ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]

[DD-Directional Drilling] [SD-Simultaneous Dedication]

[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]

[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]

[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]

[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]

[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

		•
[1]	TYPE OF AI [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD DSD
	Check [B]	Cone Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ✓ WFX □ PMX □ SWD ☑ IPI □ EOR □ PPR
[2]	NOTIFICAT [A]	TON REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply ☐ Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Ernie Buttross Print or Type Name E. L. Rethose Jr.

Dist. ENG.

1/29/97 Date

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS WEX. 703
Operator: Devois Energy Well: 11/257 PED LAKE - 6 WELLS
Contact: FRIE SUTROS Title: FILE Phone: 905-552-45/5
Contact: <u>Frie Streos</u> Title: <u>File</u> Phone: <u>905-552-45/5</u> DATE IN <u>7-3-97</u> RELEASE DATE <u>2-18-97</u> DATE OUT <u>3-12-97</u>
Proposed Injection Application is for: X WATERFLOOD X Expansion Initial
Original Order: R- 3469 Secondary Recovery Pressure Maintenance
SENSITIVE AREAS SALT WATER DISPOSAL Commercial Well WPP Capitan Reef Other
Data is complete for proposed well(s)? Additional Data Req'd
AREA of REVIEW WELLS
55 Total # of AOR /O # of Plugged Wells
पृ <u>हिं</u> Tabulation Complete
Cement Tops Adequate AOR Repair Required
INJECTION FORMATION
Injection Formation(s) <u>ANDECT</u>
Source of Water or Injectate <u>GREG / S-1</u> Compatible Analysis <u>UES</u>
PROOF of NOTICE
47 Copy of Legal Notice 15 Information Printed Correctly
Correct Operators Copies of Certified Mail Receipts
Objection Received Set to Hearing Date
NOTES: SOZ OPPER: PERES ON \$36, 71, 74
APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? 4/5
COMMUNICATION WITH CONTACT PERSON: Rup 97
1st Contact: X Telephoned Letter 37597 Date Nature of Discussion VCBSC 3756014C
2nd Contact: Telephoned Letter Date Nature of Discussion

20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260 Telephone 405/235-3611 FAX 405/552-4550

January 28, 1997

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Santa Fe, NM 88505

Attention: Ben Stone

RE: West Red Lake Unit #26, #36, #47, #63, #71, & #74 Section 8-T18S-R27E Eddy County, New Mexico

Gentlemen:

Enclosed please find our Application for Authorization to Inject for each of the above captioned wells.

Devon Energy Corporation also requests that the maximum injection pressures for these wells be higher than .2 psi per foot of depth to the uppermost injection perforation. This request is based on the data in Table I which shows the frac gradients obtained from stimulation treatments on wells in the area. Figure I is a map showing the location of the proposed injectors and the wells used in this study.

The frac gradient is used to calculate the maximum surface injection pressure (injection wellhead pressure gradient x depth to the uppermost perforation = maximum surface injection pressure) that can be attained without fracturing the formation. Provided the calculated wellhead pressure gradient is not exceeded, the formation cannot be fractured and injection fluids will be contained in the formation. This has been confirmed through injection surveys run on existing injection wells in the unit.

Based on the attached information, Devon respectfully request that the maximum wellhead pressure gradient for the proposed injection wells be .77 psi per foot of depth to the uppermost perforation. This is the average for the eight wells in the area of interest. We will also periodically run injection surveys to ensure that injection is confined to the San Andres formation.

If you have any questions, please give me a call at 405-552-4509.

Sincerely,

Ernie Buttross

District Engineer

Ernie Buttross

Report To My.

Report

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: XX Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? XYes No
II.	OPERATOR: Devon Energy Corporation (Nevada)
	ADDRESS: 20 N. Broadway, Ste 1500, Oklahoma City, OK 73102
	CONTACT PARTY: E. L. Buttross, Jr. (405) 235-3611 PHONE: ext 4509
III.	WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary. REFER TO ATTACHMENT III
IV.	Is this an expansion of an existing project: XX Yes No If yes, give the Division order number authorizing the project R-3469
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. REFER TO ATTACHMENT V
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. REFER TO ATTACHMENT VI
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
*VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological 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. REFER TO ATTACHMENT VIII
IX.	Describe the proposed stimulation program, if any. Will acidize perforations with 5000 gals 15% NEFE
* X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.) PREVIOUSLY FILED
* 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. THERE ARE NO FRESH WATER WELLS IN THIS AREA.
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 source of drinking water. REFER TO ATTACHMENT XII
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form. REFER TO ATTACHMENT XIII
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: E. L. Buttross, Jr. TITLE: District Engineer
	SIGNATURE: E.J. B. Than J. DATE: 1/29/97
*	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 circumstance of the earlier submittal.

DISTRIBUTION: 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 name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

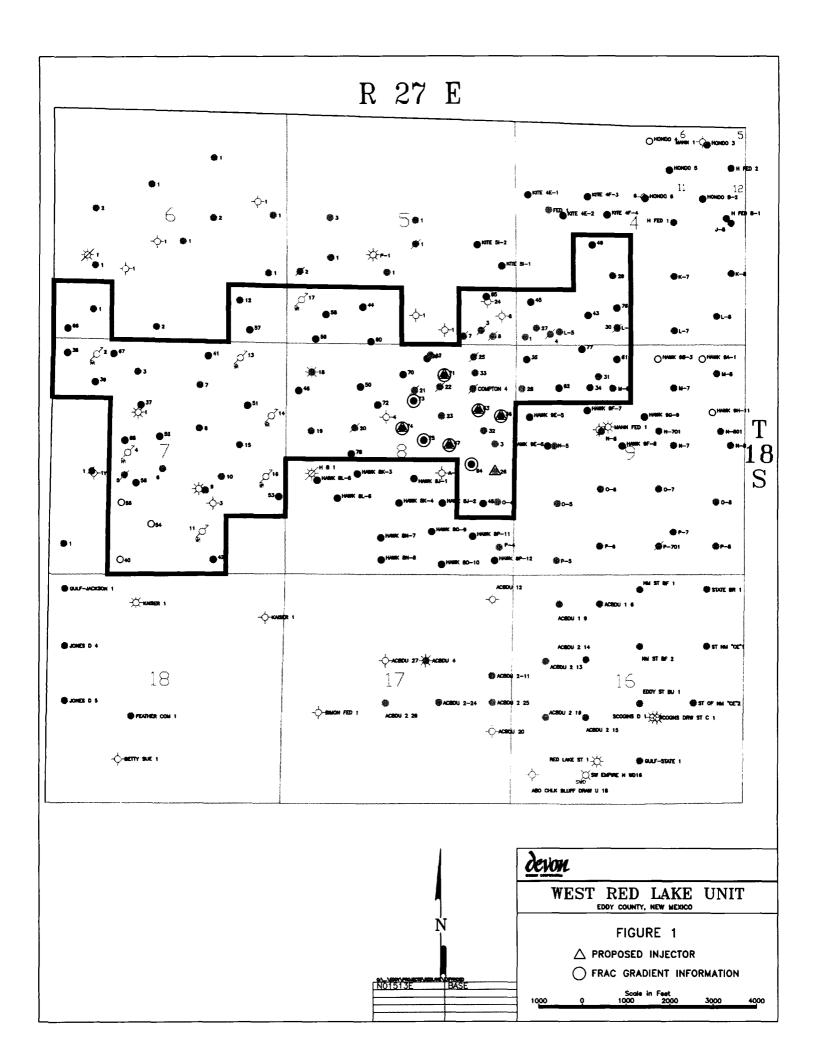
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

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

NOTICE: 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.



Sheet1

		ABLE I	
AVERAGE INJEC		EAD PRESS	SURE GRADIENTS
	WESTRE	D LAKE UN	
W. RED LAKE UNIT WELL NO.	DEPTH TO TOP PERF (FT)	FRAC GRADIENT (PSI/FT)	WELLHEAD PRESSURE GRADIENT (PSI/FT)
36	1657	1.22	0.75
47	1656	1.11	0.64
63	1656	1.24	0.77
64	1689	1.25	0.78
71	1194	1.23	0.76
73	1552	1.19	0.72
74	1196	1.41	0.94
75	1580	1.32	0.85
Average	1522	1.24	0.77

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

.15

ATTACHMENT III

WELL NAME: West Red Lake Unit # 26

LOCATION:2340' FSL & 400' FEL of 8-18S-27E

FIELD: Red Lake

COUNTY: Eddy

STATE: NM

ELEVATION: DF 3495'

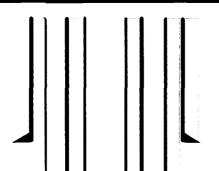
API#:

SPUD DATE: 12/6/37

COMP DATE: 5/24/38 DATE: 11/19/96

PREPARED BY: D. Kevs	DATE

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0-580'	10"	40#				
CASING:	0-1140'	8-5/8"	32#				
CASING:	0-1336'	7"	24#				ļ
LINER:	0-2125'	4-1/2"	,				I
TUBING:	0-+/- 1875'	2-3/8"					



CURRENT



OPERATOR: DEVON ENERGY CORPORATION

10" surface csg, set @ 580.

TOC 1025' (Cemoton Log 10/61)

8-5/8" intermediate csg, set @ 1140' TOC @ surface.

7" production csg, set @ 1336'.

2-3/8" fiberglass or IC tbg set @ +/- 1875' w/a PC AD-1 tension pkr.

INJECTION INTERVAL THROUGH San Anders Perfs: 1972-1978' (6); 1986-1992' (6); 1995-2001' (6) 2006-2012' (6) 2021-2027 (6); 2032-2050' (18); and 2057-2081' (24)

TD @ 2114'

4-1/2" liner f/surface to 2125' with 125 sxs of cmt, cmt did not circ, ran 1" pipe on outside of csg & cmt'd w/200 sxs cmt, TOC @ surf

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

ATTACHMENT III

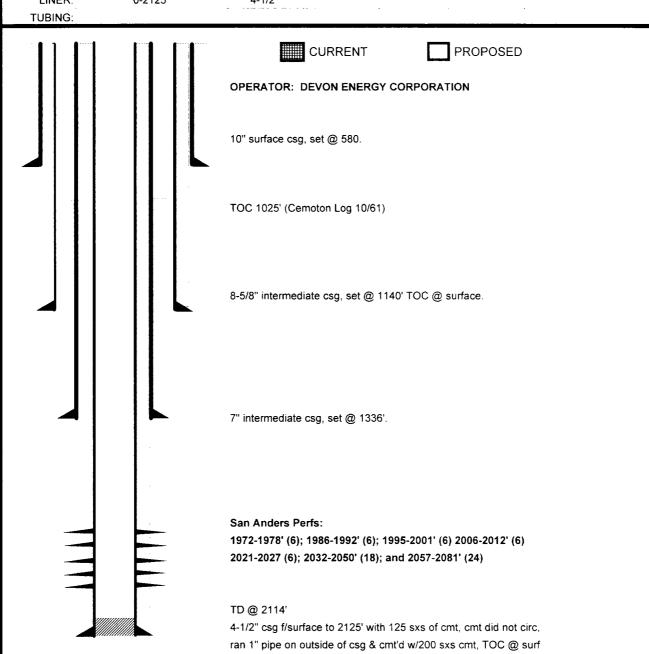
 WELL NAME: West Red Lake Unit # 26
 FIELD: Red Lake

 LOCATION:2340' FSL & 400' FEL of 8-18S-27E
 COUNTY: Eddy
 STATE: NM

 ELEVATION: DF 3495'
 SPUD DATE: 12/6/37
 COMP DATE: 5/24/38

 API#:
 PREPARED BY: D. Keys
 DATE: 11/19/96

··							
:	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0-580'	10"	40#				
CASING:	0-1140'	8-5/8"	32#				
CASING:	0-1336'	7"	24#	•			
LINER:	0-2125'	4-1/2"		*			
TUDING			••	•		•	



ATTACHMENT III (tabular)

Well Data

- A. (1) West Red Lake #26
 2340' FSL & 400' FEL "I"
 Section 8-18S-27E
 Eddy County, NM
 - (2) Please refer to the wellbore schematic labeled Attachment III (schematic)

Surface: 10" 40# @ 580' TOC surface.

Intermediate: 8-5/8" 32# @ 1140' TOC surface. Intermediate: 7" 24# @ 1336', TOC surface.

Production: 4-1/2" set @ 2125' w/125 sxs cmt, TOC surf. (Also see schematic for any existing tbg and/or liner used)

- (3) Tbg will be 2-3/8" fiberglass or internally coated, set @ 1875'.
- (4) We will use a 5-1/2" x 2-3/8" plastic coated AD-1 tension packer to be set @ 1875' +/-.
- B. (1) The injection formations will be the San Andres in the Red Lake (Q-GB-SA) Field.
 - (2) The proposed interval will be approximately 1972-2081'. The injection interval will be through or existing perforations 1972-2081'
 - (3) This well was originally drilled and completed as an oil well. It produced from the San Andres Formations.
 - (4) Please refer to the wellbore schematic labeled Attachment III (schematic) for depths of other perforated intervals and detail on the sacks of cement.
 - (5) There are no known lower oil formations.

Attachment VII

Devon Energy Corporation West Red Lake #26 2340' FSL & 400' FEL "I" Section 8-18S-27E Eddy County, NM

Proposed Operation:

- 1. Plans are to inject 800 barrels of produced water per day.
- 2. The Injection system will be a closed system.
- 3. The proposed injection pressure is 800 psig. Maximum pressure will be .77 psi/ft of depth to the top perforation (see attached memo).
- 4. The injection fluid will be Grayburg/San Andres produced water.
- 5. See attached water analysis.

Attachment VIII

Devon Energy Corporation West Red Lake #26 2340' FSL & 400' FEL "I" Section 8-18S-27E Eddy County, NM

Geology and Lithology

Injection zones are sand lenses within the San Andres formations at an average depth 1972-2081'. Specifically they are:

San Andres

Fresh Water Zones

Base of near surface aquifer 500'. No fresh water zones exist below the proposed injection interval.

Attachment XII

Devon Energy Corporation West Red Lake #26 2340' FSL & 400' FEL "I" Section 8-18S-27E Eddy County, NM

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studied of formations in West Red Lake Unit.

Proof of Notice

Devon Energy Operating Corporation operates the West Red Lake Unit in Section 8 of 18S-27E, Eddy County, NM. Operators operating in area of review:

Breck

Yates

Amoco

Arco

Compton

Simon

Each of these operators were provided a letter and a copy of our application by certified mail. Copies of the letters are enclosed, proof of notice will follow.

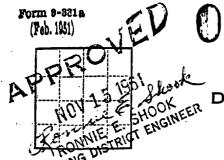
The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Proof of Publication

Proof of Publication from the Carlsbad Current-Argus is enclosed.

WKUL 26

OPERATOR'S CUPY



(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Ap	proval expires 12-31-60.	
	5.16. 0\175	(a)

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF.
NOTICE OF INTENTION TO CHANGE PLANS.	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SI'BSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	li linton lino ole

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

	********	November 10, 1961	19
Vandagriff Well No. #1 is locate	02340 ft. from (c)	ine and thoo ft. from W line of sec	<u>.</u> 8
NE & SE & Sec. 8	183-27E,	N.N.F.M.,	;
(1/4 Sec. and Sec. No.)	(Twp.) (Range)	(Meridian)	
red lake	EDDY	NEW MERICO.	;
(Field)	(County or Subdivisi	on) (State or Territory)	i

The elevation of the derrick floor above sea level is 31:95 ft.

DETAILS OF WORK

NOV 1 5 1981

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding ing points, and all other important proposed work)

On October 18, 1961 we fracked well, using

80,000 gallons of water and 50,000 pounds of sand.

Before fracking and completion of this work, well was making about two barrels per day. Vell is now placed on the and pumping back load water.

Work done by Halliburton Gil Well Cementing wo.

Company	MILDRED CRANE HUDSON	•	
Address	DRAIMR T	~	/
Auu	ARTESIA, NEW MEXICO	By Mildred.	Crape Theken
+		Title OF STATOR.	



(SUBMIT IN TRIPLICATE)

UNITED STATES PARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	il expires	12-31-60.	:
Office	Los	ರಿಯಾದದನ	

Land Office	Las	ومعتبين	S 🧨 :
Losse No	N.C.	0:175	£ (3)
	•	٢	

SUNDRY NOTICES AND REPORTS ON WELLS

(Indicate above by Check Mar	K NAT	URE OF REPORT, NOTICE, OR OTHER DATA)	
			<u>.l</u>
NOTICE OF INTENTION TO ABANDON WELL.			-
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY.	-
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	.	SUBSEQUENT REPORT OF ABANDONMENT.	-
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	.	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	.	SUBSEQUENT REPORT OF ALTERING CASING.	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	-
NOTICE OF INTENTION TO DRILL	-	SUBSEQUENT REPORT OF WATER SHUT-OFF	

		October 13	• 1961
Vandagriff	ed231:0 ft. from_ S line a	and loss of from	(E) 1: 8
			in white or sec.
neżseż sec. 8	18-s, 27-E,	N.M.P.M.	
(1/4 Sec. and Sec. No.)	(Twp.) (Range)	(Meridian)	
RED LAKE	EDDX		N MIXICO
(Field)	(County or Subdivision)	(State or Territory)
The elevation of the derrick	floor above sea level is 310	i. ft. (L48)	CGT 19 1951
	DETAILS OF WO	ORK .	U. S. GEOLOGICAL SURVE

On October 11, 1961 we ran 2125' of 4-1/2" O.D. casing. cemented same with 125 sacks and cement did not circulate. Wo ran 480° of 1" pipe on the outside of casing and camented to surface with 200 sachs of commit.

	Work was	done by	Halliburton	Oil	Well	Comentin	g Co mpai ny
	and that this plan of work mu			rical Sur	vey before	pperations may be s	commenced.
	DRAVER T			· "	·	/	
***********	ARTESIA, NEW	MEXICO	Ву	,,	<u> </u>	<u>,)/</u>	<u> </u>
***************************************	. /		Title	e	Oper	rator.	TATALY
							GP0 4:4367

Copy to: Roswell NMOCC(2)



(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Approve	d expi	u No. 42-R358. res 12-31-63.	
Land Office	្ន	Grant.	-
Lease No.		-	
Unit	3		

ILLEGIBLE

SUNDRY NUTICES AF	ND REPORTS ON WELLS
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS.	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<i>p</i>
<u> </u>	*
(Indicate above by Check Mark N.	
	September 25, 1961 19
Vandagriff Well No. #1 is located 2340 ft. from.	$\begin{cases} S \\ S \end{cases}$ line and $\frac{1}{5}$ ft. from $\begin{cases} E \\ V \end{cases}$ line of sec.
	(-)
(M. Sag and Sag No.) (Twn) (R.	ange) (Meridian)
ME/4 SE/4 Sec. 8 18-5, Ween and Sec. No.) (Twp.) (R. Rod Lake Eddy	New Memico
(Field) (County or S	
The elevation of the derrick floor above sea level	l is <u>31:95</u> ft.
DETAILS	s of work
State names of and expected depths to objective sands; show sizes, ing points, and all other	weights, and lengths of proposed casings; indicate mudding jobs, coment- er important proposed work)
We plan to re-work thi	is well with the following program:
Clean out to approxima	atoly 2,150°, setting 4" liner,
oringing liner up into 5-1/2" ca	asing, cementing same. We then plan
to perforate and frack with 60,0	000% sand.
Work to be done by th	io Apacho Prilling Congany,
ertesia, New Mexico.	RECEIVED
I understand that this plan of work must receive approval in wri	ting by the Geological Survey before operations may be communicate.
Company William Company Williams	US CONTRACTOR
iddress DRAMER T.	102 PARTESIA, MENTERINO
ARTESIA, HEN MENICO	By A Tholson
	Title Crorovor

Artosia, N.Y. July 18, 1942

Mr. Glenn Staley Hobbs, New Mexico

Dear Sir:

We have just completed the cleaning out of the Vandagriff Well #1 located Section 8, NE/4 of SE/4, 185-27E. This well has not produced any oil since August, 1941, as our reports to you indicate. We do not have an allowable on this well. Since cleaning out and making a test, the well is now making approximately 12 bbls. of oil and 3 bbls. of water.

Would you please notify us our alloyable for the month of July; also advise the New Mexico Asphalt & Refining Company to whom we are now selling the oil.

As I am sure you know, we have recently acquired these properties from McGinley & Heartwell. We intend to work over all these old wells. We have put in some new pumping equipment which has helped our production a little on the Mann and Brainard Leases, and we are now making I to 2 bbls. per day more than the allowable you gave us for the month of June. As both these leases are making some water, may we get the allowable for July increased to take care of this extra production.

With advanced thanks, we are

Yours very truly,

II. D. TORRAH, A., II. Dor MOGRATIY & INARGUIAL

ILLEGIBLE

LRW:mh

Form 9-331a (May 1939)

(SUBMIT IN TRIPLICATE)

u.s. Land Office. Las Cruces #026855

Lease or perm

UNITED STATES EPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

SUNDKY N					
NOTICE OF INTENTION TO DRILL	st	IBSEQUENT REPORT OF	WATER SHUT-OFF		
NOTICE OF INTENTION TO CHANGE PLANS	su	BSEQUENT REPORT OF	SHOOTING OR ACIDIZ	ZING	
NOTICE OF INTENTION TO TEST WATER SE	HUT-OFFSL	BSEQUENT REPORT OF	ALTERING CASING		
NOTICE OF INTENTION TO RE-DRILL OR R	EPAIR WELL SU	BSEQUENT REPORT OF	REDRILLING OR REP	AIR	
NOTICE OF INTENTION TO SHOOT OR ACIE	DIZE SU	BSEQUENT REPORT OF	ABANDONMENT		
NOTICE OF INTENTION TO PULL OR ALTER	R CASING	PPLEMENTARY WELL HI	STORY		
NOTICE OF INTENTION TO ABANDON WELL			***********		
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(1/4 Sec. and Sec. No.)	(Twp.) (Range)		idian)		
Artesia	Eddy		New Mex	ico	
(Field)	(County or Subdiv	rision)	(State or Ter	ritory)	
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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Box 997
Roswell, New Moxico
June 23, 1942

Mr. H. J. Heartwell Box 792 Artesia, New Mexico

Re: Lease Las Cruces 026855

Dear Sir:

Receipt is acknowledged of your "Notice of Intention to Plug Back", dated June 22, 1942, covering Vandagriff of well, on the subject land, in the SE of section 8, T. 18 S., R. 27 E., Eddy County, New Mexico.

The attached notice is approved, on the condition that results of the proposed work will be submitted to this office, by proper written report, within ten days after completion.

Very truly yours,

JOIN A. BARNETT, District Engineer.

JAB:th ·

ec: 1413 Ft. Worth Matl. Bank Midg. Fort Worth, Texas



Form 9-331 a (May 1939)

(SUBMIT IN TRIPLICATE)

U. S. Land Office 198 Critice
025855
Lease or permit No.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO	RE-DRILL OR REPAIR WELL		SUBSEQUENT REI	PORT OF REDRIE	LING OR R	EPAIR	
NOTICE OF INTENTION TO	SHOOT OR ACIDIZE		SUBSEQUENT REI	PORT OF ABAND	ONMENT		
NOTICE OF INTENTION TO	PULL OR ALTER CASING		SUPPLEMENTARY	WELL HISTORY			
NOTICE OF INTENTION TO	ABANDON WELL						
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I understand that this plan	n of work must receive approval in	writin	g by the Geologic	cal Survey befor	e operation	s may be com	menced.
Company H.J. He	eartwell						

Address Box 79	a, N. M.						
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413 Et. Worth	Natl. Bank Bldg.	•	Ву	<u> </u>	1 2 6.	<u> </u>	معموره سيتنا
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			Title	Lease Box 79	20UD0.		
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Mr. John A. Darnett,
District Engineer
Department of Interior
Geological Survey
P.O. Box 997
Roswell, New Mexico

ILLEGIBLE

Dear Ur. Darnett:

work on plugging back with about the section of cement on Vendagrica Tell "1. Hence "West Closes of 526855, located ME/4 of the 19/4 of testing of the Two. 13. Range 27 East. The total decide of the well now is 2045, and we would him to show to about 1990. The water has increased the cleaning out and by plugging best to this of the we hope to be able to overcome the mater than lo.

Te would like to start this work them to

we do not have any forms "Sandry los" of and Reports on Wells", so trust thin last of the sufficient. Kindly send us a sure loss of the requests and reports say le rined controlls.

Yours very bords

M.G. Station, Section Discussion and the American M. S. Moderbacki

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. 0. Som 997 Reswell, New Mourice May 25, 1942

Mr. H. J. Meartwell Bom 792 Artesia, New Memico ILLEGIBLE

Ro: Lease Las Ornees 025035

Dear Sir:

Receipt is admorated of your "Mobiles of Intention to Repair Well", dated May 25, 1002, covering Vandagriff (1 well, on the subject land in the SUL of scotion 8, T. 18 3., R. 27 h., Eddy County, New Memico.

The attached notice is engraved, on the condition that
results of the proposed work will be subsided to this office,
by proper written report, within ten days after completion.

Yory unily yours,

Jour A. Dalamin, District langinger.

JAD: th

cc: 1/413 Ft. Worth Natl. Bank Bldg. Fort Worth, Texas

(SUBMIT IN TRIPLICATE)

U. S. Land Office			
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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

NOTICE OF INTENTION TO DRILL	L	SUBSEQUENT	REPORT OF WATER SHUT-OFF	
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NOTICE OF INTENTION TO TEST	WATER SHUT-OFF	SUBSEQUENT	REPORT OF ALTERING CASING	
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NOTICE OF INTENTION TO ABAN	DON WELL		***************************************	·
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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Box 997 Roswell, New Mexico April 10, 1940

Mr. N. G. Carter P. O. Box 792 Artesia, New Mexico

Dear Sir:

We are returning herewith the one copy of your "Subsequent Report of Water Shut-Off" covering the Vandagriff test located in Sec. 8, T. 18 S., R. 27 E.

It is necessary that all sundry notices and reports be submitted to this office in triplicate.

The U. S. Land Office and lease number should be inserted on the form in the space provided at the upper right hand corner of the sheet. It is also noted that you have indicated the well as being in Sec. 5, T. 18 S., R. 27 E., whereas it is actually in Sec. 8.

Please correct and complete this report and forward three copies of same to this office for proper handling.

Very truly yours

John A. Barnett District Engineer.

SUBSTITUTE TO THE INTERIOR GEOLOGICAL SURVEY SUNDRY NOTICES AND REPORTS ON WELLS NOTICE OF INTENTION TO BRILL NOTICE OF INTENTION TO BRIDD OR REDAR WILL SUBSEQUENT REPORT OF AND SUBSTILLING OR REPORT NOTICE OF INTENTION TO BRIDDOWN WILL SUBSEQUENT REPORT OF AND BRILL NOTICE OF INTENTION TO BRIDDOWN WILL NOTICE OF INTENTION TO BRIDDOWN WILL SUBSEQUENT REPORT OF AND BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDDOWN WILL SUBSEQUENT REPORT OF AND BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDDOWN WILL SUBSEQUENT REPORT OF AND BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDLE (INTENTION TO BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDLE (INTENTION TO BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDLING (INTENTION TO BRIDLING OR REPORT NOTICE OF INTENTION TO BRIDLING OR REPORT NOTICE OF INTEN	Form 9-331a	, s		Ų	c
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(Sc 3495)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Bom 997 Roswell, Now Memico March 30, 1940

Mr. H. J. Ecartwell 1301 Ft. Worth Mat*1 Bank Bldg. Fort Worth, T.zas

1779 Jas Omessa 026555

Dear Sir:

Receipt is admowledged of your "Hetice of Intention to Plug Back" dated March 28, 1940, covering your Vandagriff No. 1 well on the subject land in the SE of Sec. 8, E. 18 S., E. 27 E.

The attached notice is approved on the condition that results of the proposed work will be submitted by proper written report to this office within ten days of completion.

Very truly yours

CJOHN A. DARHUUT Elevrist Highnoom

Jab: Kba

co: M. G. Carter P. O. Box 792" Artetia, N. M.

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NOTICE OF I	NTENTION TO SHOOT OR	ACIDIZE	- 1		NMENT
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	(Field)	(County or S	ubdivision)		(State or Territory)
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THE CICVALI	on or the deriver i	· ·	15 1 (.		
		DETAILS	OF WORK		
(State names of	and expected depths to o	bjective sands; show sizes, 1	veights, and lengths of prop	osed casin	ngs; indicate mudding jobs, cement-
•		ing points, and all other	r important proposed work)	
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I understand	that this plan of work m	ust receive approval in writ	ing by the Geological Surv	y before	operations may be commenced.
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Form	9-330

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U. S. LAND OFFICE W.H. CH175.A. SERIAL NUMBER LEASE OR PERMIT TO PROSPECT

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY	上して		Jal Ore G	avv ca	
CompanyMildred Crane Hudson		Addres	s Draver T.	Artesia, Mo	w Moriloo
Lessor or Tract Lee Vardagriff		Field -	Artosia	StateI	Tew Herrico
Well No Sec8_ T. 185 R. 2	ZE. Merid	lian II.M.	PaMaCor	intyEć	ldy
Location 2340. ft. S. of I. Line and	-400 ft.	E. of _E.	Line of NE	SEF	Clevation
The information given herewith is a so far as can be determined from all avail	complete lable reco	and correc		ell and all wo	rk done thereon
Date May 24, 1938	•		Title	*	
The summary on this page is for the	condition	of the well	at above date.		
Commenced drilling December 6	, 19.3	37. Finish	ed drilling	April 12	, 19. 3 8.
OIL (SANDS O	R ZONES		
No. 1, from to		. No. 4,	from	to	
No. 2, from to		No. 5,	from	to	
No. 3, from to		. No. 6,	from	to	
No. 1, from 1086 (Artesian) 1086	8	•	from		
No. 2, from1311 (Sulphur)0134			from	to	. <u></u>
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MUDDIN	NG AND	CEMENTI	NG RECORD		
Size where set Number sacks of come	nt :	Method used	Mud gravity	Amoun	Lof mud used
				-	
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PROGS AND ADAPTERS Adapters-Material Size SHOOTING RECORD Date Explosive used Quantity Depth shot Size Shell used Depth cleaned out TOOLS USED Rotary tools were used from ______ feet to _____ feet, and from _____ feet to _____ Cable tools were used from _____feet to __Bottom. feet, and from _____feet to ____feet DATES " The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; ____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. Rock pressure, lbs. per sq. in. EMPLOYEES _____, Driller Dan B. Webb....., Driller _____, Driller FORMATION RECORD From-TOTAL FEET FORMATION Surface 0 2 3 Gyn Rock Red Clay 3 8 3 - 1 Gyn Rock 14 (18) Red Clay 8 14 20 :: :: Gyn Rock 60 20 ::: Gyn Rock and Red Clay Gray Lime 60 75 122 7 Anhydrite 75 122 140 : : : : Anhydrite and Blue Shale Anhydrite and Red Bed **160** ≳₃ ⊋ 140 Anhydrite Hard 1600 222 Blue Lime and Sulphur 222 226 Mg White Lime 233 225 Blue Shale 240 233 White Gyp - Some water 255. \\ 240 Anhydrito 255 ÷ Blue Chele 425

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Brown Shale -

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Sand

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Gray Shalo

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FORMATION RECORD—Continued

FROM-	то	TOTAL FEET	FORMATION
c : 535	2 555	* ;	Brown Shale
S 555	233 565	\	Anhydrite
555	580	, ,	Brown Shaloand Anhydrite
580	203 625		Gyp and Anhydrite
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750	772		Anhydrito
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30 (811 974		1:	· · · · · · · · · · · · · · · · · · ·
874	530 900		Anhydrite, Brown Shale and Redbed
∓्⊹ 900	1 1 11.5 917	•	Amhydrite
917	300 946		Anhydrite and Gyp
July 946	1000	-	Brown Sand (Some water) Anhydrite, Gyp
1000	1030		Brown Sand and Shale, carrying water
1030	1074		Redbed, Brown Shale and gyp
0 1074	1055	10:15:	Gray Lime
1055	1060		Redbod
1060	1062	Additional to the second	Lime
1062	1078	Winds of the	Redbed
1078	1311		Lime (1086-1088 water, Artesian)
1311	1314		Brown Sand (Hole full of Sulphur water
1314	5 1640		Lime, white
1640	1690		Brown lime
1690	1705		Gray Limo
1705	1760	ADATE DE SER C	Brown Lime
1760	1790	LOLINYA.	4 (1.2.4444)
1700	1820	<u>i</u>	· Bork Smoom Lime
1820	1875	The state of the s	Sandy Drown Lime
1875	1900	Deller	Gray Lime
1900	1925	EF	
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1025	1056 lbs. 1222. it		Sandy Brown Lime
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2007,	ction for 5035 rst	Zi nours was	Gray Lime Soft Gray Lime
2035	2050		
2050	2085	()	ta Dark Gray Lima
1780 -	1770 Gray Brown	Lime, oil she	wing; 1840-1875 Oil and goo showing;
1925-19	+5 Oil: Showing;	1955-1990 Fre	ខ ០រៀ កការដូចមួយនុស្សមួយមួយ បានការបញ្ជាប់ ស្រុកការបាន ប្រមុទ្ធ
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DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

		ATTAC	HMENT III					
WELL NAME: West	Red Lake Unit # 36		FIELD: Red La	ke				
LOCATION: 1630' F	NL & 330' FEL Section	36-18S-27E	COUNTY: Eddy	'	STATE: NM			
ELEVATION:	ON:			SPUD DATE: COMP DATE:				
API#:	PREPAREI	D BY: D. Keys		-	DATE:			
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE		
CASING:	0-1137'	8-5/8"	24#	-				
CASING:	0-2999'	5-1/2"	15.5#		-	•		
CASING:					•			
LINER:		•						
TUBING:	0- 2095'	2-7/8"			·	·		
			CURRENT R: DEVON ENERG 1137', cmt'd w/300					
=		Perforations						
=		1657-2104' \$	San Andres					
FF		PBTD 2903' Float Clr @ : 5-1/2" 15.5#	2903'. csg, set @ 2999', (cmt'd w/430 s	x scmt. TOC @	90' by CBL.		

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

ATTACHMENT III

		ATTAC	HMENT III			
WELL NAME: West	Red Lake Unit # 36		FIELD: Red La	ke		
LOCATION: 1630' FNL & 330' FEL Section 36-18S-27E			COUNTY: Eddy	STATE: NM		
ELEVATION:			SPUD DATE:		COMP DATE	
API#:	PREPARE	D BY: D. Keys			DATE:	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0-1137'	8-5/8"	24#			
CASING:	0-2999'	5-1/2"	15.5#			
CASING:						
LINER:						
TUBING:	0- 1600'	2-3/8"				•
		OPERATOR	CURRENT R: DEVON ENERG 1137', cmt'd w/300)
		2-3/8" tbg &	Premier will be squ AD tension pkr to b	e set +/- 1575		erforations
		WATERING		111007 2104	our Anales i c	
<u> </u>		PBTD 2903' Float Clr @ 5-1/2" 15.5#		cmt'd w/430 s	x scmt. TOC @	90' by CBL.

ATTACHMENT III (tabular)

Well Data

- A. (1) West Red Lake #36 1630' FNL & 330' FEL "H" Section 8-18S-27E Eddy County, NM
 - (2) Please refer to the wellbore schematic labeled Attachment III (schematic)

Surface: 8-5/8" csg @ 1137', cmt w/300 sxs cmt, TOC surf. Production: 5-1/2" 15.5# csg set @ 2999', cmt w/430 sxs cmt, TOC @ 90' (by CBL).

(Also see schematic for any existing tbg and/or liner used)

- (3) Tbg will be 2-3/8" fiberglass or internally coated, set @ 1575'.
- (4) We will use a 5-1/2" x 2-3/8" plastic coated AD-1 tension packer to be set @ 1575' +/-.
- B. (1) The injection formations will be the San Andres in the Red Lake (Q-GB-SA) Field.
 - (2) The proposed interval will be approximately 1657-2104'. The injection interval will be through or existing perforations 1657-2104'
 - (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
 - (4) Please refer to the wellbore schematic labeled Attachment III (schematic) for depths of other perforated intervals and detail on the sacks of cement.
 - (5) There are no known lower oil formations.

Attachment VII

Devon Energy Corporation West Red Lake #36 1630' FNL & 330' FEL "H" Section 8-18S-27E Eddy County, NM

Proposed Operation:

- 1. Plans are to inject 800 barrels of produced water per day.
- 2. The Injection system will be a closed system.
- 3. The proposed injection pressure is 800 psig. Maximum pressure will be .77 psi/ft of depth to the top perforation (see attached memo).
- 4. The injection fluid will be Grayburg/San Andres produced water.
- 5. See attached water analysis.

Attachment VIII

Devon Energy Corporation West Red Lake #36 1630' FNL & 330' FEL "H" Section 8-18S-27E Eddy County, NM

Geology and Lithology

Injection zones are dolomite porosity zones within the San Andres formations at an average depth of 1657-2104'. Specifically they are:

San Andres

Fresh Water Zones

Base of near surface aquifer 500'. No fresh water zones exist below the proposed injection interval.

Attachment XII

Devon Energy Corporation West Red Lake #36 1630' FNL & 330' FEL "H" Section 8-18S-27E Eddy County, NM

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studied of formations in West Red Lake Unit.

Proof of Notice

Devon Energy Operating Corporation operates the West Red Lake Unit in Section 8 of 18S-27E, Eddy County, NM. Operators operating in area of review:

Breck

Yates

Amoco

Arco

Compton

Simon

Each of these operators were provided a letter and a copy of our application by certified mail. Copies of the letters are enclosed, proof of notice will follow.

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Proof of Publication

Proof of Publication from the Carlsbad Current-Argus is enclosed.

OPERATOR'S COPY Form 3160-4 POR APPROVED OMB NO. 1004-0137 UI TED STATES SUBMIT IN DUPL TE. (October 1990) Experes: December 31, 1991 (Ner other in DEPARTMENT OF THE INTERIOR et ruct me. S. LEASE DESIGNATION AND SERIAL NO. reverse side) BUREAU OF LAND MANAGEMENT NM 7713 6. IT INDIAN, ALLOTTES OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* L TYPE OF WELL: WELL X SAR D T. UNIT AGREEMENT HAMB Other __ L TYPE OF COMPLETION: West Red Lake Unit PER. THE PIPP. 8. FARM OR LEASE NAME, WELL NO WELL X Other West Red Lake Unit #36 9. API WELL NO. Devon Energy Corporation (Nevada) 3. ADDRESS AND TELEPHONE NO. (405) 552-4511 30-015-27474 20 North Broadway Ste 1500, Oklahoma City, OK 73102
4. Lecariou of WELL (Report lecation electly and in accordance with any State requirements) 10. FIELD AND POOL, OR WILDCAT West Red Lake At surface 1630' FNL & 330' FEL 11. BEC., T., B., M., OR BLOCK AND SURVEY OR AREA At top prod. interval reported below same At total death same Section H-8-T18S-R27F.
12. COUNTY OR | 18. STATE 14. PERMIT NO. BATE MALLED PARLER <u>Edd v</u> 19. BLET. CASINGERAD 16 DATE T.D. BRACHED 17. BATE COMPL. (Ready to prod.) 18. SLEVATIONS (DP. RKB, RT. GR, ETC.)* 3490.7' 8-24-93 1-10-94 8-19-93 CABLE TOOLS 22. IF MULTIPLE COMPL... 23 INTERVALE 21. PLUG. BACK T.D., MD & TYD SOTARY TOOLS 20. TOTAL DEPTH, MD & TYD HOW MARL 29031 30001 nont 25. WAS DIRECTIONAL SUBVEY MAPS M. PRODUCING INTERVAL(8), OF TRIS CONFLETION-TOP, BOTTOM, NAME (MD AND TYE) Ale San Andres "A", "B", "C", "D" yes-enclosed 1841'-2104 5 1001 27. WAS WELL CORED 24 TYPE ELECTRIC AND OTHER LOGS BUR CBL, DLL with Micro SFL, CNL no CARING RECORD (Report all strings set in well) 23. CASING SIZE/GRADE WEIGHT, LA./FT. DEPTH SET (MD) MOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 12 1/4" circ to surface - 655 sx 8 5/8" 24 ppf 1137' none 7 7/8" 2999 5 1/2" circ to surface - 430 sx 15.5 ppf none LINER RECORD TUBING RECORD 8122 BOTTOM (MB) BACKS CEMENTS SCREEN (MD) PACKER SET (MD) TOP (MD) PEPTH SET (MD) RIZE $2 \frac{7}{8}$ 2208 31. PERPORATION RECORD (Interpol, size and number) ACID. SHOT. FRACTURE, CEMENT SQUEEZE, ETC. San Andres "D" 2068'-2104' (7 holes) DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL DOOR San Andres "C" 2024'-2036' (7 holes) 2104' -1841 10,500 gals 15% HCl acid San Andres "B" 1907'-1988' (10 holes) 40,800 gals gelled 2% KCl San Andres "A" 1841'-1864' (6 holes) water + 114,000# 12/20 sand 23.0 PRODUCTION DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, pas lift, pumping-size and type of pump) WELL STATUS (Producing or shu(-in) 1/10/94 producing pumping DATE OF TREE HOURS TRATED CHOER BIER PROD'H. POR OIL-BBL. GAR-HCF. WATER-BAL UAS-OIL BATTO TEST PERIOR 1/23/94 1029:1 24 68 70 70 PLOW, TORONG PRODUC CABING PRESSURE CALCULATED OH -- BRI. GAD--1107 WATLE--BEL OIL GRAVITT-API (CORR.) 24-BOUR BATS 68 70 70 \$4. DISPOSITION OF SAS (Sold, wood for fuel, venied, stc.) TRET WITHBORED BY sold effective 1/10/94 Danny Hokett 25. LIST OF ATTACEMENTS logs (3) and deviation survey 34. I bereby certify that the foregoing and attached information is complete and correct as determined from all available records

Debby O'Donnell

*(See Instructions and Spaces for Additional Data on Revene Side)

TITLE

Engineering Tech

1/26/94

DATE _

SIGNED Delety Oppmell

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

ATTACHMENT III

WELL NAME: West Red Lake Unit # 47

FIELD: Red Lake

LOCATION: 2310' FNL & 1510' FEL of Section 8-18S-27E

COUNTY: Eddy

STATE: NM

ELEVATION: GL 3475'

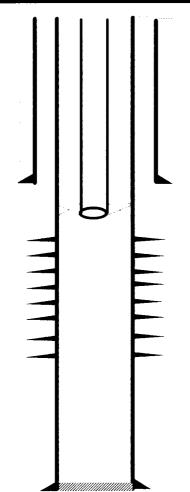
SPUD DATE: 9/24/95

COMP DATE: 10/13/95

API#: 30-015-28471

PREPARED BY: D. Keys

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0-1099'	8-5/8"	24#	J-55		12-1/4"	
CASING:	0-2249'	5-1/2"	15.5#	J-55		7-7/8"	
CASING:		•					
LINER:				-		•	
_TUBING:	0-1575'	2-3/8"					



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" set @ 1099', cmt'd w/550 sxs cmt, TOC surf.

2-3/8" fiberglass or IC tbg @ +/- 1575' w/AD-1 tension pkr.

WATER INJECTION THROUGH SAN ANDRES PERFORATIONS:

1656-2068' (25 holes)

PBTD @ 2199'.

5-1/2" 15.5# csg, set @ 2249'. cmt'd w/365 sxs cmt. TOC @ Surface

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

ATTACHMENT III

WELL NAME: West Red Lake Unit # 47

FIELD: Red Lake

LOCATION: 2310' FNL & 1510' FEL of Section 8-18S-27E

COUNTY: Eddy

STATE: NM

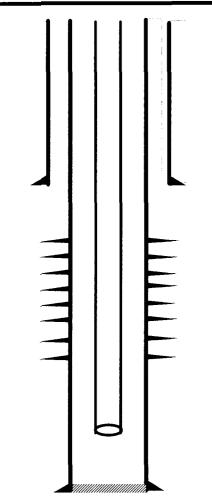
ELEVATION: GL 3475'

SPUD DATE: 9/24/95 COMP DATE: 10/13/95

API#:	30-0	15-28471
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PREPARED BY: D. Keys

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0-1099'	8-5/8"	24#	J-55		12-1/4"	
CASING:	0-2249'	5-1/2"	15.5#	J-55		7-7/8"	
CASING:							
LINER:							
TUBING:	0-2099'	2-7/8"					



CURRENT

PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" set @ 1099', cmt'd w/550 sxs cmt, TOC surf.

PERFORATIONS: 1656-2068' (25 holes)

2-7/8" Tbg @ 2099'

PBTD @ 2199'.

5-1/2" 15.5# csg, set @ 2249', cmt'd w/365 sxs cmt, TOC @ Surface

ATTACHMENT III (tabular)

Well Data

- A. (1) West Red Lake #47
 2310' FNL & 1510' FEL "G"
 Section 8-18S-27E
 Eddy County, NM
 - (2) Please refer to the wellbore schematic labeled Attachment III (schematic)

Surface: 8-5/8" 24#, J-55 csg @ 1099' w/550 sxs cmt, in 12-1/4" hole, TOC surf.

Production: 5-1/2" J-55, 15.5# csg @ 2249' w/365 sxs cmt, in 7-7/8" hole, TOC surf.

(Also see schematic for any existing tbg and/or liner used)

- (3) Tbg will be 2-3/8" fiberglass or internally coated, set @ \pm 1575.
- (4) We will use a 5-1/2" x 2-3/8" plastic coated AD-1 tension packer to be set @ 1575' +/-.
- B. (1) The injection formations will be the San Andres in the Red Lake (Q-GB-SA) Field.
 - (2) The proposed interval will be approximately 1656-2068'. The injection interval will be through existing perforations 1656-2068'
 - (3) This well was originally drilled and completed as an oil well. It produced from the San Andres Formations.
 - (4) Please refer to the wellbore schematic labeled Attachment III (schematic) for depths of other perforated intervals and detail on the sacks of cement.
 - (5) There are no known lower oil formations.

Attachment VII

Devon Energy Corporation West Red Lake #47 2310' FNL & 1510' FEL "G" Section 8-18S-27E Eddy County, NM

Proposed Operation:

- 1. Plans are to inject 800 barrels of produced water per day.
- 2. The Injection system will be a closed system.
- 3. The proposed injection pressure is 800 psig. Maximum pressure will be .77 psi/ft of depth to the top perforation (see attached memo).
- 4. The injection fluid will be Grayburg/San Andres produced water.
- 5. See attached water analysis.

Attachment VIII

Devon Energy Corporation West Red Lake #47 2310' FNL & 1510' FEL "G" Section 8-18S-27E Eddy County, NM

Geology and Lithology

Injection zones are dolomite porosity zones within the San Andres formations at an average depth of 1656-2068'. Specifically they are:

San Andres

Fresh Water Zones

Base of near surface aquifer 500'. No fresh water zones exist below the proposed injection interval.

Attachment XII

Devon Energy Corporation West Red Lake #47 2310' FNL & 1510' FEL "G" Section 8-18S-27E Eddy County, NM

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studied of formations in West Red Lake Unit.

Proof of Notice

Devon Energy Operating Corporation operates the West Red Lake Unit in Section 8 of 18S-27E, Eddy County, NM. Operators operating in area of review:

Breck

Yates

Amoco

Arco

Compton

Simon

Each of these operators were provided a letter and a copy of our application by certified mail. Copies of the letters are enclosed, proof of notice will follow.

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Proof of Publication

Proof of Publication from the Carlsbad Current-Argus is enclosed.

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC ATTACHMENT III WELL NAME: West Red Lake #63 FIELD: Red Lake

LOCATION: 1500' FNL & 850' FEL of Sec. 8-18S-27E

COUNTY: Eddy

STATE: NM

ELEVATION: GR 3474'

SPUD DATE: 4/4/96

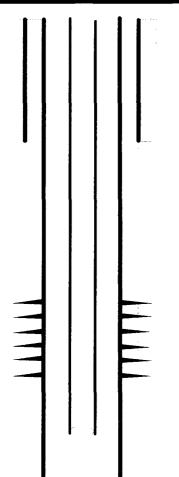
COMP DATE:4/25/96

API#: 30-015-28733

PREPARED BY: D. Keys

DATE: 12/10/96

	DEPTH	1	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0' - 992'		8-5/8"	24#	J-55		12-1/2"	
CASING:	0' - 2250'		5 1/2"	15.5#	J-55		7-7/8"	
CASING:	·							
TUBING:	0' - 2100'		2-7/8"					
TUBING:					-			



CURRENT

PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 992' w/550 sxs cmt. TOC @ surface

PERFORATIONS: 1656-2065' (26 holes)

1656-1712' ALPHA, 1826-1837' "A",

1881-1948' "B", 1982-2013' "C", 2048-2065' "D"

Treated w/2500 gals 15% NEFE & Frac'd w/15,000 gals Prepad + 53,000 gals 30# XL & 74000# 100 mesh, 274,000# Brady &

30,000# 16/30 sand.

2-7/8" tbg @ 2100'.

PBTD @ 2206'.

5 1/2" CASING SET @ 2250' W/400 SXS CMT . TOC SURF.

TD @ 2250'

FORM APPROVED

UNITED STATES S DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

(See other in-		COD	Y	
COED	A 10 10 10 10 10 10 10 10 10 10 10 10 10		SERIAL	МО
	NM-NM-7712			

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la TYPE OF WELL	O!_ WE:		OAS WELL		DRY	Othe					ACREEMED			
b TYPE OF COM	WORK T DEI	:P- [PLUG BACK			i i. Othe		1 '53			or LEASE			<u></u>
2 NAME OF OPE		<u> </u>			- 5						ed Lake	Unit #4	7 	<u>.</u>
2 ADDRESS AND	DEVON END.	ERGY (CORPORA	ATION (I	NEVADA)				9.API V 30-015	ELL NO. -28471		•	
	20 N. BRO							235-3611		1	D AND PO	-	MILDCAT	
	WELL (Report locations 10' FNL & 1510' FR		nd in accord	dance with	any State r	equirements)	*			Į	ke (Q-G		OCK AND SUR	VEY OR AREA
											T18S-R2			•
• •	val reported below (S	SAIVIE)												
At total depth (SAME)		14.F	ERMIT NO.	- · · · · · · · · · · · · · · · · · · ·	DATE ISSUE	D			12.COUNT	Y OR PAI	RISH	13.STATE	
						4/13/95				Eddy			NM	
15.DATE SPUDDED 9/24/95	16.DATE T.D.REACHET 9/30/95	17.DA 10/13	TE COMPL. (Ready to prod	Ų	18. ELEVAT GL 3475'	ions (DF, RKB, F	er, GR,	ETC.)*	19.1	ELEV. C	ASINGHEAD	
20.TOTAL DEPTH, MD 2250'	21.PLUG, B. 2199'	ACK T.D., 1	AD & TVD	22. IF M. N/A	TIPLE CO	PL., HOW MA	MA 4			TERVALS		TOOLS	CABLE TOO	LS
24. PRODUCING INTER 1656-2068' San A	VAL(S), OF THIS COM Indres	PLETION TO	P, BOTTOM, 1	NAME (MD	AND TVD)*				•			25. W MADE NO	AS DIRECTION	AL SURVEY
26.TYPE ELECTRIC A											27. WA	S WELL C	CORED	
Dual Laterolog/N	ISFL, Litho-Density/	Compensat	ed Neutron	and Ceme	ent Bond lo	gs					NO			
28. CASING SIZE/GRAD	E WEIGHT, LB	/FT		SING REC		oort all strin	gs set i		TANK	CEMENT ING	PECOPO		AMOUNT PU	
8 5/8" J-55	24#	./21.	1099'		12 1/4					sx Class		 		
								TOC st			-		<u> </u>	
5 1/2" J-55	15.5#		2249'		7 7/8"					sx Class	C			
			VED DECK	NDD				TOC st	ırface	······································	TUDING	DECO	DD.	
SIZE	TOP (MD)		NER RECO		CEMENT*	SCREE	(OMC) N	30.	SIZE		TUBING			SET (MD)
								2 7/8	H	2099),			
	The property of					1								•
31. PERFORA	TION RECORD (Inte	rval, size a	na numoer)			32.	***********	ACID S			•		SQUEEZE,	
	4 holes (.44" EHD)					1656-206		(MD)		gals 15%				
	4 holes (.44" EHD) 5 holes (.44" EHD)					1030-200							7000# 100-	Mesh sd +
1987-2028' w/8	3 holes (.44" EHD),	San Andr	es "C"										,000# 16/3	
	holes (.44" EHD)	San Andr	es "D"											
33.* DATE FIRST PRODUCT 10/15/95	PRODUCTIONS 2 1/2" x 2"			t, pumping		JCTION (pump)						sh	ELL STATUS (nul-in) rdg	Producing or
DATE OF TEST 10/20/95	HOURS TESTED 24 hrs	CHOKE S	IZE	PROD'N PERIOD	FOR TEST	OIL-BBL.		GAS- 82	MCF.	T	WATER-BE 83			L RATIO
FLOW. TUBING PRESS	CASING PRESSURE		ALCULATED 2	4-HOUR	OIL-BBL.	<u> </u>	GAS-1 82	MCF.		WATER-BE	L.	39	GRAVITY-AP	(CORR.)
old to GPM Gas Si		ented, etc.)			·		.		Hokett			<u> </u>		
55. LIST OF ATTACH Open hole logs, devi	ENTS ation survey report a	nd bond lo	£								3AN	Ja		•
	Ify that the foregoi				E. L	BUTTROS	S, JR.			TENICAL		- .		

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

ATTACHMENT III

WELL NAME: West Red Lake #63

FIELD: Red Lake

LOCATION: 1500' FNL & 850' FEL of Sec. 8-18S-27E

COUNTY: Eddy

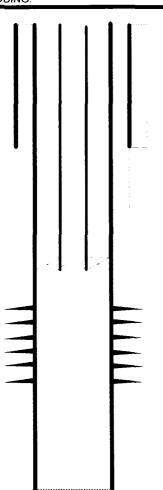
STATE: NM

ELEVATION: GR 3474'

SPUD DATE: 4/4/96
PREPARED BY: D. Keys

COMP DATE: 4/25/96
DATE: 12/10/96

API#: 30-015-28733	PREPARED	BY: D. Keys		DATE: 12/1 <u>0</u> /96							
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE					
CASING:	0' - 992'	8-5/8"	24#	J-55		12-1/2"					
CASING:	0' - 2250'	5 1/2"	15.5#	J-55		7-7/8"					
CASING:				•							
TUBING:	0' - +/- 1575'	2-3/8"									
TUBING:				•							



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 992' w/550 sxs cmt. TOC @ surface

2-3/8" fiberlass or IC tbg set @ +/- 1575' w/PC AD-1 tension pkr.

PERFORATIONS: 1656-2065' (26 holes) 1656-1712' ALPHA, 1826-1837' "A",

1881-1948' "B", 1982-2013' "C", 2048-2065' "D"

PBTD @ 2206'.

5 1/2" CASING SET @ 2250' W/400 SXS CMT . TOC SURF.

TD @ 2250'

ATTACHMENT III (tabular)

Well Data

- A. (1) West Red Lake #63 1500' FNL & 850' FEL "F" Section 8-18S-27E Eddy County, NM
 - (2) Please refer to the wellbore schematic labeled Attachment III (schematic)

Surface: 8-5/8" 24# J-55 set @ 992' in 12-1/4" hole w/550 sxs cmt, TOC surf.

Production: 5-1/2" 15.5# J-55 Set @ 2250' in 7-7/8" hole with 400 sxs cmt, TOC surf.

(Also see schematic for any existing tbg and/or liner used)

- (3) Tbg will be 2-3/8" fiberglass or internally coated, set @ 1575'+/-.
- (4) We will use a 5-1/2" x 2-3/8" plastic coated AD-1 tension packer to be set @ 1575' +/-.
- B. (1) The injection formations will be the San Andres in the Red Lake (Q-GB-SA) Field.
 - (2) The proposed interval will be approximately 1656-2065'. The injection interval will be through existing perforations 1656-2065'.
 - (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
 - (4) Please refer to the wellbore schematic labeled Attachment III (schematic) for depths of other perforated intervals and detail on the sacks of cement.
 - (5) There are no known lower oil formations.

Attachment VII

Devon Energy Corporation West Red Lake #63 1500' FNL & 850' FEL "F" Section 8-18S-27E Eddy County, NM

Proposed Operation:

- 1. Plans are to inject 800 barrels of produced water per day.
- 2. The Injection system will be a closed system.
- 3. The proposed injection pressure is 800 psig. Maximum pressure will be .77 psi/ft of depth to the top perforation (see attached memo).
- 4. The injection fluid will be Grayburg/San Andres produced water.
- 5. See attached water analysis.

Attachment VIII

Devon Energy Corporation West Red Lake #63 1500' FNL & 850' FEL "F" Section 8-18S-27E Eddy County, NM

Geology and Lithology

Injection zones are dolomite porosity zones within the San Andres formations at an average depth of 1656-2065'. Specifically they are:

San Andres

Fresh Water Zones

Base of near surface aquifer 500'. No fresh water zones exist below the proposed injection interval.

Attachment XII

Devon Energy Corporation West Red Lake #63 1500' FNL & 850' FEL "F" Section 8-18S-27E Eddy County, NM

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studied of formations in West Red Lake Unit.

Proof of Notice

Devon Energy Operating Corporation operates the West Red Lake Unit in Section 8 of 18S-27E, Eddy County, NM. Operators operating in area of review:

Breck

Yates

Amoco

Arco

Compton

Simon

Each of these operators were provided a letter and a copy of our application by certified mail. Copies of the letters are enclosed, proof of notice will follow.

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Proof of Publication

Proof of Publication from the Carlsbad Current-Argus is enclosed.

SUBMIT IN DUPLIC 3.4 Form 3160-1

UNITER STATES s
DEPARTMENT of THE INTERIOR (Gctober 1990)

FORM APPROVED

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		_		OFLAND			~=NED_		structions on	5. LEASI NM-77		TION AN	D SERIAL NO	1.
, , , , , , , , , , , , , , , , , , ,	WE	LL COMPLETIO	ON OR F	RECOMPLE	TION RE	PORT AN	D COOPER	HOI	9001	6. If D	DIAN, AL	LOTTEE	OR TRIBE NA	HE
la TYPE OF WELL		WEL1	\boxtimes	OA5 WELL		DRY	Other			7.UNIT	AGREEMEN			
h type of com	PLET	ION:	. \Box	91 tto	- ;	Aug 17	12 36 81	'Sb			or LEASE		10089700	
NEW WELL 2 NAME OF OPE		ER L EN	<u></u>	PLUG BACK	<u> </u>	ESVR	Other	fa-			ed Lake			
		DEVON EN	ERGY	OPERATI	NG COR	PORATI	ON	, 5		1	ELL NO.			
3. ADDRESS ANI) TEI		DWAV	CITTE 14	500 OKC	OK 73	102-8260 (405	5) 552	4530	30-015	D AND PO	OL, OR 1	WILDCAT	•
4. LOCATION OF	WEL							3) 332-	1330	Red La	ke (Q, Gl	3, SA)		•
At surface 1	500'	FNL & 850' FEL								11.SEC.	,T.,R.,M	.,OR BL	OCK AND SUR	VEY OR AREA
At top prod. inter	val re	ported below (S.	AME)							Sec. 8-1	18S-27E			
At total depth (S														
				14.F	ERMIT NO.		DATE ISSUED				Y OR PAR	ISH	13.STATE	
				<u>_</u>			11/29/95			Eddy	<u>,</u>		NM	
15.DATE SPUDDED 4/4/96	16.E	ATE T.D.REACHED	4/25	NATE COMPL. (5/96	Ready to prod	v	18. ELEVATIONS GR 3474'	S (DF, I	RKB, RĪ, GR,	ETC.)*	19.E	LEV. CA	SINGHEAD	
20.TOTAL DEPTH, ME	LIV	D 21.PLUG, BA	CK T.D.,	MD & TVD	22.IF MU	LTIPLE COL	PL., HOW MANY*		23. I	NTERVALS	ROTARY	TOOLS	CABLE TOO	LS
2250'		2206'			N/A				DI	EILLED BY	x			
24. PRODUCING INTER 1656 - 2065' - San			ETION-TO	OP, BOTTOM,	NAME (MD	AND TVD) *			·			25. WA	S DIRECTION	NAL SURVEY
1030 - 2005 - 5411	-Liui											по		
26.TYPE ELECTRIC A	ND OT	HER LOGS RUN									27. WAS	WELL C	CORED	
28.							ort all strings s				L	· · · · · · · · · · · · · · · · · · ·		
CASING SIZE/GRAD	E	WEIGHT, LB.	/FI.	↓	ET (MD)		HOLE SIZE	ا	P OF CEMENT,				AMOUNT PO	льт
8 5/8" J-55 5 1/2" J-55		24 15.5		992'		7 7/8"			f/300 sx Poz f/150 sx Poz			<u> </u>		<u> </u>
						1		1 34.			<u> </u>	-		
29.		TOP (MD)		INER RECO		CEMENT*	SCREEN (M		30.		UBING			SET (MD)
3122							DUNCALLY (M		2 7/8"	2100			FALRER	321 (RD)
										+				
31. PERFORATION RE 1656 - 2065' (.40" EHD)			iber)				32.	AC	CID SHOT, I	FRACTUR	E. CEME	MNT S	OUEEZE.	ETC.
2005 (20						DEPTH INTER						ATERIAL USE	
							1656-2065'			uls 15% NEFE				
							1656 -2065'			als Prepad + 53,0 100 16/30 RC sd	00 gals 30s X-	Link + 7000	W 100 mesh ed + 2	74,000 29/40 Brudy
									_					
33.*	TON						JCTION	_						
A/28/96		PRODUCTIONS									,	sh.	ELL STATUS (int-in) roducing	
5/2/96	24	RS TESTED	N/A		PERIOD	FOR TEST	OIL-BBL.		GAS MCF. 189		WATER—BBI 145	. .	2907/1	L RATIO
FLOW: TUBING PRESS		CASING PRESSURE N/A		CALCULATED 2	-HOUR	oil-BBL.	18	S-MCF. 89		WATER BB	L. –	39°	GRAVITY-AP	I (CORR.)
34. DISPOSITION OF sold	GAS	Sold, used for fuel, ven	ued, etc.)		_			1	est withess Danny Hoke		PTED S	יח קעונ	traph]
5. LIST OF ATTACH										17/	111	B	710	10
ogs and deviation s	-	-	g and at	tached infor	mation is	complete =	and correct as	determin	ned from all	available	uce	1.61	Coll	
							BUTTROSS, JR						1	
SIGNED _ C	<u></u>	L. BJ	Mos	Lp,	Т		TRICT ENGINE		D	ATE August	8, 19 9	M		1

NNI-7713
30.015-28733,
ake Unit #63,
Vest Red I,

37. SUMMARY O including depth int	OF POROUS Z terval tested, ci	ONES: (Show alushion used, time	37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	38.	GEOLOGIC MARKERS	IRKERS
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.			TOP
Premier Sand San Andres	1259'	1305'	Sandstone Dolomite	NAME	MEAS, DEPTH	TRUE VERT. DEPTH
				Bowers	493	+2992
				Queen	685	+2800
				Grayburg	1034	+2451
				Premier	1259'	+2226
				San Andres	1305'	+2180
	_					
	-					
						กับด
						EC 12
		DEPTH	ACID, SHOT, FRACTURE, CEMEMNT SQUEEZE, ETC (continued from the front)	I		EWI 123
						ED
		<u>,</u>	V/V			ii 196
				· .		
				1.1		
	_					

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC ATTACHMENT III WELL NAME: West Red Lake #71 FIELD: Red Lake LOCATION: 710' FNL & 1650' FEL of Sec. 8-18S-27E COUNTY: Eddy STATE: NM ELEVATION: KB 3432' SPUD DATE: 5/3/96 COMP DATE: 7/18/96 API#: 30-015-28940 PREPARED BY: D. Keys DATE: 12/10/96 DEPTH SIZE WEIGHT **GRADE** THREAD HOLE SIZE CASING: 0' - 975' 8-5/8" 24# J-55 12-1/2" CASING: 0' - 2199' 5 1/2" 15.5# J-55 7-7/8" CASING: TUBING: 0' - 2040' 2-7/8" TUBING: CURRENT **PROPOSED OPERATOR: DEVON ENERGY CORPORATION** 8-5/8" Casing, Set @ 975' w/600 sxs cmt. TOC @ surface **PERFORATIONS:** 1194-99' PREMIER, 1268-1378' UPR SA, 1516-74' ALPHA, 1742-54' "A", 1790-1857' "B", 1902-1928' "C", 1950-1996' "D" 2-7/8" tbg @ 2040' PBTD @ 2154'. 5 1/2" CASING SET @ 2199' W/475 SXS CMT . TOC surf. TD @ 2200'

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

ATTACHMENT III

WELL NAME: West Red Lake #71

FIELD: Red Lake

LOCATION: 710' FNL & 1650' FEL of Sec. 8-18S-27E

COUNTY: Eddy

STATE: NM

ELEVATION: KB 3432'

SPUD DATE: 5/3/96

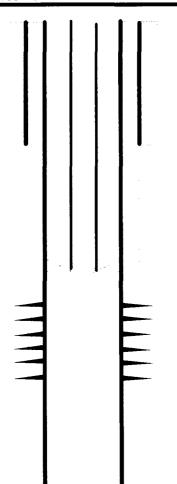
COMP DATE: 7/18/96

API#: 30-015-28940

PREPARED BY: D. Keys

DATE: 12/10/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0' - 975'	8-5/8"	24#	J-55	TTINEAD	12-1/2"	
CASING:	0' - 2199'	5 1/2"		J-55		7-7/8"	
	0 - 2199	5 1/2	. 15.5#	J- 55		7-776	
CASING:							
TUBING:	0' - +/- 1200'	2-3/8"					
TUBING:							



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 975' w/600 sxs cmt. TOC @ surface

PERFORATIONS:

1194-96' (2) WILL SQUEEZE

2-3/8" fiberglass or IC tbg @ +/- 1200' set w/AD-1 tension packer

WATER INJECTION THROUGH PERFORATIONS:

1268-1378' (5); 1516-74' (4); 1742-54' (6);

1790-1857'(6); 1902-1928' (5) and 1950-1996' (7)

2-7/8" tbg @ 2040'

PBTD @ 2154'.

5 1/2" CASING SET @ 2199' W/475 SXS CMT . TOC surf.

TD @ 2200'

ATTACHMENT III (tabular)

Well Data

- A. (1) West Red Lake #71
 710' FNL & 1650' FEL "B"
 Section 8-18S-27E
 Eddy County, NM
 - (2) Please refer to the wellbore schematic labeled Attachment III (schematic)

Surface: 8-5/8" 24# J-55 @ 975' in 12-/14" hole, w/600 sxs cmt, TOC surf.

Production: 5-1/2" 15.5# J-55 @ 2199' in 7-7/8" hole w/475 sxs cmt, TOC surf.

(Also see schematic for any existing tbg and/or liner used)

- (3) Tbg will be 2-3/8" fiberglass or internally coated, set @ 1200'+/-.
- (4) We will use a 5-1/2" x 2-3/8" plastic coated AD-1 tension packer to be set @ 1200' +/-.
- B. (1) The injection formations will be the San Andres in the Red Lake (Q-GB-SA) Field.
 - (2) The proposed interval will be approximately 1268-1996`. The injection interval will be through existing perforations 1268-1996`
 - (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
 - (4) Please refer to the wellbore schematic labeled Attachment III (schematic) for depths of other perforated intervals and detail on the sacks of cement.
 - (5) There are no known lower oil formations.

Attachment VII

Devon Energy Corporation West Red Lake #71 710' FNL & 1650' FEL "B" Section 8-18S-27E Eddy County, NM

Proposed Operation:

- 1. Plans are to inject 800 barrels of produced water per day.
- 2. The Injection system will be a closed system.
- 3. The proposed injection pressure is 800 psig. Maximum pressure will be .77 psi/ft of depth to the top perforation (see attached memo).
- 4. The injection fluid will be Grayburg/San Andres produced water.
- 5. See attached water analysis.

Attachment VIII

Devon Energy Corporation West Red Lake #71 710' FNL & 1650' FEL "B" Section 8-18S-27E Eddy County, NM

Geology and Lithology

Injection zones are sand lenses within the San Andres formations at an average depth of 1268-1996'. Specifically they are:

San Andres

Fresh Water Zones

Base of near surface aquifer 500'. No fresh water zones exist below the proposed injection interval.

Attachment XII

Devon Energy Corporation West Red Lake #71 710' FNL & 1650' FEL "B" Section 8-18S-27E Eddy County, NM

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studied of formations in West Red Lake Unit.

Proof of Notice

Devon Energy Operating Corporation operates the West Red Lake Unit in Section 8 of 18S-27E, Eddy County, NM. Operators operating in area of review:

Breck

Yates

Amoco

Arco

Compton

Simon

Each of these operators were provided a letter and a copy of our application by certified mail. Copies of the letters are enclosed, proof of notice will follow.

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Proof of Publication

Proof of Publication from the Carlsbad Current-Argus is enclosed.

Form 3160-4 (October 1990)

UNITED STATES

sORERATOR'S GOPY

FORM APPROVED

(October 1990)	ı	DEPART	ГМЕ	N7)F	THE	INTE	RIOR		(See						
		BU	REAU	OFLAND	MANAG	EMENT				ctions on rec side)	5. LEAST NM-77		TION AND	SERIAL NO.	
	WE	LL COMPLETIO	N OR F	ECOMPL	ETION REI	PORT AN	ID LOG*				6. IF I	NDIAN, AL	LOTTEE O	R TRIBE NAME	
la TYPE OF WEL	L:	WELL	\boxtimes	GAS WELL		PAT	Othe	_	5			AGREEMEN		****	
b TYPE OF COM	wo	RK DEEP	. —	PLUG BACK	_	ırr 🗀	0.1	SEP	[1]	ວ:ື ເ	·	OR LEASE			_
WEYL NAME OF OPE	RAT	EREN	<u> </u>	BACK	<u> </u>	EEVR	Othe				1	led Lake		ELL NO.	
		DEVON EN	ERGY	CORPOR	ATION (N	IEVADA)	15.			9.API V	TELL NO.			
3. ADDRESS AN	DTE	LEPHONE NO. 20 N. BROA	DWAY	, SUITE 1	.500, OKC	, OK 73	102-8260	(405)	235-3 611		10.FIE	LD AND POO		TLDCAT	_
4. LOCATION OF At surface 7		L (Report location		and in acco	rdance with a	any State r	equirements)	*			Red Lake (Q-GB-SA) 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREJ				
At surface /	10 F	NL & 1030 FEL										T18S-R27		CK AND BURVET OR A	_
		ported below (SA	AME)												
At total depth (SAM	E)		<u> </u>	DETENDED NO.						T 40		T		
				14.	PERMIT NO.		4/16/96	20			Eddy C	TY OR PAR Dunty,	ISH	13. STATE New Mexico	
15.DATE SPUDDED	_	DATE T.D.REACHED			(Ready to prod.	,	18. ELEVAT				ETC.)*	19.E	LEV. CAS	INGEAD	_
5/3/96	6/3/		7/18		T 00 to 10		KB 3432';	_	122'; DF 3						
20.TOTAL DEPTH, ME 2200') £ I	21.PLUG, BAC 2154	ж т.D.,	MD E TVD	NA.	LTIPLE CO	CPL., HOW MA	WY.			TERVALS	ROTARY	i	CABLE TOOLS	
4. PRODUCING INTER			ETION-TO	P, BOTTOM,	NAME (MD)	AND TVD) *	 -		-		<u> </u>	١		DIRECTIONAL SURVE	Y
Grayburg/San And	lres 1	194-1996'											No.		
6. TYPE ELECTRIC A	NED OI	HER LOGS RUN					·					27. WAS	WELL CO	ORETO	
DL/MSFL/GR; LD	/CN/	GR; CBL										No			
28.					ASING REC			gs set							_
CASING SIZE/GRAI)E	WEIGHT, LB.,	/FI.	975'	SET (MD)		HOLE SIZE				CEMENT ING		N'	AMOUNT PULLED	
8-5/8" J-55 5-1/2" J-55		15.5#		2199'		12-1/4 7-7/8"		_			" & 300 sı		None	·· <u>·</u>	
							-			Surf; 325 sxs "C" & 150 sxs 35/65 None					_
·															_
9. size		TOP (MD)		INER REC		CEMENT*	SCREE	N (MD)	30.	SIZE		CUBING		PACKER SET (MD)	
					 		-		2-7/8	27	2040)'			_
															_
1. PERFORATION RE 194-96' PREMIE	R (2	40" EHD)	ber)				32.			HOT, F				QUEEZE, ETC.	
268-1378' UPR SA 516-74' ALPHA	•	•					DEPTH I		L (MD)		AMOUN	T AND KI	OF MA	TERIAL USED	_
742-54' "A" (6 -	.40" I	EHD)					1742-19	996'		2500	gals of	CONT C			_
.790-1857' "B", (6 .902-1928' "C" (5		•					_					COM			_
950-1996' "D" (7	7 4 0	" EHD)				_	<u> </u>						-		
3.* ATE FIRST PRODUCT	TON	PRODUCTIONS	METHOD T	(Flavina vas l	if numning e		UCTION						Land	LL STATUS (Producing o	_
/19/96		Pumping: 2-	1/2" x 1-	1/2" x 12' I	RWTC pum	P							shu pro	r-in) od	•
ATE OF TEST 7/24/96	24		CHOICE I		PERIOD F	→	0IL-BBL. 134		201	MCF.		WATER-BBI 43	·.	GAS-OIL RATIO 1500/1	
LOW. TUBING PRESS	.	CASING PRESSURE		ALCULATED :	24-HOUR	OIL-BBL.		201	MCF.		WATER-BE	L.	38	RAVITY-API (CORR.)	
4. DISPOSITION OF old	CAS	(Sold, used for fuel, ven	iled, etc.)	-						TINESSE y Hokeft		المالية الأنافرية			
5. LIST OF ATTACH logs, Deviation Sur								_		Pal	ut		las	2	_
6. I hereby cert.	ify a	And the foregoing	and at	Jacked info		DIA	and correct ANA KEYS GINEERING			<u> </u>	TE <u>Septem</u>		96		

*See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RKERS	TOP	TRUE VERT. DEPTH +2844 +2465 +2240 +2204								SEP TO PERMIT SO						
GEOLOGIC MARKERS		MEAS. DEPTH	.888,	621,	1192'	1228'										
œi E		NAME	Queen	Grayburg	Premier	San Andres										
37. SUMMARY OF FOROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	DESCRIPTION, CONTENTS, ETC.	Sandstone Dolomite							ACID, SHOT, FRACTURE, CEMEMNT SQUEEZE, ETC (continued from the front)	15,000 gals PrePad + 2 drum Pro-Kem scale inhibitor + 53,000 gals 30# X-link gel water +	7000# 100 mesh sand + 284,000# 20/40 brady sand and 16/30 sand	1500 gals of 15% NeFe acid	1,000 gals gel PrePad + 2 drum Pro-Kem scale inhibitor + 12,000 gals 30# X-link gelled 2%	KCL water + 40,000# 20/40 Brady sand & 8,000# 16/30 CRC sand		
ONES: (Show a ushion used, tim	BOTTOM	1228°							DEPTH	1742-1996'		1194-1574	1194-1574			
OF POROUS Z iterval tested, c	TOP	1192'	. 44 .						-							
57. SUMMARY (including depth in	FORMATION	Premier Sand San Andres														

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC ATTACHMENT III WELL NAME: West Red Lake #74 FIELD: Red Lake LOCATION: 1930' FNL & 2600' FEL "G" of Sec. 8-18S-27E COUNTY: Eddy STATE: NM ELEVATION: KB 3428' SPUD DATE:6/16/96 COMP DATE: 7/6/96 API#: 30-015-28943 PREPARED BY: D. Keys DATE: 12/10/96 DEPTH WEIGHT **GRADE** THREAD HOLE SIZE CASING: 0' - 1000' 8-5/8" 24# J-55 12-1/2" CASING: 0' - 2250' 5 1/2" 15.5# J-55 7-7/8" CASING: TUBING: 2-7/8" 0' - 2039' TUBING: CURRENT PROPOSED **OPERATOR: DEVON ENERGY CORPORATION** 8-5/8" Casing, Set @ 1000' w/500 sxs cmt. TOC @ surface PERFORATIONS: 1196-1225' PREMIER, 1517-1597' ALPHA. 1759-1767' "A" 1811' "B", 1922-1928' "C", 1980-1996' "D" Treated w/2000 gals 15% NEFE & Frac'd w/15,000 gals Prepad + 32,000 gals 30# XL & 4000# 100 mesh, 116,000# Brady & 24,000# 16/30 sand. 2-7/8" Tbg @ 2039'. PBTD @ 2205'. 5 1/2" CASING SET @ 2250' W/425 SXS CMT TOC SURF. TD @ 2250'

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

ATTACHMENT III WELL NAME: West Red Lake #74 FIELD: Red Lake LOCATION: 1930' FNL & 2600' FEL "G" of Sec. 8-18S-27E COUNTY: Eddy STATE: NM ELEVATION: KB 3428' SPUD DATE:6/16/96 COMP DATE: 7/6/96 PREPARED BY: D. Keys API#: 30-015-28943 DATE: 12/10/96 DEPTH SIZE WEIGHT **GRADE** THREAD HOLE SIZE J-55 CASING: 0' - 1000' 24# 12-1/2" 8-5/8" 0' - 2250' 5 1/2" 15.5# J-55 7-7/8" CASING: CASING: 2-3/8" TUBING: 0' - +/- 1450' TUBING: CURRENT **PROPOSED OPERATOR: DEVON ENERGY CORPORATION** 8-5/8" Casing, Set @ 1000' w/500 sxs cmt. TOC @ surface (Grayburg Perfs 1196-1225' will be squeezed) 2-3/8" tbg set w/AD tension pkr @ +/- 1450'. **WATER INJECTION THROUGH PERFORATIONS:** 1517-1597' ALPHA, 1759-1767' "A" 1811' "B", 1922-1928' "C", 1980-1996' "D"

> PBTD @ 2205'. 5 1/2" CASING SET @ 2250' W/425 SXS CMT . TOC SURF. TD @ 2250'

ATTACHMENT III (tabular)

Well Data

- A. (1) West Red Lake #74
 1930' FNL & 2600' FEL "G"
 Section 8-18S-27E
 Eddy County, NM
- (2) Please refer to the wellbore schematic labeled Attachment III (schematic)

Surface: 8-5/8" 24# J-55 set @ 1000' in 12-1/4" hole w/500 sxs cmt,

TOC surf.

Production: 5-1/2" 15.5# J-55 set @ 2250' in 7-7/8" hole w/425 sxs

cmt, TOC Surf.

(Also see schematic for any existing tbg and/or liner used)

- (3) Tbg will be 2-3/8" fiberglass or internally coated, set @ 1450'+/-.
- (4) We will use a 5-1/2" x 2-3/8" plastic coated AD-1 tension packer to be set @ 1500' +/-.
- B. (1) The injection formations will be the San Andres in the Red Lake (Q-GB-SA) Field.
 - (2) The proposed interval will be approximately 1517-1996`. The injection interval will be through existing perforations 1517-1996'.
 - (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
 - (4) Please refer to the wellbore schematic labeled Attachment III (schematic) for depths of other perforated intervals and detail on the sacks of cement.
 - (5) There are no known lower oil formations.

Attachment VII

Devon Energy Corporation West Red Lake #74 1930' FNL & 2600' FEL "G" Section 8-18S-27E Eddy County, NM

Proposed Operation:

- 1. Plans are to inject 800 barrels of produced water per day.
- 2. The Injection system will be a closed system.
- 3. The proposed injection pressure is 800 psig. Maximum pressure will be .77 psi/ft of depth to the top perforation (see attached memo).
- 4. The injection fluid will be Grayburg/San Andres produced water.
- 5. See attached water analysis.

Attachment VIII

Devon Energy Corporation West Red Lake #74 1930' FNL & 2600' FEL "G" Section 8-18S-27E Eddy County, NM

Geology and Lithology

Injection zones are dolomite porosity zones within the San Andres formations at an average depth of 1517-1996'. Specifically they are:

San Andres

Fresh Water Zones

Base of near surface aquifer 500'. No fresh water zones exist below the proposed injection interval.

Attachment XII

Devon Energy Corporation West Red Lake #74 1930' FNL & 2600' FEL "G" Section 8-18S-27E Eddy County, NM

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studied of formations in West Red Lake Unit.

Proof of Notice

Devon Energy Operating Corporation operates the West Red Lake Unit in Section 8 of 18S-27E, Eddy County, NM. Operators operating in area of review:

Breck

Yates

Amoco

Arco

Compton

Simon

Each of these operators were provided a letter and a copy of our application by certified mail. Copies of the letters are enclosed, proof of notice will follow.

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Proof of Publication

Proof of Publication from the Carlsbad Current-Argus is enclosed.

FORM APPROVED

(Occober 1990)

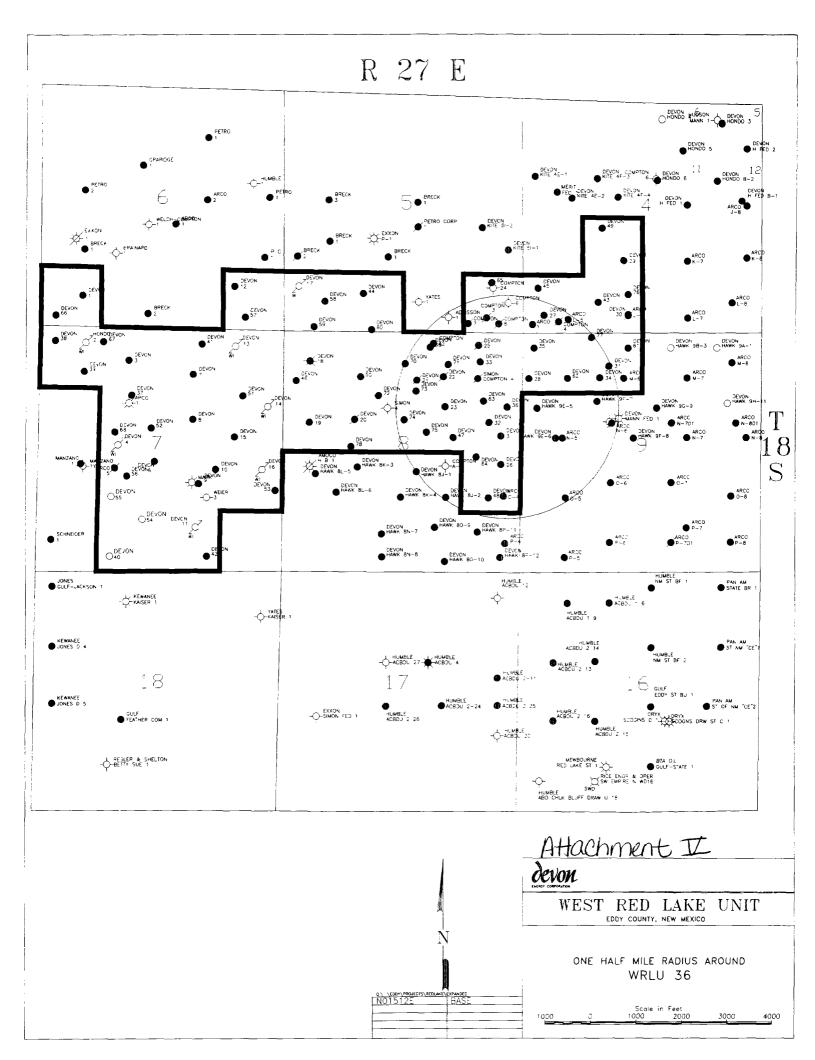
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(See other in-

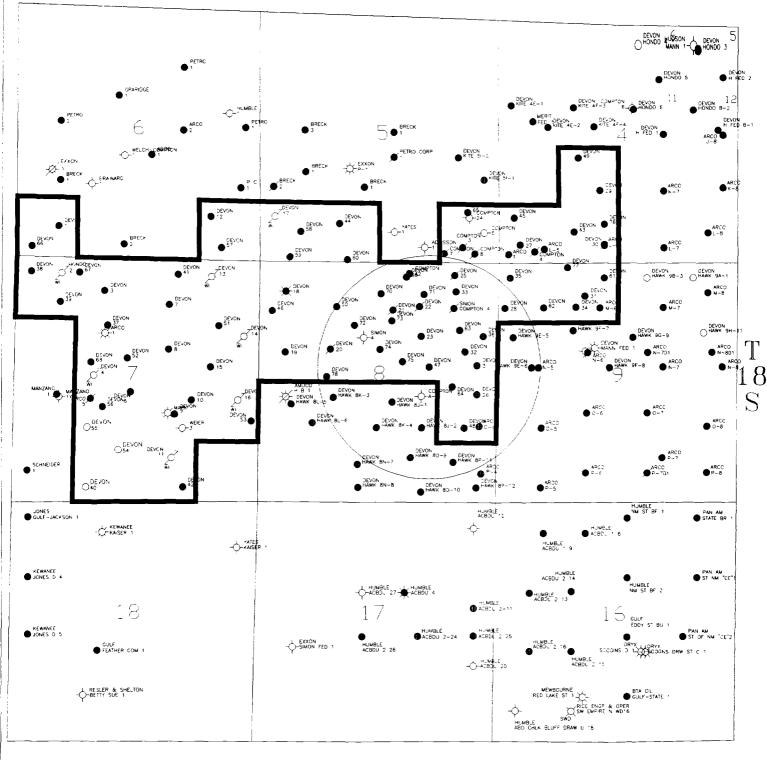
	BUREAU OF LAND MANAGEMENT STRUCTIONS ON reverse side)								5.LEASE DESIGNATION AND SERIAL NO. NM-7712									
WELL	COI	MPLETION				N REI					6.IF II	NDIAN, AL	LOTTEE	OR TRIBE NAME				
Ia TYPE OF WEL	LL:	OIL		GAS WELL		PRY	Other				7.UNIT	AGREEMEN						
b. TYPE OF COM			·. 🗀	₱1.U G		UFF [Other					Red Lake		_				
NEW WORK DEEP PLUG DIFF C NAME OF OPERATOR											8. FARM OR LEASE NAME, WELL NO. West Red Lake #74							
		DEVON EN	ERGY	CORPOR	ATION (N	EVADA))				9.API	WELL NO.						
3. ADDRESS AND TELEPHONE NO. 20 N. BROADWAY, SUITE 1500, OKC, OK 73102-8260 (405) 235-3611													30-015-28943					
4 LOCATION OF	WEI											ld and po ake (Q-G)		WILDCAT				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1930' FNL & 2600' FEL Unit Letter "G"												11.SEC., T., R., M., OR BLOCK AND SURVEY OR AREA						
At tan mod into		anantad halaur	(CAME)								Section	1 8-18S-2	7E, Uni	t "G"				
		eported below	(SAME)															
At total depth	(SAM	E)			PERMIT NO.		I name toomen				12 0000	TV OD DAD	700	1.12 (m) mm				
				14.	PERMIT NO.		DATE ISSUED 4/15/96 18. ELEVATIONS (DF, RKB, RT, GR,				Eddy County,			13.STATE New Mexico				
15.DATE SPUDDED	16.1	DATE T.D.REACHED	17.1	DATE COMPL.	(Ready to prod.	,					TC.)*	19.E	LEV. C	LEV. CASINGHEAD				
6/16/96	6/20)/96	7/6/				KB 3428'; DF 3427'; GL 3419'			119 '								
20. TOTAL DEPTH, M	DET		CK T.D.,	MD & TVD		LTIPLE CO	MPL., HOW MANY	•	-	23. INT		ROTARY		CABLE TOOLS	-			
2250'		2205'			NA					DRIL	TED BA	x						
24.PRODUCING INTE Grayburg/San An			LETION-TO	OP, BOTTOM,	NAME (MD	AND TVD) *			-				25. W	AS DIRECTIONAL	LSURVEY			
Olaybulg/Sall All	uits	1170-1770											No					
26. TYPE ELECTRIC	AND OT	HER LOGS RUN		·								27. NAS	S WELL (ORED				
DL/MSFL/GR; L	D/CN/	GR; CBL										No						
28.				CA	SING REC	ORD (Re	port all strings	s set i	in well)			L						
CASING SIZE/GRA	DE	WEIGHT, LB.	/FT.		SET (MD)		HOLE SIZE		TOP OF C	EMENT, C	EMENTING	RECORD		AMOUNT PULI	IRD			
8-5/8" J-55		24#		1000'			12-1/4"			Surf; 300 sxs "C" & 20								
5-1/2" J-55		15.5#		2250'		7-7/8"	, 			0 sxs lite	ite & 275 sxs "C"		None	<u> </u>				
						 							╂					
29.				INER REC	OPD				30.			TUBING	RECO	RD -				
SIZE		TOP (MD)		TOM (MD)		CEMENT*	SCREEN	(MD)		SIZE		EPTH SET		PACKER S	ET (MD)			
	-				 	- -			2-7/8	,	203	9,			_			
1196-1225' PRI				s)			32.		ACID SI	HOT, FR	ACTUR	RE, CEM	EMNT	SQUEEZE, E	TC.			
1517-1597' ALP				3)			DEPTH INT	ervai	L (MD)	_	AMOU	NT AND KI	ND OF M	ATERIAL USED				
1759-1767' "A"		1196-1996	5'			gals of 15% NeFe acid												
1811' "B", (1 .4 1922-1928' "C",	,	1196-1996	5'			0 gals PrePad + 2 drum Pro-Kem scale inhibitor												
1980-1996' "D") gals 30# X-link gel water + 4000# 100 mes 16,000# 20/40 brady sd and 24,000# 16/30 s											
33.*	<u>`</u>					PROD	UCTION		1	30 . 11			y su an	u 24,000# 10/.	70 Su			
ATE FIRST PRODUC	TION	PRODUCTIONS							-					ELL STATUS (Pr	oducing or			
7/8/96		Pumping: 2	1/2" x 2	2" x 12' RW	TC pump									rod				
OATE OF TEST		TESTED	CHOKE	SIZE	PROD'N FO		OIL-BBL.			MCF.		NATER-BB 255	L.	GAS-OIL 2000/1	RATIO			
		ALCING PRECOTER	<u> </u>	(1) 1 (TTT) (TDD)	24 8077			C) C 1	64		WATER BE		1 077		(GÓRR)			
PLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED RATE	*4-BOOK	OIL-BBL.		GAS-3			WATER-BBL. 255		OIL GRAVITY-API (CORR.)		(CORR.)			
34. DISPOSITION O	P GAS	(Sold, used for fuel. ve	nted, etc.)		→]				TEST N	ITNESSED	BY							
Sold			, -y							Hokett								
5. LIST OF ATTAC															-			
Logs, Deviation Si	ırveys																	
6. I hereby cer	tify t	hat the foregoing	g and at	tached info	rmation is	complete	and correct as	det	ermined fr	om all a	vailable	records						
010175							ANA KEYS	TO:	BUGLAN	D. 4.0	rro.	.1 24 1	007					
SIGNED					Т	TILE ENG	GINEERING T	ECH	INICIAN	DA'	i ESenten	nber 24. 1	996					

GEOLOGIC MARKERS	TOP	TRUE VERT. DEPTH	+3020 +2835 +2466 +2234 +2200	
		MEAS. DEPTH	408' 593' 962' 1194'	
38.		NAME	Bowers Queen Grayburg Premier San Andres	
7. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill stem, tests, neluding depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	DESCRIPTION, CONTENTS, ETC.	Sandstone Dolomite	ACID, SHOT, FRACTURE, CEMEMNT SQUEEZE, ETC (continued from the front)	
ONES: (Show aushion used, tin	воттом	1228'	DEPTH	_
OF POROUS 2 iterval tested, c	TOP	1194°		_
7. SUMMARY (ncluding depth in	FORMATION	'remier Sand an Andres		

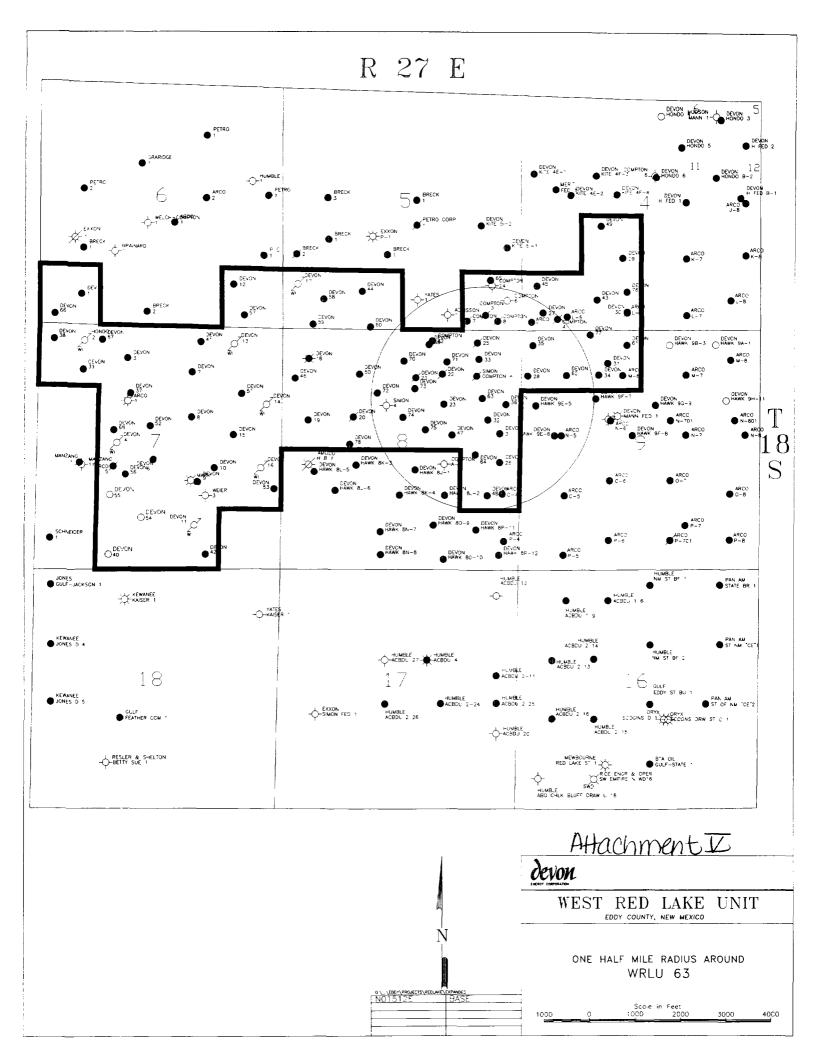
est Red Lake #74, 30-015-28943, NM-7712

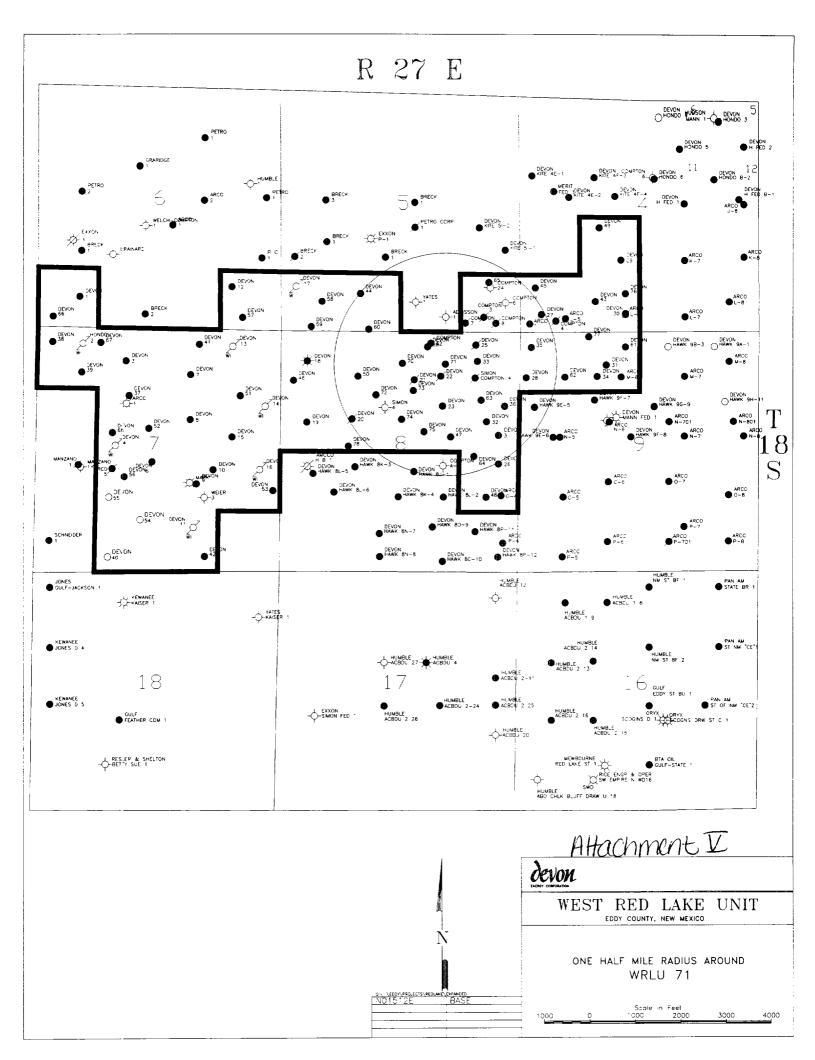


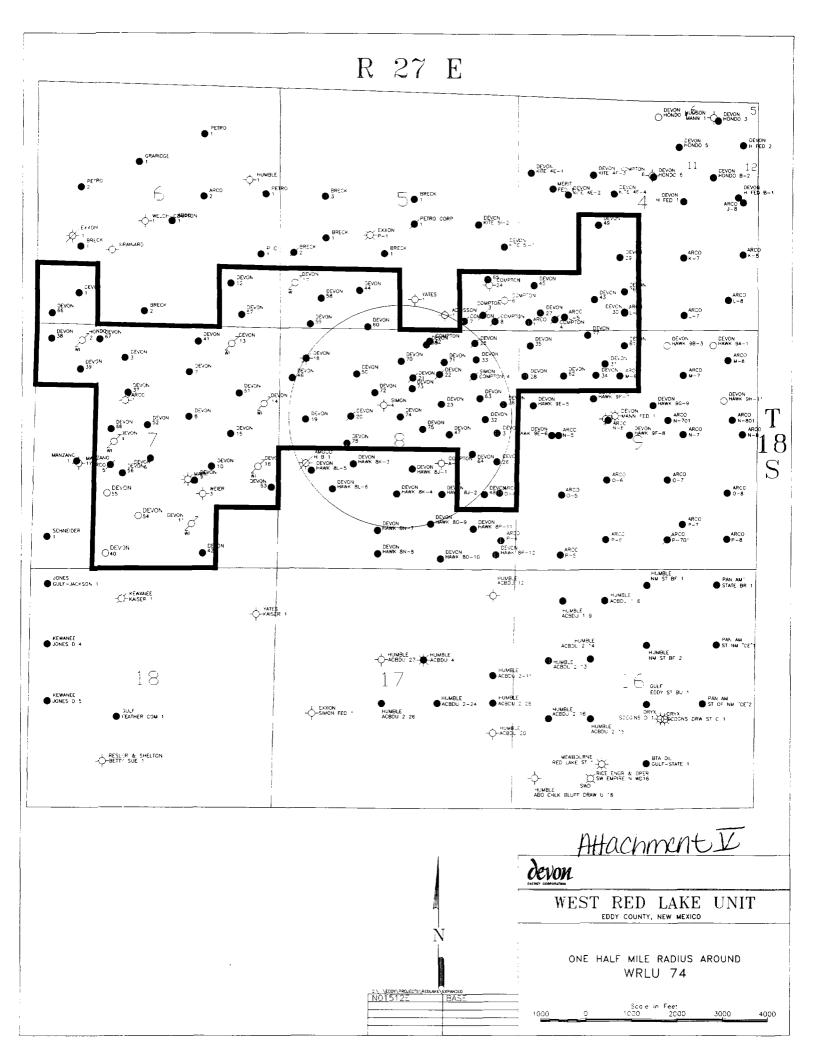
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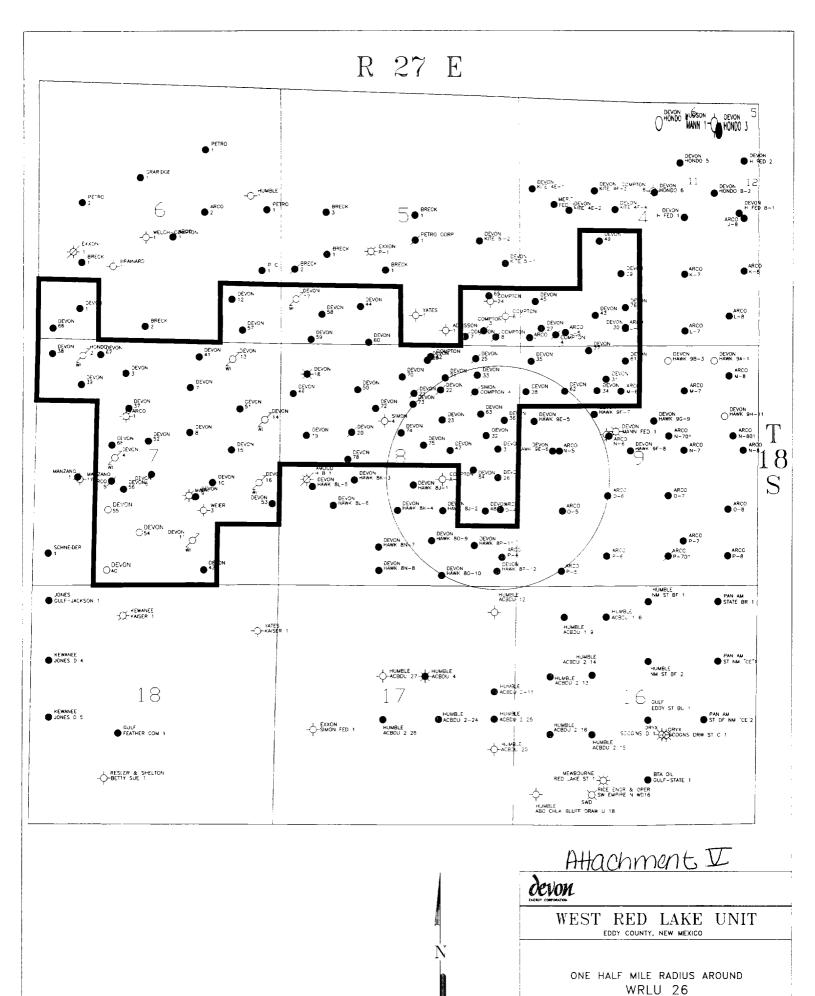












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NEW MEXICO SCHOOL OF MINES

STATE BUREAU OF MINES AND MINERAL RESOURCES SOCORRO, NEW MEXICO

NEW MEXICO WELL LOG DIVISION

INITIAL DAILY PRODUCTION:

ELEVATION

Open

Tbg.

3498

CASING RECORD

Bottom

2351

586

1097

1324

Diam., in.

123"

6-5/8

20-015-00784 COUNTY Eddy FIELD

COMPANY R. D. Compton

Brainerd No. 6 Well

LOCATION (%) E SE SE

185. R. . **T.** 660 feet from South line and

feet from eggt line of Section

1-23-34 COMMENCED 7-11-34 COMPLETED

ABANDONED

SEC.

FEET

bbls. Oil

cu. ft. Gas

cu. ft. Gas

D & A REMARKS:

FORMATION	BOTTOM, FEET	FORMATION	BOTTOM, FEE
Red bed	10	Blue shale	350
Hard white gyp	15	Grey gyp	<i>3</i> 60
Red bed	25	Red bed	36 5
White gyp	30	Grey gyp	375
Red bed	35	Hard grey gyp	380
White gyp	40	Hard grey gyp White gyp, 50. 85-90'	385
Red bed	45	Grey gyp and grey sandy	shale
White gyp	50		390
Red bed	5 5	White and grey gyp, soft	39 5
White gyp	6 5	White gyp	405
Red bed	70	Grey gyp	410
White gyp	95	Brown lime, gas 15-20'	415
Light most am	100	Grey lime	418
Light grey gyp	105	Grey gyp	430
Red bed	110	Blue shale	434
Hard white gyp	115	White gyp, soft	440
Grey lime		Red bed	443
rey gyp	125	Grey gyp	458
lard grey lime	130		465
hite gyp	140	Brown sandy lime Brown lime	470
Red bed	145		475
White gyp	157	Grey gyp	480
Typ and lime	160	Red bed and white gyp	
hite gyp, hard	170	Red bed, grey and white g	yp 400 498
white gyp and red bed	175	Grey gyo	500
White gyp, wtr. 160-80	190	Grey sandy lime	502
yp and red bed	195	Blue shale, 5.0.	508
White and grey gyp	200	Grey and white gyp	526
Red bed	203	Red bed, wtr.	539
Frey gyp and wtr.	210	Grey and white gyp	009
rey gyp	22 0	Grey and white gyp	543
yp and sand, sul. wtr.	225	and red bed	558
Typ mud	230	Red bed	
rey gyp	2 52	Red bed and blue shale	562 565
White and grey gyp	259	Gyp and blue shale	56 5 570
rey gyp	270	Gyp, red bed and shale	
White gyp, soft	275	Grey gyp	578 500
Brown gyp	280	Grey gyp and blue shale	580
Grey gyp	295	Grey gyp	582
Gyp and shale	. 30 5	Red bed	58 4
White and grey gyp	327	Grey and white gyp	586
Dark gyp	552	White gyp	, 58 8
Grey gyp	540	Red bed and blue shale	590
White own	345	White gyp	610

NEW MEXICO SCHOOL OF MINES

STATE BUREAU OF MINES AND MINERAL RESOURCES SOCORRO, NEW MEXICO

NEW MEXICO WELL LOG DIVISION

CASING RECORD ELEVATION Diam., in. INITIAL DAILY PRODUCTION:

(Page 2) COUNTY Eddy

COMPANY R. D. Compton LEASE Brainerd

LOCATION (%)

T. 185

feet from

COMPLETED ABANDONED 🐫

FORMATION	[15] (4) 数数 30	BOTTOM, FEET	FORMATION	BOTTOM, FEE:
Red bed	世 特 一	612	Gyp	968
Grey gyp			White sand and red sa	
Red bed		630	Pink sandy gyp	980
Grey and pi	nk gyn	635	Red sand	987
Red bed		640		995
Brown sand.	white gyp a	10	Red sand	1060
blue shale		647	Grey lime	1075
Red rock			Brown shale	1085
Brown sand	and grey gyp	665	Pink shale	1095
White and d	ark grey lim	672	Brown lime	1097
Grev gyn an	d red bed	680	Grey lime	1123
Brown gyp		688	Brown lime	1125
Blue sandy	g Vn	690	Pink and grey lime	1136
Blue sand	1 BWPH 690-91	69 5		1158
Red hed	and the same of the same of	700	Pink and grey lime	1169
Red sand	从一种,数据	708	Grey lime	1181
Blue sendy	shale and red			1187
Red sand		718	White sand and grey 1	
	no. wtr. 720-2	_		1199
Pink are en	A mad and		Grey sandy lime	1205
Gray white	d red sand , brown and	100	Brown sandy lime	1210
pink gyp	July of Control of Control	786	Brown lime	1222
Book brown	And the second of the State of		Grey lime	1234
Gray grows	gyp and blue	767	Sandy lime	1251
Red bed end	blue shale	770	Grey sandy lime, skip	
		775	to 1333	1255
Grey and br	OMIT PAD	780	White lime	1333
Brown gyp	nb awn	787	Grey lime	1351
Grey and pi	M BJP	79	Grey and pink lime	
Grey line		795	White lime	1378
Brown and g	Led Edb	800	Light brown lime	1381
Grey and pi	ur Rab	80 5	White lime, hard	1388
Brown gyp		810	Light grey lime	1393
grey gyp	- 3-	815	White lime	1402
Grey and pi			Grey lime	1416
dref gyp		85 9 859	White lime, hard	1418
Grey and pin	IIK EVP	846	Grey lime	1482
dyp and red	Ded		Brown lime	1485
Gyp	ahala	89 6	Grey lime	1490
Gyp and red	DIMETA	DOR T	Grey and brown lime	1496
Blue sandy	The Table 1	932	Grey lime	1510
A TOP BRUCK	BURY THE SECOND	987	White lime	1512
Whi said	是在社会的一个主义的	品,或是这些 医生物的	Grey lime	1584

NEW MEXICO SCHOOL OF MINES

STATE BUREAU OF MINES AND MINERAL RESOURCES

SOCORRO NEW MEXICO

NEW MEXICO WELL LOG DIVISION

LEASE Brainers

No. 6 Well

LOCATION (%)

SEC. 5 T. 188 R 278

Open St. 18 Sec. 5 T. 188 R 278

Open St. 18 Sec. 6 T. 188 R 278

Open St. 18 Sec. 6 T. 188 R 278

Open St. 18 Sec. 6 T. 188 R 278

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Open St. 18 Sec. 6 T. 188

Open St. 18 Sec

BOTTON F hite sand Oil sahe.

S-very line Strict

White sandy line

Grey and white line

petroROM Well Report Copyright 1996 by Petroleum Information Corporation

----- General Information

State : NMEX Final Status : D&A-OG County : EDDY
Field : ARTESIA
Operator Name : COMPTON R D
Well Number : 6
: BRAINARD-FEDERAI Total Depth : 1931 Spud Date YYYYMMDD: 19340123

Comp Date YYYYMMDD: 19340710 Hole Direction : VERTICAL

Lease Name : BRAINARD-FEDERAL A
API Number : 30015007840000

Section or Equiv : SEC 5 Init Lahee Class : D Township : S018 Range : E027 Final Lahee Class: D

Permit Number : Elevation : 00000 () Range Spot

Base Meridian : NEW MEXICO (21) Geologic Province: PERMIAN BASIN

Formation at TD : Oldest Age Pen :

Producing Formation:

----- Additional Location Information ------

Footage Location : 660FSL 330FEL SEC LN

Location Narrative:

Latitude : 32.77122 Latitude (Bot) : Longitude : 104.29229 Longitude (Bot) :

Latitude & Longitude Source: USGS

Hydrostatic Flowing Shut In Open Cush Test Type Form Top Base Înit. Final Init. Final Init. Final Time Amt 0001 DST 1278 1280

0001 DST 0002 DST 1820 1825

Pipe Recovery

Test Amount Unit Desc Amount Unit Desc Amount Unit Desc

0001 1 BBL O 20 BBL ZW

Material to Surface Test Amount Unit Type Time Amount Unit Type Time Amount Unit Type Time

0002 250 MCFD GAS

Size	Depth	Cement	
12 1/2	235		
10	586		
8 1/4	1697		
6 5/8	1324		

Ac	ctual Bottom Hole From Surfa	ace Location		
Meas True Vert Depth Depth	Closure N/S E/W Ft Deg Min Footage			County Code
	Actual Bottom Hole Na	arrative	- ~ 	
	Drilling Narrativ	ле		
Date Remarks				

AHachment II

Pro-Kem, Inc.

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : Devon Energy Lease : West Red Lake Unit Well No.: Free-Water Knock-Out

Dissolved Gasses

Salesman:

MG/L

Sample Loc. : Formation : GrayBurg - San ANDRES

EQ. WT.

*MEQ/L

Date Analyzed: 17-June-1996

ANALYSIS

pH Specific Gravity 60/60 F. 1.091 CaCO₃ Saturation Index @ 80 F. +0.731 @ 140 F. +1.611

4. 5. .6.	Hydrogen Sul Carbon Dioxi Dissolved Ox	lfide lde kygen	Not I	275 200 Petermined		
7. 8. 9. 10.	ations Calcium Magnesium Sodium Barium	(Ca++) (Mg++) (Na+) (Ba++)	(Calculated) Not D	1,503 486 55,071 etermined	/ 20.1 = / 12.2 = / 23.0 =	74.78 39.84 2,394.39
11. 12. 13. 14. 15.	nions Hydroxyl Carbonate Bicarbonate Sulfate Chloride Total Dissol Total Iron Total Hardne	(Fe)		0 1,713 4,100 84,981 147,854 2 5,755	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 = / 18.2 =	0.00 0.00 28.04 84.02 2,393.83
19.	Resistivity	@ 75 F.	(Calculated)	0.042 /cm.		

LOGARITHMIC WATER PATTERN *meq/L.

Nā	 	 		 		1111111		/ 	Cl
Ca			1		++++	1 4111		++++	HCO3
Mg	 	 	- HIINH	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 111111	- 	SO4
Fe	 	 	- 		4	- 	- 	-	CO3
100	000 1	000	100	10	1 10	0 10	0 100	0 100	000

Calcium Sulfate Solubility Profile

	53 50	_	 	\pm			1	1	$\overline{}$
	5334	_			-		 		-
	5318	-	 	\rightarrow	\leftarrow		1		\dashv
	5302	-+	 -	+			-	_	
,	5286	-+	 	+	-		├		
,	5270	-+-	 	+		/	 		 +
	5254		 			$\overline{}$	 	- i	
•	5238						—		
	5222		 	_				\	
	5206		 	-	<u> </u>			\rightarrow	_
	5198		 						

old / Citi.			
PROBABI COMPOUND	E MINERAL EQ. WT. X		
Ca(HCO ₃) ₂	81.04	28.04	2,272
CaSO ₄	68.07	46.74	3,182
CaCl ₂	55.50	0.00	0
$Mg(HCO_3)_2$	73.17	0.00	0
MgSO ₄	60.19	37.28	2,244
${\tt MgCL}_2$	47.62	2.56	122
NaHCO3	84.00	0.00	0
NaSO4	71.03	0.00	0
NaCl *Milli		,391.27 1 ts per Li	

^{&#}x27;s water is slightly corrosive due to the pH observed on analysis. corrosivity is increased by the content of mineral salts, and the presence of H2S, CO2 in solution.

Nº 17380

Affidavit of Publication

State of New Mexico,	
County of Eddy, ss.	
Amy M	icKay .
being first duly sworn	on oath says:
That_she_is_	Business Manager
lished daily at the City of Eddy, state of New I circulation in said couqualified newspaper wherein legal notices a published; that the primas published in the results of the state of the	of Carlsbad, in said county Mexico and of general paid nty; that the same is a duly under the laws of the state and advertisements may be nted notice attached hereto egular and entire edition of it in supplement thereof on wit:
November 19	, 19_ <mark>96</mark>
	, 19 , 19
	, 19
	,19
	,19
	,19
be assessed as court co	ation is \$39.71, of has been made and will osts.
Subscribed a	nd swom to before me this
22nd day of N	Wember, 1996
<u> </u>	
My commission expire	
	Notary Public

November 19, 1996

Legal Advertisement

Notice is hereby given that Devon Energy Corporation (Nevada) is applying to the New Mexico Oil Conservation to convert the following wells to water injection wells:

West Red Lake #26 2340' FSL & 400' FEL "|" Section 8-18S-27E Eddy County, NM

West Red Lake #36 1630' FNL & 330' FEL "H" Section 8-18S-27E Eddy County, NM

West Red Lake #47 2310' FNL & 1510' FEL *G* Section 8-18S-27E Eddy County, NM

West Red Lake #63 1500' FNL & 850' FEL *F* Section 8-18S-27E Eddy County, NM

West Red Lake #71 710' FNL & 1650' FEL "B" Section 8-18S-27E Eddy County, NM

West Red Lake #74 1930' FNL & 2600' FEL "G" Section 8-18S-27E Eddy County, NM

The intended purpose of this well is to inject produced waters into the Grayburg/San Andres formation to enhance oil production through secondary recovery. Maximum injection rates of 1500 bwpd and a maximum pressure of 1000 psig are expected.

Interested parties must file objections or requests for hearing within 15 days to the following commission:

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Emie Buttross District Engineer Devon Energy Corporation (Nevada) 20 North Broadway, Suite 1500 Oklahoma City, OK 73102 (405) 552-4509

Telephone:405/235-3611 FAX 405/552-4667

January 29, 1997

P240 501 UUO

Breck Operating Corporation P.O. Box 911 Breckenridge, TX 76424-0911

RE: Devon Energy Corporation

West Red Lake Waterflood Project

Sections 4,5,8,9 T18S-R27E

Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately six (6) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon Energy and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification. Attached is a copy of the application filed with the New Mexico Oil Conservation.

Please direct questions regarding this matter to Ernie Buttross at (405) 552-4509.

Sincerely,

Devon Energy Corporation

ina mkuys

Diana M. Keys

Engineering Technician

/dmk enclosures

xc: Well Files

Telephone:405/235-3611 FAX 405/552-4667

January 29, 1997

P240 601 488

Simon 11200 Westheimer, Ste 200 Houston, TX 77042-3200

RE: Devon Energy Corporation

West Red Lake Waterflood Project

Sections 4,5,8,9 T18S-R27E

Eddy County, NM

Gentlemen:

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Sincerely,

Devon Energy Corporation

lana Meseys

Diana M. Keys

Engineering Technician

/dmk enclosures

xc: Well Files

Telephone:405/235-3611 FAX 405/552-4667

January 29, 1997

P240501 487

Arco P.O. Box 1610 Midland, TX 79702-1610

RE: Devon Energy Corporation

West Red Lake Waterflood Project Sections 4,5,8,9 T18S-R27E

Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately six (6) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon Energy and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification. Attached is a copy of the application filed with the New Mexico Oil Conservation.

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Sincerely,

Devon Energy Corporation

llina MKeys

Diana M. Keys

Engineering Technician

/dmk

enclosures

xc: We

Well Files

Telephone:405/235-3611 FAX 405/552-4667

January 29, 1997

P240 501 USL

Amoco 501 Westlake Pk Blvd Houston, TX 77253

RE: Devon Energy Corporation

West Red Lake Waterflood Project

Sections 4,5,8,9 T18S-R27E Eddy County, NM

Gentlemen:

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Sincerely,

Devon Energy Corporation

Diana M. Keys

Engineering Technician

/dmk enclosures

xc: \

Well Files



Telephone:405/235-3611 FAX 405/552-4667

January 29, 1997

P 240 501 489

Yates Petroleum Corporation 105 S. 4th Yates Bldg Artesia, NM 88210

RE:

Devon Energy Corporation

West Red Lake Waterflood Project

Sections 4,5,8,9 T18S-R27E

Eddy County, NM

Gentlemen:

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Please direct questions regarding this matter to Ernie Buttross at (405) 552-4509.

Sincerely,

Devon Energy Corporation

Diana M. Keys

Engineering Technician

/dmk enclosures

xc:

Well Files

5-1/2" 15# set @ 1909' cmt, w/100 sxs. TOC est @ 1375' Open hole formation: 1943-58'					Section 9-18S-27E	
7" 23# @ 1568' w/100 sxs cmt, TOC calc @ 440'	PBTD 1973'		:		990' FNL & 330' FWL	Unit #28
8-5/8" 28# @ 1123' cmt'd w/75 sxs cmt, TOC est @ surf.	2001'	O:i	10/27/49	7/5/49	"D"	West Red Lake
Perfs: 1971-2081' (3 JSPF) in 12/11/61						!
4-1/2" 9.5# @ 2085' cmt'd w/125 sxs, TOC 1025' by Cemoton log 10/61.					•	
7" 24# @ 1336', No cmt volume given.		1			Section 8-18S-27E	
8-5/8" 32# @ 1140' , TOC est @ surf. No cmt volume given				:	2340' FSL & 400' FEL	Unit #26
10" 40# @ 580 Ran 1" 30' down to circ w/cmt, TOC surf.	2085'	Oil	4/12/38	12/6/37	ulu	West Red Lake
					Section 8-18S-27E	
			(P&A'd)		121' FNL & 1003' FEL	Unit #25
SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	1239'	P&A'd	10/15/85	7/23/48	"G"	West Red Lake
Perfs: 1788-1992' (2spf) perfd 1/11/61						
4-1/2" 9.5# @ 2340' w/150 sxs cmt, TOC @ 980' via Temp log.					Section 8-18S-27E	
5" 14# @ 1075' was pulled out 1960'.	PBTD 2340'	:			1650' FNL & 1650' FEL	Unit #23
7" @ 1025' w/125 sxs cmt, TOC calc @ 260'.	3468'	Oil	5/31/50	2/13/50	"G"	West Red Lake
					Section 8-18S-27E	
					986' FNL & 1647' FEL	Unit #22
SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	1200'	P&A'd	12/8/48	10/12/48	"B"	West Red Lake
					Section 8-18S-27E	
					990' FSL & 2310' FWL	Unit #21
SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	3005'	P&A'd	Oct-85	8/19/54	"B"	West Red Lake
					Section 8-18S-27E	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The summer of th		1930' FNL & 1650' FWL	Unit #20
SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	1794	P&A'd	9/26/57	9/1/57	"E"	West Red Lake
Perfs: 1615-1746' and 1079-89'					Section 8-18S-27E	
5-1/2" @ 1767' w/225 sxs cmt, TOC @ 618' by temp survey	PBTD 1755'				1980' FNL & 660' FWL	Unit #19
8-5/8" @ 918' w/325 sxs cmt, TOC surf (11" hole)	1767'	liO	7/18/57	7/7/57	"E"	West Red Lake
Open hole completion f/1140-TD, 241' plug f/1735 to 1976'.				٠		
7" @ 1140' w/100 sxs cmt, TOC est @ 11'.		100	A distance of the state of the		Section 8-17S-27E	
8-5/8" @ 978' w/1000 sxs cmt, TOC surf.	PBTD 1735'				660' FNL & 660' FWL	Unit #18
10-3/4" @ 560' no cmt,	1976'	Oil	11/9/44	6/14/44	"D"	West Red Lake
Completion Record	Depth/PBTD	Type of Well	Completion Date	Spud Date	Location	Well Name

West Red Lake Unit #46		Unit #45	West Red Lake	Unit #44	West Red Lake		Unit #36	West Red Lake		Unit #35	West Red Lake		Unit #34	West Red Lake			Unit #33	West Red Lake			Unit #32	West Red Lake		Unit #31	West Red Lake	Well Name
"D" 1090' FNL & 280' FWL Section 8-18S-27E	Section 4-183-27E	990' FSL & 330' FWL	"M"	840' FSL & 1750' FWL Section 5-18S-27E	Ž.	Section 36-18S-27E	1630' FNL & 330' FEL	"H"	Section 9-18S-27E	330' FNL & 240' FWL	"D"	Section 9-18S-27E	990' FNL & 1770' FWL	"C"		Section 8-18S-27E	660' FNL & 860' FEL	"A"		Section 8-18S-27E	1980' FNL & 660' FEL	"H"	Section 9-18S-27E	660' FNL & 1980' FWL	"C"	Location
2/4/95		:	9/18/95		10/7/95		:	8/19/93			8/10/93			7/26/90				10/2/84				11/29/83			12/13/61	Spud Date
3/12/95			9/22/95		10/27/96			1/23/93			1/6/94			9/7/90		·	The state of the s	1/23/85				1/26/84			3/1/62	Completion Date Type of We
 Oil			Qi		<u>Q</u>			O:		The second secon	Oil			Oil				Oil			:	Oil			Oil	Type of Well
2050' PBTD 1954'		PBTD 2146'	2225'	PBTD 2203'	2250'		PBTD 2903'	3000'		PBTD 2724'	2800'		PBTD 2362'	2400'			PBTD 1980'	2150'			2107' PBTD	2156'		PBTD 2341	2350'	Depth/PBTD
8-5/8" 24# csg @ 1025' cmt'd w/550 sxs cmt. TOC surf. 5-1/2" 15.5# csg @ 2049' w/ 350 sxs "C". TOC surf. Perfs: 1662-1912' (29 holes) 2-7/8" tbg @ 1936'.	2-7/8" tbg @ 2125'.	5-1/2" 15.5# @ 2221' w/350 sxs cmt, TOC surf.	8-5/8" 24# @ 1069' w/450 sxs cmt, TOC surf.	5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf. 2-7/8" tbg @ 2109'. Perfs: 1599-2025' (30 holes) Acid & Frac'd.	8-5/8" 24# @ 1099' w/550 sxs cmt, TOC surf.	Perfs: 1841-2104' (30 holes)	5-1/2" 15.5# csg @ 2999' w/130 sxs lite @ 300 sxs "C". TOC surf.	8-5/8" 24# csg @ 1137' cmt'd w/455 sxs lite & 200 sxs "C". TOC surf.	Perfs: 1846-2088' (31 holes)	5-1/2" 15.5# @ 2799' w/110 sxs lite & 400 sxs cl "C" TOC surf.	8-5/8" 24# csg @ 1150' cmt'd w/370 sxs & 200 sxs, TOC surf.	Perfs: 2052-2157' OA and 2169-2298' OA (8/90 - 64 shots)	4-1/2" 10.5# J-55 @ 2400' w/590 sxs cmt, TOC surf.	8-5/8" 24# @ 1105' w/550 sxs cmt, TOC est @ surf.	16 shots) Cmt retainer @ 1998' w/18' cmt on top.	Perfs: 2018-2027' (10/84), 1886, 96', 1902-74' (10/84 - 11 shots), 1232-41' (1/85 -	5-1/2" 14# K-55 @ 2150' w/350 sxs cmt, TOC surf.	8-5/8" @ 1047' cmt'd w/500 sxs cmt, TOC surf	Attempt to squeeze off 1236-1313' OA 7/84	Perfs: 12/83: 1953-2055' (80 holes) and 6/84 1236-1313' (28 holes)	5-1/2" 15.3# K-55 Hydrill FJ-40 @ 2156' cmt'd w/625 sxs cmt, TOC surf. (12/83)	8-5/8" 24# @ 353' w/300 sxs cmt in 11" hole. TOC est @ surf.	Perfs: 2066-2254' 136 total shots.	4-1/2" 9.5# @ 2350' w/475 sxs cmt, TOC 200' by temp survey	10-3/4" 52# @ 27' cmt'd w/20 sxs cmt, Ran 1" to cmt w/54 sxs, TOC surf.	Completion Record

Perfs: 1594-2078' (28 holes), Acid & Frac'd, 2-7/8" tbg @ 1999'.					Section 5-18S-27E	
5-1/2" 15.5# @ 2199' w/400 sxs cmt, TOC surf.	PBTD 2226'				1108' FSL & 691' FEL	Unit #65
8-5/8" 24# @ 1096' w/500 sxs cmt, TOC surf.	2300'	Oi	7/20/96	6/28/96	"P"	West Red Lake
2-7/8" tbg @ 2151'.						
Perfs: 1689-2126' (28 holes) Acid & frac'd.		:			Section 8-18S-27E	
5-1/2" csg @ 2350' w/460 sxs "C". TOC @ surf.	PBTD 2311'				2250' FSL & 990' FEL	Unit #64
8-5/8" 24# csg @ 1033' cmt'd w/550 sxs cmt. TOC surf.	2350'	O:	4/27/96	4/10/96	ılı.	West Red Lake
Perfs: 1656-2065' (26 holes), Acid & Frac'd, 2-7/8" tbg @ 2100'.					Section 8-18S-27E	
5-1/2" 15.5# @ 2250' w/400 sxs cmt, TOC surf.	PBTD 2206'				1500' FNL & 850' FEL	Unit #63
8-5/8" 24# @ 992' w/550 sxs cmt, TOC surf.	2250'	O:	4/25/96	4/4/96	"H"	West Red Lake
2-7/8" tbg @ 2138'.						
Perfs: 1894-2132' (27 holes) Acid & frac'd.					Section 9-18S-27E	
5-1/2" csg @ 2400' w/450 sxs "C". TOC @ surf.	PBTD 2357'				990' FNL & 990' FWL	Unit #62
8-5/8" 24# csg @ 1015' cmt'd w/500 sxs cmt. TOC surf.	2400'	<u>O</u>	4/19/96	3/28/96	"D"	West Red Lake
Perfs: 1536-1991' (31 holes) 2-7/8" tbg @ 2032'.					Section 5-18S-27E	
5-1/2" 15.5# @ 2200' w/370 sxs cmt, TOC surf.	PBTD 2153'	:			50' FSL & 1930' FWL	Unit #60
8-5/8" 24# @ 1013' w/500 sxs cmt, TOC surf.	2200'	Oil	4/11/96	3/16/96	"Z"	West Red Lake
1644-90 (20 holes).						
Set CIBP @ 2200' w/2 sxs cmt, Perfd 1876-1902' (21 holes), 1710-88', and						:
perfd 2832-2901' (21 holes in Yeso) Added perfs 2536-2764' in 4/91 (Yeso),					Section 8-18S-27E	
4-1/2" csg @ 3040' w/900 sxs "C". TOC est @ '	PBTD 2175' ('94		Recompletion		990' FNL & 1700' FWL	Unit #50
8-5/8" 24# csg @ 1151' cmt'd w/550 sxs cmt. TOC surf.	3044'	O:l	10/18/95 *	8/50/90	"C"	West Red Lake
Perfs: 1868-2128' (30 holes) 2-7/8" tbg @ 2153'.					Section 8-18S-27E	
5-1/2" 15.5# @ 2249' w/375 sxs cmt, TOC surf.	PBTD 2191'				1650' FSL & 710' FEL	Unit #48
8-5/8" 24# @ 1151' w/550 sxs cmt, TOC surf.	2249'	O:	2/21/95	2/16/95	ulu	West Red Lake
2-7/8" tbg @ 2099'.				, , ,	The state of the s	
Perfs: 1656-2068' total of 25 holes, Acid & frac'd.					Section 8-18S-27E	
5-1/2" 15.5# @ 2249' w/365 sxs cmt, TOC surf.	PBTD 2199'				2310' FNL & 1510' FEL	Unit #47
8-5/8" 24# @ 1099' w/550 sxs cmt, TOC surf.	2250'	Oį.	9/30/95	9/24/96	"G"	West Red Lake
Completion Record	Depth/PBTD	Type of Well	Completion Date	Spud Date	Location	Well Name

2200' FNL & 2100' FEL Section 8-18S-27E "C" 7/4/96 100' FNL & 1500' FWL Section 9-18S-27E "F" 7/10/96 8/2/96 2530' FNL & 1500' FWL		
7/4/96		
7/4/96		오 오 오
7/4/96		
7/4/96		
NL & 2100' FEL on 8-18S-27E		
NL & 2100' FEL on 8-18S-27E		
NL & 2100' FEL		
"G" 6/22/96 8/16/96		<u>ର</u> <u>ଚ</u>
Section 8-18S-27E	<u>Q</u> <u>Q</u> <u>Q</u>	<u> </u>
1930' FNL & 2600' FEL		<u>0</u> <u>0</u> <u>0</u>
"G" 6/16/96 7/6/96	OH OH	<u></u>
	<u>Q</u> <u>Q</u>	<u>의</u>
Section 8-18S-27E	<u>O</u>	<u>Q</u>
1300' FNL & 2350' FEL	<u>Q</u>	<u>♀</u>
"B" 6/11/96 7/26/96	9	일
Section 8-18S-27E	Oil	©
1400' FNL & 2100' FWL	<u>Q</u>	€
"F" 6/5/96 7/20/96		
Section 8-18S-27E		
710' FNL & 1650' FEL		!
"B" 5/3/96 7/18/96	Oil	<u>Q</u>
Section 8-18S-27E		
700' FNL & 2600' FEL		
"B" 5/23/96 6/23/96	Oil	<u>o</u>
Section 8-18S-27E		
330' FNL & 2050' FEL		
	-	
"B" 5/16/96 6/13/96	Oil	<u>Oi</u>

Well Name Location Sput Date Completion Date Type of Well Depth/PBTD 250F 244 @ 1059 wi050 ass cmt. TOC surf. Completion Record Hawk '81' 2210 FSL & 2310 FSL 88956 Oil PBTD 2205 5-12" IS-56" @ 2249 wi400 ass cmt. TOC surf. Hawk '81' 2210 FSL & 650 FSL 81895 FEL Oil PBTD 2205 5-12" IS-56" @ 2249 wi400 ass cmt. TOC surf. Hawk '81' 3250 FSL & 650 FSL 81895 FEL Oil PBTD 2254 5-12" IS-56" @ 2249 wi400 ass cmt. TOC surf. Hawk '81' 440 FSL 97785 97785 97296 Oil PBTD 2254 5-12" IS-56" @ 2249 wi400 ass cmt. TOC surf. Hawk '81' 2310 FSL & 650 FSL 8160 FSL 97785	Perfs: 1758-2190' (35 holes), Acid & Frac'd, 2-7/8" tbg @ 2227'.					Section 8-18S-27F		_
Location Location Completion Date Type of Well Depth/PBTD Completion Record	5-1/2" 15.5# @ 2399' w/450 sxs cmt, TOC surf.	PBTD 2352'				2310' FSL & 750' FWL	Federal #6	_
Location Location Sput Date Completion Date Type of Well Depth/PPTD Completion Record	8-5/8" 24# @ 1112' w/500 sxs cmt, TOC surf.	2400'	Oil	10/12/96	9/21/96	"E"	Hawk "9E"	_
Location Spuid Date Completion Date Type of Well Depth/PBTD Completion Record	2-7/8"					Section 9-18S-27E		_
Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record	5-1/2" 15.5# @ 2410' w/425 sxs cmt, TOC surf.	PBTD 2364'				1650' FNL & 330' FWL	Federal #5	_
	8-5/8" 24# @ 1095' w/500 sxs cmt, TOC surf.	2411'	Oil	9/17/96	8/14/96	"E"	Hawk "9E"	_
Location Spuid Date Completion Date Type of Well Depth/PBTD	Perfs: 1426-2184' (26 holes), Acid & Frac'd, 2-7/8" tbg @ 2108'.					Section 8-18S-27E		_
Location Spuid Date Completion Date Type of Well Depth/PBTD	5-1/2" 15.5# @ 2399' w/425 sxs cmt, TOC surf.	PBTD 2352'				330' FSL & 430' FEL	Federal #12	_
Location Spuid Date Completion Date Type of Well Depth/PBTD Completion Record	8-5/8" 24# @ 1089' w/500 sxs cmt, TOC surf.	2400'	Oil	10/10/96	9/15/96	"P"	Hawk "8P"	_
Location Sput Date Completion Date Type of Well Depth/PBTD	Perfs: 1293-2140' (23 holes), Acid & Frac'd, 2-7/8" tbg @ 2167'.					Section 8-18S-27E		_
Location Spud Date Completion Date Type of Well Depth/PBTD	5-1/2" 15.5# @ 2346' w/450 sxs cmt, TOC surf.	PBTD 2302'				890' FSL & 940' FEL	Federal #11	_
Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record Completion Reco	8-5/8" 24# @ 1096' w/550 sxs cmt, TOC surf.	2350'	Oil	9/7/96	8/8/96	"P"	Hawk "8P"	_
Location Spud Date Completion Date Type of Well Deptt/PBTD Completion Record	7/8" tbg @					Section 8-18S-27E		_
Completion Spud Date Completion Date Type of Well Depth/PBTD Completion Record	5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf.	PBTD 2200'					Federal #9	
Location Spud Date Type of Well Depth/PBTD Completion Record Completion Re	8-5/8" 24# @ 1087' w/500 sxs cmt, TOC surf.	2250'	Oil	10/19/96	9/26/96	"O"	Hawk "80"	_
Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record	Perfs: 1352-1986' (28 holes), Acid & Frac'd, 2-7/8" tbg @ 2041'.					Section 8-18S-27E		
Completion Spud Date Completion Date Type of Well Depth/PBTD Completion Record	5-1/2" 15.5# @ 2199' w/400 sxs cmt, TOC surf.	PBTD 2154'		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1750' FSL & 1190' FWL	Federal #6	_
Completion Com	8-5/8" 24# @ 1081' w/500 sxs cmt, TOC surf.	2200'	Oil	10/25/96	10/7/96	"L"	Hawk "8L"	_
Completion Spud Date Completion Date Type of Well Depth/PBTD Completion Record	Perfs: 1524-2014' (25 holes), Acid & Frac'd, 2-7/8" tbg @ 2038'.					Section 8-18S-27E		_
Completion Spud Date Completion Date Type of Well Depth/PBTD Completion Record	5-1/2" 15.5# @ 2199' w/400 sxs cmt, TOC surf.	PBTD 2159'				2160' FSL & 725' FWL	Federal #5	
Completion Spud Date Completion Date Type of Well Depth/PBTD Completion Record	8-5/8" 24# @ 1022' w/500 sxs cmt, TOC surf.	2199'	Oil	8/15/96	7/21/96	"L"	Hawk "8L"	_
Completion Spud Date Completion Date Type of Well Depth/PBTD Completion Record	Perfs: 1243-2078 (27 holes) Acid & Frac'd. 2-7/8" tbg @ 2106'.					Section 8-18S-27E		_
Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record	5-1/2" J-55 set @ 2249' w/400 sxs cmt, TOC surf.					1650' FSL & 2610' FWL	Federal #4	_
Completion Record Completion Pate Completion Pate Type of Well Depth/PBTD Completion Record	8-5/8" 24# J-55 @ 1055' w/500 sxs cmt, TOC surf.	2250'	Oil	8/17/96	7/27/96	"א"	Hawk "8K"	_
e Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record "J" 7/16/96 8/8/96 Oil 2250' 8-5/8" 24# @ 1059' w/500 sxs cmt, TOC surf. 2210' FSL & 2310' FEL 7/16/96 8/8/96 Oil PBTD 2205 5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf. Section 8-18S-27E 9/7/96 9/28/96 Oil 2300' 8-5/8" 24# @ 1087' w/500 sxs cmt, TOC surf. Section 8-18S-27E 9/7/96 9/28/96 Oil PBTD 2254' 5-1/2" 15.5# @ 2299' w/400 sxs cmt, TOC surf. Section 8-18S-27E 8/2/96 Oil PBTD 2156' 5-1/2" 15.5# @ 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd	Frac'd,					Section 8-18S-27E		
Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record "J" 7/16/96 8/8/96 Oil 2250' 8-5/8" 24# @ 1059' w/500 sxs cmt, TOC surf. 2210' FSL & 2310' FEL 8/8/96 Oil PBTD 2205 5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf. Section 8-18S-27E 9/7/96 9/28/96 Oil 2300' 8-5/8" 24# @ 1087' w/500 sxs cmt, TOC surf. PBTD 2254' 5-1/2" 15.5# @ 2299' w/400 sxs cmt, TOC surf. Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Section 8-18S-27E 8/2/96 9/1/96 PBTD 2254' Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ "K" 8/2/96 9/1/96 Oil 2199' 8-5/8" 24# @ 1044' w/500 sxs cmt, TOC surf.	5-1/2" 15.5# @ 2199' w/400 sxs cmt, TOC surf.	PBTD 2156'				2310' FSL & 1650' FWL	Federal #3	_
se Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record "J" 7/16/96 8/8/96 Oil 2250' 8-5/8" 24# @ 1059' w/500 sxs cmt, TOC surf. 2210' FSL & 2310' FEL 2210' FSL & 2310' FEL PBTD 2205 5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf. Section 8-18S-27E 9/7/96 9/28/96 Oil PBTD 2254' 5-1/2" 15.5# @ 209' w/400 sxs cmt, TOC surf. Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @	8-5/8" 24# @ 1044' w/500 sxs cmt, TOC surf.	2199'	Oil	9/1/96	8/2/96	"K"	Hawk "8K"	_
b Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record "J" 7/16/96 8/8/96 Oil 2250' 8-5/8" 24# @ 1059' w/500 sxs cmt, TOC surf. 2210' FSL & 2310' FEL 7/16/96 8/8/96 Oil PBTD 2205 5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf. Section 8-18S-27E 9/7/96 9/28/96 Oil 2300' 8-5/8" 24# @ 1087' w/500 sxs cmt, TOC surf. "J" 9/7/96 9/28/96 Oil 2300' 8-5/8" 24# @ 1087' w/500 sxs cmt, TOC surf. PBTD 2254' 5-1/2" 15.5# @ 2299' w/400 sxs cmt, TOC surf. TOC surf.	Perfs: 1293-2074' (25 holes), Acid & Frac'd, 2-7/8" tbg @ 2108'.		;			Section 8-18S-27E	:	_
s Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record "J" 7/16/96 8/8/96 Oil 2250' 8-5/8" 24# @ 1059' w/500 sxs cmt, TOC surf. 2210' FSL & 2310' FSL 2310' FSL PBTD 2205 5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf. Section 8-18S-27E Perfs: 1238-2066' (26 holes), Acid & Frac'd, 2-7/8" tbg @ "J" 9/7/96 9/28/96 Oil 2300' 8-5/8" 24# @ 1087' w/500 sxs cmt, TOC surf.	5-1/2" 15.5# @ 2299' w/400 sxs cmt, TOC surf.	PBTD 2254'				1650' FSL & 1650' FEL	Federal #2	_
b Location Spud Date Completion Date Type of Well Depth/PBTD Completion Record "J" 7/16/96 8/8/96 Oil 2250' 8-5/8" 24# @ 1059' w/500 sxs cmt, TOC surf. 2210' FSL & 2310' FEL 98/8/96 Oil PBTD 2205 5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf. Section 8-18S-27E Perfs: 1238-2066' (26 holes), Acid & Frac'd, 2-7/8" tbg @	8-5/8" 24# @ 1087' w/500 sxs cmt, TOC surf.	2300'	Oil	9/28/96	9/7/96	"J."	Hawk "8J"	_
Location Spud Date Completion Date Type of Well Depth/PBTD "J" 7/16/96 8/8/96 Oil 2250' 2210' FSL & 2310' FEL PBTD 2205	Perfs: 1238-2066' (26 holes), Acid & Frac'd, 2-7/8" tbg @ 2111'.					Section 8-18S-27E		_
Location Spud Date Completion Date Type of Well Depth/PBTD "J" 7/16/96 8/8/96 Oil 2250' 8-5/8" 24# @ 1059' w/500 sxs cr	5-1/2" 15.5# @ 2249' w/400 sxs cmt, TOC surf.	PBTD 2205				2210' FSL & 2310' FEL	Federal #1	
Location Spud Date Completion Date Type of Well Depth/PBTD	8-5/8" 24# @ 1059' w/500 sxs cmt, TOC surf.	2250'	Oil	8/8/96	7/16/96	"J"	Hawk "8J"	
	Completion Record	Depth/PBTD	Type of Well	Completion Date	Spud Date	Location	Well Name	_

Perfs: 1580-2225' (30 holes), Acid & Frac'd, 2-7/8" tbg @ 2250'.					Section 9-18S-27E	
PBTD 2352' 5-1/2" 15.5# @ 2399' w/500 sxs cmt, TOC surf.	PBTD 2352'			:	1500' FNL & 1650' FWL	Federal #7
8-5/8" 24# @ 1011' w/600 sxs cmt, TOC surf.	2400'	Oil	9/16/96	8/20/96	"Ę"	Hawk "9F"
Completion Record	Depth/PBTD	Type of Well	Spud Date Completion Date Type of Wel	Spud Date	Location	Well Name

				Section 5-18S-27E		30-015-27521
3950' SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	P&A	8/15/95	7/30/93	"O"	Yates Petr Corp	Choque AMX
		1		Section 5-18S-27E	•	
				330' FSL & 1650' FEL	The second secon	30-015-00777
2002' SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	D&A	6/21/39	9/27/38	"O"	Compton RD	Brainard #1
	2 m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Section 5-18S-27E		
		:		990' FSL & 660' FEL		30-015-00783
2500' SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	D&A	6/29/33	2/15/33	"p	Compton RD	Brainard #4
				Section 5-18S-27E		Maria Managara and America and
				660' FSL & 330 FEL		30-015-00784
1931' SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO	D&A	7/10/34	1/23/34	"p"	Compton RD	Brainard-Federal "A" 6
IP: 15 BOPD f/1257-1263'.						
6-5/8" @ 1262', no cmt detail given.				Section 5-18S-27E		
8-1/4" @ 1085', no cmt detail given				200' FSL & 1220' FEL		30-015-00785
1263' 10 3/4" @ 573', no cmt detail given	O:	1/5/36	11/28/35	"P"	Compton RD	Brainard #7
IP 70 BOPD f/1259-1260'.				Section 5-18S-27E		30-015-00780
10" @ 537', no cmt detail given		THE PARTY OF THE P		332' FSL & 810' FEL	(Compton RD)	(Brainard #3)
1260' 12-3/4" @ 232', no cmt detail given	Oil	10/2/30	7/4/30	-Pi	Breck Oper Co	Julia "A" Federal #2
				Section 5-18S-27E		
IP: 20 BOPD f/1102-1258'. no treatment given.				200 FSL & 545 FEL		30-015-00786
1258' 8-5/8" @ 1102', no cmt detail given.	Oil	3/2/36	2/8/36	"P"	Yates	Brainard #8
Treated w/1000 gals acid, IP: 129 BOPD w/FTP 300 psi f/5600-5628'				Section 9-18S-27E	Refining)	30-015-00835
5-1/2" @ 5717" w/350 sxs cmt, TOC est @ 3051'	The state of the s			1980' FSL & 1980' FWL	(Humble Oil &	Unit #6
5717' 8-5/8" @ 1476' w/750 sxs cmt, TOC est @ surf	Oil	7/10/60	2/3/60	"K"	Arco Oil & Gas	Empire ABO
					1 10 10 10 10 10 10 10 10 10 10 10 10 10	30-015-00841
Treated w/6000 gals acid, IP: 231 BOPD w/FTP 400 psi.	and the same of th		•	Section 9-18S-27E	Refining)	30-015-00839
5-1/2" @ 5100' w/800 sxs cmt, TOC est @ surf				1650' FSL & 990' FWL	(Humble Oil &	Unit #5
5700' 8-5/8" @ 1501' w/800 sxs cmt, TOC est @ surf	Oil	6/9/60	5/15/60	n_u	Arco Oil & Gas	Empire ABO
		:	:	Section 9-102-27E	zening)	30-013-00836
				Spatian 0 496 375	Don't in	30 015 00006
			11000	1980' FNL & 1980' FWL	(Humble Oil &	Unit N #6
SEE DOWNHOLE SCHE	P&A	7	7/2/60	L.:	Arco Oil & Gas	Empire ARO
Depth/PBTD Completion Record	Type of Well	Completion Date	Spud Date	Location	Operator	Well Name

Well Name	Operator	Location	Spud Date Compi	Completion Date	letion Date Type of Well Depth/PBTD	Depth/PBTD	Completion Record
Hondo "B" Federal	Amoco Prod Co	"L"	11/8/74	12/5/85	P&A'd	9418'	SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO
Gas Com #1		2310' FSL & 660' FWL	!	:			
30-015-21114		Section 8-18S-27E	•				
Vandergriff # 4	JE Simon	,E.,	4/7/49	5/11/49	D&A	1215'	SEE DOWNHOLE SCHEMATIC FOR P&A'd WELLS FOR WELL INFO
30-015-00831		1650' FNL & 2310' FWL					
		Section 8-18S-27E					
Empire ABO Unit N-4	ARCO	Ŧ.	1/1/64	6/25/64	O <u>i</u>	9580'	11-3/4" @ 570' w/150 sxs cmt, TOC est @ surf
30-015-00823		2260' FNL & 440' FEL					8-5/8" @ 3088' w/1100 sxs cmt, TOC est @ surf
formerly Chalk Bluff		Section 8-18S-27E					5-1/2" @ 9280' w/1090 sxs cmt, TOC est @ 3460'
Draw Unit #3							Treated 9505-9555' w/acid, IP 3566 MCFD.
							Treated 5260-5418' w/5000 gals acid in workover.
Empire ABO Unit O-4	ARCO	"II"	12/30/60	1/21/61	O <u>i</u>	5576'	8-5/8" @ 1525' w/775 sxs cmt, TOC est @ surf
30-015-00825		1650' FSL & 330' FEL					4-1/2" @ 5576' w/850 sxs cmt, TOC est @ 2125'
							IP 5370-5400' 165 BOPD, treated w/acid.

Well Information and Downhole Schematics Plugged and Abandoned Wells within Area of Review Devon Energy Corporation West Red Lake Waterflood Project

Well Name: Chicalle AMX Federal #1

Location: Section 5-18S-27E (Lelice FSL + 231L' FEL)

Operator (at time of plugging): Yates Petraleum (Cap.

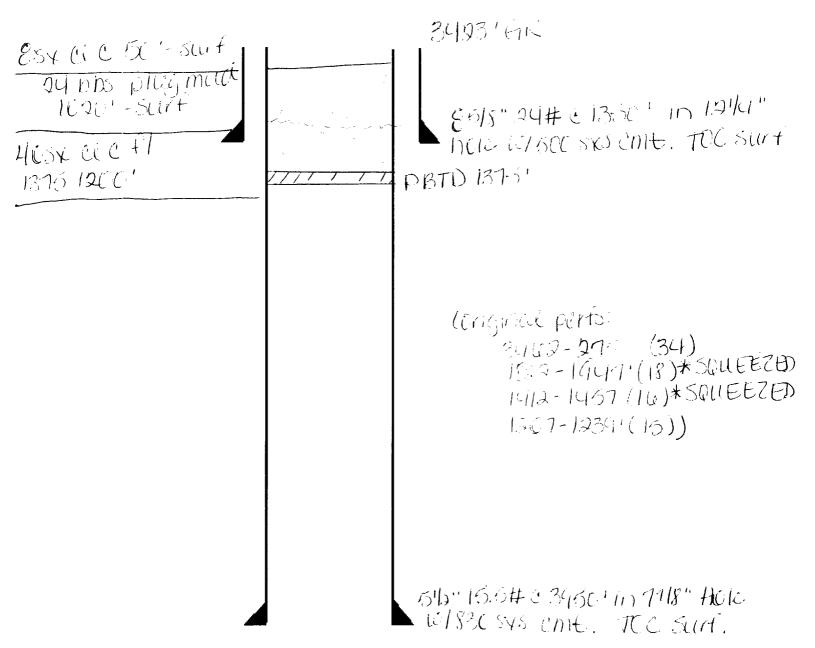
Date Plugged: E/1519e)

Information Obtained From: BLM Sundry + Comp. Report.

Comments:
See attached Completion Report and Plugging

Sundry.

Downhole Schematic:



Th 2/1/2/11

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Buaget Bureau No. 1004-0135 Expires: March 31, 1993

23. Lease Designation and Serial No.

NM-71762

SUNDRY NOTICES AND Do not use this form for proposals to drill Use "APPLICATION FOR I	or to deepen or reentry to a different reservoir. PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
SUBMIT II	N TRIPLICATE	7. If Unit or CA, Agreement Designation
i. Type of Well		1 - 7
	✓	8. Well Name and No.
2. Name of Operator		Choque AMX Federal #1
YATES PETROLEUM CORPORATION	(505) 748-1471)	9. API Well No.
3. Address and Telephone No.		30-015-27521
105 South 4th St., Artesia, NM		10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Descri	iption)	Undesignated Premier
660' FSL & 2310' FEL of Section	5-T18S-R27E	11. County or Parish, State
	,	711 0
	The second secon	Eddy County, NM
2. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPOR	RI, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
_	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
 Describe Proposed or Completed Operations (Clearly state all principles give subsurface locations and measured and true vertical 	ertinent details, and give pertinent dates, including estimated date of starting depths for all markers and zones pertinent to this work.)*	g any proposed work. If well is directionally drilled
8-16-95 - Moved in and rigged up	pulling unit. POOH with rods and pu	mp. Nippled up BOP.
	perforated sub and mud anchor. TIH	
	nped 40 sacks Class C 2% CaCl2 from 1	
tubing. WOC 3-1/2 hours. TIH w	ith tubing and tagged top of cement a	t 1020'. Spot 24 barrels
	POOH with tubing to 50°. Mixed and	
	OOH with tubing. Nippled down BOP.	
	marker. PLUGGED AND ABANDONED - FIN	
•	Notified Jim Amos w/BLM - Carlsbad	of commencing plugging
operations.		
		ÂUG CAI ARI
	55	
	Approved as to plugging of the well bore	$\boldsymbol{\varsigma}$
	Liability under bond is retained until surface restoration is completed.	ું કહ્યું. 🗢 🞢
	STILISCS LESCOLATION IS COMMON TO THE ACT OF THE PARTY OF	F TE
	لَّهُ عَلَيْهِ اللَّهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْهِ عَلَيْ	≥ 5
•		
14. I hereby certify that the foregoing je true and correct		
Ku at the	Tide Production Clerk	August 16, 1995
Signed A State of Sta		Date
(This space for Purious of Glass office we) JOE G. LA	Tide POTRILEM ENGINEES	Date 9/18/95
Conditions of approval, if any:		

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b. TYPE OF COM	WORK	т рев	:r- []	Pite		 FP. 🗀			([S. FARM	OR LEAS	E NAMB
2. NAME OF OPERA	TOR	EN EN		BACK L	, ISE		Other —— Rea		175				MX Federal
YATES PETI	ROLEUM	CORP	ORAT	ION			748-1	1471			9. WELL	•	III Tederal
3. ADDRESS OF UPE											- ·	J	1
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4. LOCATION OF WE								iremen	ta)* 		Undes	ignate	ed Premier
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At top prod. In	terval res	orted be	low										
At total depth													5-T18S-R27E
					1	ERMIT NO.		DATE	ISSUED		12. COUN PARIS		13. STATE
		····································				30-015-		<u> </u>			Edo		NM
RH 7-30-93 RT 8-10-93	1			17. PAT		(Ready to	proa.) 1	S. ELE			B, RT, GR, ETC.)• 19.	ELEV. CASINGHEAD
RT 8-10-93 20. TOTAL DEPTH, MD	<u> </u>	-23-93		T.D., MD A	9-1-9	2. IF MULT	TIPLE COMP.	L.,	34 23. INT	23'		TOOLS	CABLE TOOLS
3950'			137			HOW M	ANT®		DRI	.LED B	40-39	3501	1
24. PRODUCING INTE	RVAL(S).	OF THIS	CONPL	TION—TOF	BOTTOM	, NAME (M	D AND TVD	•	•		1 3.		25. WAS DIRECTIONAL SURVEY MADE
1207	-1239'											- 102	No WAS WELL CORED
			RUN									21.	
CNL/LD	C & DI	<u>.L</u>		CAS	NG REC	ORD (Res	ort all strin	as set i	n soell)			<u> </u>	No
CABINO SIZE	WEIG	HT, LB./	FT.	DEPTH SE			E SIZE			ENTI	NG RECORD		AMOUNT PULLED
20"	_				40 '		26"	Cei	ment t	o su	ırface		
8-5/8"	241	1			50 '		-1/4"	50	0 sx -	ciı	culate		
5-1/2"	_ 15.	.5#		39	50'	_ 7-	-7/8"	83	0 sx -	cii	rculate		-
29.			LINER	RECORD				<u> </u>	30.		TUBING R	PCORT)	<u> </u>
BIZE	TOP (H (MD)		CEMENT*	SCREEN (MD)	SIZE		DEPTH SET		PACKER BET (MD)
									2-7/	8"	117	7'	-
31. PERFORATION RE 3462-3510'					20161	11/16	82.			. FRA	CTURE, CEM	ENT SQ	UEEZE, ETC.
.42" holes;			-				DEPTH I		<u> </u>	 		KIND OF	MATERIAL USED
1822-1947								SEE	ATTAC	HED.	SHEET		
1412-1457	w/16 .	.42" h	oles	(sque									
1207-1239'	w/15 .	.42" h	oles									· ·	
33.*						PROD	UCTION			<u> </u>			

PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) DATE FIRST PRODUCTION WELL STATUS (Producing or shut-in) 9-1-94 .Pumping Shut in DATE OF TEST HOURS TESTED PROD'N. FOR OIL-BBL. GAS-MCF. CHOKE SIZE WATER-BBL. UAS-OIL BATIO TEST PERIOD 9-5-94 24 12 GAS-MCF. WATER--HBL. FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR BATE 01L-BBL. OIL GRAVITY-API (CORR.) 10 12 209 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Tony Vasquez 35. LIST OF ATTACHMENTS Deviation survey and logs

Production Clerk -- 2

5-19-95

DATE

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED .

YATES PETROLEUM CORPORATION Choque AMX Federal #1 Section 5-T18S-R27E Eddy County, New Mexico

#32: ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.:

DEPTH INTERVAL	TREATMENT
3462-3510'	Acidized with 2000 gallons 20% NEFE HCL acid and ball sealers
2903-2916'	Acidized with 2000 gallons 20% NEFE HCL acid and ball sealers
2744-2770¹	Acidized with 2000 gallons 20% NEFE HCL acid and ball sealers
1822-1947'	Acidized with 4000 gallons 20% NEFE acid and ball sealers
1412-1457	Acidized with 3000 gallons 15% NEFE acid and ball sealers
1207-1239'	Acidized with 2000 gallons $7-1/2\%$ NEFE HCL acid and ball sealers
1412-1457' & 1822-1947'	pumped 300 sacks Class C 3% CaCl2 into perforations - on vacuum. Pumped 200 sacks Class C with 7 sacks of 3% CaCl2 injected on fly - squeezed.

Well Information and Downhole Schematics Plugged and Abandoned Wells within Area of Review Devon Energy Corporation West Red Lake Waterflood Project

Well Name: Vandagiiff #4

Location: Section & -18S-27E (1USUFFUL and DBC FUL)

Operator (at time of plugging): J.E. SIMBO

Date Plugged: 6/49

Information Obtained From: Salet Report, PI Wallfaguet

Comments:
Spud 4-9-49, was andea and abundance.

Completed 5-1149. No additional lusing

Into Given. No plugging into available.

Downhole Schematic:

T'(2) : 1050' 61505x

SCOUT REPORT NEW MEXICO OIL CONSERVATON COMMISSION

, 		N			Company J. E	Simon			Pool	Red Lake	Dist. 8
					Farm Name	Vander	griff			Well No.	4
					Sec. 8	Twp.	18		27	County	Eddy
	į	.			Feet from Line:	16 50 N	ī.	S.	E.	2310 W.	
▶ -		¦-		B	Elevation 35	420				Method.	
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CAS	SING &	CEMENT	ring record	<u> </u>	Gais.		BX			TTu	
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Date					Da	te Ba	.://	1-1	7	<u> </u>	
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		1.13.1	200								
·		Car	t. 7	2_							
35219	Advocate	Delas									

petroROM Well Report Copyright 1996 by Petroleum Information Corporation

------ General Information ------Final Status : D&A-O Total Depth : 1215 : NMEX State County : EDDY Field : RED LAKE
Operator Name : SIMON JULIAN E
Well Number : 4
Lease Name : VANDAGRIFF
API Number : 30015008310000 Spud Date YYYYMMDD: 19490409 Comp Date YYYYMMDD: 19490511 Hole Direction : VERTICAL Section or Equiv : SEC 8 Init Lahee Class : D Township : S018
Range : E027 Final Lahee Class: D Range Permit Number : Elevation : 3420 (ES) Spot Base Meridian : NEW MEXICO (21) Geologic Province: PERMIAN BASIN Formation at TD : Oldest Age Pen : Producing Formation: ----- Additional Location Information -------Footage Location : 1650FNL 2310FWL SEC LN Location Narrative: Latitude : 32.76492 Latitude (Bot) : Longitude : 104.30091 Longitude (Bot) : Latitude & Longitude Source: USGS ----- Production Tests ------Test Form Top Base Oil Rate Gas Rate Wtr Rate FTP BHP Ck M BHT 0001 1056 1200 63 GO B PDT Treatment Test Top Base Volume Meas Amount T/P PSI Inj Type Nbr Agent Add 0001 1180 1201 100 QTS XPLO Size Depth Cement 1056 50 ------ Actual Bottom Hole From Surface Location ---------Meas True Vert Closure N/S E/W Depth Depth Ft Deg Min Footage State County Code Code ------ Actual Bottom Hole Narrative ------

		Drilling Narrative	
Date	Remarks		

Well Information and Downhole Schematics Plugged and Abandoned Wells within Area of Review **Devon Energy Corporation** West Red Lake Waterflood Project

Well Name: Hondo "B" Federal Gas Con # 1

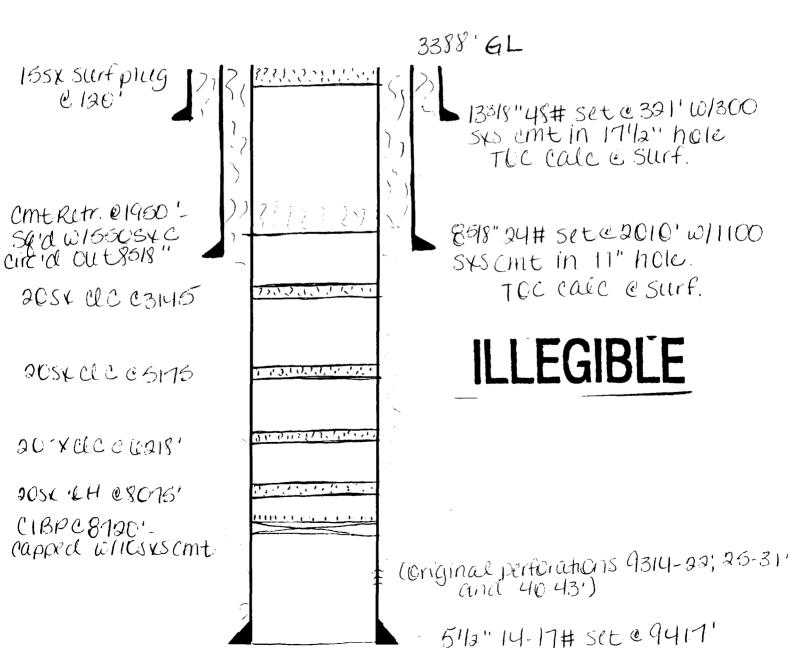
Location: Section & -18S-27E

Operator (at time of plugging): Amaca Production Co.

Date Plugged: |2|4|85

Information Obtained From: BLM Sundry NCTICE

Comments: Set CIBPC 8120' and cap W/10 sx Cl H CMt, Set 20 5x Cl H plug c 8075; 205x5 Cl C e 10218; 20 SK CLC @ 5176: 20SK CLC @ 31415; Found hole in csgc 2886.90. Set cont retr 0.1950'-said 61550 5xs Cl C & Circia 30sx out 8018" Csg. Set 16sx surf plug 120'-surf. Downhole Schematic:



TD 9418'

DRTD 931621

W1850 SXS CMt.in 7118" hole

TOC ESUIF.

: : :Till UxU(+1)	JED STATES	SUBMIT IN TRIMATE.	Budge Bureau No. 100-20135
November 1983) Comerly 9-331) DEPARTM	IS OF THE INTERI	OR verse zide)	Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO.
BUREAL	J OF LAND MANAGEMENT	· · · · · · · · · · · · · · · · · · ·	LC-070678-A
	CES AND REPORTS C		O. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Do not use this form for proposa Use "APPLICA"	ils to drill or to deepen or plug by FION FOR PERMIT—" for such pr	openis;	
OIL GAB OTHER #	$\mathcal{O}_{\mathbf{r}}\mathcal{A}$	Br/ City	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	A	OEC - ///	S. FARM OR LEASE NAME
AMOCO PRODUCTION COMPA	ANY S &	-0 ₆ "/ / m	Goods B Federal Gas Com
	EW MEXICO 88240 😤	'-r. 685 18	7
4. LOCATION OF WELL (Report location cle See also space 17 below.) At surface	early and in accordance with any	State requirements.	10. FIELD AND POOL, OR VILDCAT
	(.(1) . 51.)	Man RECEIVED	11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA
23/0 ' F <u>3</u> L		1111 -9 1007	2 12 10
14. PERMIT NO.	16. BLEVATIONS (Show whether DF,	RT, GR, etc.)	12. COUNTY OR PASSED 13. STATE
3001521114	3405'RL	B 0. C. D.	Eddy NM
16. Check App	propriate Box To Indicate N	ature of Notice, Report, or C	Hher Dana
NOTICE OF INTENT	TO:	aussagu	SNT ERPORT OF:
	CLL OR ALTER CASING	WATER ERUT-OFF	REPAIRING WELL
	BANDON*	PRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING CABING ABANDONMENT®
——————————————————————————————————————	HANGE PLANS	(Other)	of multiple completion on Well
17. DESCRIBE PROPUSED OR COMPLETED OPER	ATIONS (Clearly state all pertinent	Completion or Recomple	troluding estimated data of acceptances
nent to this work.)		ions and measured and true vertica	l depths for all markers and zones perti-
1. MISU and POH with			
2. Pan CIBP and set a	+ 8720' Cassel	with 105x class HC	ementand displacedu/brine; slaced a/brinegel.
2 / 10 1 / 200			
4. Relledup to 6218'.	and pumped 205X	Class C cement. L), splaced w/ prine gel.
5. Pulled up to 5175' an	ed purped 20 sx class	e Coment. Displace	la/brine gel.
6. Pulled up to 3145'a	I surped 205x cla	es Cament. Displace	fu/bune gel.
			SD: Succesedas/5505x class
cement and circula	1		
			,
8. Pulled up to 120' and	pumped 13 5x cours	C cement surface pl	J.
9. Installed dry hol	e Marker and MOS	12/4/85.	
0 + 5 BLM , 1 - JRB	, 1 - FJN, 1- CMH		
SIGNED LAULE M. X	// ,	<u>inistrative Analyst (</u>	SG) DATE 12/5/85
(This space for Federal or State office			
APPROVED BY UR DIL	dody TITLE	na na Mga 40 - Pisa da Nada Mga 40 - Pisa da Nada	DATE 6.2987
CONDITIONS OF APPROVAL, IF AN	II: <i>V</i>		Post ID-2
			7-10-87
	*See Instructions	on Reverse Side	$P + \mathcal{P}$

UNITED STATES SUBMIT DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE.

(See other instructions on reverse side) Form approved. Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

LC-070678-A

WELL CO	MPLETION	OR REC	OMPLI	etion r	REPORT	AND	LOG*	6. IF INDIAN	, ALLOT	TIEE OR TRIBE NAME
1s. TYPE OF WEL	L: OII. WEI	L GAS	LL 🛛	DRY	Other			7. UNIT AGR	EEMENT	NAME
b. TYPE OF COMP				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	RE	ここ	11 / -	- : : .		
WELL X	WORK DEE			DIFF.	Other		:	S. FARM OR	LEASE	NAME
2. NAME OF OPERATO				1. 1. 1.	· ·	F.53100	J. 1913	HONDO	8 Fr	DERALLAS CO
	RODUCTION	COMPANY	./·			- ۱۰ ۳۰ مر 	+	9. WELL NO.	,	
	, ANDREWS					٦, ٦	i, G. 	10 FIELD AS	D POOL	, OR WILDCAT
4. LOCATION OF WEL	L (Report location			_			1	KED LA	VE-	TENN_
At surface 23/	OFSL x 6	60 FW	L Scc.	E (uni	tl, NW	4 3W	4)	11. SEC T OR AREA	R., M., O	OR BLOCK AND SURVEY
At total depth	ervar reported be							8-18	<i>- 27</i>	NMPM
			14.	PEBMIT NO.		DATE 18	SUED	12. COUNTY	OR .	13. STATE
1								PARISH	,	NM
15. DATE SPUDDED	16. DATE T.D. R	EACHED 17.	DATE COMI	L. (Ready to	prod.) 1	S. ELEVA	TIONS (DF, RE	B, RT, GR, ETC.)		ELEV. CASINGHEAD
11-R-74	12-10	-70	1~	15- 75		3415	PDA	3388G-L		-
20. TOTAL DEPTH, MD		G, BACK T.D., 3		22. IF MULT	TIPLE COMPL		23. INTERVAL	S ROTARY TOO	LS	CABLE TOOLS
9418	-	9362	. '	now M	n., 1 .	1	DRILLED I	O-TI	,	No
24. PRODUCING INTER	VAL(S), OF THIS	COMPLETION-	TOP, BOTT	OM, NAME (M	ID AND TVD)				25	. WAS DIRECTIONAL SURVEY MADE
0311 2	2 25-2	110-	12.	MOR	മാധ		•	.=		/
3214-6	2, 25-3	, 70-2	. J .						l_	No
26. TIPE ELECTRIC A	ND OTHER LOGS	RUN	In	,		Λ	^	.	27. W	AS WELL CORED
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28.				ECORD (Rep		gs set in				
CASING SIZE	WEIGHT, LB.		H SET (MD) Hol	LE SIZE	_		NG RECORD	<u></u>	AMOUNT PULLED
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	1	I INDE DEC	OD D		-	1				
29.	## (14m)	LINER REC					30.	TUBING REC		
BIZE	TOP (MD)	BOTTOM (MI	SACK:	S CEMENT*	SCREEN (MD) -	SIZE	DEPTH SET (M	<u> </u>	PACKER SET (MD)
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31. PERFORATION REC	ORD (Interval. 8)	ze and numb	<u>'</u>			1 A GIV	O CHOT ED	COURT	- I	Dann Pro
			•	1100	32.		(MD)	ACTURE, CEMEN		
9314-2	2, 25-31,	40-4	5 7/2	1756	DEPTH I	· I CE I AL	(310)	AMOUNT AND KI	OF 3	MARKIAL UNED
	•						1401	de		
						<u>-</u>				
33.•				PROI	DUCTION					
DATE FIRST PRODUCT	ION PROD	UCTION METHO	DD (Flowin			e and typ	oe of pump)	WELL	STATU	s (Producing or
1-3-75	_ 1	Fi	1)	**	÷			shi	ut-in)	Shur Da
DATE OF TEST	HOURS TESTED	CHOKE		OD'N. FOR	OIL-BBL.		GAS-MCF.	202 WATER-BB	<u>.</u> 1	GAS-OIL RATIO
1/15/75	24	32/	64 T	ST PERIOD	Re		7.9 m	/ T 1		-
FLOW. TUBING PRESS.	CASING PRESSU			L-BBL.	on s	JAP.		LR—BBL.	OIL G	RAVITY-API (CORR.)
1175-1200	Pter.	24-HOUR				~/	VFL	42		- a " \
34. DISPOSITION OF G	AB (Sold, used for	fuel, vented,	etc.)	······································	JAN	9,	 U	TEST WITNE	SSED B	
To Ke	2 Sold	٠		Ų, s	ESIA, NEW	1 19	7 5		<u>.</u>	1 24 W
35. LIST OF ATTACH					TESIALOGI	ra.	3			
Vons	\geq				A, NE	VAL SIL	91/~			
36. I hereby certify	that the foregoi	and attach	ed informs	tion is comp	olete and cor	reck Ad	Aftermined fr	om all available	records	
SIGNED	sy/C	you	lan	TITLE AL	OMINISTR	RATIVE	U ASSISTAN	1T 5	JAI	N 1 7 1975
g-usgs her										
1-01/	7 *(Sq	e/Instruction	ns and Sp	paces for A	Additional	Data d	on Reverse	Side)		

ATTACHMENT VI

Well Information and Downhole Schematics

Plugged and Abandoned Wells within Area of Review Devon Energy Corporation West Red Lake Waterflood Project

Well Name: Empire ABO Unit "N" #6

Location: Section 9 -18S-27E L1980' FILL + 1980' FWL)

Operator (at time of plugging): ARCO OII + Gas Company

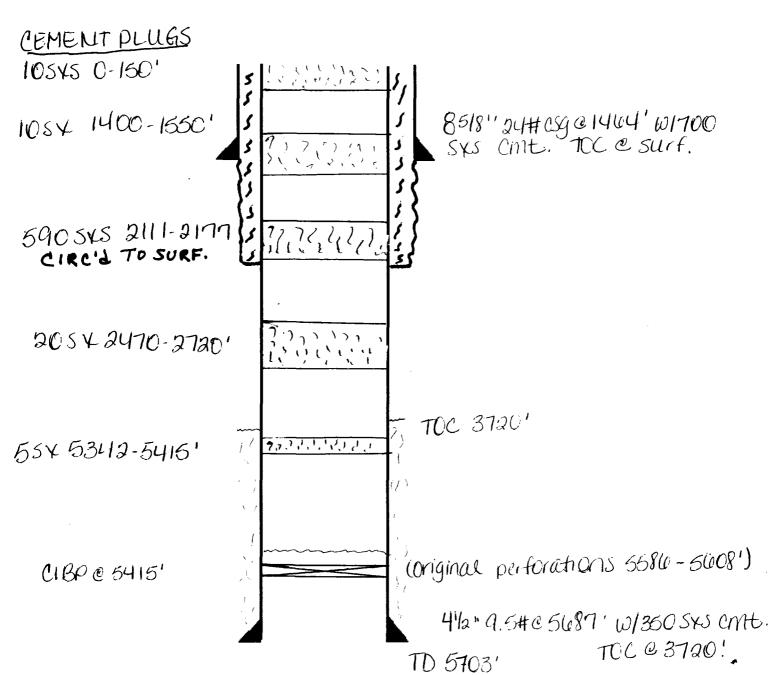
Date Plugged: 10/2/92

Information Obtained From: BLM Sundry Notice

Comments: LOCATED TOP NOVER 2177' + btm hove & 3482! Press test (59 f/surf-2176' + f/3483'-CIBPE 5415' O.K.

P-A as follows:

Downhole Schematic:



Form 3160-5 (December 1989)

RECEIVED

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

30-015-00836

FORM APPROVED Budget Bureau No. 1004-0135 -Expires September 10, 1990

5. LEASE DESIGNATION AND SERIAL NO.

NM - 031186 SUNDRY NOTICES AND REPORTS ON WELLS 6. IF INDIAN, ALLOTTEE OR TRIBE NAME Donnot use this torm ton proposals to drill or to deepen or reentry to a different reservoir. USE "APPLICATION FOR PERMIT--" for such proposals 7. IF UNIT OR CA, AGREEMENT DESIGNATION ARE: SUBMIT IN TRIPLICATE 1. TYPE OF WELL RECE . EL WELL OIL GAS WELL 8. WELL NAME AND NO. OTHER Empire Abo Unit "N" 2. NAME OF OPERATOR 9. API WELL NO. ARCO Oil & Gas Company 30-015-00836 3. ADDRESS AND TELEPHONE NO. 10. FIELD AND POOL, OR EXPLORATORY AREA (915) 688-5672 P.O. Box 1610, Midland, TX 79702 Empire Abo 4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description) 11. COUNTY OR PARISH, STATE 1980 FNL & 1980 FWL (Unit Letter F) 9-18S-27E Eddv 12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION CHANGE OF PLANS **ABANDONMENT** NOTICE OF INTENT NEW CONSTRUCTION T RECOMPLETION PLUGGING BACK NON-ROUTINE FRACTURING SUBSEQUENT REPORT ☐ WATER SHUT-OFF CASING REPAIR ALTERING CASING CONVERSION TO INJECTION FINAL ABANDONMENT NOTICE ☐ Other (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-1-92 RUPU. Locate top hole at 2177 & bttm hole at 3682. Press test csq f/surf - 2176 & f/3683 - CIBP at 5415. o.k. P&A'd as follows: Post ID-2

Plug	Interval	<u>Cmt</u>	Remarks $1-12-93$
1	5342-5415	5 sx	Spot on top of CIBP at 5415'. Displace hole w 10# MLF (25# salt gel/bbl).
2	3735-3880	10 sx	Spot
3	2470-2720	20. sx	Spot
4	2111-2177	590 sx	Holes at 2177'. CR at 2146'. Circ cmt out 8-5/8 x 4-1/2. Dmp 35' cmt on top of CR.
5	1400-1550	10 sx	Spot
6	0-150	10 sx	Spot. Cut off well head & installed Dry hole marker.

P & A'd 10-2-92

Approvid:	.~ ~	7.0	7	~	•	- '
Listin, e	٠,٠,	: :				

		Liabita, arman na	
14.	- 20.00, 00.12, —		
	SIGNED Zen W Gosnell	TITLE Regulatory Coordinator	DATE 12-21-92
	APPROVED BY CONDITIONS FOR APPROVAL, IF ANY:	TITLE	date/~6~93

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingsy and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Gravity, °Bé.42.8

emulsion;% water; and% sediment.

10. 2,	irom 작년			. •	· · · · · · · · · · · · · · · ·			•	om		o	
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4	5703			50			Page	•	•			
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		ļ +			SH	TOO	ING R	ECOR	D			
Size		Shell use	d	Explos	ive used	1	uantity	Date			Depth clear	ned out
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Rotary	tools w	ere use	ed from .		fe		OLS US		et, and from		feet to	feet
emulsion If g	n; gas well ck press	% wat cu. ft iure, lt	er; and _ c. per 24 os. per sq	hours	sediment	EM:	Galle	ons ga ES	oducing of fluid of whi Gravity, °B6 soline per 1,00	6 42 . 0 cu. ft. c	of gas	
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PDC 11-23-62 Tomplog 11-23-62

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PJA > 10/11/85 ENGINEERING CHART

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November 1: 53) (November 1: 53) (Formerly 9: 7331) BUREAU OF AND MANAGEM	ENT-	Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO LC-054205
SUNDRY NOTICES AND REPORT (Do not use this form for proposals to drill or to deepen or p Use "APPLICATION FOR PERMIT—" for su	SON2 WELLS 8210 ing back to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS OTHER	30-015-01203	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR ARCO Oil and Gas Company Division of Atlantic Richfield Company	RECEIVED BY	8. FARM OR LEASE NAME West Red Lake Unit
P. O. Box 1710, Hobbs, New Mexico 88240 1. LOCATION OF WELL (Report location clearly and in accordance with See also space 17 below.) At surface	MAY 12 1986 any State requirements. O. C. D.	9. WELL BO. 21 10. FIELD AND POOL, OR WILDCAT Red Lake Grayburg SA
990' FNL & 2310' FEL (Unit B)	ARTESIA, OFFICE	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
14. PERMIT NO. 15 ELEVATIONS (Show whether 3400 PF	P DF, NT, GR. etc.)	8-18S-27E 12. COUNTY OR PARISH 13. STATE Eddy N.M.
16. Check Appropriate Box To Indicate	e Nature of Notice, Report, or C	Other Data
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROINSED OR COMPLETED OPERATIONS (Clearly state all pertiproposed work. If well is directionally drilled, give subsurface in nent to this work.)* 1. MIRU. NU BOP, 2. TIH w/bit to 1895'. Established pump- 3. RIH w/cmt retr, set @ 1699'. Cmtd percent on top of retr. 4. Displ csg w/9.5# brine w/25#/bbl gel, 5. Spotted 50 sx cmt 1090-535', WOC. Tag 6. Perf'd 4 holes @ 520'. Cmtd w/225 sx 7. Installed regulation dry hole marker, Well P&A eff: 10/15/85, Final Report	water shut-off FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (Note: Report results Completion or Recompl nent details, and give pertinent dates, ocations and measured and true vertics -in rate 2 BPM @ 1000# v rfs 1761-1898' w/100 sx PU to 1090', gged TOC @ 529', Cl H cmt from 520' to s Clean & level location	John for all markers and somes perti- John set @ 1699'. POH. Cl H Neat. Dumped 60'
		Pist ID-2 10-25-85 1+17
8. I hereby certify that the foreroing is true and correct SIGNED TITLE	Dist Drlg, Supv.	DATE 10/22/85
(This space for Federal or State office use) Orig: Spd. Controls. Delical APPROVED BY CONDITIONS OF APPROVAL, IF ANY:		DATE 5-7.86

*See Instructions on Reverse Side

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DEVON ENGINEERING CHART PER 10/15/85

SHEET NO.	OF
FILE	
DATE 10/29/92	
BY LS Powell	

SUBJECT: WRLU#20 (Malco Ref. Mere-Jrc. - Gant "A" +2)

PO. Fresh 4 Wire 500' 10/85 10C 51/2"string @ 550' 85/8 24# 5-55@ 925 (temperature SURVEY)
9/13/57 cmt/d w/330 saks cix to suffer Top of contan CR@ 1570! CRO 0/429' 1683' (6 short) (17021-1712 (aashot) (1760' (6 shots) 1779' (654ct) PBTOO!1782 5 1/2" 14# J 55 @ 1790' computed W/225 Sacks TD 1793'

INC. SUNDRY NOTICES AND REPORTS ON WELLS (Vantor-Eigh one Corporation of Old or to derive or plus back to al. different reservoir.) Out. Seal. Ornes Nation of Ortelation ARCO 011 and Gas Company Division of Atlantic Richifield Company Vision of Atlantic Ric	r merb seu a D	EPARTMEN OF THE			į į	IGNATION AND BEEIAL S
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P. O. Box 1710, Hobbs, New Mexico 88240 Interview or with Report location clearly and in accordance with any State requirements. 1930' FNL & 1650' FWL (Unit F) Red Lake Grbg 11 SECULAR AND POOL OF REAL WASHINGTON FOR A CONTROL OF THE POOL OF		THE RECHETCE OF	mpany ,	_ <u>F_F</u>		d Lake Unit
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Red Lake Grbg 1930' FNL & 1650' FWL (UNit F) TERMIT NO	LOCATION OF WELL (Repor	t location clearly and in accor	dance with any S	tate requirements.	:. <u>-</u>	POOL OF WILDCAT
Relation to the properties of the plant of t	At surface	•		- C C C C C C C C	Red Lak	ce Grbg SA
Check Appropriate Box To Indicate Notice, Report, or Other Data Check Appropriate Box To Indicate Notice, Report, or Other Data Notice of Interview To	1930' FNL & 1650	O' FWL (UNIt F)			BURYET	OR ARMA
Check Appropriate Box To Indicate Notice, Report, or Other Data **ROTICE OF INTERVIOR TO: **TEST WATER BRUT-OFF** **PARTIES THEAT** **PILL OR ALTER CISING** **PILL OR ALTER CISING** **PARTIES THEAT** **SHILLTPLE COMPLETE** **ALARMOON** **CHANGE PLANY* **COMPLETE COMPLETE** **CHANGE PLANY* **CHANGE PLANY* **COMPLETE COMPLETE** **SHOUTH OF A ALTERIA COMPLETE** **CHANGE PLANY* **COMPLETE** **CHANGE PLANY* **COMPLETE COMPLETE** **CHANGE PLANY* **COMPLETE COMPLETE** **CHANGE PLANY* **COMPLETE PLANY* **COMPLETE** **CHANGE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE** **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE** **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE** **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE** **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE PLANY* **COMPLETE** **COMPLETE PLANY* **COMPLETE PL	PERMIT NO.	i		IT, GR. etc.)	_ 1 _	
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TITLE Dist Drlg Supv. (This space for Federal or State office use) Crig. Sgd. Charles S. Levican APPROVED BY CONDITIONS OF APPROVAL, IF: ANY: 301						
SIGNED TITLE Dist Drlg Supv. (This space for Federal or State office use) APPROVED BY						* :
SIGNED TITLE Dist Drlg Supv. (This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY 1501						• '
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TITLE Dist Drlg Supv. (This space for Federal or State office use) Crig. Sgd. Christo S. Lovien APPROVED BY CONDITIONS OF APPROVAL, SIF ANY (30)						
APPROVED BY CONDITIONS OF APPROVALUE ANTI-GOT	I hereby certify that the	foregoing is true and correct	TITLE D	ist Drlg Supv.	DATE _	10/22/85
CONDITIONS OF APPROVALUE ANTICON						T 2 11
CONDITIONS OF APPROVAL, ID: ANT. (30)	APPROVED BY		TITLE		DATE	3-106
	CONDITIONS OF APPRO	VALUET ANTHUS				
					12	ist In-2
	•				, ,	 11. 15-25
*See Instructions on Reverse Side	•	•\$.	e Instructions	on Reverse Side		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UCT 7 1957 U. S. LAND OFFICE LAS Cruces, N.M. SERIAL NUMBER LC 070678

LEASE OR PERMIT TO PROSPECT

ARTESIA OUTICE

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LO	CATE WE	LL CC	RRECTLY	•								
Compa	ny Ka	leo	Refiner	ies, In	c.		Addr	ess	P. 0. Box	660, Ro	evell,	New Mexico
Lessor	or Trace	t Wal	ter H.	Gent "A	H	<u>:</u> .	Field	Re	d lake	Stat	eNew	Mexico
Well N	Го. 2 .	S	Sec. 8'	г. 185 . R	27E	Aeridi:	an J.	M. I	P. M. Co	unty	Eddy	
Location	on 193 0	ft.	$\left. \begin{array}{c} \blacksquare \\ \mathbf{S} \end{array} \right\}$ of $\left. \begin{array}{c} \blacksquare \end{array} \right]$	Line a	nd 1650	ft. E	; of W .	Li	ne of Sec. 8	<u> </u>	Elev	ation 3369
T	he inform	natio	n given h		a com	plete a record	and corr	ect re	ecord of the v			· · · · · · · · · · · · · · · · · · ·
Date .	Bepten	ber_	26, 195	7			9: 1	. MC	Title Dr.	g. and	Prod.	Sup't.
T	ne summ	ary o	n this pa	ge is for t	he cond	lition (of the w	ell at	above date.			
Comm	enced dr	illing	Septe	mber 1,	,	19.57	Z. Fini	shed	drilling Septe	mber 1	3,	, 19. 57
				OI	L OR		SANDS te gas by (ZONES			
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					C	ASING	G RECO	RD				
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Size	Where	et	Numbe	er sacks of ce	ment	M	ethod used		Mud gravity	Ar	nount of n	aud used
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5-1/2	1790.2	5		225		Pump	and p	ug			·	
	. .					Len Size						
Size	SI	nell use	đ	Explosive us	ed	Quar	itity	Date	Depth shot		Depth clear	ned out
					feet	to	i	. feet	and from			
Septem	ber 1.			, 19 57	(spud	date) Put to	pro	ducing Se pte	mber 21	.	, 19-57-
									f fluid of whi			

lsion; ______% water; and _____% sediment. Gravity, °Bé. ______ If gas well cu. ft. per 24 hours ______ Gallons gasoline per 1.000 cu. ft. of gas

Gravity, °Bé.

emulsion; __ _ % water; and ____ % sediment.

P&A 10/12/85

DEVON ENGINEERING CHART

SHEET NO.

SUBJECT: WRLU # 22 (originally Julian Simon - Compton # 3

DATE 10/30/92 BY LS Powell

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DEPARTMEN DEPARTMEN DEPARTMENT TO THE BUREAU OF LAND	HE INTER	30-05-083	LC 054205	
SUNDRY NOTICES AND (1) not use this form for proposals to drill or to use "APPLICATION FOR PER	deenen or Diviz	back to a different reservoir	6 IF INDIAN, ALLOTTE	E OR TRIBE NAME
OIL X GAS OTREE	/		7. UNIT AGREEMENT N	8KA
2. NAME OF OPERATOR ARCO OIL and Gas Co	ompany /	HONON N	8. PARM OR LEASE NA	MB
Division of Atlantic Richfield C	Company		West Red La	ke Unit
P. O. Box 1710, Hobbs, New Mexic	so 88240 M	AY 12 1986	22	
4. LOCATION OF WELL (Report location clearly and in acc See also space 17 below.)		State requirements.*	10. FIELD AND FOOL	
986' FNL & 1648' FEL (Unit B)		ETTESIA, OTTICE	Red Lake Gra	BLE. AND
			8-18S-27E	
14. PERMIT NO. 15. ELEVATIONS	S (Show whether D	P, RT, GR. etc.)	12. COUNTY OR PARISI	13. STATE
<u> </u>	Jnknown		Eddy	N.M.
16 Check Appropriate Box	x To Indicate P	Nature of Notice, Report, o	r Other Data	
NOTICE OF INTENTION TO:		8088	EQUENT EBPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER C	\81NG	WATER SHUT-OFF	REPAIRING	WELL
PRACTURE TREAT MULTIPLE COMPIL	ETE	PRACTUSE TREATMENT	ALTERING (1 7
SHOOT OR ACIDIZE ABANDON® REPAIR WELL CHANGE PLANS	<u> </u>	SBOOTING OR ACIDIZING (Other)	i ABANDON MI	AT A
REPAIR WELL . ! CHANGE PLANS		(Norm: Report rest	ults of multiple completion appletion Report and Log for	on Well
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly proposed work. If well is directionally drilled, government to this work.)	y state all pertine ve subsurface loca	at details, and give pertinent da	tes, including estimated da	te of starting any
2. TIH w/csg scraper to 1033'. Hole in 5½" csg @ surface, P@ 3. RIH w/2-7/8" tbg OE, tagged @ sx cmt. ND BOP. 4. PU on 5½" csg & parted. POH 5. RIH w/2-7/8" tbg OE, tagged @ 6. Cmtd 1108' to surface w/200 7. Installed regulation dry hol Well P&A eff: 10/12/85. Fi	W/20 jts 5 cmt @ 1108' sx C1 H Nea e marker, c nal Report	spotted 50 sx C1 H N '' csg. '. at cmt. cleaned & levelled 1	eat cmt, PU to 1	091'. RO 19
SIGNED DD. Wetterne	TITLE	Dist Drlg Supv.	DATE10/2	23/85
(This space for Federal or State office ase) Orig. Sqd., Checker Con APPROVED BY CONDITIONS OF APPROVALUES AND: GOT	TITLE		DATE _5-	7-56
·	*See Instruction	ns on Reverse Side	Pes 11	T ID-1 -3-85

Form 9-330	Form 9-336										
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U. S. LAND OFFICE LAS Cruces
SERIAL NUMBER 054205
LEASE OF PROMINER TO PROSPECT

UNITED STATES 30-015-00832

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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Vell N	lo. #3	Sec. §	T. 188	R. 27E	Meridian .	N.M.	P.M. Co	unty	Eddy		
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eldetr	reked o	ior the r-loft in	no well, g	iis results. Valta sixe i	10 28 e w	re Sate	h Pao	leuse state in de Fea ll TD : Mile on digital and Mile	Casing	c, pesitio	any casing wa
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ATTACHMENT VI PLA WELLS WITHIN AREA OF REVIEW DEVON ENERGY CORP. WEST RED LAKE WATERFIOOL PROJECT

COMPTON #4

990, ESCA 660, FEL Sec. 4-T185-R27E 5 SX CMT 10" CSG @ 602' PIUG @ 580' (NO RECORD OF CMT JOB) 8" CSG@ 1081' (NO RECORD OF CMT JOK) 5 SX CMTPIUS @ 1250' 155x CMTG1UGE 1300° CMT PLUG @ 2000. 5555 TO @ 2505'

13.38. (A.S.) (A

National Brand

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

U.S. Land Office	Lis	<u>Dau</u> J	ES
LEASE			
Serial Number 0268			
Lease or Permit			

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY
(INDICATE ABOVE BY C	HECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)
	12/8/333. , 192
Following is a notice of intention freport of work of	n to go wood on land under hermit described as follows:
New Merico	County or Subdivision) (County or Subdivision) (Field)
(State of Territory)	(County or Subdivision) (Field)
Well No. 4 ST	<u>-5 13S 27E N.K.P.H.</u>
(1/4 Sec. and	(Courty of Subdivision) -5 135 271 N. I. P. I. Sec. No.) (Twp.) (Range) (Meridian)
The well is located 990 ft. $\binom{N}{S}$ of $$	S line and 360 ft. $\{W\}$ of X line of sec. 5
The elevation of the derrick floor above	sea level is ft.
DET	AILS OF PLAN OF WORK
7D2505	ow sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)
Well was cemented and cement bridge was made old, so was cemented again ob. Then the 6-5/8 casing that point and again cementalled from the well and if coment was placed at the	t 2000 It. then filled with mud to 1300 Ft. with III 10 sacks of cement and did not with 13 sacks of cement, this time was a go was raised to 1250 and a bridge was made at a ted with 5 sacks of cement, then casing was note filled with mud to 580 Ft. and five sack and depth. If filled to surface with mud and cer cemented in ground and allowed to raise
nspected by T. G. Taylor on De	scember 13, 1983.
Approved December 13, 1933.	Company BITomphow coil and
Supervisor Oil & Gas Charat	2
Title By T. G. Taylor, Engage GEOLOGICAL	Title Leader
Address Roswell, New Mexico.	Address FFILE SEA ST WIT
NOTE Reports on this form to be submitted in triple	icals to the Supervisor for approval. Gyravent parties office 6-7053

1	orm.	9-331a
()	(Feb.,	1926)

DEPARTMENT OF THE INTERIOR

U. S. I	and	O5600	LAS_	CRUCES
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026874 LEASE

NOTICE OF INTENTION TO DRILL	SUESEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY
(INDICATE ABOVE BY CHECK	RK NATURE OF REPORT, NOTICE, OR OTHER DATA)
	NOVEMBER 30 , 192
Following is a notice of intention to	o work on land under lease described as follows:
NEW MEXICO	EDDY COMPTON
(State or Territory)	(County or Subdivision) (Field)
'ell No. 4 SESE (1/4 Sec. and Sec. 1	
he well is located 990 ft. $\begin{bmatrix} N \\ X \end{bmatrix}$ of S	ne and $.660$.ft. $\left[egin{array}{c} \mathbb{E} \ \mathbb{W} \end{array} ight]$ of \mathbb{E} line of sec. \mathbb{E}
he elevation of the derrick floor above sea	vel is ft.
DETAIL	OF PLAN OF WORK
ate names of and expected depths to objective sands; show size all ot	weights, and lengths of proposed casings; indicate mudding jobs, cementing points, a important proposed work.)
Well was drilled to 1277 Expect to drill 50% fore to shut off water, then do to 2100'	and bottom water was encountered. nole then underrim the 6-5/8 casing, ill on to production at about 1800

Approved November 3, 1953. See conditions	Company R.D.Compton Oil Co.Inc.
Approved November 5, 1955. See conditions on reverse sigl.	By AD Complow
Title Supervisor GEOLOGICAL SURVEY	Title President.
Address	Address

LAS CRUCE

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Serial Number 026874 - a.
LEASE

1111 7 1932

SUNDRY NOTICES AND REPORTS ON WELLS

OTICE OF INTENTION TO DRILL. OTICE OF INTENTION TO CHANGE OTICE OF DATE FOR TEST OF WA EPORT ON RESULT OF TEST OF WA OTICE OF INTENTION TO RE-DRILL OTICE OF INTENTION TO SHOOT	TER SHUT-OFFATER SHUT-OFF	RECORD OF PERFORA NOTICE OF INTENTION NOTICE OF INTENTION SUBSECUENT REPORT	OF SHOOTING TING CASING TO PULL OR OTHERW TO ABANDON WELL OF ABANDONMENT L HISTORY	ISE ALTER CASING
(INDIC	ATE ABOVE BY CHECK MARK N		AARCH 7	1933
	ce of intention to do w	on land under	pemili describe	ed as follows:
NEW MEXICO (State or Territory) 11 No. 4	(C) (Soc. and Sec. No.)	County or Subdivision) 18S, (Twp.)	27E. (Range)	(Field) N. M. P. M. (Meridian)
e well is located90	• •	• •	of B line of	sec. <u>5.</u>
e elevation of the derrick	DETAILS OF	PLAN OF WOR		ng jobe, cementing points, s
	ED FOR A WATER ET AND MUDDED ON. TO PRODUCTI AL PRODUCTION O 2290'. ED OUT FROM WA	ATT THAT DEE SHINGUON FEB	' 1210'HOLE 1260' PTH, WILL G	DRY. ET NEXT

Approved March 7, 1932	Company E.D. COMPTON OIL CO. INC.
J. Steele Hill	By Danislan
Title Deputy Supervisor GEOLOGICAL SURVEY	Title PRESIDENT
Address Roswell, New Eexico	Address
NOTE D All C 1 1 to 11 And House de Consult	f

NEW MEXICO SCHOOL OF MINES STATE BUREAU OF MINES AND MINERAL RESOURCES

SOCORRO, NEW MEXICO

NEW MEXICO WELL LOG DIVISION

Casing Record: New Mexico 10" Eddy County 602 811 1081 R. D. Compton (Old Well Deepened.)
Brainard Well #4 5 5/8"-1287 Sec. 5 T.18S R.27E 990' S-L & 660' E-L, I. P. Elevation: 3492 L-S P. & A. 32 Bbls. of fluid, Commenced: 7-27-31 40% water Completed: 12-4-33

White gravel 12 Gypsum and brown shale 35 Red beds 45 Gypsum and red beds 90 Blue shale 50 Gypsum and red beds 90 Red beds 80 Gray sand 1 bailer water per 67 Gypsum 135 Gray brown shale increase water 93 92 Red beds 150 Gypsum and brown shale 94 Gypsum 195 Sandy brown shale 95 Gypsum 220 Red sand 101 Gypsum and blue shale 300 Limestone 102 Gypsum 325 White shale (2 bailers artesian water) 103 Brown shale and gypsum 350 Gray lime 106 Brown shale and gypsum 350 Gray lime 106 Gypsum 415 Gray lime 106 Gypsum 425 Brown lime 106 Gypsum 425 Brown lime 117 Gypsum 450 Gray lime sandy 121 Gypsum and brown shale	Formation	Bottom	Formation	Bottom
White gravel 12 Gypsum and brown shale 35 87 87 87 87 87 87 87 8	Soil	7	Gynsum	800
Second	White gravel			835
Second S	Red beds	45		870
Section	Blue shale			900
Gypsum 130 hours 900-23 923 Red beds 135 Gray brown shale increase water 93 Brown shale 150 Gypsum and brown shale 94 Gypsum 195 Sandy blue shale 95 Gypsum and blue shale 200 Sandy brown shale 99 Gypsum and blue shale 300 Limestone 102 Gypsum and blue shale 340 water) 103 Brown shale and gypsum 350 Gray lime 106 Brown shale and gypsum 350 Gray lime 106 Brown shale and gypsum 350 Gray lime 106 Gypsum 425 Brown lime 106 Gypsum 425 Gray lime hard 107 Gypsum 425 Dry sand 117 Gypsum and blue shale 450 Sandy brown lime 1128 Gypsum and brown shale 465 Gray lime sandy 121 Gypsum and brown shale 496 Gray lime 127 Gypsum 60	Red beds	80		
Second		130		923
Brown shale	Red beds	135		
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Shale little water 200 Sandy brown shale 990 Gypsum 220 Red sand 1018 Gypsum and blue shale 300 Limestone 1026 Gypsum 325 White shale (2 bailers artesian Blue shale 340 water) 1034 Brown shale and gypsum 350 Gray lime 1066 Brown shale and gypsum 350 Gray lime 1066 Gypsum 415 Gray lime 1066 Gypsum 425 Gray lime hard 1070 Gypsum 425 Gray lime hard 1070 Gypsum 425 Gray lime 1174 Gypsum and blue shale 465 Gray lime 1182 Gypsum and brown shale 470 Hard gray lime 1220 Gypsum and red beds 515 Dry sand 1276 Gypsum 610 Gray lime 1277 Hard gypsum 610 Gray lime 1278 Gypsum 615 Sandy lime water 77-78 7	Gypsum	195		951
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Gypsum and red beds 590 Gray lime 1274 Hard gypsum 610 0il sand 1277 Gypsum 615 Sandy lime water 77-78 1278 Red beds 635 Plugged back 1277 with 75 1278 Gypsum 690 pounds lead wool. 1278-1300 Red sand 705 Blank no record 1278-1300 Gypsum and brown shale 725 White lime 1300-1365 Gray gypsum and shale 755 Gray lime 1372 Gray shale 765 Brown lime 1372 Gray shale 773 Gray lime 1380 Gypsum 790 White lime 1435	Gypsum		Hard gray lime	1270
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Red beds 635 Plugged back 1277 with 75 Gypsum 690 pounds lead wool. 1278 Red sand 705 Blank no record 1278-1300 Gypsum and brown shale 725 White lime 1300-1365 Gray gypsum and shale 755 Gray lime 1366 Gray shale 765 Brown lime 1372 Gray shale 773 Gray lime 1380 Gypsum 790 White lime 1435	Hard gypsum			1277
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Gray shale 773 Gray lime 1380 Gypsum 790 White lime 1435				
Gypsum 790 White lime 1435				
Brown shale 793 White lime shells 1446				
	Brown shale	793	White lime shells	1446

NEW MEXICO SCHOOL OF MINES STATE BUREAU OF MINES AND MINERAL RESOURCES

SOCORRO, NEW MEXICO

NEW MEXICO WELL LOG DIVISION

R. D. Compton (Old Well Deepened.) Brainard #4

Formation	Bottom	Formation		Bottom	
White lime	1460	Sharp brown lime		2110	
Gray lime	1480	Gray lime		2145	
Brown lime shells 1503-05	1505			2197	
White lime	1512			2238	
White lime	1527			229 3	
Gray lime, 39 white, 54 gray		Brown lime, dark		2354	
lime, 62 gray and white li		Brown and gray lime		2362	
72 gray lime, 94 brown lin		Brown lime		2398	
little gas, 1594-99	1537	Gray lime, dark		2464	
Gray lime	1599	Brown lime, dark		2498	
Brown lime show of oil 1605	1618		T. D.	2505	
Dark brown lime	1623	•			
Brown lime	1635				
Hard brown lime	1638				
Brown and gray lime	1650				
Brown lime	1760				
Dark brown lime short shell:					
1710	1715			•	
Brown lime	1738				
Sandy brown lime	1752				
Brown lime	1803				
Brown sandy lime	1885				
Gray lime	1892				
Brown lime	1908	·			
Brown lime, little sand, she					
oil 1908	1912				
Brown lime increase oil					
1912-21	1932				
Gray lime	1948				
Brown lime	1951				
Gray lime	1973				
Light gray lime	1981	•			
Gray lime, 2 bailer salt wa	ter				
per hour	2011				
Yellow lime	2030				
Brown lime	2035				_
Brown gray lime	2042				
Brown lime	2054				
Gray lime	2059				
Brown lime	2064			•	
Light brown lime .	2076				
Brown lime	2090				
Brown sandy lime	2091				
Gray sandy lime	2101				
Descripe limo	27.04				

2104

Brown lime

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------General Information -------Final Status : NMEX : D&AW State : EDDY Total Depth : 2500 County Spud Date YYYYMMDD: 19330215 Field : Operator Name : COMPTON R D
Well Number : 4 Comp Date YYYYMMDD: 19330629 Hole Direction : VERTICAL Lease Name : BRAINARD
API Number : 30015007830001 Section or Equiv : SEC 5 Init Lahee Class : D D Township : S018 Final Lahee Class: D Permit Number : Range : E027 Spot Elevation : 00000 () Base Meridian : NEW MEXICO (21) Geologic Province: PERMIAN BASIN Formation at TD : Oldest Age Pen : Producing Formation: ------ Additional Location Information ------------Footage Location : 990FSL 660FEL SEC LN Location Narrative: Latitude : 32.77213 Latitude (Bot) : Longitude : 104.29338 Longitude (Bot) : Latitude & Longitude Source: USGS Hydrostatic Flowing Shut In Open Cush Top Base Init. Final Init. Final Init. Final Time Amt Test Type Form 0001 DST 2006 2011 1H Pipe Recovery Test Amount Unit Desc Amount Unit Desc Amount Unit Desc 0001 Meas True Vert Closure N/S E/W Depth Depth Ft Deg Min Footage State County Code Code ----- Actual Bottom Hole Narrative ------

Date Remarks

ATTACHMENT VI

Well Information and Downhole Schematics Plugged and Abandoned Wells within Area of Review Devon Energy Corporation West Red Lake Waterflood Project

Well Name: Brainard # 1

Location: Section 5 -18S-27E (330 'FSL + 1450 FEL)

Operator (at time of plugging): AW Adkinson

Date Plugged: (4/32

Information Obtained From: Sout Report (nm), PI CD ROM

Spud 9-27-32. Csg set closs' and 1036!
NO cmt volumes given. NO plugging info
available. See Attached. (Drilled + Abandoned
well) No BLA Report Available

Downhole Schematic:

3449

(NO CMT REPORT AVAILABLE)

Well No.

E.

Initial Production

County Eddy

Method Cable
Scout

SCOUT REPORT

OIL CONSERVATION COMMISSION

N	<u>. </u>	Company a w Adda a R A D
		Company A W Adkisson Oul Mi
		Farm Name Brainard
		Land Classification Government
		Sec. 5 Twp. 18 Range 27
 - - -	m	Feet from Line: N. 330 S. 1650
<u> </u>		Elevation 3469
		Contractor
		Spudded 9-27-32 Completed Ini
		Bond Status
Amount		RECORD
	Amount	Amount ACID

		ount	_	ACID RECORD		TA
Casing	and Cer	nenting l	Record			TX
BIZE	PEET	INCHES	BAX CEMENT	Gals.		— вх
10 3/4	625		Mud			- TRS
83	.036		Set			ТҮ
		<u></u>				TBL
				Top Pay	TD	TWL
					SHOOTING REC	ORD
		<u> </u>	<u> </u>	No. of Quarts	From	
	Tubing	Record				

	No. of Quarts	From	То	
Tubing Record	No. of Quarts	From	То	
	S/	S/	S/	
Packer	S/	S/	8/	

DATE		DATE
7-19-3	8 Location	11-21 T.D. 979 BB
7-26	*	S.D. Orders
8-2		11-29 S D Orders 979 RB
8-9	•	12-18 Ø 1042 L
8-16	*	Ø 1238 S
8-23	60	S/o 1238
8-30	•	12-20 Tstg pmps. S D 1242
9-7	*	12-28 1250 L tstg - pmpd 5 BO &
9-12	•	IB Shut wir may deepen
9-19		S D O
9-26		1=4=39
10-4		1-10
10-11	ø 240 Cal	1-17
10-18	No report	1-24 Ø 1254 L
10-25	T.D. 625 RB	1=31 Ø 1365 L
	S D Orders	2-7 T.D. 1370 L
11-1		S D Orders
11-8		2-14 Ø 1366 A & L
11-15	T.D. 922 R & G	2-21 Ø 1400 L
	8" @ 906	2-28 Ø 1438 A & L
	Prep to Underream	

ŁOG

3-7 9			· f	Depth	Formation
	T.D. 1442 L	<u> </u>			
	8 D Orders	.::	1 : :		
3-14	T.D. 1442 L	<u> </u>			
0=14	S D Orders				
- 03	S D Orders			†	
3-21	Ø 1642 Br L			·	
3-28		<u> </u>		<u> </u>	
	39/G 1563 T.D. 1650 Br L		-		
4-4			 		
	S D Orders		 	-	
4-11		 			
4-18	d 2027 1		*****		
4-25	Ø 1913 L		<u> </u>		
5-3	T.D. 2002 L				
	SWATD	<u>-</u>	· · · · · · · · · · · · · · · · · · ·		
	S.D Orders	-			
5-10					
5-16					
5-24		•	·		
3-31	No report				
-7			\$ 15 m		
8-14	T.D. 2002 L				
	W O Orders				
7	To plug				
-21	T D 2002 L		·		
	PAA			-	
	•				*
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----- General Information

: NMEX Final Status : D&A-OG Total Depth : 2002 State County : EDDY

Field : ARTESIA
Operator Name : ADKISSON A W
Well Number : 1
Lease Name : BRAINARD
API Number : 30015007770000 Spud Date YYYYMMDD: 19380927 Comp Date YYYYMMDD: 19390621 Hole Direction : VERTICAL

Section or Equiv : SEC 5 Init Lahee Class : D Township : S018
Range : E027
Spot : Final Lahee Class: D

Permit Number :

Elevation : 00000 ()

Base Meridian : NEW MEXICO (21) Geologic Province: PERMIAN BASIN

Formation at TD : Oldest Age Pen :

Producing Formation:

----- Additional Location Information -------

Footage Location : 330FSL 1650FEL SEC LN

Location Narrative:

Latitude : 32.77034 Latitude (Bot) : Longitude (Bot) : Longitude: 104.29657

Latitude & Longitude Source: USGS

------ Production Tests -------

Test Form	Top	Base	Oil Rate	Gas Rate	Wtr Rate	FTP	BHP Ck M	BHT
0001	1242	1242	4 BO		5 BW		P	
0002	1249	1250	5 BO		1 BW		P	
0003	2002	2002			1 UW		В	

Hydrostatic Flowing Shut In Open Cush Top Base Init. Final Init. Final Init. Final Time Amt 1239 1240 Test Type Form

0001 DST 0002 DST 1248 1248 24H

0003 DST 1248 1248

Pipe Recovery Test Amount Unit Desc Amount Unit Desc Amount Unit Desc

0001 1 BBL ZW

0002 1 BBL ZW

0003 1 BBL ZW

			Casing Da	ta			
		Size 10 3/4 8 1/4		Cement			
	A	ctual Bottom H	ole From :	Surface Location	on		
		Closure Ft Deg Min			State Code	County Code	
		Actual :	Bottom Ho	le Narrative -			· -
		Dri	lling Nar	rative			
Date	Remarks						

ATTACHMENT VI

Well Information and Downhole Schematics Plugged and Abandoned Wells within Area of Review **Devon Energy Corporation** West Red Lake Waterflood Project

Well Name: Brainard # U

Location: Section 5 -18S-27E (UUO' FSL + 330' FEL)

Operator (at time of plugging): RD Compton

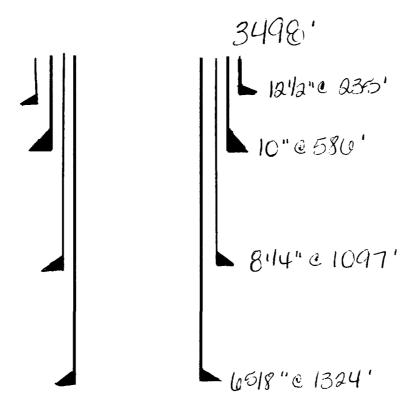
Date Plugged: 7/34

Information Obtained From: School of mines - Well log Div, PI Report

Comments:

Soud 1-93-34. Well was an Hed and abandoned. No plugging record available. (See attached reports)

Downhole Schematic:



NEW MEXICO SCHOOL OF MINES

30-015-00754

STATE BUREAU OF MINES AND MINERAL RESOURCES

SOCORRO, NEW MEXICO

NEW MEXICO WELL LOG DIVISION

INITIAL DAILY PRODUCTION:

ELEVATION

Open

Open

Thg.

Tbg.

3498

FEET

bbls. Oil

bbis. Oil

cu. ft. Gas

cu. ft. Gas

CASING RECORD

Bottom

White and grey gyp

Dark gyp

Grea Sab

White gyp

2351

586

1097

1324

Diam., in.

121

6-5/8"

84

COUNTY Eddy FIELD

COMPANY R. D. Compton Brainerd LEASE

No. 6 Well LOCATION (%) E SE SE SEC. 5 . **T.** 185.R

660 feet from South line and 330 feet from 625t line of Section

COMMENCED 1-23-34

7-11-34 COMPLETED

ABANDONED

Grey and white gyp

Red bed and blue shale

White gyp

White gyp

586

590

610

588

REMARKS: D & A

FORMATION	BOTTOM, FEET	FORMATION	BOTTOM, FEE
Red bed	10	Blue shale	350
Hard white gyp	15	Grey gyp	360
Red bed	25	Red bed	365
White gyp	30	Grey gyp	375
Red bed	35	Hard grey gyp	380
White gyp	40	Hard grey gyp White gyp, SO. 85-90'	385
Red bed	45	Grey gyp and grey sandy s	
White gyp	50	- of Opp and Op of Dailey B	390
Red bed	55	White and grey gyp, soft	395
White gyp	65	White gyp	405
Red bed	70	Grey gyp	410
hite gyp	95	Brown lime, gas 15-20	415
ight grey gyp	100	Grey lime	418
led bed	105	Grey gyp	430
ard white gyp	110	Blue shale	434
rey lime	115	White gyp, soft	
rey gyp	125	Red bed	440 443
lard grey lime	130	Grey gyp	
hite gyp	140	Brown sandy lime	458
ed bed		Brown lime	465
hite gyp	145		470
TIL GO BYD	157	Grey gyp	475
yp and lime	160	Red bed and white gyp	480
hite gyp, hard	170	Red bed, grey and white gy	
hite gyp and red bed	175	Grey gyo	498
hite gyp, wtr. 160-80	190	Grey sandy lime	500
yp and red bed	195	Blue shale, 5.0.	502
hite and grey gyp	200	Grey and white gyp	508
ed bed	203	Red bed, wtr.	526
rey gyp and wtr.	210	Grey and white gyp	5 39
rey gyp	220	Grey and white gyp	5 4 5
yp and sand, sul. wtr.	225	and red bed	543
yp mud	230	Red bed	558
rey gyp	252	Red bed and blue shale	562
hite and grey gyp	2 59	Gyp and blue shale	56 5
rey gyp	270	Gyp, red bed and shale	570
hite gyp, soft	275	Grey gyp	578
rown gyp	280	Grey gyp and blue shale	580
rey gyp	295	Grey gyp	582
yp and shale	30 5	Red bed	58 4
/1-44	7.2	ITREE BROWNIES AND TO A COMMON	E0 =

327

552

340

345

NEW MEXICO SCHOOL OF MINES

STATE BUREAU OF MINES AND MINERAL RESOURCES

SOCORRO, NEW MEXICO

NEW MEXICO WELL LOG DIVISION

CASING RECORD ELEVATION

Diam., in. Bottom INITIAL DAILY PRODUCTION:

Open
Open
Tbg.

bbls. Oil
cu. ft. Gas
bbls. Oil

(Page 2)

COUNTY Eddy

FIELD

COMPANY R. D. COMPton

LEASE Brainerd No. 6 Well

LOCATION (%)

SEC. 5 T. 185 R. 27E

feet from line and

feet from line of Section

COMMENCED
COMPLETED
ABANDONED
REMARKS:

FORMATION BOT	TOM, FEET	FORMATION **	BOTTOM, FEET
Red bed	612	Сур	968
ref gyp	627	White sand and red sandy	gyp 974
ed bed	630	Pink sandy gyp	980
rey and pink gyp	63 5	Red sand	987
led bed	640	Red sand and gyp	995
brown sand, white gyp and		Red sand	1060
olue shale	647	Grey lime	1075
ed rock;	650	Brown shale	1085
	665	Pink shale	1095
hite and dark grey lime	672	Brown lime	1097
rey gyp and red bed	680	Grey.lime	1123
Prown Syp	000	Brown lime	1125
lue sandy gyp	690		1135
lue sand, 1 BWPH 690-95		Grey lime	1158
ed bed to the second of the se	700	Pink and grey lime	1169
ed bed ed sand	708	Grey lime	1181
lue sandy shale and red san		Line	1187
ed sand	718	White sand and grey lime	1193
ink gyp, inc. wtr. 720-25	725		1199
ink gyp and red sand	730		1205
rey, white, brown and		Brown sandy lime	1210
ink gyp	786	Brown lime	1222
ark brown gyp and blue shall	e 761	Grey lime	1234
rey gyp, inc. wir.		Sandy lime	1251
ed bed and blue shale	770	Grey sandy lime, skip	
rey and brown gyp	775	to 1333	1255
rown gyp hadden a made a factor	780	White lime	1333
rey and pink gyp	787	Grey lime Grey and pink lime	1351
rey lime	798	Wrey and pink lime	1369
rown and grey gyp	795	White lime	1378
rey and pink gyp	800	Light brown lime	1381
rown gyp	805	White lime, hard	1388
rey gyp	810	Light grey lime	1393
rey and pink gyp	815	White lime	1402
rey gyp and the second second	832	Grey lime	1416
rey and pink gyp	839	White lime, hard	1418
yp and red bed		Grey lime	1482
yp		Brown lime	1485
yp and red shale	896	Grey lime Grey and brown lime	1490
Tue sandy shale			1496 1510
ater sand	932	Grey lime White lime	1512
ni to sand	957	Grey lime	1512

NEW MEXICO SCHOOL OF MINES

STATE BUREAU OF MINES AND MINERAL RESOURCES

NEW MEXICO WELL LOG DIVISION

CASING RECORD

(Page 3) COUNTY Eddy

COMPANY R. D. Compton LEASE Brainerd No. 6 Well

LOCATION (%)

COMPLETED ABANDONED

Fark lime

Syer and brown lime; Seject 1800

Gray and brown lime; 1603

Dark grey lime, rainbew sil 1630

Dark grey lime, hard 1838

Brown lime

Brown lime FORMATION FORMATION Black line
Brown line
Dark line
Brown sandy line
Dark grey line
1820
Dark grey line
1820
Soft brown line
Soft brown line
1866
Hard brown line
Dark grey line; soft
Soft grey line Hard grey lime White sand Pink and grey lime 7 1275 Oil sand
Brown lime
White sandy lime
Grey and white lime

petroROM Well Report

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: NMEX Final Status : D&A-OG State Total Depth : 1931

County : EDDY
Field : ARTESIA
Operator Name : COMPTON R D
Well Number : 6
Lease Name : BRAINARD-FEDERAL A
API Number : 30015007840000 Spud Date YYYYMMDD: 19340123 Comp Date YYYYMMDD: 19340710 Hole Direction : VERTICAL

Section or Equiv : SEC 5 Init Lahee Class : D Township : S018
Range : E027
Spot : Final Lahee Class: D Permit Number :

Elevation : 00000 ()

Base Meridian : NEW MEXICO (21) Geologic Province: PERMIAN BASIN

Formation at TD : Oldest Age Pen :

Producing Formation:

------ Additional Location Information -------

Footage Location : 660FSL 330FEL SEC LN

Location Narrative:

Latitude : 32.77122 Latitude (Bot) : Longitude : 104.29229 Longitude (Bot) :

Latitude & Longitude Source: USGS

Hydrostatic Flowing Shut In Open Cush Top Base Init. Final Init. Final Init. Final Time Amt 1278 1280 Test Type Form

0001 DST 0002 DST 1820 1825

Pipe Recovery

Test Amount Unit Desc Amount Unit Desc Amount Unit Desc 0001 1 BBL O 20 BBL ZW

Material to Surface Test Amount Unit Type Time Amount Unit Type Time Amount Unit Type Time 0002 250 MCFD GAS

------ Casing Data ------

Size	Depth	Cement
12 1/2	235	
10	586	
8 1/4	1697	
6 5/8	1324	

	Ac	ctual Bottom H	Hole From Surface Lo	ocation	
Meas Depth	True Vert Depth	Closure Ft Deg Min	N/S E/W Footage	State Code	County Code
		Actual	Bottom Hole Narrati	ve	
		Dri	illing Narrative		
Date	Remarks				

z----

AHachment II

Pro-Kem, Inc.

WATER ANALYSIS REPORT

SAMPLE

: Devon Energy

: West Red Lake Unit Lease

Dissolved Gasses

Hydrogen Sulfide

Salesman:

Well No.: Free-Water Knock-Out

Sample Loc.

MG/L

275

: GVAYBURG - SAN ANDRES Formation

EQ. WT.

*MEQ/L

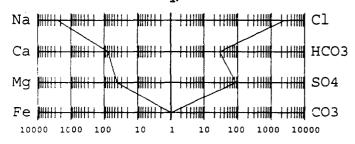
Date Analyzed: 17-June-1996

ANALYSIS

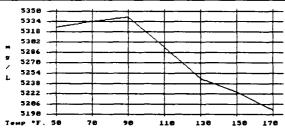
1. 2.	pH Specific Gravity CaCO ₃ Saturation	60/60	F.		1.	820 091
<u>3</u> :	CaCO ₂ Saturation	Index	@	80	F.	+0.731
-			@	140	F.	+1.611

5.	Carbon Dioxi Dissolved Ox	de rygen	Not D	200 etermined					
7. 8.	ations Calcium Magnesium Sodium Barium	(Ca++) (Mg++) (Na+) (Ba++)	(Calculated) Not D	1,503 486 55,071 etermined	//	20.1 12.2 23.0	= = =	74. 39. 2,394.	78 84 39
11. 12. 13. 14.	nions Hydroxyl	(OH-) (CO3=) (HCO3-) (SO4=) (Cl-)			/////	17.0 30.0 61.1 48.8 35.5	= = = =	0. 0. 28. 84. 2,393.	02
16	Total Dissol Total Iron Total Hardne Resistivity	ved Soli (Fe) ss As Ca @ 75 F.	ids aCO3 (Calculated)	147,854 2 5,755 0.042 /cm.		18.2			11

LOGARITHMIC WATER PATTERN *meq/L.



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION COUND EQ. WT. X *meq/L = mg/L. COMPOUND

Ca(HCO ₃) ₂	81.04	28.04	2,272
CaSO ₄	68.07	46.74	3,182
CaCl ₂	55.50	0.00	0
$Mg(HCO_3)_2$	73.17	0.00	0
MgSO ₄	60.19	37.28	2,244
${\tt MgCL}_2$	47.62	2.56	122
NaHCO3	84.00	0.00	0
NaSO ₄	71.03	0.00	0
NaCl *Milli	58.46 2, Equivalent		

s water is slightly corrosive due to the pH observed on analysis. corrosivity is increased by the content of mineral salts, and the presence of H2S, CO2 in solution.

Nº 17380

Affidavit of Publication

State of New Mexico,

County of Eddy, ss.
Amy McKay
being first duly sworn, on oath says:
That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:
November 19 , 19 96
, 19
That the cost of publication is \$\frac{39.71}{}, and that payment thereof has been made and will be assessed as court costs.
Subscribed and sworn to before me this
22nd day of November, 1996
My commission expires 08/01/98
Notary Public

November 19, 1996

Legal Advertisement

Notice is hereby given that Devon Energy Corporation (Nevada) is applying to the New Mexico Oil Conservation to convert the following wells to water injection wells:

West Red Lake #26 2340' FSL & 400' FEL *I* Section 8-18S-27E Eddy County, NM

West Red Lake #36 1630' FNL & 330' FEL "H" Section 8-18S-27E Eddy County, NM

West Red Lake #47 2310' FNL & 1510' FEL "G" Section 8-18S-27E Eddy County, NM

West Red Lake #63 1500' FNL & 850' FEL "F" Section 8-18S-27E Eddy County, NM

West Red Lake #71 710' FNL & 1650' FEL "B" Section 8-18S-27E Eddy County, NM

West Red Lake #74 1930' FNL & 2600' FEL *G* Section 8-18S-27E Eddy County, NM

The intended purpose of this well is to inject produced waters into the Grayburg/San Andres formation to enhance oil production through secondary recovery. Maximum injection rates of 1500 bwpd and a maximum pressure of 1000 psig are expected.

Interested parties must file objections or requests for hearing within 15 days to the following commission:

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Ernie Buttross District Engineer Devon Energy Corporation (Nevada) 20 North Broadway, Suite 1500 Oklahoma City, OK 73102 (405) 552-4509