oil	& 30,000# sand	d		<del>""" """ """ """ """ """ """ """ """ ""</del>		
	•		<del></del> _		······································		*			

	State of Ne FSL, 2310' FWL Location)	w Mexico	o A A/C-1 #1					
				N.I				
· (Footage	Location)		·····	NN	22	T-23-S	R-36-E	Lea
				(Unit Letter)	(Section)	(Township)	(Range)	(County)
		WELL C	ONSTRUCT	TION DATA				
		9	Surface Cas	ing				
Hole Size: Unknown Casing Size: 7" @	own 4234'							
Casing Size. Two		sacks	(or)			ft3		
Top of Cement: Surfa		Sacres	(01)		<del>-</del>	-110		
·								
Method Determined: Visua								
		Pr	oduction Ca	asing				
Hole Size:								
Casing Size:								
Cemented with:		sacks	(or)			ft3		
Top of Cement:								
Method Determined:								
Total Depth: 5095	OWDD							
Addtitional Data								
1. Is this a new well drilled	for injection?			No				
		drilled?		Oil and gas			***************************************	
• •				n/a				
3. Name of Field or Pool (if	applicable):			Jalmat Tan	sil-Yates-	Seven River	S	
·	•	other zon	ne(s)? List a	ll such perfor	ated inter	vals and giv	e plugging o	detail,
PB from 5095' to 3620' w/ 4	50 sx cmt		······································					
	<del></del>	ollows:						
Set CIBP at 3120' w/ 35' cm	t on top			<del></del>				
Perforate 7" casing at 370'.	Pumped 130 sx	cmt dow	n 7" casing a	and up 7" / 9-	5/8" annu	lus		
Circulate 10 sx to surface								
5. Give the name and depti Jalmat Yates Gas Zone, To	•		underlying o	r overlying th	e propose	ed injection :	zone in this	area:
Completion Record								
Completion Record								
Completion Record  Perfs:	3465'-3475	' 3505'-3	3515', 3550'-	3560', 3565'-	3575'			
1. Is this a new well drilled for injection?  No  If no, for what purpose was the well originally drilled?  Oil and gas								

OPERATOR:		Raptor Res	ources Ir	ıc.						
WELL NAME & NUM	BER:	State of Ne	w Mexico	A A/C-1	#27					
WELL LOCATION:	1650' FNL	, 1650' FWL	_		F	23	T-23-S	R-36-E	Lea	
	(Footage Location	1)	<del></del>		(Unit Lette	r) (Section)	(Township)	(Range)	(County)	
			WELLO	ONSTDI		٠,				
			WELLC	ONSTRU	ICTION DAT	<u>.A</u>				
			9	Surface C	Casing					
Hole Size:	17"									
Casing Size:	12-1/2" @						£10			
Cemented with:	350		sacks (or)ft3							
Top of Cement:	Surface									
Method Determined:	Visual									
	•									
			Pro	oduction	Casing					
Hole Size:	11"									
Casing Size:	8-5/8" @ 2									
Cemented with:	600		sacks	(or)		· · · · · · · · · · · · · · · · · · ·	_ft3			
Top of Cement:	Unknown									
Method Determined:	00701014									
Total Depth:	3670' OWI	טט								
Addtitional Data										
1. Is this a new well of	drilled for inj	ection?			No					
If no, for what purpos	e was the w	ell originally	drilled?		Oil and	gas				
2. Name of the Inject					n/a					
3. Name of Field or F	Pool (if appli	cable):		<del></del>	Jalmat 7	ransil-Yates-	Seven River	rs		
4. Has the well ever	boon porfor	atad in any	other zen	.o/s\2 Lis	t all such no	rforated inter	vale and aiv	o plugging i	totoil	
I.e. sacks of cement	•	•	other zon	e(s): Lis	st all such pe	morated inter	vais and giv	e plugging (	Jetaii,	
i.e. sacks of certicity	or plug(s) at	ocu.	· · · · · · · · · · · · · · · · · · ·	<del></del>					·	
<del></del>			<del></del>	<del></del>			<u> </u>			
5. Give the name and	d depths of	any oil or ga	as zones	underlyin	g or overlyin	g the propose	ed injection	zone in this	area:	
Jalmat Yates Gas Zo	ne, Top @ a	approx. 304	0'							
Completion Pecerd										
Completion Record										
Perfs:		Open hole	2880'-36	70'						
Acid, Shot, Fracture,	Squeeze:	Original TD			<u> </u>			<del></del>	<del></del>	
		Deepening			<del></del>					

OPERATOR:		Raptor Re	sources Ir	nc.					
WELL NAME & NUM	BER:	State of No	ew Mexico	A A/C-1	#26				
WELL LOCATION:	1650' FNL	, 1650' FEL			G	23	T-23-S	R-36-E	Lea
٠	(Footage Location	٦)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRU	ICTION DATA				
			·	Surface (	`aeina				
Hole Size:	Unknown		2	Juliace C	ousnig				
Casing Size:	13-3/8" @	269'	-						
Cemented with:	Unknown	***	sacks	(or)			ft3		
Top of Cement:	Surface		-				_		
Method Determined:	Visual		_						
			-						
			Pr	oduction	Casing				
Hole Size:	Unknown				<del></del>				
Casing Size:	8-5/8" @ 2	2777'	-						
Cemented with:	Unknown	·· · · · · · · · · · · · · · · · · · ·	sacks	(or)			ft3		
Top of Cement:	Unknown		-				-		
Method Determined:			=						
Total Depth:	3148'		-						
Addtitional Data									
1. Is this a new well of	drilled for in	jection?			No				
If no, for what purpos			y drilled?		Oil and gas				
2. Name of the Inject	tion Format	ion:			n/a				
3. Name of Field or F	Pool (if appl	icable):			Jalmat Tan	sil-Yates-S	Seven River	'S	
4. Has the well ever l.e. sacks of cement	•	-	other zon	ie(s)? Lis	st all such perfor	ated inter	vals and giv	e plugging o	detail,
i.e. sacks of certient	or plug(s) u			· · · · · · · · · · · · · · · · · · ·					<del></del>
5. Give the name and Jalmat Yates Gas Zo				underlyin	g or overlying th	e propose	ed injection	zone in this	area:
Completion Record									
Perfs:		Open hole	2777'-31	48'					
Acid, Shot, Fracture,	Squeeze:	None							

OPERATOR:		Arco Perm	ian						
WELL NAME & NUM	BER:	Sinclair A	State #1	<del></del>					
WELL LOCATION:	1650' FSL	990' FEL			!	23	T-23-S	R-36-E	Lea
·	(Footage Location	(۱			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL (	CONSTRU	CTION DATA				
				Surface C	asing				
Hole Size:	Unknown								
Casing Size:	10-3/4" @	225'	-						
Cemented with:	Unknown		sacks	(or)			ft3		
Top of Cement:	Surface		•			<u> </u>	- <del></del>		
Method Determined:	Visual		•						
			In	<u>termediate</u>	e Casing				
Hole Size:	Unknown		<u>111</u>	. J. modrate					
Casing Size:	7-5/8" @ 1	235'	-						
Cemented with:	Unknown		- sacks	(or)			ft3		
Top of Cement:	Unknown	<del></del>		(,					
Method Determined:	01111101111	<del></del>	-						
Woulde Determined.			-						
			<u>P</u>	roduction	Casing				
Hole Size:	Unknown		_						
Casing Size:	5-1/2" @ 2	2770'	_						
Cemented with:	Unknown		sacks	(or)			ft3		
Top of Cement:	Unknown		_				_		
Method Determined:			-						
Total Depth:	3300'		-						
Addtitional Data									
1. Is this a new well	drilled for in	ection?			No	·			
If no, for what purpos	e was the w	ell originali/	y drilled?	?	Oil and gas	;			
2. Name of the Inject	tion Format	ion:			n/a	·····			
3. Name of Field or F	Pool (if appl	icable):			Jalmat Tan	sil-Yates-	Seven River	'S	
4. Has the well ever			other zo	ne(s)? Lis	t all such perfor	rated inter	vals and giv	e plugging o	detail,
I.e. sacks of cement	or plug(s) u	sed.		<del></del>		······································			
5. Give the name an	d depths of	any oil or o	as zones	s underlying	a or overlying th	ne propos	ed injection :	zone in this	area:
Jalmat Yates Gas Zo	•					1-1-1-0			
Completion Record		·		<del></del>					
Perfs:		Open hole	2770'-3	300'					
Acid, Shot, Fracture,	Squeeze:	None							

OPERATOR:	Arco Perr	nian								
WELL NAME & NUM	BER: Sinclair A	State #9								
WELL LOCATION:	660' FSL, 660' FEL			Р	23	T-23-S	R-36-E	Lea		
•	(Footage Location)			(Unit Letter)	(Section)	(Township)	(Range)	(County)		
		WELL C	ONSTRU	CTION DATA						
		ţ	Surface Ca	asing						
Hole Size:	11"	_								
Casing Size:	8-5/8" @ 277'	<b>-</b>								
Cemented with:	150	sacks	(or)			ft3				
Top of Cement:	Surface	_		<del></del>		-				
Method Determined:	Visual	_								
Mata O'ma	7.7/08	<u> Pr</u>	oduction	<u>Casing</u>						
Hole Size:	7-7/8"	<del>-</del>								
Casing Size: Cemented with:	4-1/2" @ 3750' 250	_ 	(or)			ft3				
Top of Cement:	Unknown	_sacks	(or)			_113				
Method Determined:	OTKHOWIT									
	3750'	_								
Total Depth:	3730	_								
Addtitional Data										
1. Is this a new well	drilled for injection?			No						
If no, for what purpos	e was the well origina	lly drilled?		Oil and gas	;					
2. Name of the Injec	tion Formation:			n/a						
3. Name of Field or I	Pool (if applicable):			Langlie Ma	ttix Seven	tix Seven Rivers-Queen-Grayburg				
4. Has the well ever	been perforated in any	y other zor	ne(s)? List	: all such perfor	rated inter	vals and giv	e plugging (	detail,		
I.e. sacks of cement	or plug(s) used.				_					
Old perfs @ 3385'-36	668'. PA'd 2-24-88 as	follows:								
Set CIBP at 3340' w/	50 sx cmt on top (TO	C 2900')								
Set CR at 620' w/ 150	0 sx cmt on top (TOC	590')								
Set cmt plug at 550' v	w/ 200 sx cmt on top (	TOC @ st	urface)							
	d depths of any oil or one, Top @ approx. 30		underlying	g or overlying th	ne propose	ed injection	zone in this	area:		
Completion Record										
Perfs:	<b>33</b> 85'-3419', 3591'-3	637'. 3646	i'-3654' 36	64'-3668'						
Acid, Shot, Fracture,				als. NEA. Reac	idized w/1	000 gals.				
				4'. Acidized 50						
				als. 15% retard				- <u></u>		
	CIBP @ 3			05', 3608', 361		3623', 3628	', 3635', 363	37'		
		Sandfrad	c w/ 20,000	gals. Oil & 20	,000 # sai	nd				
	CIBP @ 3	3460'. Per	f. 3385'-34	19' (10 shots)						

OPERATOR:	Arco							
WELL NAME & NUM	BER: Lankford #	3						
WELL LOCATION:	660' FNL, 660' FWL			D	25	T-23-S	R-36-E	Lea
•	(Footage Localion)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
		WELL (	CONSTRUCT	TION DATA				
			Surface Cas	<u>ing</u>				
Hole Size:	12-1/4"							
Casing Size:	8-5/8" @ 1211'		( - A			E10		
Cemented with:	850	sacks	(or)			_ft3		
Top of Cement: Method Determined:	Surface Visual	•						
Method Determined.	Visual	•						
		P	roduction Ca	asina				
Hole Size:	7-7/8"	5_4	2230000	<b>-</b>				
Casing Size:	5-1/2" @ 3724'	•						
Cemented with:	850	sacks	(or)			ft3		
Top of Cement:	Unknown					-		
Method Determined:		•						
Total Depth:	3750'							
			<i></i>	• •				
Tubing Size:	2-3/8" @ 3646'		Tubing Det	<u>aii</u>				
Lining Material:	2-5/0 @ 3040							
Type of Packer:				-				
Packer Setting Depth:				-				
Other Type of Tubing	/Casing Seal (if applica	ible):						
Addtitional Data								
1. Is this a new well of	drilled for injection?			No				
	e was the well originally	y drilled?	· · · · · · · · · · · · · · · · · · ·	Oil and gas		······································	<del></del>	
2. Name of the Inject	tion Formation:			n/a				
3. Name of Field or F	Pool (if applicable):			Langlie Mat	tix Seven	Rivers-Que	en-Graybur	9
4. Has the well ever	baan perfereted in any	other se	no/o\0   iot ol	المنامل ممالية	-1	رمام مسام مارس		1 - 4 - 9
I.e. sacks of cement	been perforated in any	outer zor	rie(s)? List ai	i such periora	aled mien	vais and give	e piugging o	etaii,
	64'. PA'd 6-5-89 as fol	lows:	<del> </del>					
	25 sx cmt on top (TOC							
Spot cmt plug at 2996	6' w/ 35 sx on top (TOC	2635')						
Spot cmt plug at 1353	3' w/ 25 sx on top (TOC	1106')						
Spot cmt plug at 30' v	v/ 10 sx on top (TOC @	surface	e)	<del></del>		<del></del>		
			<del> </del>			<del></del>		
5. Give the name and	d depths of any oil or ga	as zones	underlyina o	r overlying the	e nronose	d injection z	one in this :	area.
	ne, Top @ approx. 304					,		
Completion Record			-					
Perfs:	3445-3664	י סדאם	3681'					
Acid, Shot, Fracture,			als 15% NE a	cid. 44.000 a	als, gelled	d water.	<del></del>	
,,	·		79,000# 20/40	<u>×</u>		<del></del>		

OPERATOR:		Conoco							
WELL NAME & NUM	BER:	Lynn B-1#	1						
WELL LOCATION:	2310' FSL	, 2310' FEL			J	26	T-23-S	R-36-E	Lea
	(Footage Locatio	n)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL (	CONSTRUC	TION DATA				
			:	Surface Cas	sing				
Hole Size:	Unknown								
Casing Size: Cemented with:	20" @ 41' 76		sacks	(or)			ft3		
Top of Cement:	Surface		Sacks	(01)			_113		
Method Determined:	Visual		•						
			•						
			<u>Int</u>	ermediate (	Casing				
Hole Size:	Unknown								
Casing Size:	8-1/4" @ 2	2873'							
Cemented with:	300		sacks	(or)			_ft3		
Top of Cement:	Unknown								
Method Determined:									
			<u>P</u>	roduction C	<u>asing</u>				
Hole Size:	Unknown	<del></del>							
Casing Size:	7" @ 3148	3'		(==)			#2		
Cemented with: Top of Cement:	100 Unknown		sacks	(or)	<del></del>		_ft3		
Method Determined:	OTRHOWN								
Total Depth:	3614'		•						
			•						
				<u>Tubing De</u>	<u>tail</u>				
Tubing Size:	2"	<del></del>							
Lining Material:					<del></del>				
Type of Packer: Packer Setting Depth:	3930'				<del></del>				
Other Type of Tubing		al (if applica	able):						
,,	,	( 11	,						
Addtitional Data									
		::: 0			NI				
1. Is this a new well of no, for what purpos		='	v drilled?	·	No Oil and gas	···			
2. Name of the Inject		•	y armea?		n/a				
3. Name of Field or F				<del></del>		sil-Yat <b>es</b> -	Seven River		
4 11 4 4	L	. 4 .1.2	41	( ) 0   1 : 1					
4. Has the well ever I.e. sacks of cement of					висп репог		_		detail,
5. Give the name and Jalmat Yates Gas Zo		-		•	or overlying th		•		area:
Completion Record			<del></del>						
Dorfo		0	044010	LEOL DOTO	450'				
Perfs: Acid, Shot, Fracture,	Saneese.	Open noie	S 140 -34	158'; PBTD 3	9400				
,	- 7								

OPERATOR:		HCW Expl	oration						
WELL NAME & NUM	BER:	George Et	z #4						
WELL LOCATION:	1650' FSL,	990' FEL			1	27	T-23-S	R-36-E	Lea
	(Footage Location	1)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRU	CTION DATA				
			<u>s</u>	Surface Ca	asing				
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined:	11" 8-5/8" @ 3 150 Unknown	04'	sacks	(or)			_ft3		
			Pro	oduction	Casina				
Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: Total Depth:	6-3/4" 5-1/2" @ 2 400 Unknown 3550'	970'	sacks	(or)	<u> </u>		_ft3		
Addtitional Data									
<ol> <li>Is this a new well of If no, for what purpos</li> <li>Name of the Inject</li> <li>Name of Field or F</li> </ol>	e was the w ion Formati	rell originall on:	y drilled?		No Oil and gas n/a Jalmat Tan		Seven River	r's	
4. Has the well ever lie. sacks of cement of		-	other zon	e(s)? List	all such perfor	rated inter	vals and giv	re plugging o	detail,
Open hole 2970'-355	0'								
PA'd 10-16-84 See attached sheet for	or plugging	dotail						· · · · · · · · · · · · · · · · · · ·	
See allached sheet it	n plugging t	Jetaii			· · · · · · · · · · · · · · · · · · ·				
5. Give the name and Jalmat Yates Gas Zo				underlying	or overlying th	ne propose	ed injection :	zone in this	area:
Completion Record									
Perfs:		Open hole	2970-355	50'					
Acid, Shot, Fracture,	Squeeze:	Acidized 2	000 gals.						

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

7	40, 07 E0-160 ACCEIVED		
Γ	DISTRIBUTION		
T	BANTA FE		
Γ	FILE		
Г	U.S.G.S.		
T	LAND OFFICE		
٢	OPERATOR	-	

### OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-103

BANTA FE	SANTA FE, NEW MEXICO 87501	KE41250 [3-1
PILE	4	Sa. Indicate Type of Lease
U.S.O.S.	4	State Fee 🔀
OPERATOR	<u>j</u>	5, State Oil & Gas Lease No.
SUNDF	RY NOTICES AND REPORTS ON WELLS  OPOSALS TO PRILL OF TO DECPEH OF PLUS BACK TO A DIFFERENT RESERVOIR. TION FOR PERMIT - " (FORM C-101) FOR SUCH PROPOSALS.)	
I.  OIL  WELL  WELL  WELL  X	OTHER-	7. Unit Agreement Name
2. Name of Operator HCW Explor	ation, Inc.	8. Farm or Lease Name George Etz.
P.O. Box 1	0585 Midland, TX 79702	9. Well No. 4
4. Location of Well		10, Field and Pool, or Wildcat
UNIT LETTER	650 FEET FROM THE South LINE AND 990 FEET FROM	Jalmat
THE East LINE, SECT	10H 27 TOWNSHIP 23S NANGE 36E NMPM	
mmmmmi.	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	3381.5' RT	Lea
	Appropriate Box To Indicate Nature of Notice, Report or Ot NTENTION TO: SUBSEQUENT	<del></del>
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABAHOON	COMMENCE DAILLING OPHS.	PLUG AND ABANDOHMENT
PULL OR ALTER CASING	CHANGE PLANS CASING TEST AND CEMENT JQB	
OT#F	OTHER	
morki SEE BIH E 1103.	Operations (Clearly state all pertinent details, and give pertine <mark>nt dates, i</mark> ncluding UE, 8rd tbg parted at 700'. <u>10/5/84</u> Fishing for	
	8/84 Fishing & washing. Tag fill at 668'. Mill	•
<u>10/9/84</u> Milling & was	hing. Loosing circ. TD 702'.	
10/10/84 Milling & wa	shing. Tite spot @ 698'. Work thru to 712'. Lo	posing circ.
0 pressure.	shing. Hit bridge @ 698', could not work thru br Pump dwn annulus 2 3/8" tbg & 5 1/2" csg 2 1/2 E annulus of 5 1/2" csg & 8 5/8" csg.	ridge. Pump down tbg BPM @ 250 psi, getting
	ump cmt thru 5 1/2" HOWCO retainer.	
& 8 5/8" csg	0 286' pump 160 sx cement. Cmt to surface in ar Close surface valves & squeeze 500 sx cmt belo Ss sx cement above retainer.	nnulus of 5 1/2" csg ow retainer. SI 400
	annulus, flow 1° stream. Pump in to establish a queeze 200 sx cement pressure to 400 psi. SI & RE	
plate, insta	5 1/2" annulus to 500 psi. Held OK. ND wellhead Ill dry hole marker. P & A.	i, weld on top
18. I hereby certify that the information	n above is true and complete to the best of my knowledge and belief.	
SIGNED Struly	lah Production Suc	t. DATE 10/26/84
- # //		
Small 11	OIL & GAS INSPECTO	R MΔY 1 7 1985

WELL LOCATION: 990' FEL. A 26 T-23-S R-36-E Lea    WELL CONSTRUCTION DATA   Gedium   Georgia   G	OPERATOR:	Conoco		· · · · · · · · · · · · · · · · · · ·					
WELL CONSTRUCTION DATA  WELL CONSTRUCTION DATA  Surface Casing  Hole Size: Unknown Casing Size: 7-5/8" @ 1225' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Casing Size: 5-1/2" @ 2784' Cemented with: 500 sacks (or) ft3  Production Casing  Hole Size: Unknown Casing Size: 5-1/2" @ 2784' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined: Total Depth: 3350'  Additional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.	WELL NAME & NUM	BER: Lynn B-1	#2						
WELL CONSTRUCTION DATA  Surface Casing  Hole Size: Unknown Casing Size: 7-5/8" @ 1225' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined:  Production Casing  Hole Size: Unknown Casing Size: 5-1/2" @ 2784' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined:  Top of Cement: Unknown Method Determined: Total Depth: 3350'  Additional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.	WELL LOCATION:	990' FNL, 990' FEL			А	26	T-23-S	R-36-E	Lea
Hole Size: Unknown Casing Size: 7-5/8" @ 1225' Cemented with: 500 sacks (or) ft3  Top of Cernent: Unknown Method Determined:    Production Casing		(Footage Location)		,, ,,,,,	(Unit Letter)	(Section)	(Township)	(Range)	(County)
Hole Size: Unknown Casing Size: 7-5/8" @ 1225' Cemented with: 500 sacks (or) ft3  Top of Cernent: Unknown Method Determined:    Production Casing				ONOTO	OTION DATA				
Hole Size: Unknown Casing Size: 7-5/8" @ 1225' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined:    Production Casing			WELLC	ONSTRU	CHON DATA				,
Casing Size: 7-5/8" @ 1225' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown  Method Determined:    Production Casing			<u> </u>	Surface C	<u>asing</u>				
Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown  Method Determined:     Production Casing   Ft3	Hole Size:	Unknown							
Top of Cement: Unknown  Method Determined:  Production Casing  Hole Size: Unknown Casing Size: 5-1/2" @ 2784' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined: Total Depth: 3350'  Addtitional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.	Casing Size:	7-5/8" @ 1225'	<del></del>						
Method Determined:    Production Casing   Production Casing	Cemented with:	500	_sacks	(or)			_ft3		
Hole Size: Unknown Casing Size: 5-1/2" @ 2784' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined: Total Depth: 3350'  Additional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.	Top of Cement:	Unknown							
Hole Size: Unknown Casing Size: 5-1/2" @ 2784' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined: Total Depth: 3350'  Additional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, l.e. sacks of cement or plug(s) used.	Method Determined:								
Hole Size: Unknown Casing Size: 5-1/2" @ 2784' Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown Method Determined: Total Depth: 3350'  Addtitional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, l.e. sacks of cement or plug(s) used.									
Casing Size: 5-1/2" @ 2784'  Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown  Method Determined: 3350'  Additional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.			<u>Pr</u>	<u>roduction</u>	Casing				
Cemented with: 500 sacks (or) ft3  Top of Cement: Unknown  Method Determined: 3350'  Additional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.			_						
Top of Cement: Unknown  Method Determined: 3350'  Additional Data  1. Is this a new well drilled for injection? No  If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.	•		<del>.</del> .				610		
Method Determined:  Total Depth: 3350'  Addtitional Data  1. Is this a new well drilled for injection? No If no, for what purpose was the well originally drilled? Oil and gas 2. Name of the Injection Formation: n/a 3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.			sacks	(or)			_113		
Total Depth: 3350'  Addtitional Data  1. Is this a new well drilled for injection? No  If no, for what purpose was the well originally drilled? Oil and gas  2. Name of the Injection Formation: n/a  3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.	•	Unknown	_						
Addtitional Data  1. Is this a new well drilled for injection?  1. Is this a new well drilled for injection?  1. Is this a new well drilled for injection?  1. Is this a new well drilled for injection?  1. Is this a new well drilled for injection?  1. Oil and gas  2. Name of the Injection Formation:  1. In a sum of Field or Pool (if applicable):  2. Jalmat Tansil-Yates-Seven Rivers  3. Name of Field or Pool (if applicable):  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, l.e. sacks of cement or plug(s) used.									
1. Is this a new well drilled for injection?  If no, for what purpose was the well originally drilled?  Oil and gas  Oil and gas  Oil and gas  Oil and gas  Inda  Oil and gas  Oil and gas  Inda  Inda  Oil and gas  Inda  In	Total Depth:	3350'							
If no, for what purpose was the well originally drilled?  Oil and gas  Name of the Injection Formation:  Jalmat Tansil-Yates-Seven Rivers  A. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, l.e. sacks of cement or plug(s) used.	Addtitional Data								
2. Name of the Injection Formation:  3. Name of Field or Pool (if applicable):  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, l.e. sacks of cement or plug(s) used.	1. Is this a new well	drilled for injection?			No				
3. Name of Field or Pool (if applicable):  Jalmat Tansil-Yates-Seven Rivers  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, l.e. sacks of cement or plug(s) used.	If no, for what purpos	e was the well origina	lly drilled?		Oil and gas	3			
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, l.e. sacks of cement or plug(s) used.	2. Name of the Injec	tion Formation:			n/a				
I.e. sacks of cement or plug(s) used.	3. Name of Field or I	Pool (if applicable):			Jalmat Tan	sil-Yates-	Seven Rive	rs	
Open hole 2784'-3550'		-	y other zor	ne(s)? Lis	t all such perfo	rated inter	vals and giv	e plugging o	detail,
	Open hole 2784'-355	0'					·		<u></u> -
PA'd 4-12-77		_			<del></del>			<del></del>	
See attached sheet for plugging detail	See attached sheet for	or plugging detail							
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Jalmat Yates Gas Zone, Top @ approx. 3040'		•	-	underlying	g or overlying th	ne propose	ed injection	zone in this	area:
Completion Record	Completion Record				-				
Perfs: Open hole 2784'-3350'	Perfs:	Open hol	e 2784'-33	350'					
Acid, Shot, Fracture, Squeeze:	Acid, Shot, Fracture,	Squeeze:							

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Form 3-231 (May 1963)	4 <b></b>	UNITED STATES	(Oth	MIT IN TRIPTACATE er instruction of		Buteau No. 42-R1424.
7	DEPARTM	AL LETHEIND	ERIOR Yerr	e side)	6. LEASE DESIGNA	TION AND SERIAL NO.
	· G	EOLOGICAL SURVEY	,		NM-	21644
	CHAIDDY MOT	CEC AND DEDODT	S ON WE	110	6. IF INDIAN, ALL	STATE OF TRIBE NAME
/D		ICES AND REPORT				<u>.</u>
(100 по	Use "APPLICA	als to drill or to deepen or p TION FOR PERMIT—" for so	ich proposals.)	iderent feservoir.		
ī.		0/			7. UNIT AGREEME	NT NAME
WELL	GAS OTHER	Plua +1	Oban	1 ~ 4	NA	o Ell
2. NAME OF O			10411	X 0 / C	8. FARM OR LEAS	E NAME
	12 T12 2 2 T	1 61 6	0 40		1 7 2 2 3	10 -31
3. ADDRESS OF	COPERATOR	$\alpha$	ompo	My ST	9. WELL NO.	<u> </u>
Q A	1110 11	11 N ~	<b>も</b> じつ	lin	<b>夕""""</b> "。	7 E E E
<b>D</b> 0	F WELL (Report location cl	learly and in accordance with	882	70-	10	<u> </u>
See also sp	ace 17 below.)	early and in accordance with	any state requ	विशेष	10. FIELD AND PO	OL, OR WILDCAT
At surface				Elita of	Jalmat	Yates Thive
	•			-101	11. SEC., T., R., M SURVEY OR	OR BLK, AND
00-1						
770	FNL + 4	'90' F E L	> ec. :	26	Sec 26	T-23S N-36
14. PERMIT NO	•	15. ELEVATIONS (Show wheth	er DF, RT, GR, etc.	)	12. COUNTY OF P	ARISH 13. STATE
		上 ろるん	4' 06	~~~ ~~	LFA	N.M
16.	Check Ap	propriate Box To Indica	te Nature of	Notice, Keport, or	Other Data # II	
	NOTICE OF INTEN	TION TO:	1	SCBSI	QUENT REPORT OF:	
**************	ER SHUT-OFF	PULL OR ALTER CASING		TER CHIMASE		
	<del></del>	MULTIPLE COMPLETE	ì	TER SHUT-OFF	<del></del> 1 ·	ING WELL
FRACTURE				CTURE TREATMENT		ING CABING
SHOOT OR		ABANDON*	1	DOTING OR ACIDIZING	T O L a do	ONMENT*
REPAIR WI	ELL	CHANGE PLANS	(01	(Norr: Report rest	its of multiple comple	etion on Well
(Other)					its of multiple completion Report and L	
proposed	l work. If well is directio	RATIONS (Clearly state all per onally drilled, give subsurface	locations and n	reasured and true vert	ical depths for all m.	arkers and zones perti-
nent to t	this work.) *	1 51	,	- 1	100001	5011 d
4_	.O WIH W	) Bakerre ng into reta POOH, pumpe	tainer	. Jet a	t 2709	Sporreuemi
· · · · · · · · · · · · · · · · · · ·	1 5144	do into noto	iner s	tarted or	imping. (	20 mmunicate
+	14001,		",1101,0	, , , , , , , , ,		- 1 /00/-
4.	casina f	100H, pumpe	d appr	aximately	4 02 2X.	emt. 600 -
, ,		<i>)</i> ' '	• •			· .
5	60 in casing	ed top of c plug at 12			•	* * * * * * * * * * * * * * * * * * *
61.	T. 15	of top of c	mt. at	24071 7	Tested 5	11 aca . 14
<b>5</b> -/	2-77 1034	en lab il		~~~·	23, (0, 0)	$n$ $cs \eta$ . $\omega / s$
	without 25 Sx	plug at 12	84 -115	so: Spot	105x p/4	a at 96't
59	مح دم ما المال			•		
-	rface.			•	• • • • • • • • • • • • • • • • • • • •	
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		tr.				•
		$\langle \bullet_{(x_1,\dots,x_n)}\rangle$			2.	
18. I hereby c	ertify that the foregoing is	true and correct			·	
	1hu 0 750	the de	ADMIN	1 5,00	_	-6 77
SIGNED &	VM. SC. POW	TITLE L	WALK	- OF You	DATE 5	-26-//
(This space	e for Federal or State offic	ce uge) Hilling		30	1/21)	
			Ţ	ADDRU	V	
APPROVE	D BY ONS OF APPROVAL, IF A	NY:	<del></del>	ME	PATE	
COMPLETE	THE OF SELECTION IN THE W	41m •	. \	OCT 19	19/1/	ž – <sub>Š</sub> .
			1	001 20	i i	
		± <b>A</b> .	_ \	_	DS()ANIAN I	•
		*See Instruc	tions on Reve	ne SideRTHUR R. DISTRICT EL	NGINEEK	
	•			DISTRIC!	•	

OPERATOR:	·	Energen	Resource	s					
WELL NAME & NUM	BER:	Langlie Ly	ynn Quee	n Unit #11				······	
WELL LOCATION:	660' FNL,	660' FEL			А	27_	T-23-S	R-36-E	Lea
	(Footage Localid	on)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL	CONSTRU	CTION DATA				
				Surface C	asing				
Hole Size:	11"		_						
Casing Size:	7-5/8"		_						
Cemented with:	200		_sacks	(or)			_ft3		
Top of Cement:	Surface	<del>,</del>	<del></del>						
Method Determined:	Visual		-						
			P	roduction	Casing				
Hole Size:	6-3/4"								
Casing Size:	4-1/2"		<del></del>						
Cemented with:	300	· · · · · · · · · · · · · · · · · · ·	– sacks	(or)			ft3		
Top of Cement:	Unknown			. ,	<del></del>		-		
Method Determined:									
Total Depth:	3730'		_						
			į	Injection lı	nterval				
3532'	feet to	3698'			(Indicate whether	er Open Hole	or perforated)	perforated	
				Tubing D	<u>Detail</u>				
Tubing Size:	2-3/8"								
Lining Material:					<del></del>				
Type of Packer:		···		·	<del></del>				
Packer Setting Depth:									
Other Type of Tubing	g/Casing Se	eal (if applic	cable):					<del></del>	
Addtitional Data									
1. Is this a new well	drilled for in	njection?			No				
If no, for what purpos		-	lly drilled?	>	Oil and gas	3			
2. Name of the Injec	tion Forma	tion:	•		n/a	<del></del>			<del></del>
3. Name of Field or I	Pool (if app	licable):			Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever i.e. sacks of cement			y other zo		t all such perfo		_	e plugging o	detail,
5. Give the name an Jalmat Yates Gas Zo		=		s underlying	g or overlying th	ne propose	ed injection	zone in this	area:
Completion Record			<del></del>						
Perfs:		See attac	ched diagr	am					
Acid, Shot, Fracture,	Squeeze:								

# State of New Mexico

to Appropriate District Office	Ene, Minerals and Natural	Resources Department	Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVAT		WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexic		30-025-20521  5. Indicate Type of Lease
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			STATE X FEE  6. State Oil & Gas Lease No.
			23267
SUNDRY NOTI (DO NOT USE THIS FORM FOR PRO	CES AND REPORTS ON W OPOSALS TO DRILL OR TO DEEF		7. Lease Name or Unit Agreement Name
	RVOIR. USE "APPLICATION FOR -101) FOR SUCH PROPOSALS.)	PERMIT .	Langlie Lynn Queen Unit
1. Type of Well:			decen out
MET X MET	OTHER	· · · · · · · · · · · · · · · · · · ·	
2. Name of Operator  Energen Resources Corp	oration		8. Well No.
3. Address of Operator			9. Pool name or Wildcat
3300 N. A St, Bldg 4,	Ste 100, Midland, TX	79705	Langlie Mattix 7 RVRS/Queen/GB
4. Well Location	Nonth	(()	
Unit Letter A: 660	Feet From The North	Line and66(	Feet From The East Line
Section 27	Township 23S		NMPM Lea County
	10. Elevation (Show when	ther DF, RKB, RT, GR, etc.)	
11. Check	Appropriate Box to Indica	te Nature of Notice P	enort or Other Data
NOTICE OF INT			SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	
PULL OR ALTER CASING		CASING TEST AND CE	
OTHER:		OTHER:	
	tions (Clearly state all persinent detail	s, and give pertinent dates, inclu	ding estimated date of starting any proposed
work) SEE RULE 1103.			
MIRU WSU, pressure tes	t casing to 500 psi	for 30 minutes. F	Recover RBP @ 3,452'.
Re-perforate the 7 Riv	ers/Queen, acidize w	/ 3,000 gals. Rur	n tubing and rods, RWTP.
-			
<del></del>			

DATE 3/13/2000 Prod. Tech. TELEPHONE NO. 915 - 687 - 207Denise Menoud TYPE OR PRINT NAME (This space for State Use) MAR 20 2000

CONDITIONS OF APPROVAL, IF ANY:

# .NERGEN RESOURCES, INC. GI Flevation: 3376' Langlie Lynn Unit #11 K. Jevation: 3386' Lea County, NM Location: 660' FNL, 660' FEL, Current Conditions: Jan-99 Sec 27, T-23-S, R-36-E Inactive-TA Well Head Assembly: Conductor: None Surface Casing: 7-5/8" 24# Smls, ST&C @ 323' in 11" hole Cemented to surface W/200 sx Cmt + 4% gel Intermediate Casing: None Casing leak: 322-354' Squeezed (8/91) ??? TOC: unknown Circulated casing with Conoco Packer Fluid (8/91) RBP @ 3452', capped with 2 sacks sand (Could not get below 3493' with RBP)

Perfs:

TD = 3730'

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3730' in 6-3/4" hole 300 sx cement 3602-04, 20-22, 41-42, 44-46, 56-58, 64-66, 3676-79, 86-88, 90-92, 96-98' (2-JSPF 7/63) Frac: 40,000 gal lease oil + 60,000# sand (7'/63)

(Inj Packer was set @ 3460')

3580-82, 84-86,

OPERATOR:		Grace Petr	oleum Co	orp.					····
WELL NAME & NUM	BER:	State of Ne	ew Mexico	AA #5					
WELL LOCATION:	1980' FNL,	1980' FEL			G	22	T-23-S	R-36-E	Lea
·	(Footage Location	)			(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRUC	TION DATA				
			<u>s</u>	Surface Cas	sing				
Hole Size:	9-7/8"								
Casing Size:	7" @ 336'	···	•						
Cemented with:	200		sacks						
Top of Cement:	Surface								
Method Determined:	Visual								
			Dr	oduction C	asina				
Hole Size:	6-1/4"		<u>, , , , , , , , , , , , , , , , , , , </u>	Journal C	<u>uoniy</u>				
Casing Size:	2-7/8" @ 3	774'							
Cemented with:	200		sacks						
Top of Cement:	n/a								
Method Determined:	711.7		•						
Total Depth:	3774'								
Addtitional Data									
1. Is this a new well	drilled for inj	ection?			No				
If no, for what purpos	e was the w	ell originally	y drilled?		Oil and gas				
2. Name of the Inject					n/a				
3. Name of Field or F	Pool (if applie	cable):			Langlie Ma	ttix Seven	Rivers-Que	en-Graybur	g
4. Has the well ever			other zon	ie(s)? List a	III such perfo	rated interv	vals and giv	e plugging o	letail,
I.e. sacks of cement					- · · · · · · · · · · · · · · · · · · ·				
Old perfs @ 3713'-37			d 5-15-79	as follows:	<del></del>		<del></del>		
Set CIBP @ 3650' w/		<del></del>							
Set cmt plug @ 2600			500')						
Set cmt plug @ 336'		<del></del>							
<del></del>	sx cmt @ 3								
spotted 15	sx cmt @ 1	70' to surfa	ace.	<del></del>			·	· · · · · · · · · · · · · · · · · · ·	<del> </del>
			<del> </del>						
<ol><li>Give the name an</li></ol>		-		underlying o	or overlying th	ne pr <mark>opos</mark> e	d injection :	zone in this	area:
Jalmat Yates Gas Zo	ne, Top @ a	pprox. 304	0'						
Completion Record								···	
Perfs:		3678'-3700	)', 3713' <b>-</b> 3	3721', 3729'-	·3739'				
Acid, Shot, Fracture,					al. refined oil	& 30,000 <i>‡</i>	# sand		
, ,	•				)'-3739' w/lea				

OPERATOR:		Raptor Res	ources						
WELL NAME & NUM	BER:	State of Nev	w Mexico	o A A/C-1	#97				
WELL LOCATION:	1980' FNL	, 1980' FWL			F	22	T-23-S	R-36-E	Lea
	(Footage Localion	<u> </u>		· , · · · · · · · · · · · · · · · · · ·	(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL C	ONSTRU	ICTION DATA				
			9	Surface C	asing				
Hole Size:	13-3/4"								
Casing Size:	9-5/8" @ 3								
Cemented with:	300	<del></del>	sacks	(or)			_ft3		
Top of Cement:	Surface								
Method Determined:	Visual								
			Pr	oduction	Casing				
Hole Size:	8-3/4"		<u> </u>		2401119				
Casing Size:	7" @ 3635	ŀ							
Cemented with:	250		sacks	(or)			ft3		
Top of Cement:	Unknown	_ <del></del> `	340110	(0.)		<del></del>			
Method Determined:	Ontro								
Total Depth:	3645'								
Addtitional Data									
1. Is this a new well	drilled for in	ection?			No				
If no, for what purpos	-	_	drilled?		Oil and gas				
2. Name of the Inject	tion Formati	on:			n/a				
3. Name of Field or I	Pool (if appl	icable):			Jalmat Tan	sil-Yates-	Seven Rive	rs	
4. Has the well ever l.e. sacks of cement	•	•	other zon	e(s)? Lis	t all such perfor	rated inter	vals and giv	e plugging o	detail,
5. Give the name an Jalmat Yates Gas Zo	•			underlyin	g or overlying th	ne propose	ed injection	zone in this	area:
Completion Record				77.00					
Perfs:		3568'-3594'	, 3086'-3	3228'					
Acid, Shot, Fracture,	Squeeze:				o. 3 charges				
					10,000 gals. lea	se crude &	<u>k 10,000# s</u>	and	
					20,000 gals. lea				

OPERATOR:	(	Grace Petr	oleum Corp	o	<del></del>				
WELL NAME & NUM	BER:	State of Ne	ew Mexico /	A A/C-1 #6	·		<del> </del>		
WELL LOCATION:	990' FNL, 9	90' FEL			Α	22	T-23-S	R-36-E	Lea
,	(Footage Location)			·	(Unit Letter)	(Section)	(Township)	(Range)	(County)
			WELL CO	NSTRUCTI	ON DATA				
			Su	ırface Casir	<u>ıq</u>				
Hole Size:	12"		·						
Casing Size:	8-5/8" @ 33	<u> 11'                                    </u>							
Cemented with:	170		sacks						
Top of Cement:	Surface								
Method Determined:	Visual								
			Proc	duction Cas	sing				
Hole Size:	<b>7</b> -7/8"								
Casing Size:	4-1/2" @ 32	93'	•						
Cemented with:	175		sacks						
Top of Cement:	n/a		•						
Method Determined:									
Total Depth:	3300'		•						
Addtitional Data									
1. Is this a new well of	drilled for inie	ction?			No				
If no, for what purpos	•		v drilled?		Oil and gas				<del></del>
2. Name of the Inject			•		n/a		<del></del>		·
3. Name of Field or F			· · · · · · · · · · · · · · · · · · ·		Jalmat Tans	sil-Yat <b>es</b> -S	Seven River	 S	
4. Has the well ever	been perfora	ted in any	other zone	(s)? List all	such perfor	ated interv	als and give	e plugging (	detail,
I.e. sacks of cement of	or plug(s) use	ed.			·			, 55 5	
Old perfs @ 3038'-31	49'. PA'd 5-	18-79 as fo	ollows:						
Set CIBP @ 3000' w/	10 sx cmt or	n top							
Set cmt plug @ 2500	)' w/ 35 sx cn	nt on top (	TOC 2390')						
Set cmt plug @ 381'	w/ 35 sx cmt	on top (TC	OC 330')						
spotted ac	iditional 35 s	x cmt from	330' up (T	OC 240')			<del></del>		
spotted 15	sx cmt @ 2	40' to surfa	ace						
					<del></del>				
5. Give the name and Jalmat Yates Gas Zo		-		nderlying or	overlying th	e propose	d injection z	zone in this	area:
Completion Record					· /·······				
Perfs:	3	3038'-3149	<b>)</b> '						
Acid, Shot, Fracture,				00 gals. Gell	ed MS acid	, 15,000#	sand		
	_								·····

**COMPANY: Energen Resources Corporation** 

Langlie Lynn Queen Unit #20 WELL:

Langlie Mattix 7 Rivers / Queen FIELD:

Lea **New Mexico** STATE: COUNTY: \_anolle Mattix 7 Rivers / Queen #20 Corporati **PLATFORM EXPRESS** anglie Lynn Queen Unit **Compensated Neutron** Schlumberger Three Detector Density / GR 672' FSL & 1797'FEL Resources 672 FSL & 1797 FEL Elev. K.B. 3406 ft G.L 3394 ft D.F. 3405 ft 3394 ft Permanent Datum Ground Level Elev.. 12.0 ft Log Measured From: Kelly Bushing above Perm. Datum **Drilling Measured From:** Kelly Busning cention API Serial No. SECTION TOWNSHIP RANGE 30-025-34926 36E 22 **23**S ogging Date 3-MAR-2000 lun Number One Jepth Driller 3850 ft ichlumberger Depth 3854 ft 3ottom Log Interval 3836 ft op Log Interval 200 ft Lasing Driller Size @ Depth 8.625 in asing Schlumberger 331 ft 3it Size 7.875 in ype Fluid In Hole STARCH-MF-SS-DCS Density Viscosity 10.2 lbm/gal **3**0 s Fluid Loss PH 10 cm3 Source Of Sample Circulation Pit IM @ Measured Temperature 0.060 ohm.m 80 degF IMF @ Measured Temperature 0.045 ohm.m 80 degF IMC @ Measured Temperature *iource RMF* **RMC** Calculated 0.053 @ 91 0.040 RMF @ MRT IM @ MRT @ 91 **Maximum Recorded Temperatures** 91 degF Sirculation Stopped Time 3-MAR-2000 ogger On Bottom 3-MAR-2000 **Init Number** 3125 Hobbs, NM lecorded By Tom Steinauer/Olav Amundsen Vitnessed By Del Windle / Brad English

**COMPANY: Energen Resources Corporation** Langlie Lynn Queen Unit #20 **WELL:** Langlie Mattix 7 Rivers / Queen FIELD: **New Mexico** Lea **COUNTY:** STATE: Resources Corporation Langlie Nattix 7 Rivers / Queen #50 **PLATFORM EXPRESS** Queen Unit **Azimuthal Laterolog** Schlumberger 8 1797'FEL MicroCFL 672 FSL & 1797 FEL K.B 3406 ft Elev.. G.L 3394 ft OCATION Energen ĘS,  $D.\Gamma$ 3405 ft Ground Level Permanent Datum: Elev.: 3394 ft Kelly Bushing Log Measured From: 12.0 ft above Perm. Datum Drilling Measured From: Kelly Bushing \_ocation Well API Serial No. SECTION TOWNSHIP RANGE 30-025-34926 22 23\$ 36E 3-MAR-2000 Logging Date Run Number Depth Driller 3850 ft Schlumberger Depth 3854 ft Bottom Log Interval 3846 ft Top Log Interval 331 ft Casing Driller Size @ Depth 8.625 in Casing Schlumberger 331 ft 7.875 in Bit Size STARCH-MF-SS-DCS Type Fluid In Hole Density 10.2 lbm/gai Viscosity Fluid Loss 10 cm3 Source Of Sample Circulation Pit 80 degF RM @ Measured Temperature 0.060 ohm.m RMF @ Measured Temperature 0.045 ohm.m (a) 80 degF RMC @ Measured Temperature Source RMF RMC Calculated RM @ MRT RMF @ MRT 0.053 @ 91 0.040

Maximum Recorded Temperatures

Location

Circulation Stopped Logger On Bottom

Unit Number

Recorded By

Witnessed By

91 degF 3-MAR-2000

3-MAR-2000

3125 | Hobbs, NM

Del Windle / Brad English

Tom Steinauer/Olav Amundsen

23:59

COMPANY: Energen Resources Corporation

WELL: Langlie Lynn Queen Unit #20

FIELD: Langlie Mattix 7 Rivers / Queen

COUNTY: Lea STATE: New Mexico

COUNTY. Lea		O I A I L			SAICO
anglie Mattix 7 Rivers / Queen 372' FSL & 1797'FEL anglie Lynn Queen Unit #20 Energen Resources Corporation OCATION  A 29 Set 129 Set	berger	MECHAN WALL CO GAMN		TOO	
Langlie Mattix 7 Pive 672 FSL & 1797 FEL Langlie Lynn Queen Energen Resources LOCATION LOCATION LOCATION Location Measured Location Measur	7'FEL		Elev .	K.B G.L D.F.	3406 ft 3394 ft 3405 ft
SS S S S S S S S S S S S S S S S S S S		and Leve	Elev.:	3394	
Log Measured		Bushing Bushing	12.0 ft	abov	e Perm. Datum
Drilling Measur  Drilling Measur  API Ser  30-025	i	SECTION 22	TOWNS 23S		RANGE 36E
Run Number Depth Driller Schlumberger Depth Bottom Log Interval Top Log Interval Casing Driller Size @ Depth Casing Schlumberger Bit Size Type Fluid in Hole Density Viscosity Fluid Loss PH Source Of Sample RM @ Measured Temperature RMC @ Measured Temperature Source RMF RMC	3-MAR-2000 One 3850 ft 3854 ft 3813 ft 3558 ft 8.625 in 331 ft 7.875 in STARCH-MF-SS 10.2 lbm/gal 10 cm3 Circulation Pit 0.060 ohm.m 0.045 ohm.m	(i) 331 ft.  DCS 30 s 10 (i) 80 degF (ii) 80 degF			
RM @ MRT RMF @ MRT  Maximum Recorded Temperatures Circulation Stopped Time Logger On Bottom Time Unit Number Location Recorded By Witnessed By	0.053 @ 91 91 degf 3-MAR-2000 3-MAR-2000 3125 Hobbs Tom Steinauer/J Del Windle / Brad	im Andrews	(0)	. D	<b>(0</b>