DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
4/25/05	5/10/05	WVJ	4/20/05	SWD	DEM0511633442

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

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

30-025-03151

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

2005 APR 25 AM 11 54

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ 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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

David Plaisance		Vice President Exploration & Production	4/22/2005
Print or Type Name	Signature	Title	Date

dplaisance@paladinenergy.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance __X__ Disposal _____ Storage
Application qualifies for administrative approval? __X__ Yes _____ No

II. OPERATOR: Paladin Energy Corp.

ADDRESS: 10290 Monroe Dr., Dallas Texas 75229

CONTACT PARTY: David Plaisance PHONE: 214-654-0132 ext 3

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes __X__ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. 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 geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any. **5,000 gallons of 15% HCL acid if needed.**

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: David Plaisance TITLE: V.P. Exploration & Production
SIGNATURE: David Plaisance DATE: 4/22/05

E-MAIL ADDRESS: dplaisance@paladinenergy.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

PALADIN ENERGY CORP.

April 22, 2005

State of New Mexico
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RE: Application for Authorization to Inject
South Vacuum Unit 351 SWD
Sec 35, 18S, 35E
Lea County, New Mexico
API # 025-30-03150

Dear Sir/Madam,

Please find enclosed Form C-108, Application for Authorization to Inject, and all related attachments for the purpose of obtaining a permit to inject produced waters from the South Vacuum Field.

If additional information is required, please call David Plaisance or Ann Westberry at (214) 654-0132. Thank you.

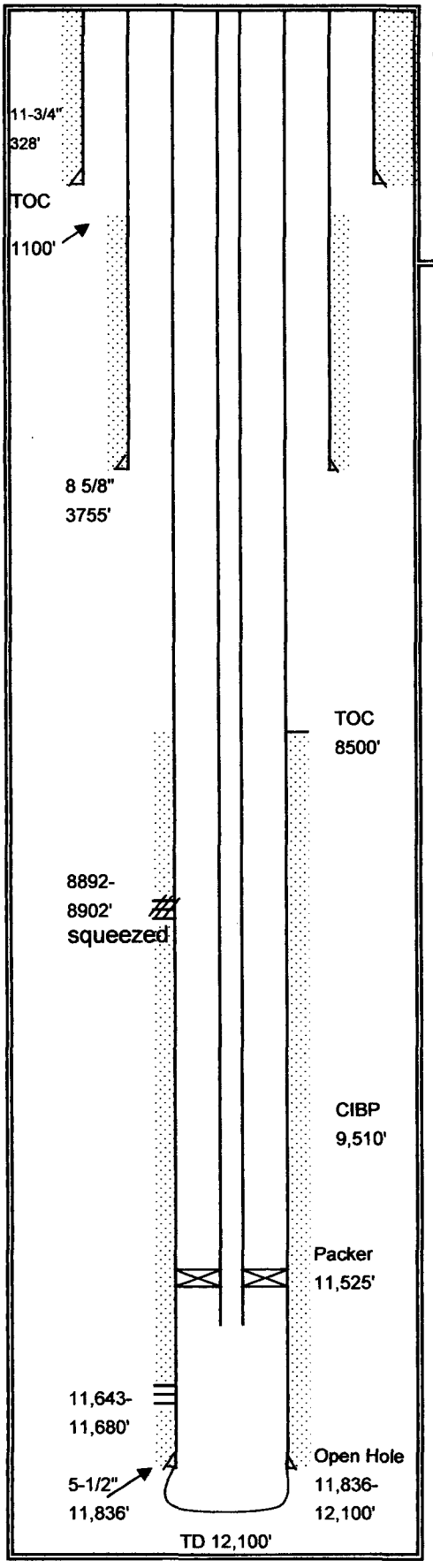
Sincerely
Paladin Energy Corp.

David Plaisance
V.P. Exploration & Production

2005 APR 25 AM 11 54

10290 MONROE DRIVE, SUITE 301 • DALLAS, TEXAS 75229
TELEPHONE: 214-654-0132 • FAX 214-654-0133

Wellbore Schematic
Proposed Completion



Lease: S. Vacuum Unit **Well:** 351 SWD API # 30-025-03150

Operator: Paladin Energy Corp.

Field:	South Vacuum	County:	Lea	State	New Mexico
Section	35	Township	18-s	Range	35-E
Elev . GL		Elev. DF	3869'	Elev. KB	
Spudded	9/8/1957	Completed	1/16/1958		

Surface Casing 11-3/4" 42# Grade
Set @ 328' Hole Size 15"
TOC surf. Sacks 350

Intermediate Casing 8-5/8" 32# Grade
Set @ 3755 Hole Size 11"
TOC 1100' Sacks 500

Production Casing 5-1/2" 17# Grade
Set @ 11,846' Hole Size 7-7/8"
TOC 8846' Sacks 340
(Bond Log)

Liner Record Grade
Top @ Bottom @
Screen Hole Size
TOC Sacks

Tubing Detail 3-1/2" Plastic Coated - 9.3# Grade/Trd.
Pkr. Set @ 11,525 EOT 11,535'
Nipples
Anchors Rods

Perforation Record
Devonian - 11,643-680'
Open hole - 11,836-12,100'

Proposed Completion 4/1/2005

Prepared By: David Plaisance
Date:

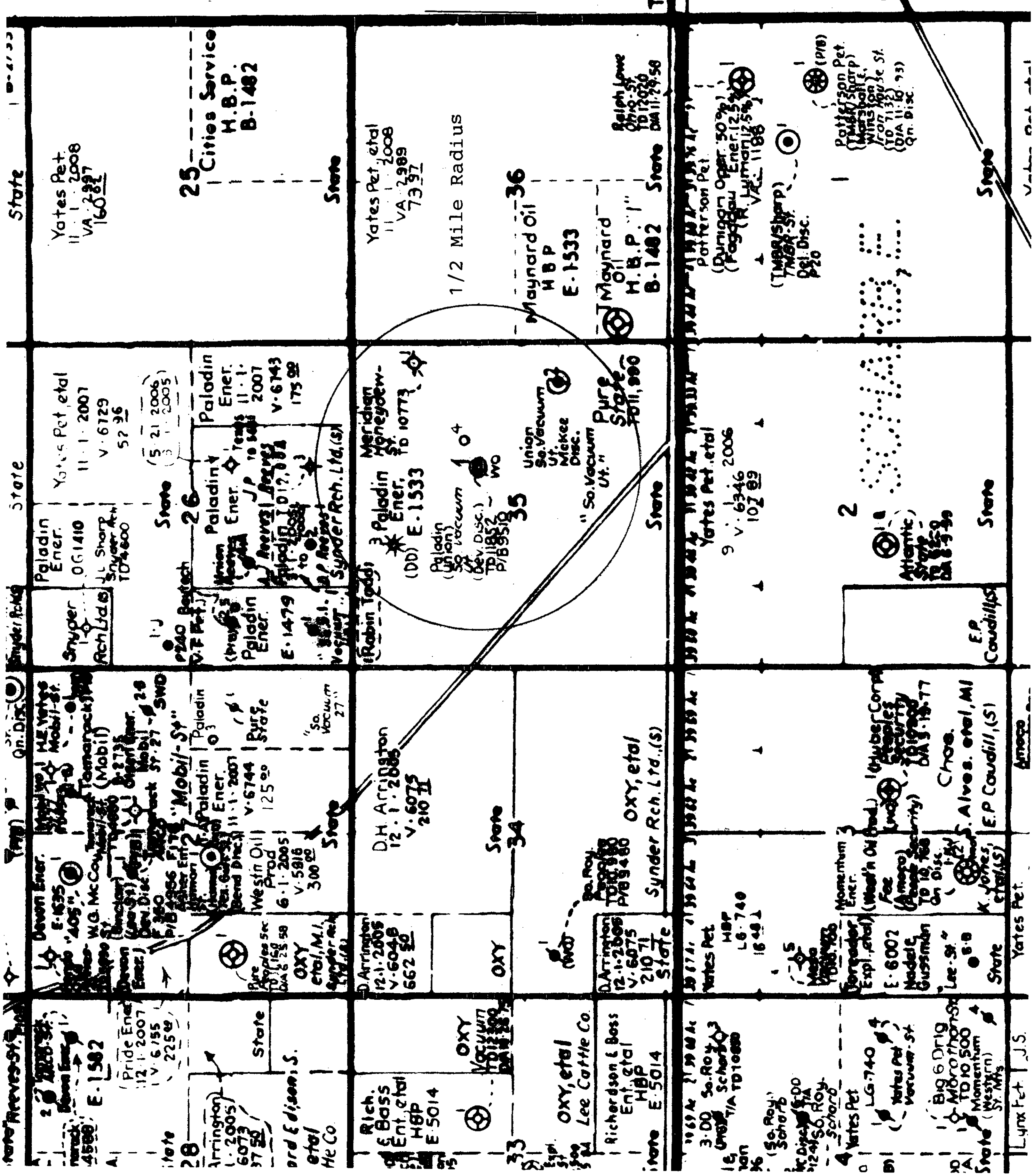
EXHIBIT VI

South Vacuum Unit 35-1 SWD
Lea County, New Mexico

Table of Wells within 1/2 mile radius of proposed injection zone

Operator	Lease Name	Well #	API #	Location	Spud Date	Completion Date	Total Depth	Casing Data	Sacks of Cement	Producing Interval	Producing Formation	Status
Paladin Energy Corp.	S. Vacuum 35	2	30-025-03151	35-18S-35E	3/21/1958	9/4/1958	13,861'	13-3/8 - 351' 9-5/8 - 3808' 7-11953' 5-13881'	400 1220 870 330	11680-630	Devonian	SWD
Paladin Energy Corp.	S. Vacuum Unit 35	3	30-025-03152	35-18S-35E	11/10/1958	1/20/1959	11724'	13-3/8 - 351' 9-5/8 - 3800' 5-1/2-11724'	450 1300 416	none	none	P&A Well sidetracked
Paladin Energy Corp.	S. Vacuum Unit	353	30-025-03152	35-18S-35E	3/25/2004	6/4/2004	13763'	13-3/8 - 437' 9-5/8 -3800' 7-12194' 5-13761'	450 1300 715 250	13506-630'	Mckee	Producing Sidetrack
Paladin Energy Corp.	S. Vacuum Unit	354	30-025-36789	35-18S-35E	8/19/2004	12/22/2004	13763'	13-3/8 - 435' 9-5/8 -3847' 7-12167' 5-14041'	395 760 1065 320	13570-733'	Mckee	Producing
Meridian Oil Inc.	Honeydew 35 State	1	30-025-30003	35-18S-35E	10/10/1987	11/9/1987 Too Shallow	10722'	13-3/8 - 455' 9-5/8 - 3775' 5-1/2-10722'	475 1500 650	11680-630	Devonian	P&A
Pure Oil Company	Reeves A 26	3	30-025-03136	26-18S-35E		10/1/1960	12004'	13-3/8 - 455' 9-5/8 - 3805' 5-1/2-10170'	475 1500 115	none	none	P&A

EXHIBIT V


To Hobbs
1/2 Mile Radius
Cities Service
H.B.P.
B-1482
Maynard Oil
HBP
E-1533
Paladin Ener.
E-1533
Yates Pet. etal
Union
So. Vacuum
Ut.
"So. Vacuum Ut."
D.H. Arrington
OXY, etal
Synder Rch. Ltd. (S)
Lee Cattle Co.
Richardson & Bass
Ent. etal
HBP
E 5014
E.P. Caudill (S)
Patterson Pet.
State
25
26
27
28
33
34
35
36
2

Side 1

INJECTION WELL DATA SHEET

OPERATOR: PALADIN ENERGY CORP.

WELL NAME & NUMBER: South Vacuum Unit 35-1

WELL LOCATION: 1980 FNL, 1980 FEL, Sec 35, T18S, R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

*see attached schematic

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15" Casing Size: 11-3/4"

Cemented with: 350 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 11" Casing Size: 8-5/8"

Cemented with: 500 sx. *or* _____ ft³

Top of Cement: 1100' Method Determined: Calculated

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 340 sx. *or* _____ ft³

Top of Cement: 8846' Method Determined: Bond Log

Total Depth: 11,846'

Injection Interval

Perforations: 11,643-680' Open Hole 11,836-12,100'

(Perforated or Open Hole: indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" Lining Material: Plastic Coating

Type of Packer: Lockset Type – Plastic Coated

Packer Setting Depth: 11,525' (+,-)

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes __X__ No

   If no, for what purpose was the well originally drilled? Devonian Producer

   _____

2. Name of the Injection Formation: Devonian

3. Name of Field or Pool (if applicable): South Vacuum field

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

   Bone Springs, 8892-8902', Squeezed with 100 sacks

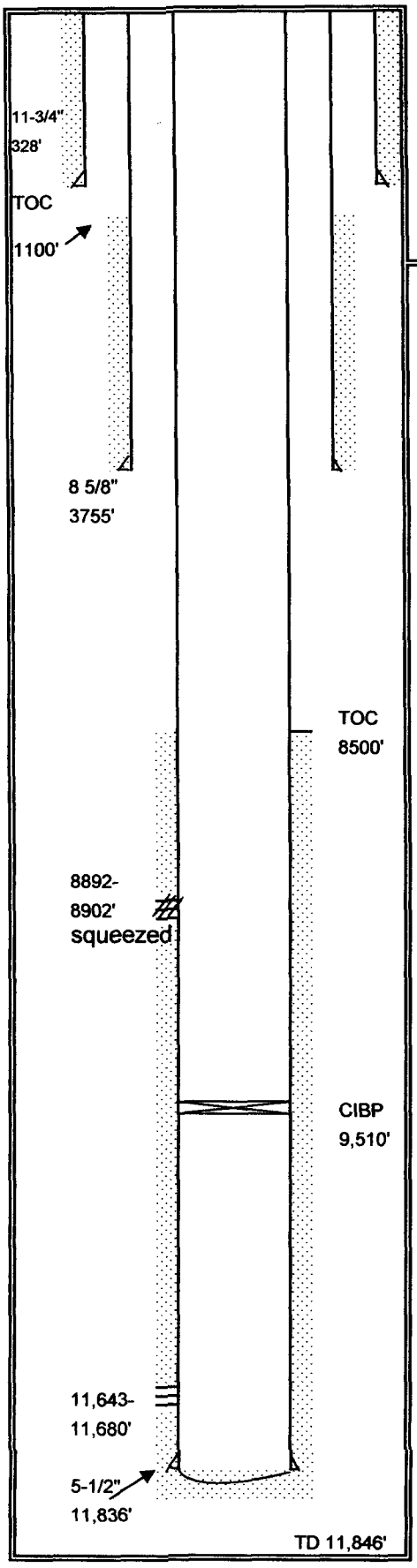
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

   Vacuum, Mckee South - 13,500-14,800'

   _____

   _____

Wellbore Schematic
Present Completion



Lease: S. Vacuum Unit **Well:** 351 SWD API # 30-025-03150

Operator: Paladin Energy Corp.

Field:	South Vacuum	County:	Lea	State	New Mexico
Section	35	Township	18-s	Range	35-E
Elev . GL		Elev. DF	3869'	Elev. KB	
Spudded	9/8/1957	Completed	1/16/1958		

Surface Casing 11-3/4" 42# Grade
Set @ 328' Hole Size 15"
TOC surf. Sacks 350

Intermediate Casing 8-5/8" 32# Grade
Set @ 3755 Hole Size 11"
TOC 1100' Sacks 500

Production Casing 5-1/2" 17# Grade
Set @ 11,846' Hole Size 7-7/8"
TOC 8846' Sacks 340
(Bond Log)

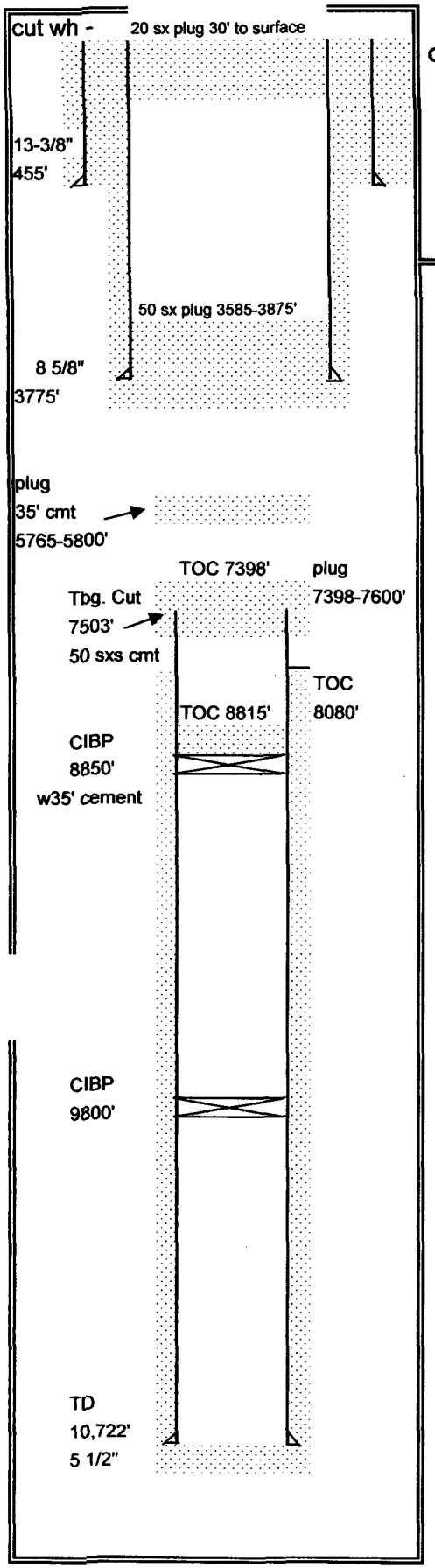
Liner Record Grade
Top @ Bottom @
Screen Hole Size
TOC Sacks

Tubing Detail Grade/Trd.
Pkr. Set @ EOT
Nipples
Anchors Rods

Perforation Record
Devonian - 11,643-680'
Bone Springs - 8,892-902'

Prepared By: David Plaisance
Present Completion 4/1/2005 Date:

WELLBORE SCHEMATIC



Lease: Honeydew 35 State **Well:** 1 API # 30-025-30003

Operator: State BTD

Field: S. Vacuum County: Lea State New Mexico

Section 35 Township 18-S Range 35-E

Elev . GL 3866' Elev. DF Elev. KB

Spudded 10/12/1987 Completed 11/9/1987

Surface Casing	13-3/8"	48#	Grade	
	Set @	455'	Hole Size	17 1/2
	TOC	Surface	Sacks	475
Intermediate Casing	8 5/8"	32#/Ft.	Grade	
	Set @	3775'	Hole Size	12-1/4"
	TOC	Surface	Sacks	1,500
Production Casing	5 1/2" OD	17#/Ft.	Grade	
	Set @	10,722'	Hole Size	7 7/8"
	TOC	8,080'	Sacks	600
		*Temp Survey		
Liner Record	" OD	#/Ft.	Grade	
	Top @		Bottom @	
	Screen		Hole Size	
	TOC		Sacks	
Tubing Detail			Grade/Trd.	
	TAC Set @		EOT	
	Nipples			
	Anchors		Rods	

Perforation Record: No perforations - dry hole

P&A Record:
- CIBP @9800'
- CIBP @ 8850", dump bailed 35', TOC 8815"
- 50 sxs 7398-7600'
- 50 sxs 3585-3875'
- 10 sxs 0 to surface
- Cut off Wellhead-install dry hole marker

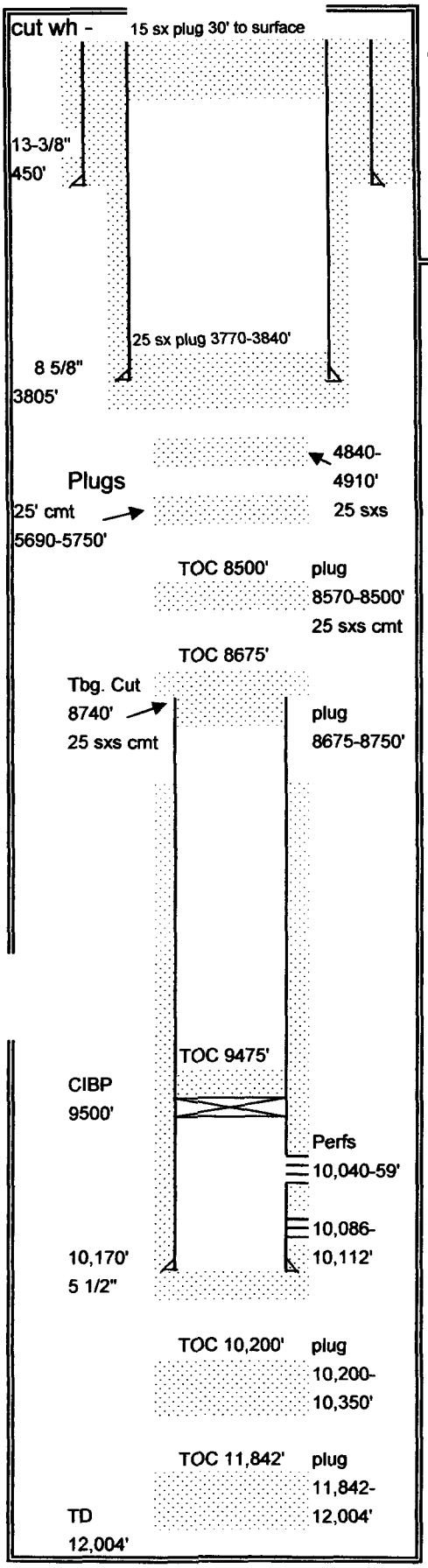
Comments:
- Well P&A'd 9/30/88
- dry hole marker 9/30/88

Date: _____

PRESENT COMPLETION

Prepared By: _____

WELLBORE SCHEMATIC



Lease: Reeves A **Well:** 3-26 API # 30-025-03136

Operator: State BTD

Field: S. Vacuum County: Lea State New Mexico

Section 26 Township 18-S Range 35-E

Elev . GL 3866' Elev. DF Elev. KB

Spudded Completed 8/1/1960

Surface Casing	13-3/8"	48#	Grade	
	Set @	455'	Hole Size	17 1/2
	TOC	Surface	Sacks	475
Intermediate Casing	8 5/8"	32#/Ft.	Grade	
	Set @	3805'	Hole Size	12-1/4"
	TOC	Surface	Sacks	1,500
Production Casing	5 1/2" OD	17#/Ft.	Grade	
	Set @	10,170'	Hole Size	7 7/8"
	TOC		Sacks	115
Liner Record	" OD	#/Ft.	Grade	
	Top @		Bottom @	
	Screen		Hole Size	
	TOC		Sacks	
Tubing Detail			Grade/Trd.	
	TAC Set @		EOT	
	Nipples			
	Anchors		Rods	

Perforation Record
10,046-59'
10,086-112'

Drilled to a total depth of 12,004'

P&A Record
45 sxs open hole 11,842-12,004'
45 sxs open hole 12,200-10350'
CIBP @ 9,475' w25' of cmt'
25 sxs 7398-7600'
50 sxs 8675-875"
25 sxs 8570-8500'
25 sxs 5690-5750'
25 sxs 4840-4910'
25 sxsx 3770-3840'
15 sxs surface to 30'

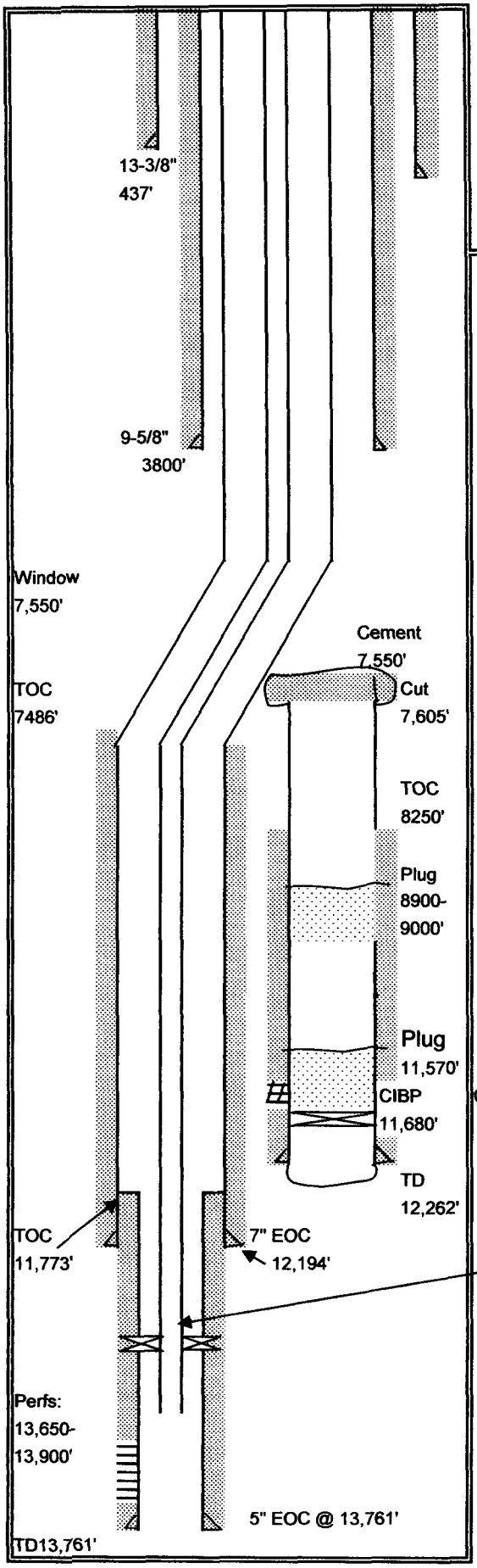
Comments:
Well P&A'd 2/7/62
dry hole marker 2/7/62

Date: _____

PRESENT COMPLETION

Prepared By: _____

Wellbore Schematic



Lease: South Vacuum Unit **Well:** 35-3 API # 30-025-03152

Operator: PALADIN Energy Corp.

Field: South Vacuum County: Lea State New Mexico

Section 35 Township 18-S Range 35-E

Elev . GL 3870' Elev. DF Elev. KB

Spudded Completed

Surface Casing	13-3/8"	48#	Grade	
	Set @	437'	Hole Size	17-1/2"
	TOC	surf.	Sacks	450
Intermediate Casing	9-5/8"	40#	Grade	
	Set @	3800'	Hole Size	12-1/4"
	TOC	Surface	Sacks	1,300
Production Casing	7"	26 & 29#	Grade	N-80
	Set @	12,194'	Hole Size	8-3/4"
	TOC	7,486'	Sacks	715
Liner Record	5"	18#	Grade	
	Top @	11,773'	Bottom @	13,761'
	Screen		Hole Size	6-1/8"
	TOC	11,773'	Sacks	250
Tubing Detail	2-3/8" & 2-7/8"		Grade/Trd.	
	Pkr. Set @	13,414'	EOT	
	Nipples	X - 13,432'		
	Anchors		Rods	

Perforation Record: Original Hole Perfs - Devonian - 11,592-616' squeezed

Proposed Perfs - Mckee - 13,650-13,900' (selected)

Completion

Perfs: 13,506-09', 13,522-25', 13,556-59', 13591-94', 13,627-30'.

2-3/8" P 110 tubing to 11,494'

2-7/8" P110 & N-80 tubing from 11,494' to surface

5" Arrow set Retreivable Packer @13,414'

Otis X Nipple (1.85" profile) @ 13,432'

PPRESENT COMPLETION 7/30/2004

Paladin Energy Corp.

RE: API #30-025-03150
Application for Authority to Inject
Water into the **South Vacuum Unit 351 SWD,**
Sec 35, 18S, 35E
Lea County, New Mexico

VII. Summary of Proposed Operations

Average Daily Rate of Injection	8,000 Barrels per Day
Maximum Daily Rate of Injection	10,000 Barrels per Day
Type of System	Closed
Average Injection Pressure	Vacuum to 1000 psi
Maximum Injection Pressure	2,000 psi
Sources of Injection Fluid	Devonian and Mckee Produced Water
Name of Injection Formation	Devonian
Injection Interval	11,643-680, 11,836-12,100'
Analysis of disposal zone formation water	(see Attached Analysis)

KEL-TECH

April 13, 2005

Mickey Horn
Paladin Energy
Midland, Texas

Mickey,
Attached are the analyses from the waters you submitted last week from the following Paladin wells:

S.V. 35 #3
S.V. 27 #3
S.V. 2-26
S.V. 1-26
State Lee J #1
Reeves 2-26

Also attached is a compatibility test from the Reeve's 2-26 and the S.V. 27-3. Based on the visual examination of the mixed waters, and the calculated scaling tendencies, these two waters are very compatible.

Should you have further questions, please do not hesitate to call.

Thank You,

James Shrauner

Post Office Box 11383 ▪ Midland, Texas 79702 ▪ (432) 684-4700 ▪ (432) 686-8000 Fax

Comparison Between Two Waters

Requested by: JAMES SHRAUNER

	Sample No. 1	Sample No. 2
	PALADIN	PALADIN
	REEVES 2-26	SV 27-3
	4/05/05	4/05/05

Percent of #1 & #2	pH	TDS	SpGr	CaCO3 Saturation @80°F.	CaCO3 Saturation @140°F.	Calcium Sulfate Scaling Potential
100 - 00	7.200	50,090	1.033	0.445	1.375	Nil
95 - 05	7.125	50,192	1.033	0.434	1.364	Marginal
90 - 10	7.050	50,293	1.033	0.408	1.338	Marginal
85 - 15	6.975	50,395	1.033	0.367	1.292	Mild
80 - 20	6.900	50,497	1.033	0.323	1.248	Mild
75 - 25	6.825	50,599	1.033	0.272	1.197	Mild
70 - 30	6.750	50,700	1.033	0.215	1.140	Mild
65 - 35	6.675	50,802	1.033	0.153	1.078	Mild
60 - 40	6.600	50,904	1.033	0.086	1.011	Mild
55 - 45	6.525	51,006	1.033	0.009	0.919	Mild
50 - 50	6.450	51,108	1.033	-0.067	0.843	Mild
45 - 55	6.375	51,209	1.033	-0.147	0.763	Mild
40 - 60	6.300	51,311	1.033	-0.232	0.678	Mild
35 - 65	6.225	51,413	1.033	-0.322	0.588	Mild
30 - 70	6.150	51,515	1.033	-0.417	0.493	Mild
25 - 75	6.075	51,616	1.033	-0.528	0.382	Mild
20 - 80	6.000	51,718	1.033	-0.637	0.273	Mild
15 - 85	5.925	51,820	1.033	-0.755	0.155	Mild
10 - 90	5.850	51,921	1.033	-0.884	0.026	Mild
05 - 95	5.775	52,023	1.033	-1.030	-0.120	Marginal
00 - 100	5.700	52,125	1.033	-1.199	-0.279	Marginal

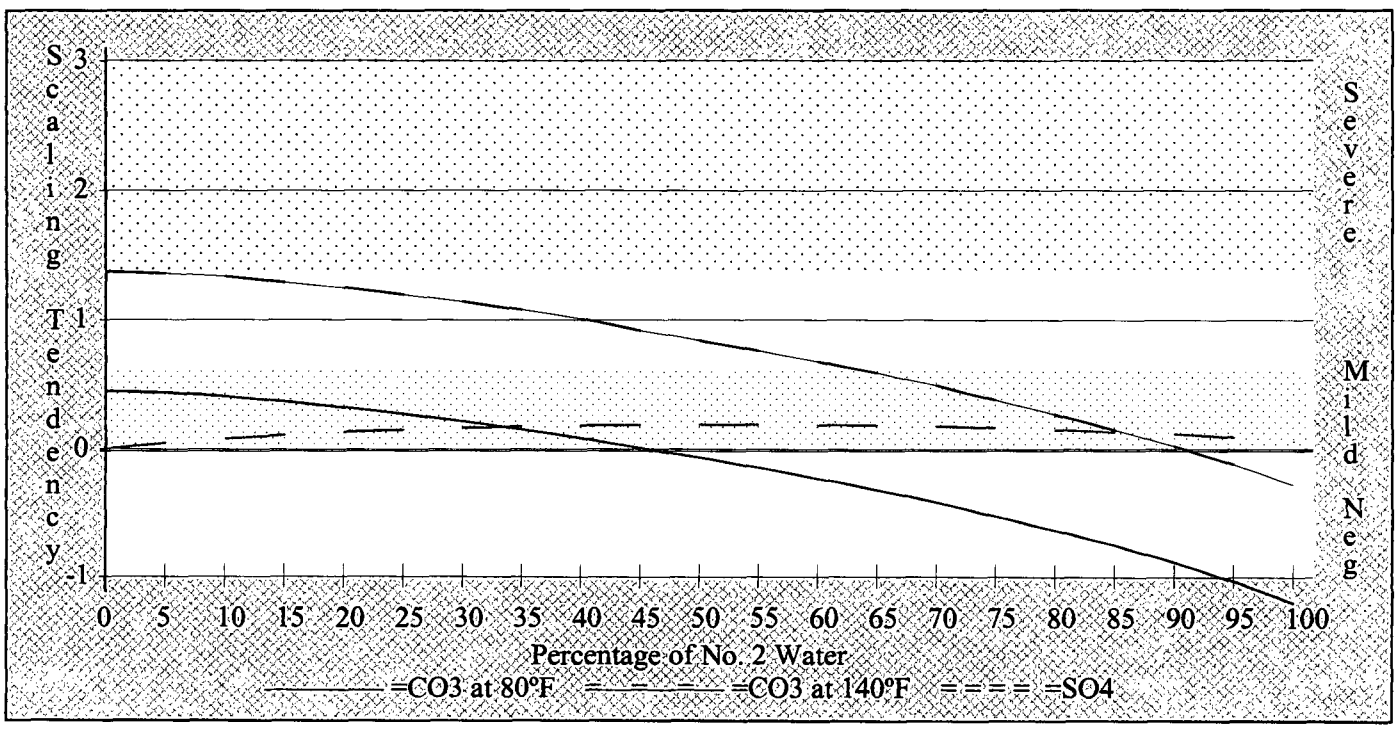


EXHIBIT XI

Schlumberger

Hobbs District Laboratory

Company:	Paladin	Report No.:	
Lease & Well:	Fresh Water Well	Service Point:	HNM LAB
County, State:		Prepared by:	B.Henderson
Formation:		Prepared for:	
BHT (F):		Date:	4/21/2005

Specific gravity: 1.000 @ 67.2 degrees F ph 7.00

Anions

	Factor	ml	Sample	mg/l	Factor	me/l	Ionic Strength (mg/l)	Ionic Strength (me/l)	(ppm)
Chlorides	3545	0.50	10	177	0.0282	5.00	0.0025	0.0025	177
Sulfates		200.0	25	0	0.0208	0.00	0.0000	0.0000	0
Carbonates	492	0.0	10	0	0.0333	0.00	0.0000	0.0000	0
Bicarbonates	1000	2.80	10	280	0.0164	4.59	0.0022	0.0023	280

Cations

	Factor	ml	Sample	mg/l	Factor	me/l	Ionic Strength (mg/l)	Ionic Strength (me/l)	(ppm)
Calcium	401	3.1	10	124.31	0.0499	6.20	0.0062	0.0062	124
Magnesium	243	1.00	10	24.3	0.0823	2.00	0.0020	0.0020	24
Iron		0	10	0	0.0358	0.00	0.0000	0.0000	0
Sodium	0	0	0	32	0.0435	1.39	0.0007	0.0007	32

Total Dissolved Solids: 637.7563 19.18

Total Ionic Strength: 0.0136 0.0137

Calcium Carbonate Deposition

Stiff-Davis Equation: Stability Index(SI) = pH - pCa - pAlk - K

pH= 7.00
pCa= 2.50
pAlk= 2.63
K= 1.31

Total Ion Equivalent NaCl Concentration= 451.4408 ppm

SI= 0.56

The Stiff-Davis equation predicts this water does have a tendency toward calcium carbonate deposition.

Calcium Sulfate Deposition

CaSO4 Solubility: S = 1000 (SQRT (X**2 + 4*K) - X)

Total Ionic Strength= 0.0136
Solubility Constant, K= 0.00290
X= 0.0031

S= 104.64 me/l

Laboratory analysis shows that this water contains 0.00 me/l, therfore the tendency towards calcium sulfate deposition does not exist.

KEL-TECH

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **PALADIN**
Lease : **SV**
Well No.: **35-4**
Location: **HEATER**
Attention:

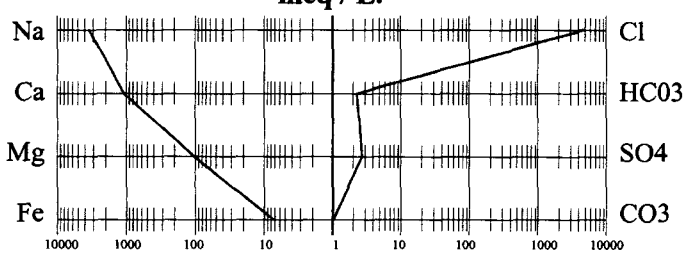
Date Sampled : **4/01/05**
Date Analyzed: **05-April-2005**
Lab ID Number: **Apr0505.005- 1**
Salesperson : **J. SHRAUNER**
Requested By :
File Name : **C:\ANALYSES\DATA\Apr0505.005**

ANALYSIS

1.	Ph			**5.700**		
2.	Specific Gravity 60/60 F.			**1.173**		
3.	CACO3 Saturation Index		@ 80F	**0.969**		
			@140F	**2.809**		
	Dissolved Gasses			**MG/L.**	**EQ. WT.**	***MEQ/L**
4.	Hydrogen Sulfide			**0**		
5.	Carbon Dioxide			**700**		
6.	Dissolved Oxygen			**Not Determined**		
	Cations					
7.	Calcium	(Ca++)		**20,842**	/ 20.1 =	**1,036.92**
8.	Magnesium	(Mg++)		**1,216**	/ 12.2 =	**99.67**
9.	Sodium	(Na+)	(Calculated)	**75,687**	/ 23.0 =	**3,290.74**
10.	Barium	(Ba++)		**10**	/ 68.7 =	**0.15**
	Anions					
11.	Hydroxyl	(OH+)		**0**	/ 17.0 =	**0.00**
12.	Carbonate	(CO3=)		**0**	/ 30.0 =	**0.00**
13.	Bicarbonate	(HCO3-)		**134**	/ 61.1 =	**2.19**
14.	Sulfate	(SO4=)		**126**	/ 48.8 =	**2.58**
15.	Chloride	(Cl-)		**156,965**	/ 35.5 =	**4,421.55**
16.	Total Dissolved Solids			**254,980**		
17.	Total Iron	(Fe)		**128**	/ 18.2 =	**7.03**
18.	Total Hardness as CaCO3			**57,051**		
19.	Resistivity @ 75 F. (Calculated)			**0.001** Ohm · meters		

LOGARITHMIC WATER PATTERN

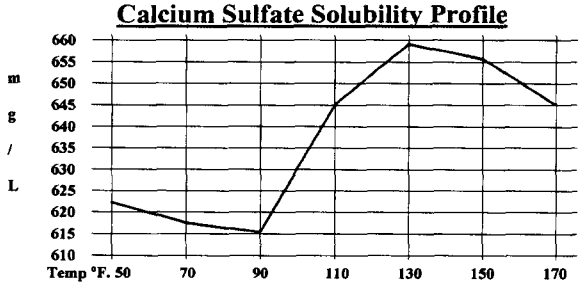
***meq / L.**



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X	*meq/L	=	mg/L.
Ca(HCO3)2	**81.04**		2.19		178
CaSO4	**68.07**		2.44		166
CaCl2	**55.50**		1,032.29		57,292
Mg(HCO3)2	**73.17**		0.00		0
MgSO4	**60.19**		0.00		0
MgCl2	**47.62**		99.67		4,746
NaHCO3	**84.00**		0.00		0
NaSO4	**71.03**		0.00		0
NaCl	**58.46**		3,289.59		192,310

Calcium Sulfate Solubility Profile



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KEL-TECH

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **PALADIN**
Lease : **STATE LEA 'J'**
Well No.: **# 1**
Location: **WELLHEAD**
Attention:

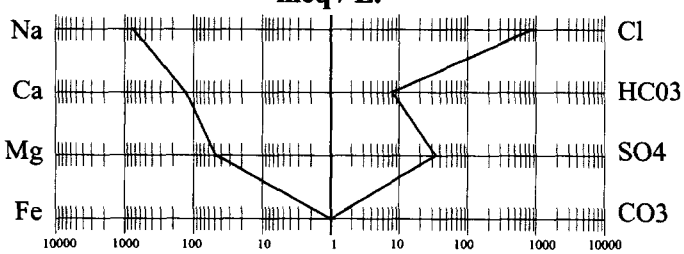
Date Sampled : **4/01/05**
Date Analyzed: **05-April-2005**
Lab ID Number: **Apr05056.000001E-03- 1**
Salesperson : **J. SHRAUNER**
Requested By :
File Name : **C:\ANALYSES\DATA\Apr05056.000001E-03**

ANALYSIS

				MG/L.	EQ. WT.	*MEQ/L
1.	Ph			**7.100**		
2.	Specific Gravity 60/60 F.			**1.033**		
3.	CACO3 Saturation Index	@ 80F		**0.403**		
		@140F		**1.333**		
	Dissolved Gasses					
4.	Hydrogen Sulfide			**0**		
5.	Carbon Dioxide			**50**		
6.	Dissolved Oxygen			**Not Determined**		
	Cations					
7.	Calcium	(Ca++)		**2,485**	/ 20.1 =	**123.63**
8.	Magnesium	(Mg++)		**559**	/ 12.2 =	**45.82**
9.	Sodium	(Na+)	(Calculated)	**16,487**	/ 23.0 =	**716.83**
10.	Barium	(Ba++)		**0**	/ 68.7 =	**0.00**
	Anions					
11.	Hydroxyl	(OH+)		**0**	/ 17.0 =	**0.00**
12.	Carbonate	(CO3=)		**0**	/ 30.0 =	**0.00**
13.	Bicarbonate	(HCO3-)		**464**	/ 61.1 =	**7.59**
14.	Sulfate	(SO4=)		**1,611**	/ 48.8 =	**33.01**
15.	Chloride	(Cl-)		**29,993**	/ 35.5 =	**844.87**
16.	Total Dissolved Solids			**51,599**		
17.	Total Iron	(Fe)		**1**	/ 18.2 =	**0.05**
18.	Total Hardness as CaCO3			**8,508**		
19.	Resistivity @ 75 F. (Calculated)			**0.181** Ohm · meters		

LOGARITHMIC WATER PATTERN

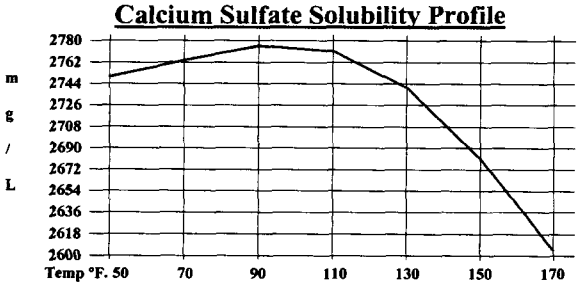
***meq / L.**



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L	= mg/L.
Ca(HCO3)2	**81.04**	7.59	615
CaSO4	**68.07**	33.01	2,247
CaCl2	**55.50**	83.03	4,608
Mg(HCO3)2	**73.17**	0.00	0
MgSO4	**60.19**	0.00	0
MgCl2	**47.62**	45.82	2,182
NaHCO3	**84.00**	0.00	0
NaSO4	**71.03**	0.00	0
NaCl	**58.46**	716.03	41,859

Calcium Sulfate Solubility Profile



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KEL-TECH

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **PALADIN**
Lease : **SV**
Well No.: **1-26**
Location: **OIL TANK**
Attention:

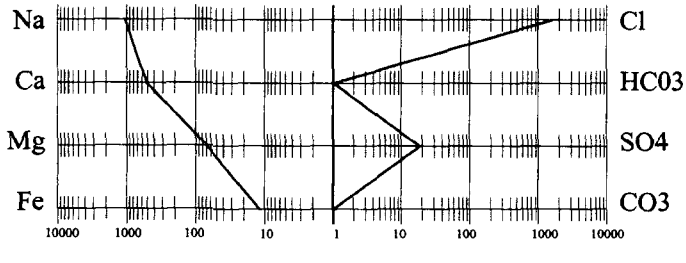
Date Sampled : **4/01/05**
Date Analyzed: **05-April-2005**
Lab ID Number: **Apr05057.000001E-03- 1**
Salesperson : **J. SHRAUNER**
Requested By :
File Name : **C:\ANALYSES\DATA\Apr05057.000001E-03**

ANALYSIS

				MG/L.	EQ. WT.	*MEQ/L
1.	Ph			**5.500**		
2.	Specific Gravity 60/60 F.			**1.067**		
3.	CACO3 Saturation Index	@ 80F		**-1.826**		
		@140F		**-0.906**		
	Dissolved Gasses					
4.	Hydrogen Sulfide			**34**		
5.	Carbon Dioxide			**100**		
6.	Dissolved Oxygen			**Not Determined**		
	Cations					
7.	Calcium	(Ca++)		**9,900**	/ 20.1 =	**492.54**
8.	Magnesium	(Mg++)		**802**	/ 12.2 =	**65.74**
9.	Sodium	(Na+)	(Calculated)	**23,211**	/ 23.0 =	**1,009.17**
10.	Barium	(Ba++)		**10**	/ 68.7 =	**0.15**
	Anions					
11.	Hydroxyl	(OH+)		**0**	/ 17.0 =	**0.00**
12.	Carbonate	(CO3=)		**0**	/ 30.0 =	**0.00**
13.	Bicarbonate	(HCO3-)		**24**	/ 61.1 =	**0.39**
14.	Sulfate	(SO4=)		**875**	/ 48.8 =	**17.93**
15.	Chloride	(Cl-)		**54,988**	/ 35.5 =	**1,548.96**
16.	Total Dissolved Solids			**89,810**		
17.	Total Iron	(Fe)		**204**	/ 18.2 =	**11.21**
18.	Total Hardness as CaCO3			**28,025**		
19.	Resistivity @ 75 F. (Calculated)			**0.106** Ohm · meters		

LOGARITHMIC WATER PATTERN

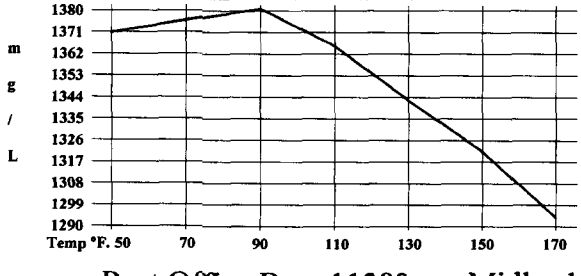
***meq / L.**



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L	= mg/L.
Ca(HCO3)2	**81.04**	0.39	32
CaSO4	**68.07**	17.78	1,211
CaCl2	**55.50**	474.36	26,327
Mg(HCO3)2	**73.17**	0.00	0
MgSO4	**60.19**	0.00	0
MgCl2	**47.62**	65.74	3,130
NaHCO3	**84.00**	0.00	0
NaSO4	**71.03**	0.00	0
NaCl	**58.46**	1,008.86	58,978

Calcium Sulfate Solubility Profile



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WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **PALADIN**
Lease : **SV**
Well No.: **35.3**
Location: **HEATER**
Attention:

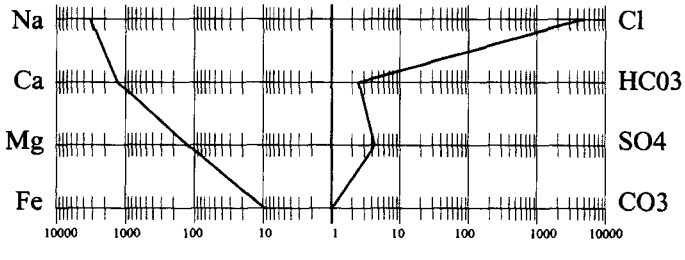
Date Sampled : **4/01/05**
Date Analyzed: **05-April-2005**
Lab ID Number: **Apr0505.004- 1**
Salesperson : **J. SHRAUNER**
Requested By :
File Name : **C:\ANALYSES\DATA\Apr0505.004**

ANALYSIS

				MG/L.	EQ. WT.	*MEQ/L
1.	Ph			**6.000**		
2.	Specific Gravity 60/60 F.			**1.173**		
3.	CACO3 Saturation Index	@ 80F		**1.484**		
		@140F		**3.224**		
	Dissolved Gasses					
4.	Hydrogen Sulfide			**0**		
5.	Carbon Dioxide			**700**		
6.	Dissolved Oxygen			**Not Determined**		
	Cations					
7.	Calcium	(Ca++)		**24,930**	/ 20.1 =	**1,240.30**
8.	Magnesium	(Mg++)		**1,459**	/ 12.2 =	**119.59**
9.	Sodium	(Na+)	(Calculated)	**71,874**	/ 23.0 =	**3,124.96**
10.	Barium	(Ba++)		**0**	/ 68.7 =	**0.00**
	Anions					
11.	Hydroxyl	(OH+)		**0**	/ 17.0 =	**0.00**
12.	Carbonate	(CO3=)		**0**	/ 30.0 =	**0.00**
13.	Bicarbonate	(HCO3-)		**146**	/ 61.1 =	**2.39**
14.	Sulfate	(SO4=)		**201**	/ 48.8 =	**4.12**
15.	Chloride	(Cl-)		**158,964**	/ 35.5 =	**4,477.86**
16.	Total Dissolved Solids			**257,574**		
17.	Total Iron	(Fe)		**163**	/ 18.2 =	**8.96**
18.	Total Hardness as CaCO3			**68,261**		
19.	Resistivity @ 75 F. (Calculated)			**0.001** Ohm · meters		

LOGARITHMIC WATER PATTERN

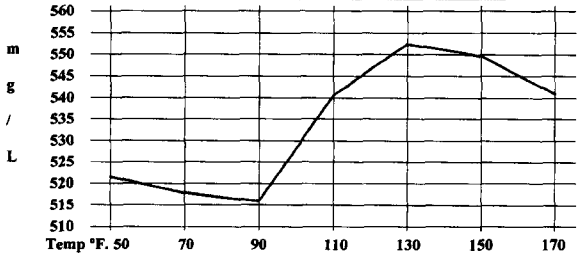
***meq / L.**



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L	= mg/L.
Ca(HCO3)2	**81.04**	2.39	194
CaSO4	**68.07**	4.12	280
CaCl2	**55.50**	1,233.79	68,475
Mg(HCO3)2	**73.17**	0.00	0
MgSO4	**60.19**	0.00	0
MgCl2	**47.62**	119.59	5,695
NaHCO3	**84.00**	0.00	0
NaSO4	**71.03**	0.00	0
NaCl	**58.46**	3,124.48	182,657

Calcium Sulfate Solubility Profile



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WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **PALADIN**
Lease : **SV**
Well No.: **27-3**
Location: **HEATER**
Attention:

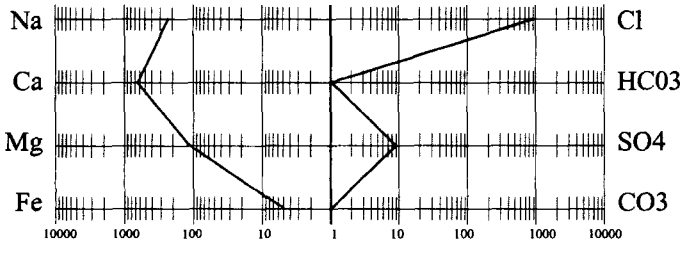
Date Sampled : **4/01/05**
Date Analyzed: **05-April-2005**
Lab ID Number: **Apr0505.002- 1**
Salesperson : **J. SHRAUNER**
Requested By :
File Name : **C:\ANALYSES\DATA\Apr0505.002**

ANALYSIS

1.	Ph			**5.700**		
2.	Specific Gravity 60/60 F.			**1.033**		
3.	CACO3 Saturation Index		@ 80F	**-1.199**		
			@140F	**-0.279**		
	Dissolved Gasses			**MG/L.**	**EQ. WT.**	***MEQ/L**
4.	Hydrogen Sulfide			**17**		
5.	Carbon Dioxide			**1600**		
6.	Dissolved Oxygen			**Not Determined**		
	Cations					
7.	Calcium	(Ca++)		**12,264**	/ 20.1 =	**610.15**
8.	Magnesium	(Mg++)		**1,313**	/ 12.2 =	**107.62**
9.	Sodium	(Na+)	(Calculated)	**5,069**	/ 23.0 =	**220.39**
10.	Barium	(Ba++)		**0**	/ 68.7 =	**0.00**
	Anions					
11.	Hydroxyl	(OH+)		**0**	/ 17.0 =	**0.00**
12.	Carbonate	(CO3=)		**0**	/ 30.0 =	**0.00**
13.	Bicarbonate	(HCO3-)		**61**	/ 61.1 =	**1.00**
14.	Sulfate	(SO4=)		**425**	/ 48.8 =	**8.71**
15.	Chloride	(Cl-)		**32,993**	/ 35.5 =	**929.38**
16.	Total Dissolved Solids			**52,125**		
17.	Total Iron	(Fe)		**85**	/ 18.2 =	**4.67**
18.	Total Hardness as CaCO3			**36,032**		
19.	Resistivity @ 75 F. (Calculated)			**0.177** Ohm · meters		

LOGARITHMIC WATER PATTERN

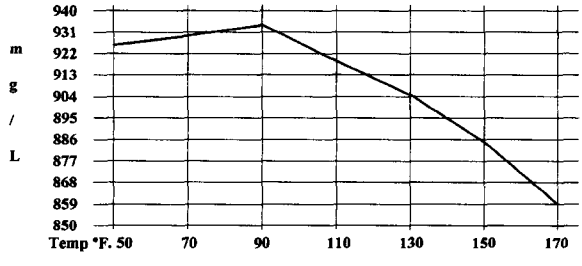
***meq / L.**



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X	*meq/L	=	mg/L.
Ca(HCO3)2	**81.04**		1.00		81
CaSO4	**68.07**		8.71		593
CaCl2	**55.50**		600.44		33,325
Mg(HCO3)2	**73.17**		0.00		0
MgSO4	**60.19**		0.00		0
MgCl2	**47.62**		107.62		5,125
NaHCO3	**84.00**		0.00		0
NaSO4	**71.03**		0.00		0
NaCl	**58.46**		221.32		12,938

Calcium Sulfate Solubility Profile



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WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **PALADIN**
Lease : **REEVES**
Well No.: **2-26**
Location: **WELLHEAD**
Attention:

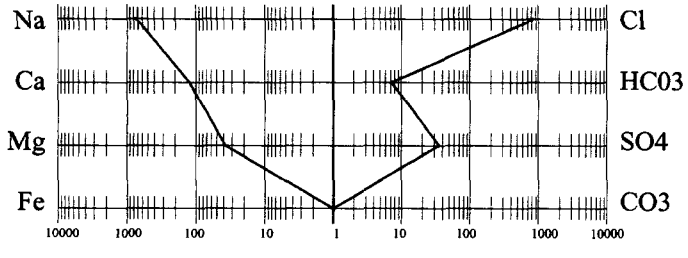
Date Sampled : **4/01/05**
Date Analyzed: **05-April-2005**
Lab ID Number: **Apr0505.001- 1**
Salesperson : **J. SHRAUNER**
Requested By :
File Name : **C:\ANALYSES\DATA\Apr0505.001**

ANALYSIS

				MG/L.	EQ. WT.	*MEQ/L
1.	Ph			7.200		
2.	Specific Gravity 60/60 F.			1.033		
3.	CACO3 Saturation Index	@ 80F		0.445		
		@140F		1.375		
	Dissolved Gasses					
4.	Hydrogen Sulfide			17		
5.	Carbon Dioxide			10		
6.	Dissolved Oxygen			Not Determined		
	Cations					
7.	Calcium	(Ca++)		2,365	/ 20.1 =	117.66
8.	Magnesium	(Mg++)		438	/ 12.2 =	35.90
9.	Sodium	(Na+)	(Calculated)	16,212	/ 23.0 =	704.87
10.	Barium	(Ba++)		0	/ 68.7 =	0.00
	Anions					
11.	Hydroxyl	(OH+)		0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)		427	/ 61.1 =	6.99
14.	Sulfate	(SO4=)		1,655	/ 48.8 =	33.91
15.	Chloride	(Cl-)		28,993	/ 35.5 =	816.70
16.	Total Dissolved Solids			50,090		
17.	Total Iron	(Fe)		3	/ 18.2 =	0.16
18.	Total Hardness as CaCO3			7,707		
19.	Resistivity @ 75 F. (Calculated)			0.186 Ohm · meters		

LOGARITHMIC WATER PATTERN

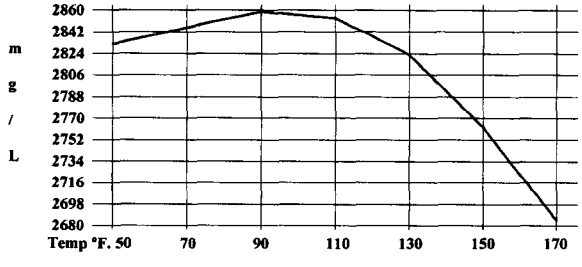
*meq / L.



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L	= mg/L.
Ca(HCO3)2	81.04	6.99	566
CaSO4	68.07	33.91	2,309
CaCl2	55.50	76.76	4,260
Mg(HCO3)2	73.17	0.00	0
MgSO4	60.19	0.00	0
MgCl2	47.62	35.90	1,710
NaHCO3	84.00	0.00	0
NaSO4	71.03	0.00	0
NaCl	58.46	704.04	41,158

Calcium Sulfate Solubility Profile



Post Office Box 11383 Midland,Texas 79702 (432) 684-4700 (432) 686-8000

EXHIBIT XI

Schlumberger

Hobbs District Laboratory

Company:	Paladin	Report No.:	
Lease & Well:	Fresh Water Well	Service Point:	HNM LAB
County, State:		Prepared by:	B.Henderson
Formation:		Prepared for:	
BHT (F):		Date:	4/21/2005

Specific gravity: 1.000 @ 67.2 degrees F ph 7.00

Anions

	Factor	ml	Sample	mg/l	Factor	me/l	Ionic Strength (mg/l)	Ionic Strength (me/l)	(ppm)
Chlorides	3545	0.50	10	177	0.0282	5.00	0.0025	0.0025	177
Sulfates		200.0	25	0	0.0208	0.00	0.0000	0.0000	0
Carbonates	492	0.0	10	0	0.0333	0.00	0.0000	0.0000	0
Bicarbonates	1000	2.80	10	280	0.0164	4.59	0.0022	0.0023	280

Cations

	Factor	ml	Sample	mg/l	Factor	me/l	Ionic Strength (mg/l)	Ionic Strength (me/l)	(ppm)
Calcium	401	3.1	10	124.31	0.0499	6.20	0.0062	0.0062	124
Magnesium	243	1.00	10	24.3	0.0823	2.00	0.0020	0.0020	24
Iron		0	10	0	0.0358	0.00	0.0000	0.0000	0
Sodium	0	0	0	32	0.0435	1.39	0.0007	0.0007	32

Total Dissolved Solids: 637.7563 19.18

Total Ionic Strength: 0.0136 0.0137

Calcium Carbonate Deposition

Stiff-Davis Equation: Stability Index(SI) = pH - pCa - pAlk - K

pH= 7.00
pCa= 2.50
pAlk= 2.63
K= 1.31

Total Ion Equivalent NaCl Concentration= 451.4408 ppm

SI= 0.56

The Stiff-Davis equation predicts this water does have a tendency toward calcium carbonate deposition.

Calcium Sulfate Deposition

CaSO4 Solubility: S = 1000 (SQRT (X**2 + 4*K) - X)

Total Ionic Strength= 0.0136
Solubility Constant, K= 0.00290
X= 0.0031

S= 104.64 me/l

Laboratory analysis shows that this water contains 0.00 me/l, therfore the tendency towards calcium sulfate deposition does not exist.

EXHIBIT XII

Paladin Energy Corp.

RE: API #30-025-03150
Application for Authority to Inject
Water into the **South Vacuum Unit 351 SWD**, located
In Sec 35, 18S, 35E
Lea County, New Mexico

XII. Geologic Data – Statement of Examination

	Formation	Lithology	Top	Bottom
Injection Interval:	Devonian	Lime/Dolomite	11,547'	12,300' (+,-)

I have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

David Plaisance
V.P. Exploration & Production

4/22/05
Date

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

LEGAL NOTICE
REVISED

Paladin Energy Corp. proposes to convert the South Vacuum Unit 35-1 Well located 1980' FNL and 1980' FEL of Unit G Section 35, T16S, R35E, N.M.P.M., Lea County, New Mexico to a saltwater disposal well. Paladin will dispose of saltwater into the Devonian formation from depths of 11,643-12, 100' (+/-) at a maximum rate of 10,000 BPD and at a maximum pressure of 2,000 psi. Questions pertaining to this application should be directed to Mr. David Plaisance, Vice-President Exploration and Production for Paladin, 10290 Monroe Drive, Suite 301, Dallas, Texas 75229; phone number (214) 654-0132, Ext. 3. Interested parties should file objections or requests for hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87504, within fifteen (15) days.
Published in the Lovington Daily Leader April 5, 2005.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of **THE LOVINGTON DAILY LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of April 5, 2005 and ending with the issue of April 5, 2005.

And that the cost of publishing said notice is the sum of $ 18.30 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 14th day of April 2005

Debbie Schilling

Debbie Schilling
Notary Public, Lea County, New Mexico
My Commission Expires June 22, 2006

CMD :
OGSSECT

ONGARD
INQUIRE LAND BY SECTION

04/29/05 13:44:16
OGOWVJ -TPOG
PAGE NO: 1

Sec : 35 Twp : 18S Rng : 35E Section Type : NORMAL

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NMSH	NMSH	NMSH	NMSH
E01533 0003	E01533 0003	E01533 0004	E01533 0004
PALADIN ENERGY CO	PALADIN ENERGY CO	FOREST OIL PERMIA	FOREST OIL PERMIA
C U 10/10/57	C U 10/10/57	C 10/10/57	C 10/10/57
	A		A
E	**F**	**G**	**H**
40.00	40.00	40.00	40.00
NMSH	NMSH	NMSH	NMSH
E01533 0004	E01533 0004	E01533 0003	E01533 0003
FOREST OIL PERMIA	FOREST OIL PERMIA	PALADIN ENERGY CO	PALADIN ENERGY CO
C 10/10/57	C 10/10/57	C U 10/10/57	C U 10/10/57
		A A	

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

EXHIBIT XIV

AFFADAVIT OF MAILING

RE: API #30-025-003150
Application for Authority to Inject
Water into thesouth Vacuum Unit 351 SWD, located
In Sec 35, 18S, 35E
Lea County, New Mexico

I, the undersigned (David Plaisance) do hereby declare that on April 22, 2005, I posted a true copy of the above reference application in Certified U.S. Mail in sealed envelopes addressed to the following, postage pre-paid:

State of New Mexico
Commissioner of Public Lands
P.O. box 1148
Santa Fe, NM 87504-1148

Forest Oil Permian
1600 Broadway
Suite 2200
Denver, CO 80202

David Plaisance
V.P. Exploration & Production

Subscribed and sworn to before me this 20th day of April, 2005 .

Notary Public

My commission expires 03/17/07 .

BARBARA ANN WESTBERRY
Notary Public, State of Texas
My Commission Expires
03-17-2007