

4.27.05	SUSPENSE	ENGINEER Jones	LOGGED IN 4.28.05	TYPE SWD	APP NO. DSEM051826203
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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]**

[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 _____

[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.

MIKE HOWELL

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

NM PETROLEUM ENGINEER

Print or Type Name

Signature

Title

Date

maho@chevrontexaco.com
e-mail Address

Chevron USA Production Company
A. M. Howell
New Mexico Petroleum Engineer
15 Smith Road
Midland, TX 79705
Tel 432-687-7516

ChevronTexaco

April 13, 2005

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87504

RE: APPLICATION FOR AUTHORIZATION TO INJECT

Attn: Oil & Gas Regulatory Department

ChevronTexaco, Exploration & Production, Inc., requests administrative approval to convert the V.M. Henderson well # 15, in the Blinbry formation well, to a San Andres Water Disposal well, located in Section 30, Unit Letter G, T21S, R37E, 1650' FNL & 1650' FEL, Lea County, New Mexico.

ChevronTexaco plans to set a CIBP @ 5500'; top w/ 35' cement, and perf the San Andres formation from 4400' to 5000'.

Attached is an OCD form C-108 with the information relative to the conversion. In compliance with the NMOCD regulations, the offset operators have been notified of our intend to convert the Henderson # 15 to a Disposal well.

If additional information is required, please contact me at (432-687-7516).

Sincerely,



A.M. Howell
NM Petroleum Engineer

Cc: NMOCD – Hobbs District 2
Offset Operators
Lease File
Russell Pool
Tim Denny
Nathan Mouser
Karen Jackson
Vicki Duncan
Denise Pinkerton

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, June 22, 2005 1:56 PM
To: 'maho@chevrontexaco.com'
Cc: Kautz, Paul, EMNRD
Subject: SWD Application for the V.M. Henderson#15 Lea County New Mexico

Hello Mike:

Please send a copy of the postdated certified letters you sent out to notify:

- 1) the surface Fee owner (this name was not specified in the application)
- 2) all the offset operators (Arch, Apache, Hanson, Hendrix, Campbell&Hedrick, etc)

Unless something else becomes apparent (everything else now looks OK) I will release this SWD permit 15 days after the date you mailed these notices.

Thanks,

William V. Jones

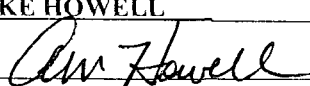
Engineering Bureau

Oil Conservation Division

Santa Fe

6/22/2005

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: CHEVRON U.S.A. INC.
ADDRESS: 15 SMITH ROAD; MIDLAND, TX 79705
CONTACT PARTY: A.M. HOWELL PHONE: 432-687-7516
- 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: NA
- 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; AVG = 2,000 BWPd, MAX = 10,000 BWPd
 2. Whether the system is open or closed; CLOSED
 3. Proposed average and maximum injection pressure; AVG = 200 PSI, MAX = 1200 PSI
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, GRAYBURG, PADDOCK, BLINEBRY, TUBB, DRINKARD.
 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. 10,000 gals 15% HCL acid
- *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: MIKE HOWELL TITLE: PETROLEUM ENGINEER
SIGNATURE:  DATE: 4/22/05
- * 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: _____

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. **SAN ANDRES**
- (2) The injection interval and whether it is perforated or open-hole. **HENDERSON # 15 – Perforated 4400'-5000'**
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. **Drilled as a producer – will be converted to Salt Water Disposal 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. **Blinberry Perfs (5550'-5808'). Set CIBP @ 5500' & top w/35' cmt on top.**
- (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. **Higher: Grayburg (3610'-3875'). Lower: Paddock (5155'-5535').**

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.

INJECTION WELL DATA SHEET

OPERATOR: CHEVRON U.S.A. INC.WELL NAME & NUMBER: HENDERSON # 15 SALT WATER DISPOSALWELL LOCATION: 1650' FNL & 1650' FEL G 30 21S 37E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: 11" Casing Size: 8-5/8"
Cemented with: 400 sx. or ft³
Top of Cement: Surface Method Determined: CIRCProduction CasingHole Size: 7-7/8" Casing Size: 5-1/2"
Cemented with: 1275 sx. or ft³
Top of Cement: Surface Method Determined: CIRCInjection Interval4400' feet to 5000'

(Perforated)

INJECTION WELL DATA SHEETTubing Size: 2-7/8" Lining Material: IPCType of Packer: LOK-SETPacker Setting Depth: 4350'Other Type of Tubing/Casing Seal (if applicable): NAAdditional Data

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

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

Producer, will be Converted to SALT WATER DISPOSAL

2. Name of the Injection Formation: SAN ANDRES

3. Name of Field or Pool (if applicable): NA

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.

Yes, BLINEBRY 5550' - 5808'; 2 JHPF W/4" guns. Set CIBP @ 5500', w/35' cmt on top.

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

Higher: GRAYBURG (3610' - 3875')

Lower: PADDOCK (5155' - 5535')

BLINEBRY FIELD

WELL NAME: V.M. HENDERSON #15
LOCATION: 1650' FNL & 1650' FEL
TOWNSHIP: 21S
RANGE: 37E

FIELD: BLINEBRY OIL & GAS
SEC: 30
COUNTY: LEA
STATE: NEW MEXICO

FORMATION: BLINEBRY
API: 30-025-33328
CHEVNO: B19442
STATUS: PR

GE: 3517' KDB to GE: _____ DF to GE: _____

Spud Date: 5/4/1996
Completion Date: 6/5/1996
Initial Formation: BLINEBRY

CURRENT

Surface Casing	
Hole	11"
OD	8-5/8"
Wt.	24#
Gr.	WC-50
@	1155'
w/	400 SXS
TOC surface	

Interval Completed: From: 5550' To: 5808'

Initial Production: BOPD: 11
MCFPD: 250
BWPD: 14

Completion Data:

Perf'd 5550'-5808' @ 2 JSPF
W/4" csg gun, 120 deg Phasing
57' ; 114 holes
Acdz w/6000 gals 15% NEFE
Frac w/28,000 gals 35# Borate XLG

Subsequent Workovers/Reconditionings/Repairs:

8/12/2002 No rod failure, but severe paraffin
3/5/1998 Pmp Stuck w/paraffin.
Unseat pump & POOH.
Fish rod part & change Pmp.
GIH w/pump & rods, load & tst.
Well didn't make anything on tst.

Production Casing	
Hole	7-7/8"
OD	5-1/2"
Wt.	15.5#
Gr.	WC-50
@	6100'
w/	1275 sx. cmt.
TOC Surface	

Tubing detail

2-7/8" 6.5# J-55 8RD tbg
TAC @ 5472'
SN @ 5781'
EOT @ 5817'

Perfs: _____ Status _____
5550' - 5808' Blinebry - open

PBTD = 5987'
TD = 6100'

Additional Remarks or Information: _____

SAN ANDRES

WELL NAME: V.M. HENDERSON #15 SWD

LOCATION: 1650' FNL & 1650' FEL

TOWNSHIP: 21S

RANGE: 37E

SEC: 30

COUNTY: LEA

STATE: NEW MEXICO

FORMATION: SAN ANDRES

API: 30-025-33328

CHEVNO: BI9442

STATUS: INJECTOR

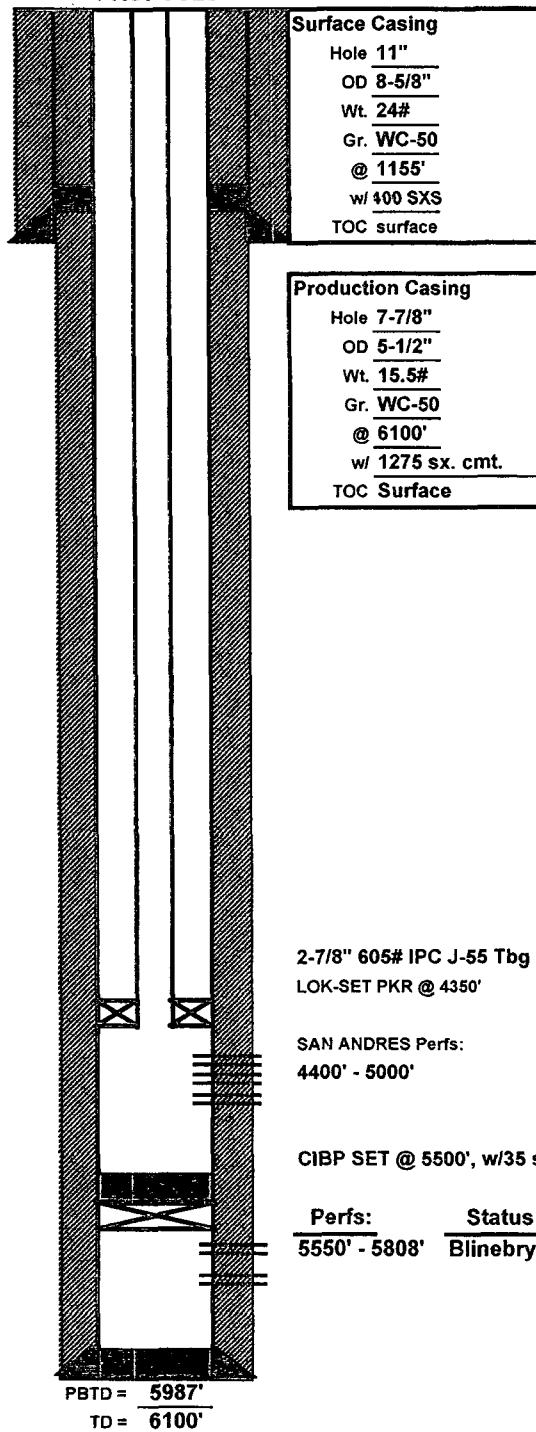
GE: 3517' KDB to GE: _____ DF to GE: _____

Spud Date: 5/4/1996

Completion Date: 6/5/1996

Initial Formation: BLINEBRY

PROPOSED



Interval Completed: From: 5550' To: 5808'

Initial Production: BOPD: 11
MCFPD: 250
BWPD: 14

Completion Data:

Perf'd 5550'-5808' @ 2 JSPF

W/4" csg gun, 120 deg Phasing

57' ; 114 holes

Acidz w/6000 gals 15% NEFE

Frac w/28,000 gals 35# Borate XLG

Subsequent Workovers/Reconditionings/Repairs:

8/12/2002 No rod failure, but severe paraffin

3/5/1998 Pmp Stuck w/paraffin.

Unseat pump & POOH.

Fish rod part & change Pmp.

GIH w/pump & rods, load & tst.

Well didn't make anything on tst.

2-7/8" 605# IPC J-55 Tbg

LOK-SET PKR @ 4350'

SAN ANDRES Perfs:

4400' - 5000'

CIBP SET @ 5500', w/35 sx cmt on top

Perfs:	Status
5550' - 5808'	Blinbry - open

PBTD = 5987'

TD = 6100'

Additional Remarks or Information:



A. M. Howell
Advisor Petr. Engineer
Permian Basin

Mid-Continent Business Unit
Chevron U.S.A. Inc.
15 Smith Rd.
Midland, Texas 79705
Tel 432-687-7516
Fax 432-687-7871
maho@chevron.com

July 7, 2005

Mr. Will Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87504

SWD Applications For Henderson 15 & McComack # 24
Sections 30 & 32, T-21-S, R-37-E,
Lea County, New Mexico

Dear Mr. Jones:

Attached please find the information requested in your e-mail dated June 20, 2005. If you have questions or need additional information please telephone me at (432) 687-7516 or e-mail me at maho@chevron.com.

Thank you.

Yours truly,

A handwritten signature in cursive script that reads "Mike Howell".

Mike Howell

2005 JUL 14 PM 12 14

Chevron

SWD Application: McCormack # 24 (currently CDU #405) and Henderson # 15

I.) Geological Data

The San Andres formation has been chosen for water disposal in both of the subject wells.

The San Andres formation is a thick, porous dolomite exhibiting excellent porosity ranging from 10-20%.

This porosity provides excellent pore space for the disposal of produced water. Porosity barriers exist in the upper and lower portions of the San Andres formation and should prevent migration of water either upward or downward into other formations.

McCormack # 24

Top Grayburg = 3649'

Top San Andres = 3960'

Top Glorieta = 5101'

The proposed injection depths within the San Andres are as follows;

4510-4550'

4575-4590'

4575-4590'

4620-4700'

4720-4770'

4795-4840'

4860-4950'

4970-5000'

The nearest offset deeper producing well on the Chevron lease is the Central Drinkard Unit # 152 which is producing from the Drinkard (6622-6499'). This well is ~400' west of the #24.

The nearest offset shallow producing well on the Chevron lease is the McComack #4 which is producing from the Grayburg (3770-3610'). This well is ~450' west of the #24.

Henderson # 15

Top Grayburg = 3635'

Top San Andres = 3939'

Top Glorieta = 5102'

The proposed injection depths within the San Andres are as follows;

4575-4590'

4620-4740'

4760-4770'

4795-4828'

4850-4900'

4934-4940'

4965-4990'

The nearest offset producing well on the Chevron lease is the Henderson #17 which is producing from the Grayburg (3931-3635'). This well is ~650' northeast from the #15. The Henderson # 3 was a SWD well from 1974 – 1982 in the Grayburg and San Andres (3815-4068'). This well is ~1100' southeast from the #15. From 1982 to 2002 this well produced from the Blinberry and Drinkard. In 2004 well became producer in the Grayburg (3647-3842'). This is evidence that the proposed disposal depths should not effect offset production.

The deepest known fresh water in this immediate area is the Ogallala formation at a depth of 100-400', ~4000' above the proposed disposal zones, therefore the fresh water aquifer should be of no threat from the disposal.

The information noted above is accurate to my knowledge. I have worked in the Permian Basin for ~ 19 years. My credentials have been accepted by the NMOCD as an expert witness.

Tim Denny

Staff Geologist

Chevron U.S.A.

Telephone (432) 687-7343

Chevron U.S.A

SWD Application: McComack # 24 (currently CDU #405) and Henderson # 15

2.) Nearest Producing Pools (Depths 2500' To 4500')

McComack # 24

<u>Pool</u>	<u>Formation</u>	<u>Approximate Depth</u>
Eumont	Yates/7 Rivers/Queen	2700' – 3700'
Penrose Skelly	Grayburg	3700' – 3950'
Eunice; San Andres	San Andres	3950' – 5100'
Paddock	Paddock	5100' – 5650'

Henderson # 15

<u>Pool</u>	<u>Formation</u>	<u>Approximate Depth</u>
Eumont	Yates/7 Rivers/Queen	2700' – 3700'
Penrose Skelly	Grayburg	3700' – 3950'
Eunice; San Andres, West	San Andres	3950' – 5100'
Paddock	Paddock	5100' – 5650'

3.) Area Of Review Wells With TOC 2700' – 4500'

Top perforations in both wells will be below 4500' (Henderson # 15 = 4505' and McComack # 24 = 4510'). There is a correlatable and continuous porosity barrier (over both areas of review) at 4500', so any fluid injected below 4500' should stay there if all wells within each disposal well's injection radius has a cement top of at least 4500'. All wells within the Henderson # 15 area of review have a cement top above 4500', so this discussion will be limited to the McComack # 24 area of review.

There are 5 wells within the McComack # 24 area of review with cement tops below at or below 4500'. They are:

<u>API</u>	<u>Well</u>	<u>Cement Top</u>	<u>Distance From McComack # 24</u>
30-025-06956	Downes D # 3	5120'	1615'
30-025-06962	Central Drinkard Unit # 148	4900'	2485'
30-025-06967	J. G. Hare # 7	4500'	2510'
30-025-10043	Rinewalt A # 1	4500'	2495'
30-025-10044	Rinewalt B # 1	6450'	2850'
30-025-10070	Simmons # 1	3700'	2435'

Also listed above is the Simmons # 1 cited in your e-mail. It has cement up to 3700' which should be sufficient to contain all injected water.

Of the wells listed above, the nearest to McComack # 24 is the Downes D # 3 so it is the most likely to be affected by the proposed water disposal. However, I believe that it will **not** be affected for the following reasons.

- 1) The San Andres is a water drive reservoir and has higher BHP than the shallower Grayburg and Eumont zones which are currently exposed above the cement top in the Downes D # 3 wellbore. Therefore, unless the annulus between casing and open-hole has filled with formation sediments/sand, cross-flow is probably occurring at the present time. Based on my experience, there is a good possibility that the annulus is filled

with material that is preventing cross-flow between zones. Either way, injection into McComack # 24 will not affect Downes D # 3. If crossflow *is* occurring, injection into McComack # 24 will not change that fact. If it is *not* occurring due to fill in the annulus, the only way injection into McComack # 24 could affect that is if the injection increased the San Andres reservoir pressure enough to break down the seal formed by the fill. Since the San Andres is a water drive reservoir, not volumetric, injection into the zone will not change the reservoir pressure and any seal that currently exists should continue.

- 2) Volumetrics calculations using 350' net thickness, 15% average porosity and assuming radial flow, show that over 77,000,000 barrels of water would have to be injected before the injection water front reaches Downes D # 3. At the average daily injection rate of 2,000 barrels per day, it would take *105 years* to inject that volume. At the maximum daily rate of 10,000 barrels per day, it would still take over 21 years. Since the produced water from the McComack lease goes into the Rice Operating Company SWD system for disposal, and the McComack # 24 will only be used as an emergency backup, the injection water front will most likely *never* reach Downes D # 3.

Since all of the other wells listed above are considerably further away from McComack # 24 than the Downes D # 3, disposal into the McComack # 24 will not have any affect on them either.

4.) Notifications

Notification letters were sent by registered mail to offset operators (Zia, Apache, Homestake, Campbell & Hedrick, John Hendrix, Hanson, & Arch) on April 25, 2005. Chevron received delivery receipts for all except the letter to Homestake. It came back as undeliverable and we were unable to find a different address for the company.

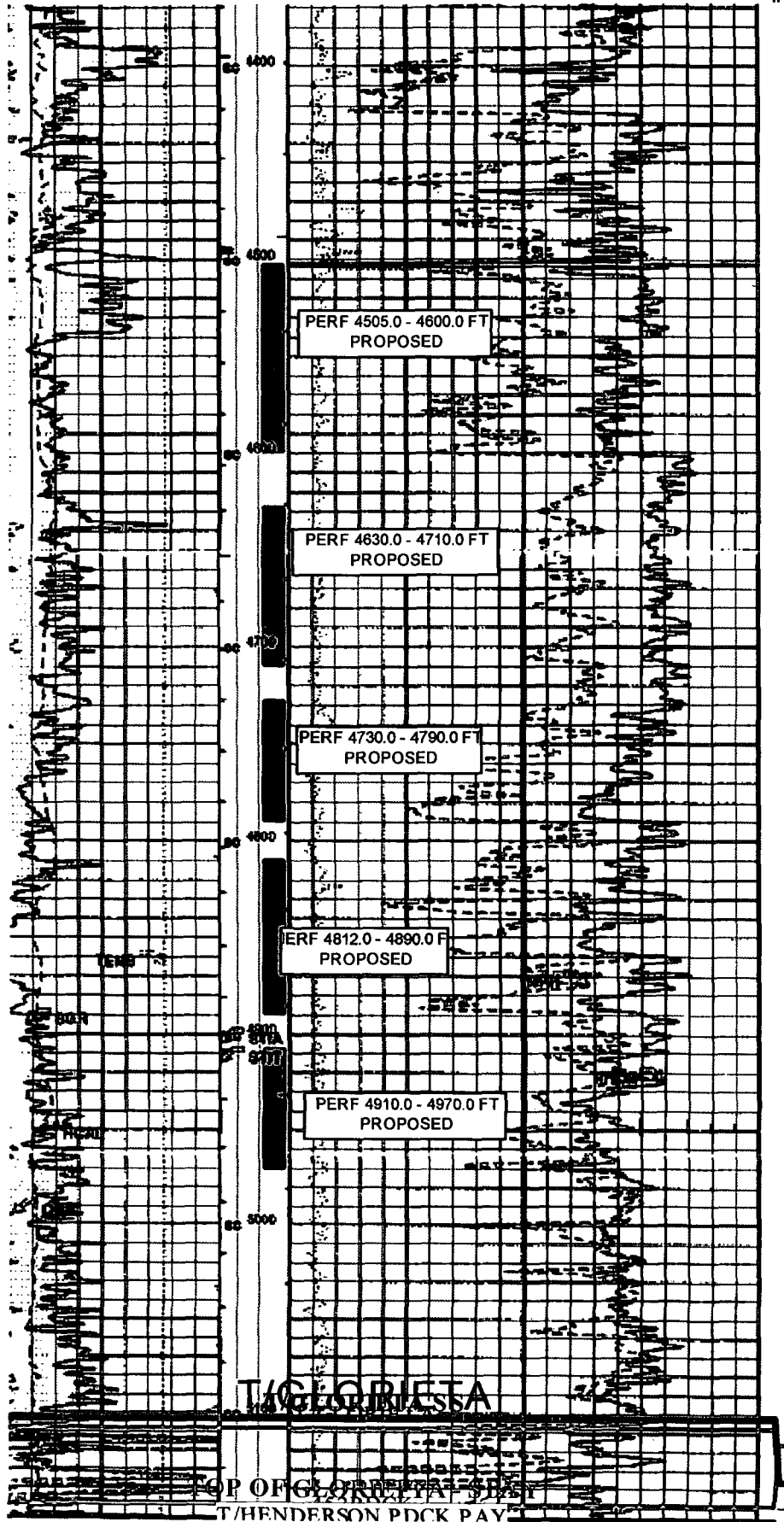
The surface owner on the McComack lease is Mrs. Aline Sims and the owners on the Henderson lease are Tom & Winnie Kennann. Our field operations personnel preferred to notify them in person, so letters were not mailed, initially. They were verbally notified by our field landman, Hollis Cox, during February 2005. Following receipt of your e-mail, certified notification letters were mailed to them on July 6, 2005.

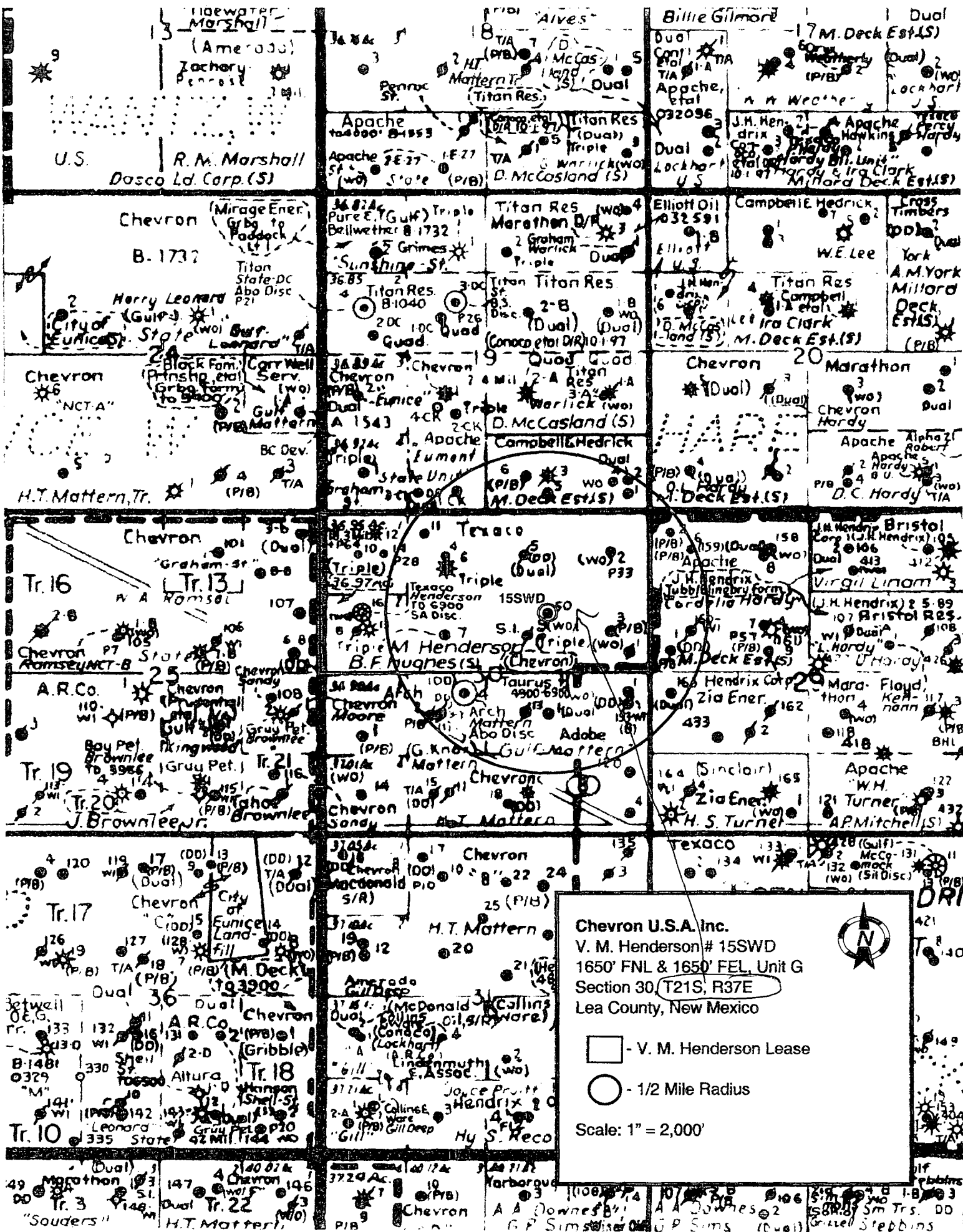
Copies of all notification letters are attached.

The information noted above is accurate to the best of my knowledge. I have worked in the industry for 30 years and in the Permian Basin for the last 19 years.

Mike Howell
Advisor Petroleum Engineer
Chevron U.S.A.
Telephone (432) 687-7516

TEXACO
HENDERSON 15
TD 6100
30025333280000
021.0S 037.0E 030





Chevron USA, Inc. SWD Application 6/22/2005							
API	WELL NAME	TVD DEPTH	LAND TYPE	WELL TYPE	OC/OI	SPUD DATE	PLUG DATE
30-025-33328	V M HENDERSON #015	6100 P	O	O	G	1996-05-04	
30-025-06904	CENTRAL DRINKARD UNIT #119	6624 P	I	I	I		
30-025-06893	CENTRAL DRINKARD UNIT #160	6655 P	I	E	E		
30-025-09935	CENTRAL DRINKARD UNIT #163	6640 P	O	L	L		
30-025-06889	CORDELIA HARDY #001	5400 P	O	O	E		
30-025-06894	CORDELIA HARDY #006	6660 P	O	O	D	1948-03-27	
30-025-20004	GULF MATTERN #001	6722 P	O	O	J		
30-025-06674	HARDY #002	6680 F	O	O	P	1953-09-11	
30-025-06676	HARDY #004	5170 F	O	O	P	1959-12-08	
30-025-06677	HARDY #005	5950 F	O	O	O	1960-10-20	
30-025-25509	HARDY #006	9250 F	O	O	O	1977-04-24	
30-025-23535	MATTERN #002	6012 P	G	G	K	1970-06-18	1975-05-08
30-025-20725	MATTERN #003Y	6754 P	S	S	K		
30-025-33544	MATTERN #004	6818 P	O	O	K	1997-03-05	
30-025-06672	STATE CK #001	6753 S	O	N	N		
30-025-06908	V M HENDERSON #002	6674 P	G	G	A	1947-10-07	
30-025-06909	V M HENDERSON #003	6657 P	O	O	H	1950-05-20	
30-025-06911	V M HENDERSON #005	6017 P	O	O	B		
30-025-06912	V M HENDERSON #006	6700 P	G	G	C		
30-025-06913	V M HENDERSON #007	6745 P	G	G	F		
30-025-06915	V M HENDERSON #009	6757 P	O	O	G	1962-03-05	2001-11-27
30-025-29511	V M HENDERSON #011	5270 P	O	O	C		

Half-mile radius.											
Area of Review.											
API	Well	Well #	Operator	Well Type	SEC/TWN/RGE	Location	County	Spud	Completion	Total Depth	Formation
1 30-025-06893	CENTRAL DRINKARD UNIT ✓	160	CHEVRON U S A INC ✓	INJ	E-29-21S-37E	1980' FNL & 660' FWL	Lea	1/13/1948	3/20/1948	6655	DRINKARD
2 30-025-06904	CENTRAL DRINKARD UNIT ✓	119	CHEVRON U S A INC ✓	INJ	I-30-21S-37E	2160' FSL & 330' FEL	Lea	7/23/1949	8/30/1949	6624	DRINKARD
3 30-025-09935	CENTRAL DRINKARD UNIT ✓	163	CHEVRON U S A INC ✓	OIL	L-29-21S-37E	2310' FSL & 330' FWL	Lea	5/10/1937	8/16/1937	6650	DRINKARD
4 30-025-20004	GULF-MATERN ✓	1	HENDRIX JOHN H CORP ✓	OIL	J-30-21S-37E	1980' FSL & 1650' FEL	Lea	5/27/1963	7/10/1963	6722	DRINKARD
5 30-025-25509	HARDY ✓	6	CAMPBELL & HEDRICK ✓	OIL	O-19-21S-37E	660' FSL & 1980' FEL	Lea	4/24/1977	7/17/1977	9250	DRINKARD
6 30-025-06889	HARDY CORDELLA ✓	1	HENDRIX JOHN H CORP ✓	OIL	E-29-21S-37E	2310' FNL & 330' FWL	Lea	6/24/1937	10/1/1937	5400	GRAYBURG
7 30-025-06890	HARDY CORDELLA ✓	2	HENDRIX JOHN H CORP ✓	OIL	D-29-21S-37E	330' FNL & 330' FWL	Lea	9/16/1938	11/9/1938	3820	EUMONT
8 30-025-06894	HARDY CORDELLA ✓	6	HENDRIX JOHN H CORP ✓	OIL	D-29-21S-37E	660' FNL & 660' FWL	Lea	3/27/1948	5/17/1948	6650	Blineby
9 30-025-36477	HARDY PERCY ✓	9	APACHE CORPORATION ✓	OIL	O-17-21S-37E	330' FSL & 1520' FEL	Lea	2/20/2004	3/23/2004	4350	GRAYBURG
10 30-025-06671	HARDY-FEDERAL ✓	1	CAMPBELL & HEDRICK ✓	OIL	P-19-21S-37E	330' FSL & 330' FEL	Lea	7/16/1937	2/18/1938	3821	GRAYBURG
11 30-025-06674	HARDY-FEDERAL ✓	2	CAMPBELL & HEDRICK ✓	OIL	P-19-21S-37E	430' FSL & 330' FEL	Lea	9/11/1953	10/13/1953	6662	DRK/ BLINERY
12 30-025-06675	HARDY-FEDERAL ✓	3	CAMPBELL & HEDRICK ✓	OIL	O-19-21S-37E	660' FSL & 1650' FEL	Lea	12/4/1957	12/31/1957	4320	GRAYBURG
13 30-025-06676	HARDY-FEDERAL ✓	4	CAMPBELL & HEDRICK ✓	OIL	P-19-21S-37E	530' FSL & 530' FEL	Lea	11/4/1959	11/25/1959	5210	PADDOCK
14 30-025-06677	HARDY-FEDERAL ✓	5	CAMPBELL & HEDRICK ✓	OIL	O-19-21S-37E	330' FSL & 1650' FEL	Lea	10/20/1980	12/8/1960	6000	PADDOCK/ BLINERY
15 30-025-06907	VM HENDERSON ✓	1	CHEVRON U S A INC ✓	OIL	H-30-21S-37E	2319' FNL & 330' FEL	Lea	12/5/1936	1/7/1937	3820	GRAYBURG
16 30-025-06908	VM HENDERSON ✓	2	CHEVRON U S A INC ✓	OIL/ GAS	A-30-21S-37R	660' FNL & 660' FEL	Lea	10/7/1947	4/8/1948	6674	GRAYBURG
17 30-025-06909	VM HENDERSON ✓	3	CHEVRON U S A INC ✓	OIL	H-30-21S-37E	1980' FNL & 660' FEL	Lea	5/20/1950	7/11/1950	6662	GRAYBURG
18 30-025-06910	VM HENDERSON ✓	4	CHEVRON U S A INC ✓	GAS	C-30-21S-37E	660' FNL & 1980' FWL	Lea	8/6/1955	8/22/1955	3865	YATES/TRANS/ QUEEN
19 30-025-06911	VM HENDERSON ✓	5	CHEVRON U S A INC ✓	OIL	B-30-21S-37E	660' FNL & 1980' FEL	Lea	11/19/1958	1/10/1959	5210	GRAYBURG
20 30-025-06912	VM HENDERSON ✓	6	CHEVRON U S A INC ✓	OIL	C-30-21S-37E	760' FNL & 1980' FWL	Lea	9/16/1961	12/27/1961	6700	GRAYBURG

21	30-025-06913	VM HENDERSON	7	CHEVRON U S A INC	OIL	F-30-21S-37E	1980' FNL & 1980' FWL	Lea	1/5/1962	4/5/1962	6756	PADDOCK / DRK / PENROSE / SKELLY
22	30-025-06915	VM HENDERSON	9	CHEVRON U S A INC	OIL	G-30-21S-37E	1980' FNL & 1980' FEL	Lea	3/5/1962	4/6/1962	6757	PADDOCK / TUBB
23	30-025-29511	HENDERSON VM	11	CHEVRON U S A INC	OIL	C-30-21S-37E	330' FNL & 1650' FWL	Lea	1/4/1986	2/2/1986	5270	PADDOCK
24	30-025-33328	HENDERSON VM	15	CHEVRON U S A INC	OIL	G-30-21S-37E	1650' FNL & 1650' FEL	Lea	5/4/1966	6/16/1996	6100	BLINEBRY / SAN ANDRES
25	30-025-36742	HENDERSON VM	17	CHEVRON U S A INC	OIL	A-30-21S-37E	1308' FNL & 1120' FEL	Lea	9/14/2004	10/14/2004	4357	GRAYBURG
26	30-025-20725	HT MATTERN	3V	HANSON OPERATING CO INC.	OIL	K-30-21S-37E	1980' FSL & 1882' FWL	Lea	4/13/1964	6/3/1964	6754	SAN ANDRES
27	30-025-23535	MATTERN	2	ARCH PETROLEUM	GAS	K-30-21S-37E	1980' FSL & 1783' FWL	Lea	6/18/1970	7/12/1970	6012	EUMONT
28	30-025-33544	MATTERN	4	ARCH PETROLEUM	OIL	K-30-21S-37E	2310' FSL & 2310' FEL	Lea	3/5/1997	4/27/1997	7147	WEST WANTZ ABO
29	30-025-06900	MATTERN B	1	CHEVRON U S A INC	OIL	I-30-21S-37E	2310' FSL & 330' FEL	Lea	3/2/1937	4/12/1937	3813	GRAYBURG
30	30-025-06906	MATTERN HT B	13	CHEVRON U S A INC	DRY	J-30-21S-37E	1980' FSL & 1980' FEL	Lea	2/18/1961	8/18/1961	3825	EUMONT - Sold
31	30-025-06672	STATE CK	1	APACHE CORP.	OIL	N-19-21S-37E	330' FSL & 2209' FWL	Lea	11/23/1961	1/2/1962	6753	DRK / PADDOCK

Application - Well

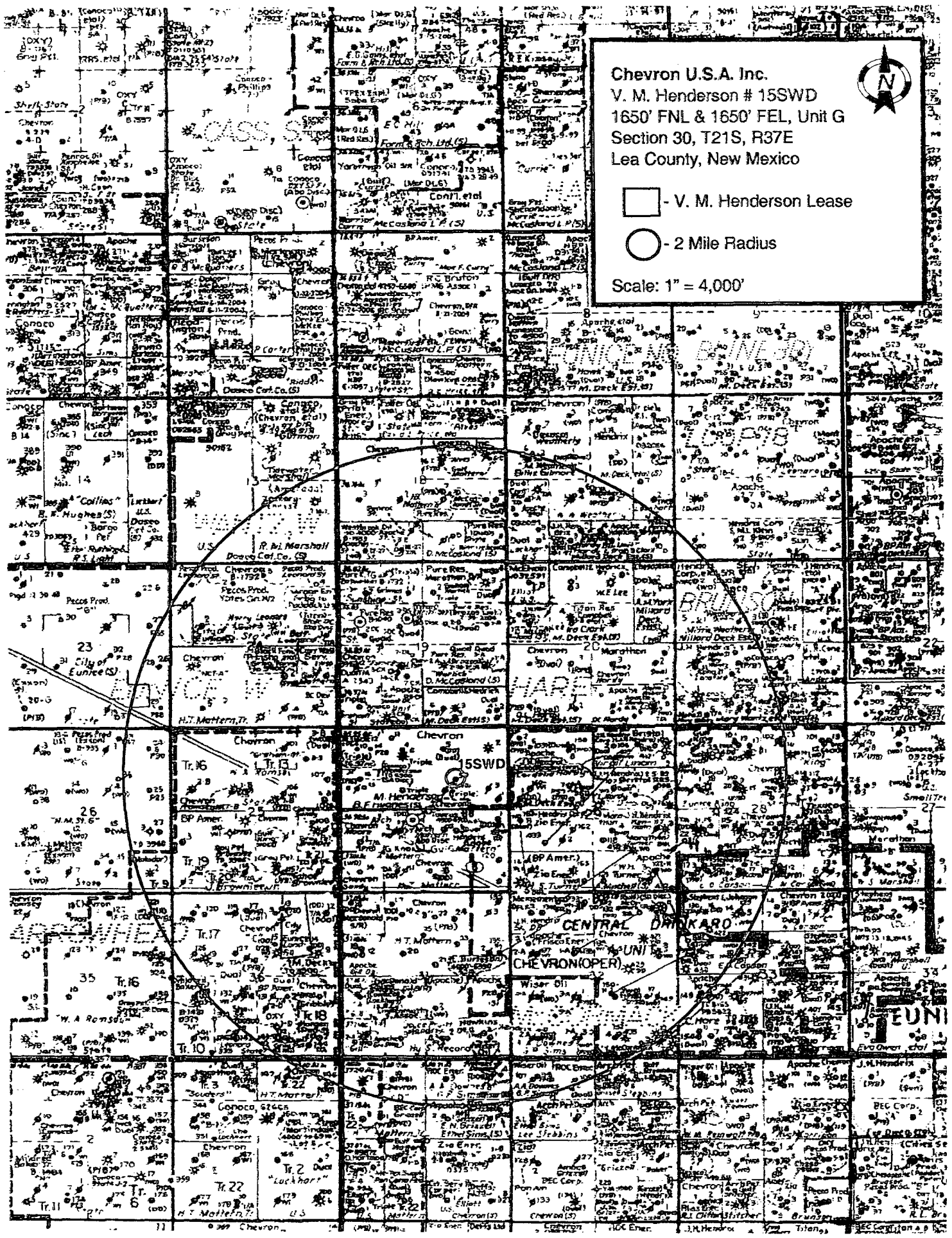
2-025-37162 H.S. Turner #4 ZIA Energy Inc. S Haller

Chevron U.S.A. Inc.
V. M. Henderson # 15SWD
1650' FNL & 1650' FEL, Unit G
Section 30, T21S, R37E
Lea County, New Mexico



-  - V. M. Henderson Lease
-  - 2 Mile Radius

Scale: 1" = 4,000'



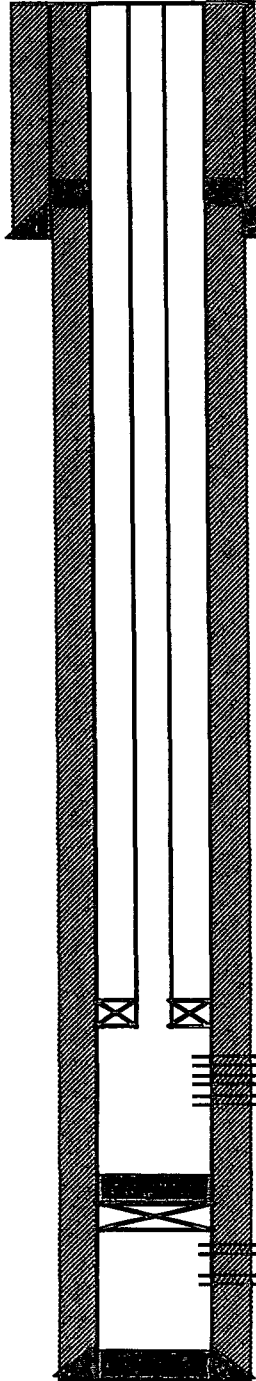
SAN ANDRES

WELL NAME: V.M. HENDERSON #15 SWD		FORMATION: SAN ANDRES
LOCATION: 1650' FNL & 1650' FEL	SEC: 30	API: 30-025-33328
TOWNSHIP: 21S	COUNTY: LEA	CHEVNO: BI9442
RANGE: 37E	STATE: NEW MEXICO	STATUS: INJECTOR

GE: 3517' KDB to GE: _____ DF to GE: _____

Spud Date: 5/4/1996
 Completion Date: 6/5/1996
 Initial Formation: BLINEBRY

PROPOSED



Surface Casing

Hole 11"
 OD 8-5/8"
 Wt. 24#
 Gr. WC-50
 @ 1155'
 w/ 400 SXS
 TOC surface

Production Casing

Hole 7-7/8"
 OD 5-1/2"
 Wt. 15.5#
 Gr. WC-50
 @ 6100'
 w/ 1275 sx. cmt.
 TOC Surface

Interval Completed: From: 5550' To: 5808'

Initial Production: BOPD: 11
 MCFPD: 250
 BWPD: 14

Completion Data:

Perf'd 5550'-5808' @ 2 JSPF
W/4" csg gun, 120 deg Phasing
57' ; 114 holes
Acadz w/6000 gals 15% NEFE
Frac w/28,000 gals 35# Borate XLG

Subsequent Workovers/Reconditionings/Repairs:

8/12/2002 No rod failure, but severe paraffin
3/5/1998 Pmp Stuck w/paraffin.
Unseat pump & POOH.
Fish rod part & change Pmp.
GIH w/pump & rods, load & tst.
Well didn't make anything on tst.

3-1/2" 930# IPC J-55
LOK-SET PKR @ 4350'

SAN ANDRES Perfs:
4400' - 5000'

CIBP SET @ 5500', w/35 sx cmt on top

Perfs:	Status
<u>5550' - 5808'</u>	<u>Blinebry - open</u>

PBTD = 5987'
 TD = 6100'

Additional Remarks or Information: _____

WELL NAME: HARDY-FEDERAL # 2
LOCATION: 430' FSL & 330' FEL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CAMPBELL & HEDRICK
DHC COMPLETION: BLINEBRY GAS & DRINKARD OIL

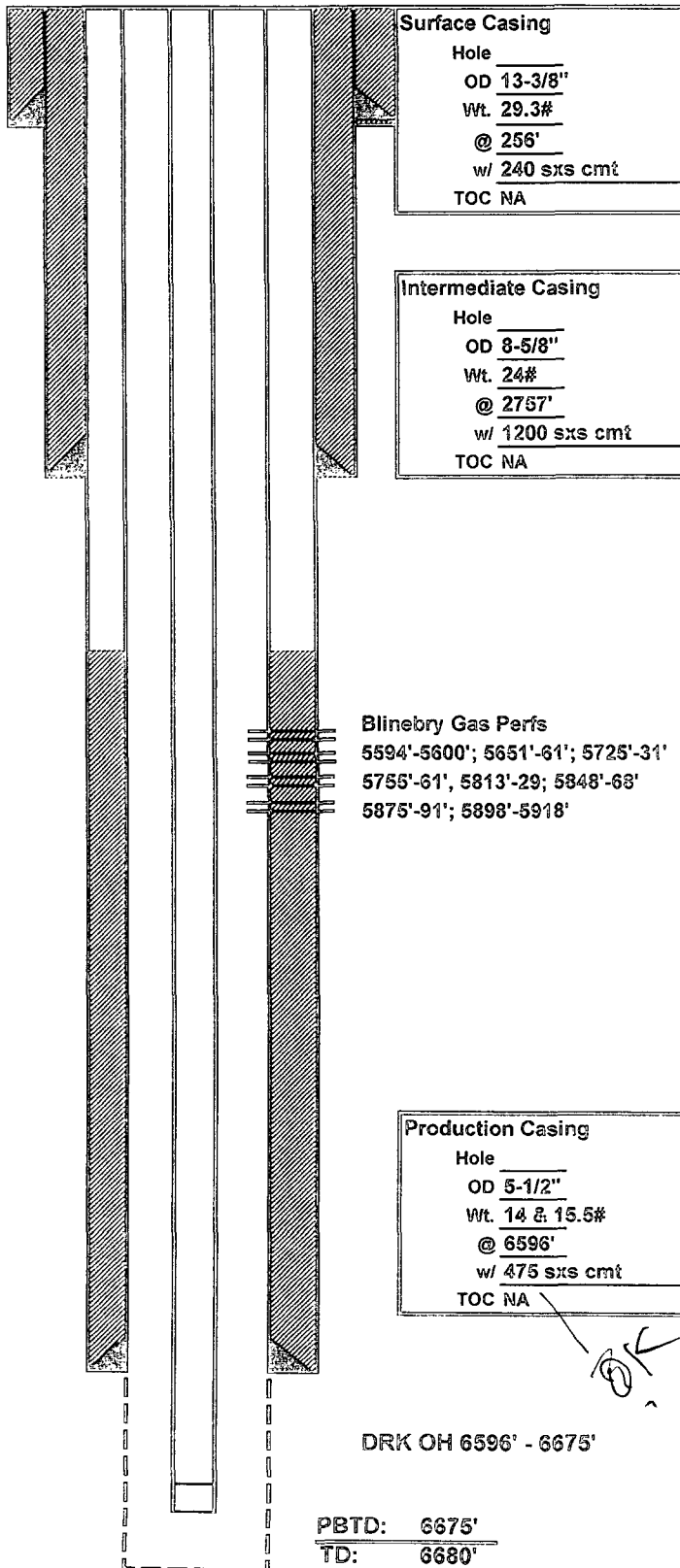
FORMATION: DRINKARD/BLINEBRY
SEC: 19
COUNTY: LEA
STATE: NEW MEXICO
UNIT LETTER: P
API: 30-025-03674
CHEVNO: NA
STATUS: OIL WELL

GL: _____ KDB: _____

DF: 3503'

Spud Date: 9/11/1953
Completion Date: 10/13/1953
Initial Formation: DRINKARD

CURRENT



Interval Completed: From: 6596' To: 6662'

Initial Production: BOPD: 85
MCFPD: _____
BWPD: _____

Completion Data:
Acidz w/1500 gals of acid

Subsequent Workovers/Reconditionings/Repairs:
5-20-57 Frac w/10,000 gals refined oil & 3/4# Sd per gal. (6596' - 6675')
8-13-58 Set Bkr Model 'D' prod Pkr @ 6534'.
Tst csg & Pkr, OK. Perf: 5594'-5600'; 5651'-5661'; 5725'-5731'; 5755'-5761'; 5813'-5829'; 5848'-5868'; 5875'-5891' & 5898'-5918', w/ 2 SPF. Sd frac w/20,000# sd & 20,000 gals refined oil..
12-5-60 Well reclassified as an Oil well.
5-23-72 Rpr Drk string leak which latched into Pkr. RTP.
6-24-80 Pull dual strings, replace w/one string of 2-3/8". DHC -226 APPROVED
Blinebry 62% Oil _87% Gas & DRK 38% Oil _13% Gas

WELL DATA SHEET

FIELD: Drinkard
 LOC: 1980' FNL & 660' FWL
 TOWNSHIP: 21S
 RANGE: 37E
 Unit Letter: E

WELL NAME: Central Drinkard Unit # 160
 SEC: 29
 COUNTY: Lea
 STATE: NM

GL: 3492'
 KB to GL: '
 DF to GL:

FORMATION: Drinkard
 CURRENT STATUS: IJ
 API NO: 30-025-06893
 CHEVNO: FA7990

Date Completed: 3-14-48	Initial: Production
Initial Formation: Drinkard	305 BOPD
FROM: 6570 TO: 6630	0 BWPD

Completion data:

March 1948: perf Drk 6580-6630 w/ 6 SPF (150 holes),
 acidize w/ 2000gal 20% low tension acid

Subsequent Workover or Reconditioning:

(3-15-74) perf @ 6644-48, 6566-70, 6554-58, acidize w/
 7000gal 15% NEFE HCL in 5 stages

(4-28-74) start inj, 450 BW in 22hrs

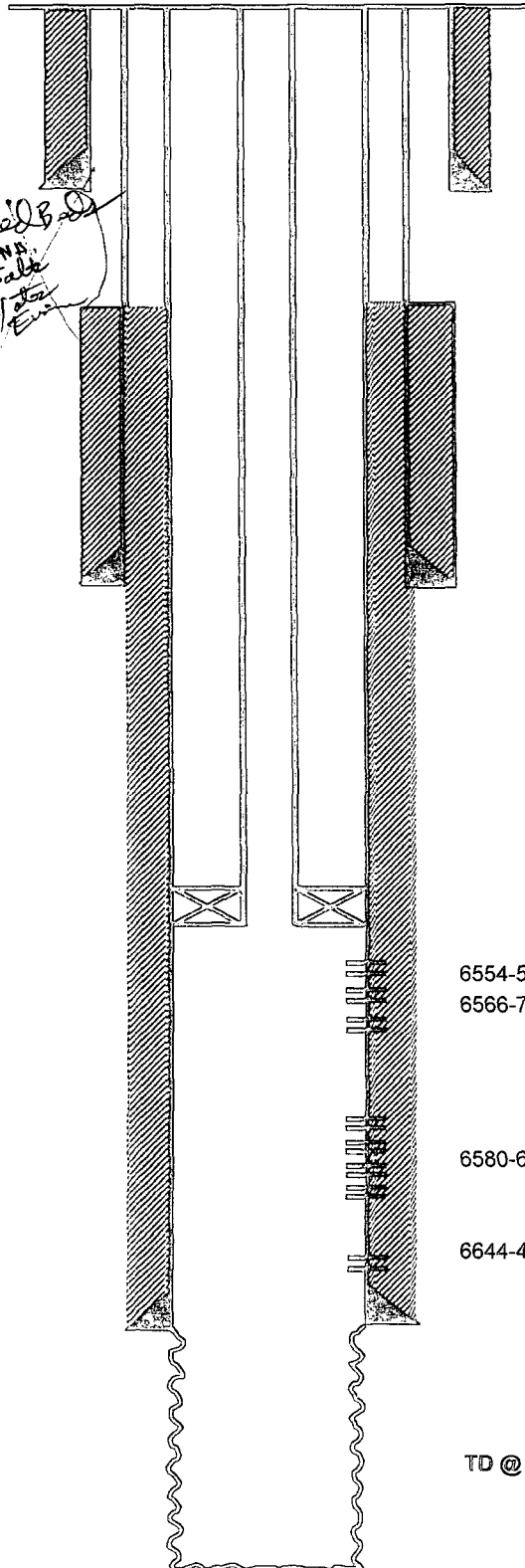
(6-27-80) acidize w/ 500gal 15% NEFE, inj rate before:
 127bbl, inj rate after: 327bbl

(9-9-86) acidize perms w/ 1000gal 15% NEFE HCL

13-3/8" OD
 Set @ 301' w/ 250 sx

9-5/8" OD, 36, 40, 42# J-55
 csg set @ 2950'
 w/ 1000 sx cmt
 TOC @ 3300' by calc.

7" OD, 23#, Gr. N-80 & J-55
 csg @ 6655' w/ 550 sks cmt
 TOC @ 3300'



6554-58
 6566-70

6580-6630

6644-48

TD @ 6655'

FILE: CDU160.XLS
 cwelch
 updated: chay

WELL DATA SHEET

LEASE: Central Drinkard Unit WELL: 119 WI
 LOC: 330' F E L & 2160' F S L SEC: 30
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 37E UNIT: I ST: N.M.

FORM: DRINKARD GAS DATE: 2/9/2005
 GL: 3484' STATUS: Wtr Injection
 KB: 3495' API NO: 30-025-06904
 DF: _____ CHEVNO: FA 8001
 Date Completed: 9/9/49
 Initial Production: 93 BOPD
 Initial Formation: DRINKARD
 FROM: 6542'-6568'

13-3/8" OD
 48# CSG
 Set @ 293 W/ 300 SX
 Cmt circ.? Yes
 TOC @ Surf
 (17-1/4" hole)

9-5/8" OD
 36# CSG H-40
 Set @ 2800 W/ 300 SX
 Cmt circ.? _____
 TOC @ 850' bu TS

Completion Data

Acidz OH (6529'-68') w/3,000 gals.

Subsequent Workover or Reconditioning:

7/58 - Frac'd OH w/ 20,000 gals Lse oil & 1# SPG.
 1/62 - Perf'd 5756'-58', 5790'-92', 5813'-15', 5843'-45', 5862'-64', 5897'-99'.
 Acidz perms w/ 2500 gals 15% NEA. Frac perms w/ 24,000 gals 24 gvt ref oil,
 w/ 1/40# Ado M-II & 48,000# of 20/40 sd.
 10/72 - Perf'd 5481'-83', 5551'-53', 5580'-82', 5618'-20', 5644'-46'. Acidz
 w/250 gals. Frac'd new perms w/25,000 gals gell'd Br & 47,500# 20/40 sand.
 4/74 - Dpn OH to 6631'. Acidz OH 6529'-6624', w/5500 gals 15% HCL. Acidz
 perms 5481'-5899' w/1500 gal 15% HCL.
 7/76 - Sqzd Blinbry perms 5481'-5899', w/900 sx. Ran 4-1/2" ln, set @
 6630' w/173 sx. Perf'd 6553'-57', 6594'-98', 6615'-19', w/ 0.5" 4 JHPF. Acidz
 perms 6553'-6619' w/3,000 gals 15% hcl.
 6/80 - Trtd perms w/500 gals 15% NEFE double inhibited acid.
 9/85 - Ck for Csg Leaks.
 12-95 - Tag TD @ 6625'; Acidz w/2500 gals 15% NEFE HCL. (no drill
 report)
 12/02 Perf & stim. 6522'-44', 6546'-49', 6554'-60', 6562'-71'
 6573'-79', 6581'-91', 6595'-6611', 6615'-6619', 4jspf
 acidize w/ 2500gals 20 % hcl.
 1/2005 - Looked for csg leak, none found, repair wellhead- 1.78" F profile, 2
 3/8" IPC tbg

1/2005- pkr set
 @ 6459'- 1.78"
 profile

TOL @ 6376'

7" OD
 23# CSG N-80, J-55
 Set @ 6529' W/ 700 SX
 Cmt circ.? No
 TOC @ 1720' by TS
 8-3/4" hole

New Perfs 12/02

6522'-44', 6546'-49',
 6554'-60', 6562'-71',
 6573'-79', 6581'-91',
 6595'-6611', 6615'-6619
 4jspf

4-1/2" OD, 11.6#
 K-55 Liner
 Set @ 6630' w/173 sx.

6553'-57'
 6594'-98'
 6615'-19' } 0.5", 4 JHPF

PBD: 6629'
 TD: 6630'

FILE: CDU_#119wbd.xls

WELL DATA SHEET

FIELD: Drinkard
LOC: 2310' FSL & 330' FWL
TOWNSHIP: 21S
RANGE: 37E

WELL NAME: Central Drinkard Unit # 163
SEC: 29
COUNTY: Lea
STATE: NM

GL: 3478'
KB to GL: 11'
DF to GL:

FORMATION: Drinkard
CURRENT STATUS: Producer
API NO: 30-025-09935
Chevno: FB0953

Spud: 5-10-37

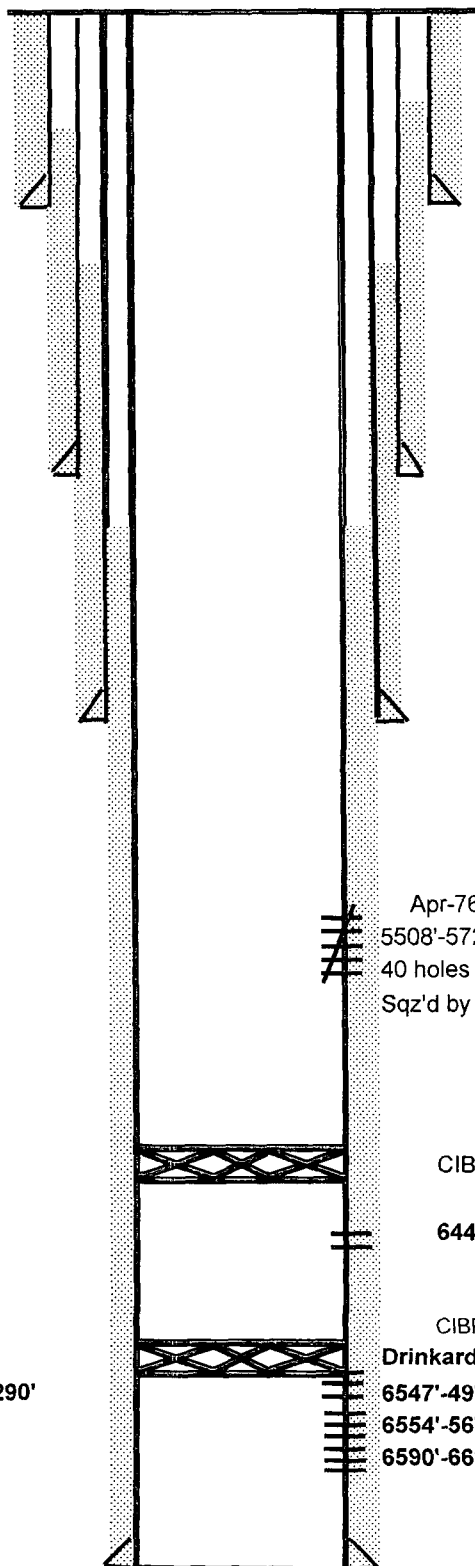
Date Completed: 8-16-37	Initial: Production
Initial Formation: Drinkard	48 Oil
FROM:	TO:

12-1/2" OD Set @ 140'
w/ 200 sx cmt, Circ Cmt.
15" hole

8-5/8" OD, 28 #, H-40
csg set @ 1205'
w/ 250 sx cmt, did not circ.
TOC @ by TS.
10" hole

7" OD, 24#,
csg @ 3658' w/150 sks cmt
TOC @
8" hole

5" OD, 15#, J-55 csg
set @ 6637', w/300 sx cmt.
Cmt did not circ, TOC @ 3290'



Completion data:

12-7-47 Acdz Drk, 6590'-6626', w/1500 gals 15% Acid.

Subsequent Workover or Reconditioning:

10-19-49 Acdz Drk 6590'-6626' w/4000 gals LT acid.

12-20-57 Frac Drk 6590'-6626 w/11,900 gals oil & 11,000 # sd.

2-13-64 Acdz Drk 6590'-6626' w/1000 gals acid.

6-13-68 Drk CI

10-21-74 PE Installed.

4-29-76 Perf 6554'-56' and 6547'-49' w/4 - 1/2" JHPF. Trt new perms w/4000 gals of 15% NE HCL, ISIP = 1500#. 15 min = 1500#.

12-3-82 Acdz Drk w/1000 gals of 15% NEA.

8/22/83 Dmp acid, 750 gals 15% NEA.

10-3-84 Frac w/35,000 gals gel, 63,500# 20/40 sd in 1 stage. CO fill to 6617'. 12 BO, 78 BW, 78 MCF Gas

12-8-86 Chemical Squeeze.

5/04- Set CIBP 6500', Perf 6449,6450,6451,6458, 6459, 6460, 6464, 6466, 6468, 6470 to test.. Ran BHP survey 2408 psi at 6413', .44 gradient, FL 1987'.

Apr-76
5508'-5724'
40 holes
Sqz'd by Arco

CIBP @ 6400', top w/35' cmt

6449'-6470' (5/04)

CIBP @ 6500'

Drinkard 210 holes

6547'-49'

6554'-56'

6590'-6626'

PBD @ 6637'
TD @ 6640'

FILE: CDU163.XLS
JDW 2/2005

WELL NAME: GULF MATTERN #1
 LOCATION: 1960' FSL & 1650' FEL
 TOWNSHIP: 21S
 RANGE: 37E
 OPERATOR: JOHN H. HENDRIX CORPORATION

UNIT LETTER: J
 SEC: 30
 COUNTY: LEA
 STATE: NEW MEXICO

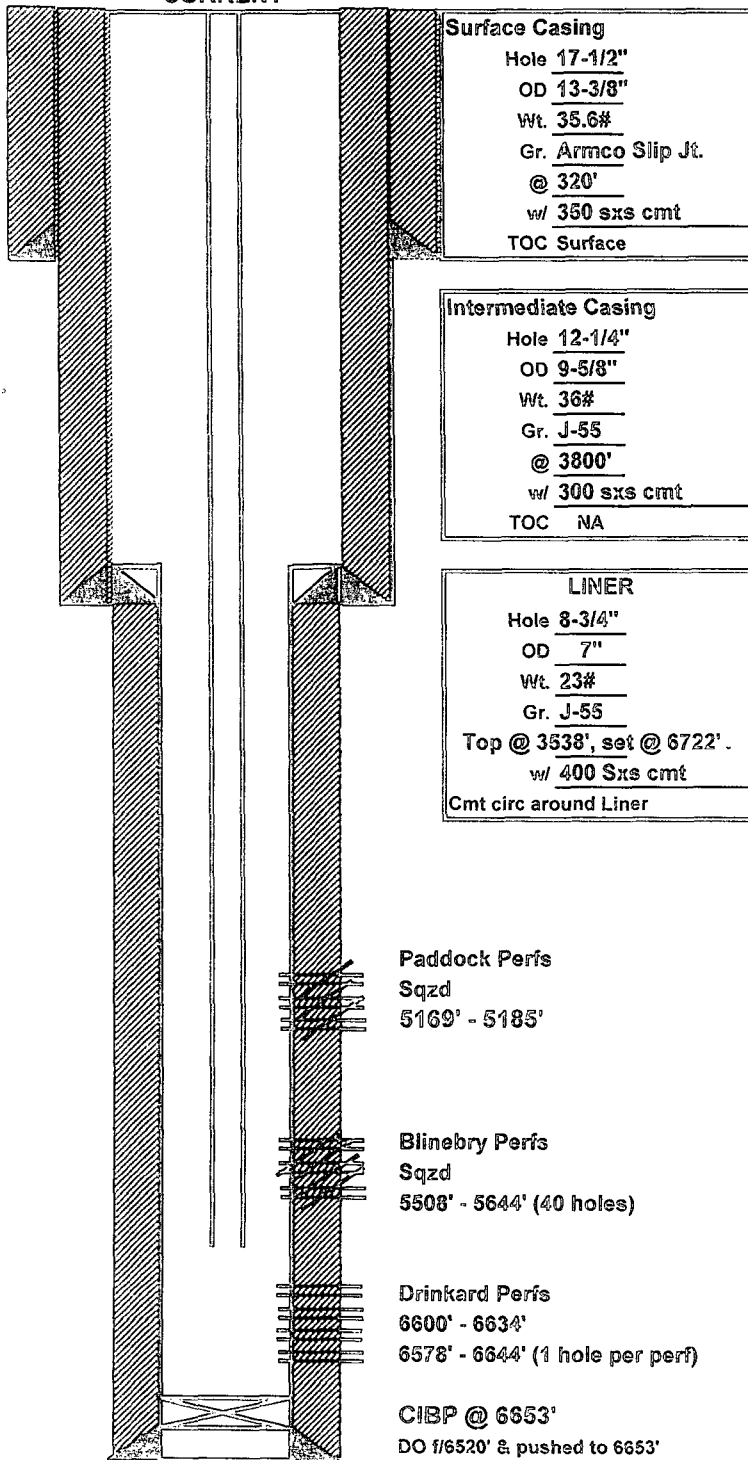
FORMATION: DRINKARD
 API: 30-025-20004
 CHEVNO: NA
 STATUS: INACTIVE OIL WELL

GE: 3486' KDB: _____

DF: _____

Spud Date: 5/27/1963
 Completion Date: 6/20/1963
 Initial Formation: DRINKARD

CURRENT



Interval Completed: From: 6600' To: 6634'

Initial Production: BOPD: 72
 MCFPD: 0
 BWPD: 16

Completion Data:

Acidz w/4500 gals acid.

Subsequent Workovers/Reconditionings/Repairs:

8-28-63 Frac thru perfs w/21,000 gals. Ref oil & 20,000# sd.
 Oct-3-63 Perf paddock 5179'-85', acidz w/500 gals mud acid.
 11-4-63 Paddock zone was uneconomical to produce. TA'd. 11-4-63.
 2-19-64 Sqzd Paddock perfs w/100 sx cmt. DO to 6575'. Tst. OK. RTP in the Drinkard.
 6-21-73 Set CIBP @ 6520', Top w/35' cmt. Perf'd 8 holes each: 5508'-10', 5526'-28', 5558'-60', 5603'-05', 5642'-44'. Acidz w/250 gals acid across perfs, & frac w/25,000 gals acid & 50,000# sd. Ran 2-3/8" tbg & rods & put on pmp. Blinbry Perfs.
 12-30-85 Sqz perfs, (5508'-5644') w/300 sxs cmt. DO CIBP & Pkr & push to 6653'. Perf 1 hole each, 6578', 82', 89', 98', 99', 6601', 03', 04', 40', 44'. Acidz w/3000 gals 15% HCL.
 Ran tbg, RTP, producing from the Drinkard.

TD: 6722'
 PBTD: 6653'

WELL NAME: HARDY #6
LOCATION: 660' FSL & 1980' FEL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CAMPBELL & HEDRICK

FORMATION: DRINKARD
SEC: 19
COUNTY: LEA
STATE: NEW MEXICO

UNIT LETTER: O
API: 30-025-25509
CHEVNO: NA
STATUS: ACTIVE OIL WELL

GE: 3507' KDB: _____

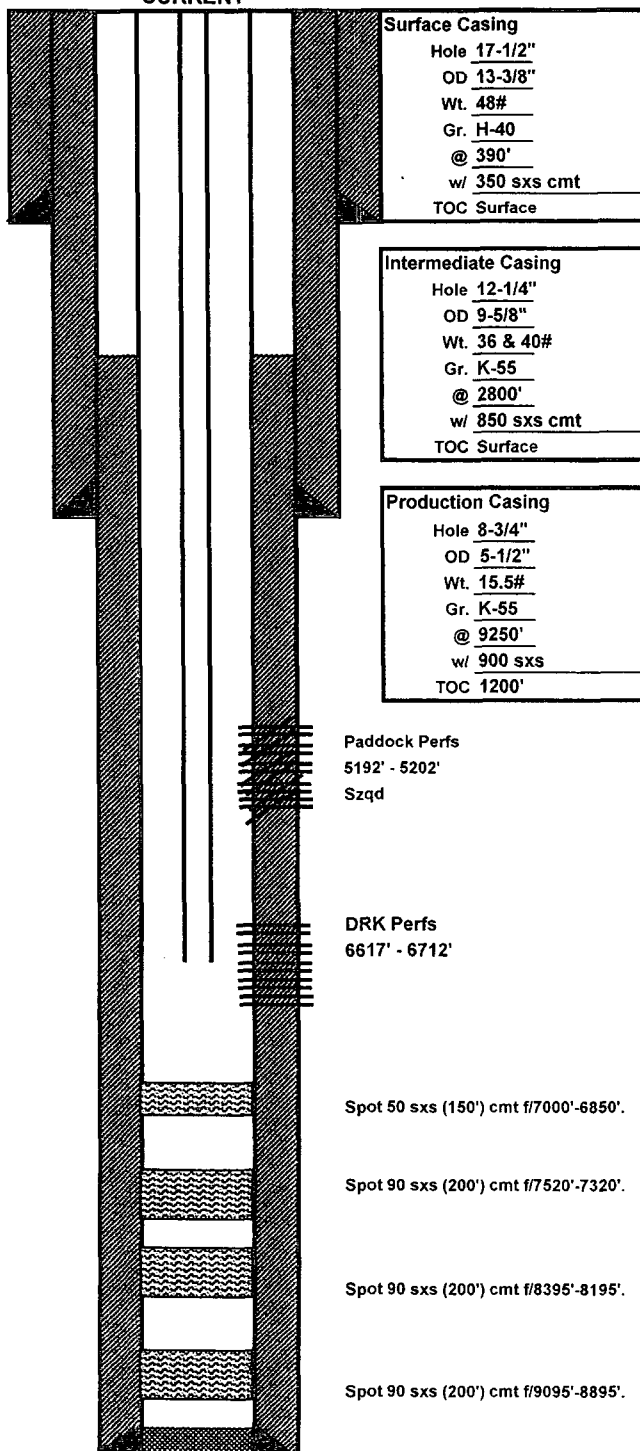
DF: _____

Spud Date: 4/24/1977

Completion Date: 7/17/1977

Initial Formation: Drinkard

CURRENT



Interval Completed: From: 6617' To: 6712'

Initial Production: BOPD: _____
MCFPD: _____
BWPD: _____

Completion Data:

TD 9250', no indication of commercial production.

Plug Back to DRK. Spot 90 sxs (200') cmt f/9095'-8895'.

Spot 90 sxs (200') cmt f/8395'-8195'.

Spot 90 sxs (200') cmt f/7520'-7320'.

Spot 50 sxs (150') cmt f/7000'-6850'.

DRK Perfs: 6617', 6621', 6627.5', 6630', 6654', 6657.5',

6668', 6671', 6698', 6700', 6703', 6708', 6710', 6712'.

11-14-77 Frac trt Drk, 6617'-6712' w/35,000 gals gel,

845,000 # sd.

Subsequent Workovers/Reconditionings/Repairs:

7-89 Perf Paddock, 5192' - 5202', w jumbo jet holes.

Acdz w/2000 gals 15% NE.

7-94 Sqz perfs 5192' - 5250'. Acdz w/500 gals NE.

Reperf Paddock, 5190' - 5250'. Acdz w/500

gals NE. Set Bkr Rtnr @ 5095', sqz w/75 sxs cmt.

Tst csg, found hole @ 3632'. DO to 5286'. OK.

Perf csg 5198'-5202', & 5247'-5251' w/10 holes.

Acdz w/500 gals 15% acid.

7-7-95 Sqz Paddock perfs w/75 sx cmt, recomplete

to Drinkard formation.

PBTD = 6850'
TD = 9250'

WELL NAME: CORDELIA HARDY # 1
LOCATION: 2310' FNL & 330' FWL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: JOHN H. HENDRIX CORPORATION

SEC: 29
COUNTY: LEA
STATE: NEW MEXICO

FORMATION: GRAYBURG
API: 30-025-06889
CHEVNO: NA
STATUS: INACTIVE OIL WELL
UNIT LETTER: E

GE: 3483' KDB: _____

DF: _____

Spud Date: 6/24/1937

Completion Date: 10/1/1937

Initial Formation: Grayburg

Interval Completed: From: 3626' To: 3776'
OpenHole

Initial Production: BOPD: _____
MCFPD: _____
BWPD: _____

Completion Data:

1-8-38 Acdz w/2000 gals acid, f/3755'-3760'.

Subsequent Workovers/Reconditionings/Repairs:

10-6-56 Frac OH 3625'-3776' w/10,000 gals

&10,000# sd. Thry 3" lbg.

3-2-85 Drl 6-1/8" hole to 5400'. RIH w/4-1/2" csg, 11.6#

N-80 LT&C csg, set @ 5400' w/ total 460 sxs cmt.

Perf 4-1/2" csg, Paddock f/ 5283'-91', 5334'-43',

5345'-94', 24 holes. Spot 100 gals 20% FE.

Acdz 5283'-5394' w/200 gals 20% NEA FE + 48 RCNBS.

RTP.

4-9-85 Set cmt ret @ 5275', sqz cmt Paddock

perfs 5283'-5349' w/100 sxs cmt. Perf Paddock

A & B zones; 5147'-58', 5170'-92', 5196'-5200',

5203'-06', 5215'-17', 5220'-23', 5225'-28', 5240'-56',

(72 holes). Acdz perfs w/3600 gals 20% + 107 RCNBS.

Return to production. Pmp 0 BNO, SI for study.

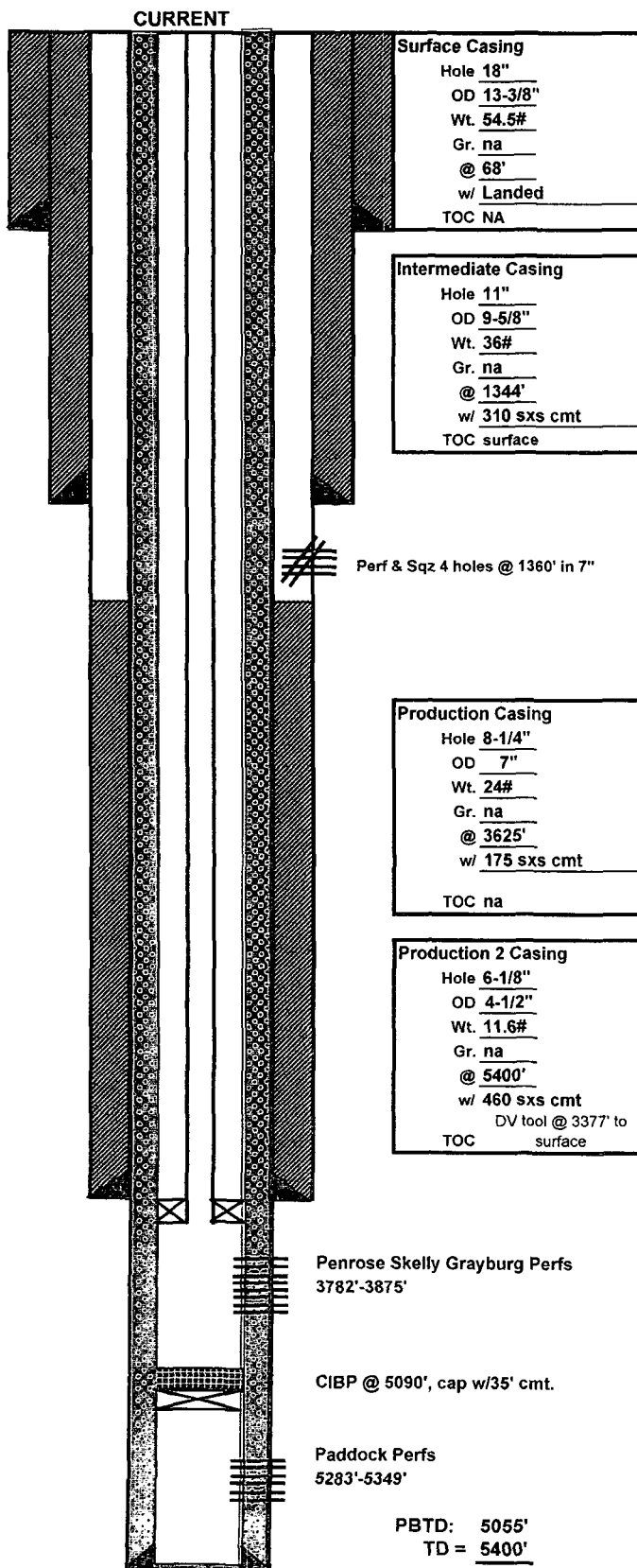
Request authority to TA.

5-15-87 TA'd in the Paddock.

8-17-87 RIH w/CIBP @ 5090', cap w/35' cmt.

New PBTD - 5055'. Perf 3782'-3875' (94 holes).

Spot 200 gals 15% HCL + 200 RCNBS.



WELL NAME: CORDELIA HARDY # 2
LOCATION: 330' FNL & 330' FWL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: JOHN H. HENDRIX CORPORATION

FORMATION: EUMONT/YATES/7RIVERS
SEC: 29
COUNTY: LEA
STATE: NEW MEXICO
API: 30-025-06890
CHEVNO: NA
STATUS: INACTIVE OIL WELL
UNIT LETTER: D

GE: 3495' KDB: _____

DF: 3504'

Spud Date: 9/16/1938

Completion Date: 11/9/1938

Initial Formation: Grayburg OH

Interval Completed: From: 3627' To: 3820'

Initial Production: BOPD: 43
MCFPD: 0
BWPD: 0

Completion Data:

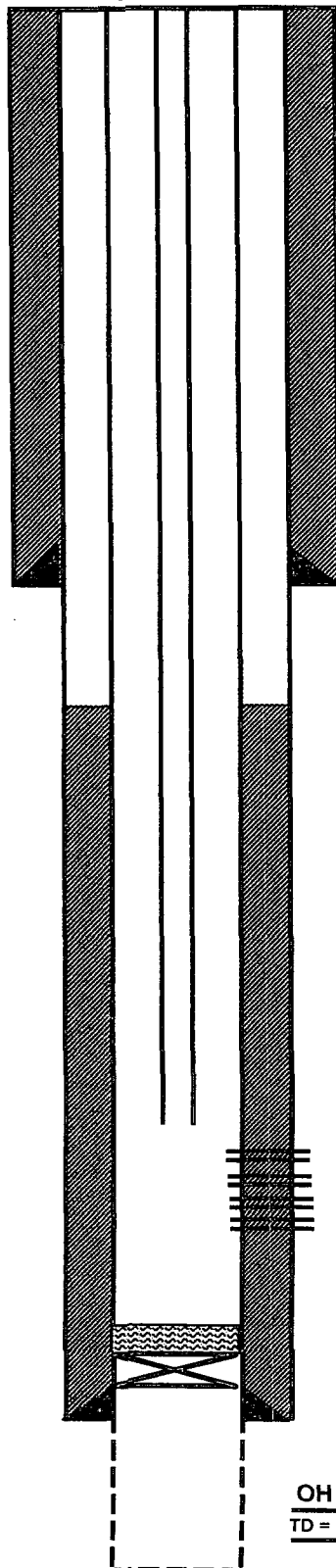
Subsequent Workovers/Reconditionings/Repairs:

11-1-74 TA'd.

9-15-77 Set CIBP @ 3624', TOC @ 3618'.

Abn'd Penrose Skelly, recomple in Eumont/
Yates/7Rvns/Queen - Perfs 3419'-3594'.

CURRENT



Surface Casing
Hole 11"
OD 9-5/8"
Wt. 40#
@ 1220'
w/ 300 sxs cmt.
TOC NA

Production Casing
Hole 8-3/4"
OD 7"
Wt. 24#
@ 3627'
w/ 200 sxs cmt
TOC NA

2-3/8" tbg @ 3404'

Eumont/Yates/7Rvns/Queen
3419' - 3594' (74 holes)

CIBP @ 3624', topped w/4 sxs cmt
TOC @ 3618'

OH 3627' - 3820'
TD = 3820

WELL NAME: CORDELIA HARDY # 6
LOCATION: 660' FNL & 660' FWL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: JOHN H. HENDRIX CORPORATION

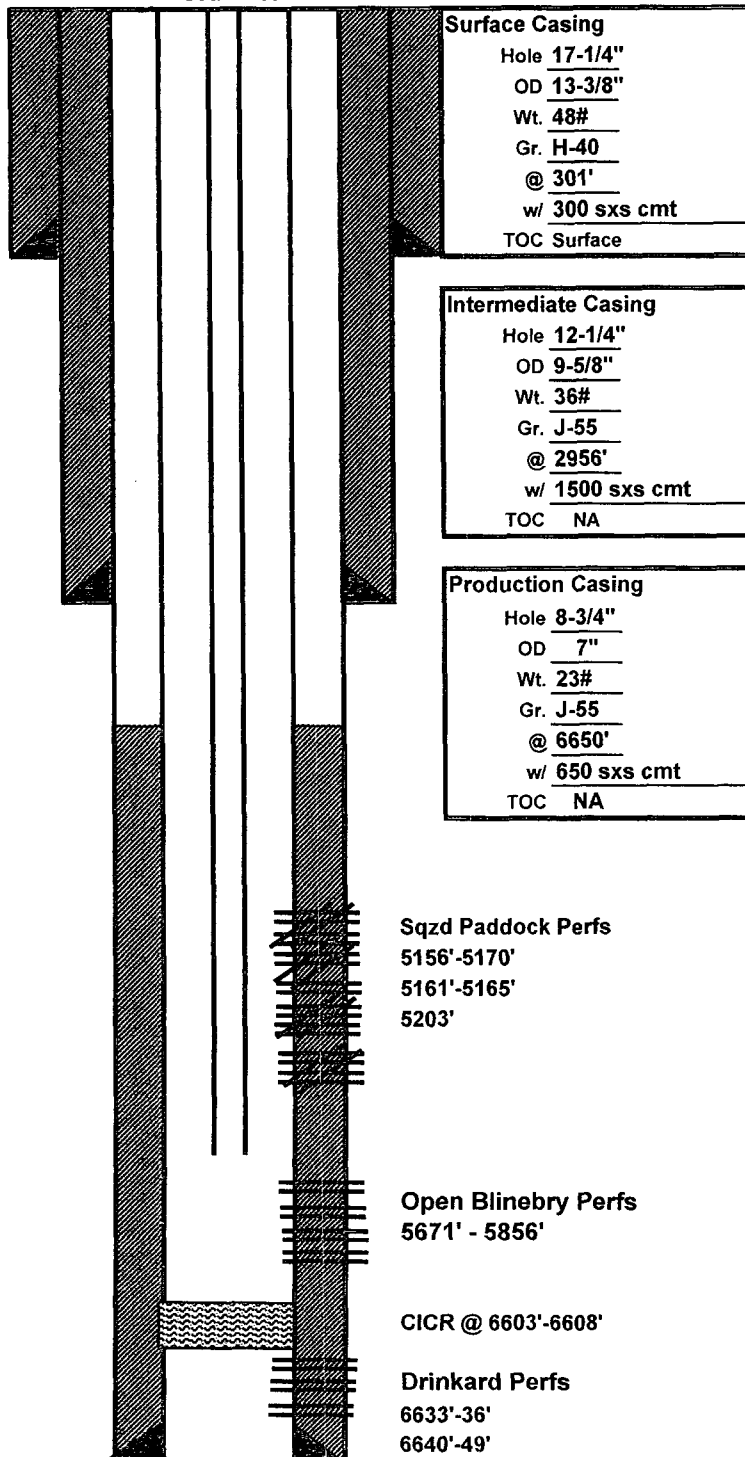
FORMATION: Blinebry
SEC: 29
COUNTY: LEA
STATE: NEW MEXICO

UNIT LETTER: D
API: 30-025-06894
CHEVNO: NA
STATUS: ACTIVE OIL WELL

GE : 3502' KDB : _____

DF : _____

CURRENT



Spud Date: 3/27/1948

Completion Date: 5/5/1948

Initial Formation: Drinkard

Current Formation: Blinebry

Interval Completed: From: 5671' To: 5856'

Initial Production: BOPD: _____

MCFPD: _____

BWPD: _____

Completion Data:

Subsequent Workovers/Reconditionings/Repairs:

4-15-60 Perf 7" csg, 5162'-74', w/2 JSPF. Acdz

w/1500 gals 15% acid.

Dmp 4 sxs frac sd @ 6500' to 6480'. Sqz 5162'-74'

w/75 sxs cmt. Tst, OK. DO cmt 5120' to 5186'.

Tst, OK. Top of Sd @ 6480'. TOC @ 4980', Bottom

of cmt @ 5290'. Perf 7" csg, 5156'-5170', w/2 JSPF.

Acdz w/2500 gals 15%. Sqz w/100 sxs cmt.

DO cmt f/5135'-5185'. Perf 7" 5161' - 5165' w/ 2 JSPF.

Acdz w/100 gals 15% acid. SD frac perfs w/2000

gals refined oil + 1/2# Sd per gal. Sqz w/100

sxs & re-sqz w/75 sxs cmt. DO cmt 5150' to 5170'.

Tst, OK. Acdz 5231'-4881' w/500 gals.

Perf @ 5203' w/1-6 SPF. Trt DRK w/50 bbls ref oil.

Perf 7" f/6640'-49', 6633'-36', 6603'-08' w/2 JSPF.

Acdz w/3000 gals 15%. DRK 2" tbg set @ 6599'.

SN @ 6568'. Paddock 2" tbg set @ 5246', SN @ 5212'.

10-25-60 Acdz Paddocks perfs @ 5203' w/1500

15% acid.

11-1-73 TA'd. Dual well and wuel operators.

5-14-75 Ran Drk tbg to 6613', & pkr set @ 6508'.

Ran Paddock tbg to 5257'. RTP-both zones.

3-31-80 Rpr DH tbg LK. RTP

6-13-93 Tbg Failure. RIH in 46 jts of external
plastic tbg on bottom.

9-1-98 Set CICR to abandon the DRK zone, (6600'-6649').

Chevron is the operator of the CDU # 159, and

John H. Hendrix Corp. agreed to P&A the DRK for in
exchange for assignment of the wellbore f/Chevron.

11-4-98 Sqzd Paddock, (5156'-5203') w/150 sxs
cmt. DO cmt. Recomplete in Blinebry.

Blinebry perfs: 5671' - 5856', .4125 - 23 holes.

Acdz w/2500 gals acid.

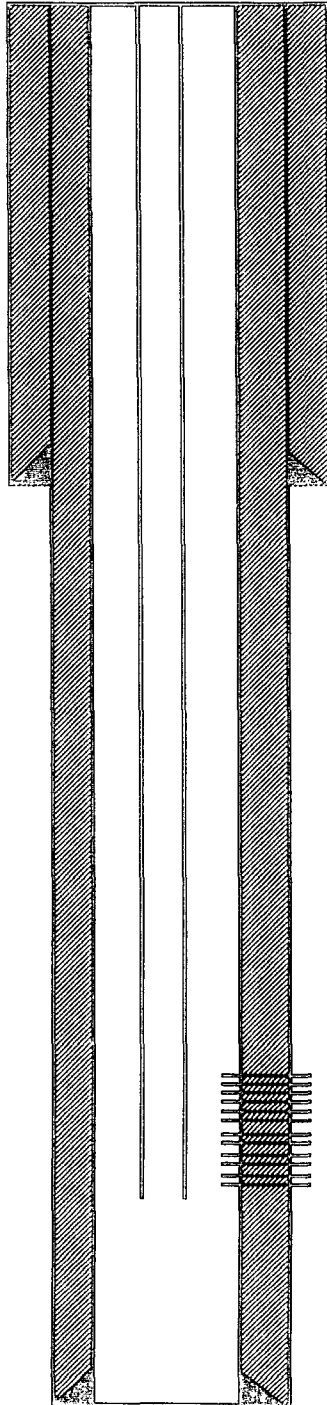
WELL NAME: HARDY PERCY #9
 LOCATION: 330' FSL & 1520' FEL
 TOWNSHIP: 21S
 RANGE: 37E
 OPERATOR: APACHE CORPORATION

FORMATION: PENROSE SKELLY GRAYBURG
 SEC: 17
 COUNTY: LEA
 STATE: NEW MEXICO
 UNIT LETTER: O
 API: 30-025-36477
 CHEVNO: NA
 STATUS: OIL WELL

GL: 3475' KDB: DF:

Spud Date: 2/20/2004
 Completion Date: 3/10/2004
 Initial Formation: GRAYBURG

CURRENT



Surface Casing
 Hole 12-1/4"
 OD 8-5/8"
 Wt. 24#
 @ 400'
 w/ 350 sx cmt
 TOC Surface

Production Casing
 Hole 7-7/8"
 OD 5-1/2"
 Wt. 17#
 @ 4350'
 w/ 1400 sx cmt
 TOC Surface

Interval Completed: From: 3759' To: 3970'

Initial Production: BOPD: 7
 MCFPD: 90
 BWPD: 352

Completion Data:
 Penrose Skelly, Grayburg Perfs; 3759'-61',
 3863'-70', 3922'-28', 3964'-70'.
 Acdz w/2000 gals HCL, Frac w/39,005 gals
 gel & 80,000# 20/40 sand

Subsequent Workovers/Reconditionings/Repairs:

Grayburg Perfs:
 3759'-61'
 3810'-12'
 3863'-70',
 3922'-28'
 3964'-70'

TD: 4350'
 PBTD: 4302'

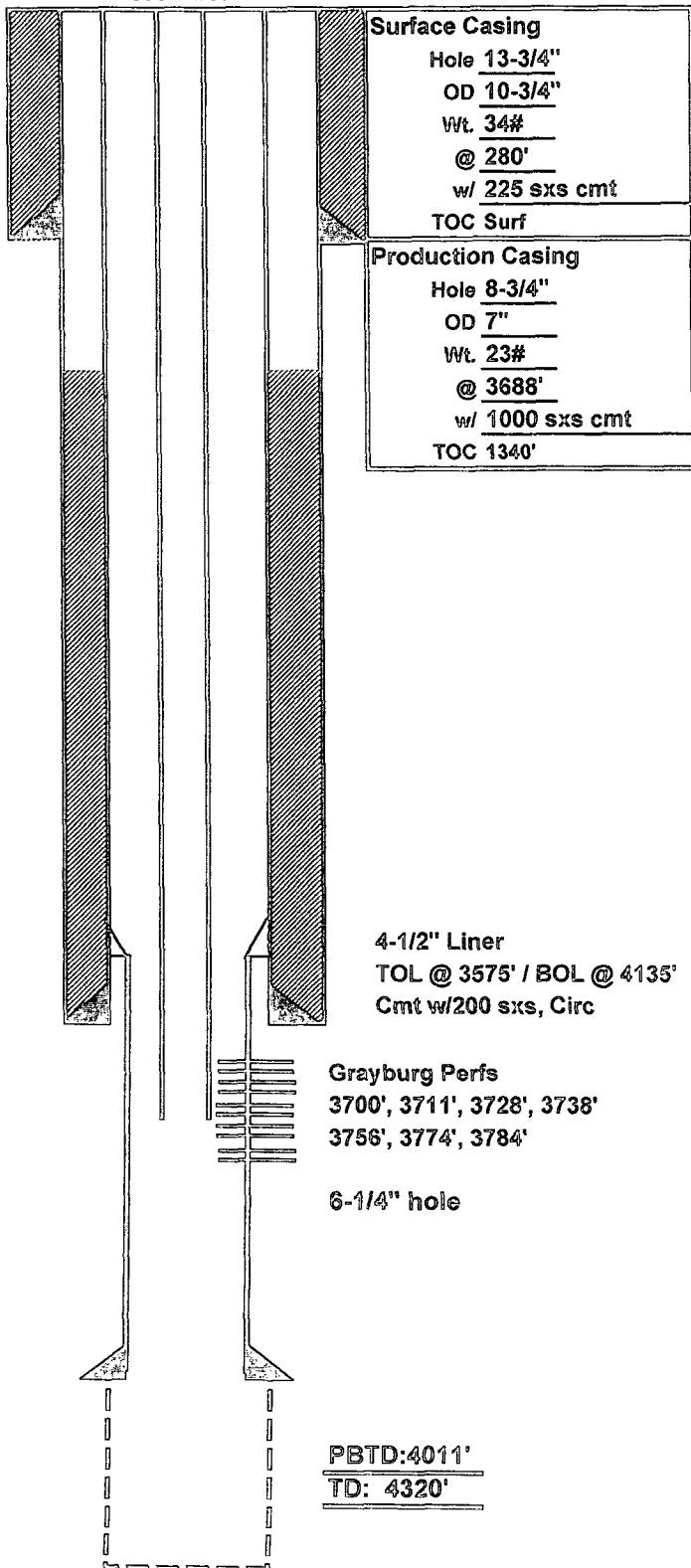
WELL NAME: HARDY-FEDERAL #3
LOCATION: 660' FSL & 1650' FEL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CAMPBELL & HEDRICK

FORMATION: PENROSE SKELLY
SEC: 19 API: 30-025-06675
COUNTY: LEA CHEVNO: NA
STATE: NEW MEXICO STATUS: OIL WELL
UNIT LETTER: O

GL: KDB: DF: 3514'

Spud Date: 12/4/1957
Completion Date: 12/31/1957
Initial Formation: Grayburg

CURRENT



Interval Completed: From: 3688' To: 3820'

Initial Production: BOPD: 44
MCFPD:
BWPD:

Completion Data:
12-26-57 Frac OH w/20,000 gals refined Oil
w/1.5# sd per gal, (25,000#). Ran 2" tbg
to 3763'. Put on Production.

Subsequent Workovers/Reconditionings/Repairs:
11-21-62 Dpn'd to TD 4320'.
12-4-62 Ran 4-1/2" Liner, 11.6#, J-55 & hung on "L"
liner hanger @ 3579', w/shoe @ 4135'. Cmt w/200 sx.
Tst OK. Sqz Lnr w/100 sxs. Drl plug & test. OK.
12-7-62 Perf Penrose Skelly, 3700' to 2784', &
acdz w/2500 gals 15% acdi & 12 ball sealers.
4-25-96 Acdz w/3000 gals. NE HCL. RTP.
12-4-00 Pull tbg & recover pmp. Run tbg to top of
liner, would not go. Pull out of hole. DO scale
to lowest perf & wash to 3900'. RIH w/SN at
3769'. Acdz w/500 gals 15% acid. RTP

WELL NAME: HARDY-FEDERAL #1
LOCATION: 330' FSL & 330' FEL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CAMPBELL & HEDRICK

FIELD: PENROSE SKELLY
SEC: 19
COUNTY: LEA
STATE: NEW MEXICO
UNIT LETTER: P

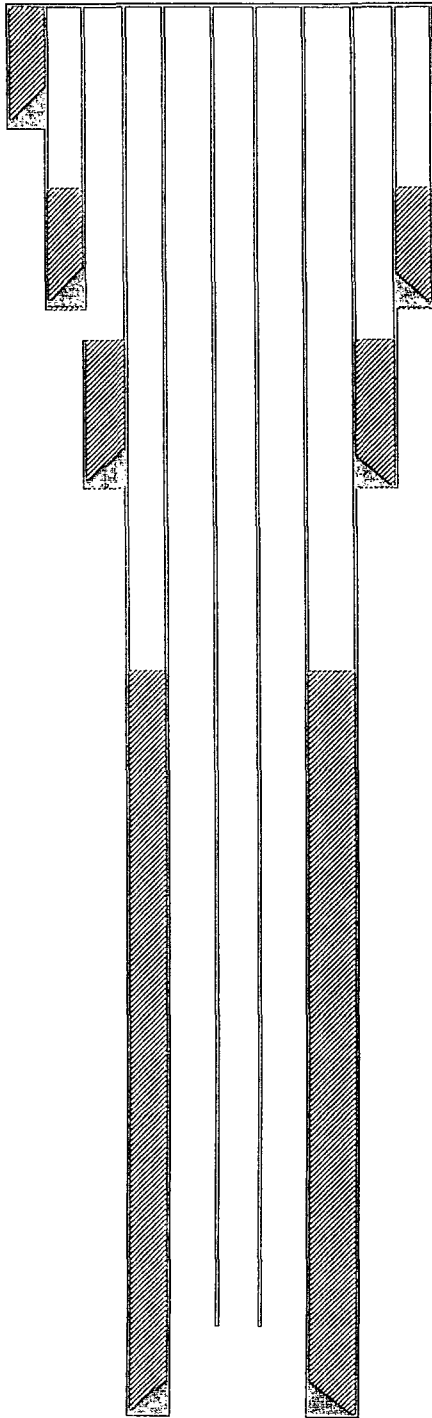
FORMATION: GRAYBURG
API: 30-025-06671
CHEVNO: FA7773
STATUS: OIL WELL
FORMERLY: STATE CK # 2

GE: _____ KDB: _____

DF: 3500'

Spud Date: 7/16/1937
Completion Date: 2/18/1938
Initial Formation: GRAYBURG

CURRENT



Surface Casing
Hole _____
OD 15"
Wt. _____
Gr. _____
@ 142'
w/ 25 sx cmt
TOC NA

Intermediate Casing
Hole _____
OD 12-3/4"
Wt. _____
Gr. _____
@ 302'
w/ NA
TOC NA

Intermediate Casing 2
Hole _____
OD 10"
Wt. _____
Gr. _____
@ 744'
w/ NA
TOC NA

Production Casing
Hole _____
OD 7"
Wt. _____
Gr. _____
@ 3511'
w/ 200'
TOC NA

Interval Completed: From: 3511' To: 3821'

Initial Production: BOPD: 157
MCFPD: _____
BWPD: _____

Completion Data:

Subsequent Workovers/Reconditionings/Repairs:

Well was TA'd in 1947, as uneconomical to produce.
1-4-55 CO, ran tbg, RTP.

Grayburg OH f/ 3511' - 3821'

TD = 3821'

WELL NAME: HARDY-FEDERAL #4
LOCATION: 530' FSL & 530' FEL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CAMPBELL & HEDRICK

SEC: 19
COUNTY: LEA
STATE: NEW MEXICO
UNIT LETTER: P

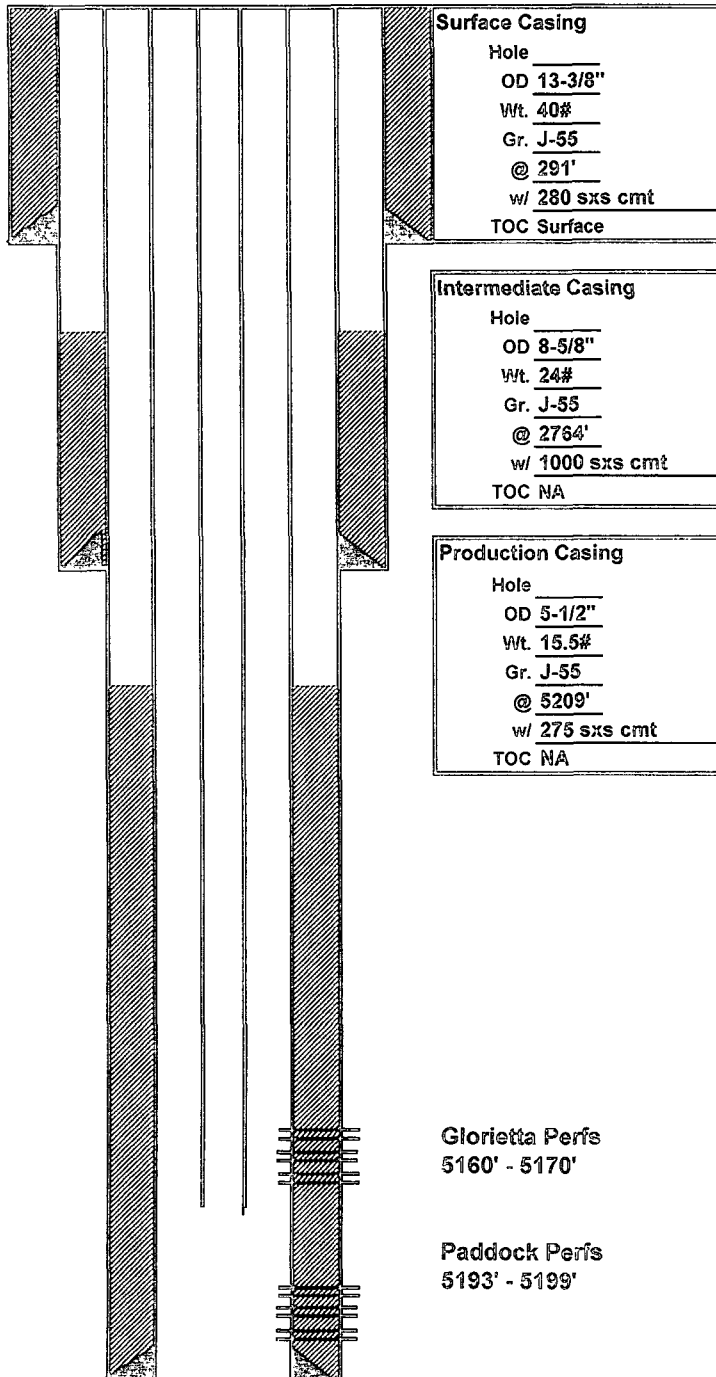
FORMATION: PADDOCK
API: 30-025-03676
CHEVNO: NA
STATUS: ACTIVE OIL WELL

GE: 3493' KDB: _____

DF: 3504'

Spud Date: 11/4/1959
Completion Date: 11/25/1959
Initial Formation: Glorieta

CURRENT



Interval Completed: From: 5160' To: 5170'

Initial Production: BOPD: 56
MCFPD: 0
BWPD: 3

Completion Data:
Acidz w/500 gals 15% acid.

Subsequent Workovers/Reconditionings/Repairs:
7-15-63 Acidz w/3500 gals 15% acid.
10-11-99 Drl float collar & 30' cmt. Perf csg
5193'-5199' w/18 jet shots. Run tbq & set Pkr
@ 5177'. Acidz w/750 gals 15% NE FE Hcl.
Rmv pkr, run tbq to 5180', run rods, RTP.

TD = 5209'

Glorieta Perfs
5160' - 5170'

Paddock Perfs
5193' - 5199'

WELL NAME: HARDY-FEDERAL # 6
LOCATION: 300' FSL & 1650' FEL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CAMPBELL & HEDRICK

SEC: 19
COUNTY: LEA
STATE: NEW MEXICO
UNIT LETTER: O

FORMATION: PADDOCK/BLINEBRY
API: 30-026-06677
CHEVNO: MA
STATUS: ACTIVE OIL WELL
DOWNHOLE HOLE COMMINGLE

GE : _____ KDB : _____

DF : 3513'

Spud Date: 10/20/1960

Completion Date: 12/8/1960

Initial Formation: Blinebry/Paddock

DOWNHOLE HOLE COMMINGLE

Interval Completed: From: 5175' To: 5935'

Initial Production: BOPD: 65
MCFPD: 0
BWPD: 4

Completion Data:

Perfs 5598'-5935', Acdz w/750 gals.

& 15,000 gals refined oil.

Perfs 5175'-5190', Acdz w/500 gals.

Two strings 2-3/8" EUE J-55 tbg.

Subsequent Workovers/Reconditionings/Repairs:

6-1-61 Rpr Tbg leak @ 5565'. Found LK in tbg seal recepticle. Pack-off 5559'-5572' w/ Otis type G. Tst, OK.

7-1-63 Rpr Top of tbg seal assemble leak. Tst OK.

3-17-64 Aczd Paddock perfs w/1500 gals

15% XL-2 acid.

6-26-95 Hole in tbg 3rd jt above Bkr Pkr.

Replaced 10 jts. RTP.

8-4-99 Rpr collar Lk & hole in Blinebry tbg.

Unplugged tail pipe, Perf 2-3/8" @ 5580'-5581', w/4 1/4" holes. RTP

3-20-00 Recvd DHC, remove seal assemble, run 158 jts 2-3/8" J-55 tbg to pmp DHC zones f/ 5567'. Now pumping both zones into Paddock battery.

8-23-04 Pull rods & tbg. 8" perf nipple & MA left in hole. Fish for collar, 18" total. No recovery.

TIH w/2-3/8" tbg work string. Set Pkr @ 5550'.

Aczd Blinebry 5598'-5935' w/ 500 gals HCL.

Clean csg & DA Pkr @ 5602' w/coil tbg perf tool.

Perf 5489'-99', 5504'-08, & 5532'-40' w/2 SPF.

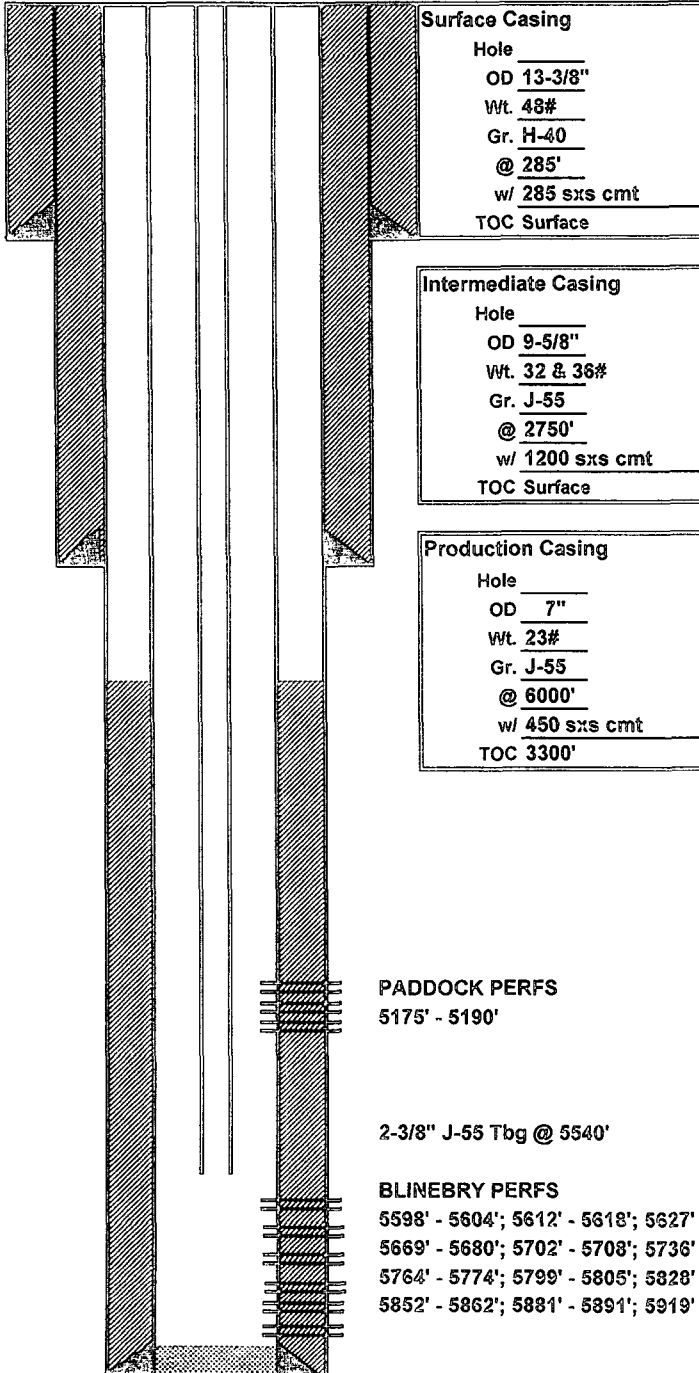
Run work string & straddle interval 5475'-5558'.

Aczd w/1000 gals HCL & 80 balls. Swab.

Run Tbg, opened ended w/SN on bottom to 5540'.

RTP 9-10-04.

CURRENT



Surface Casing

Hole _____
OD 13-3/8"
Wt. 48#
Gr. H-40
@ 285'
w/ 285 sxs cmt
TOC Surface

Intermediate Casing

Hole _____
OD 9-5/8"
Wt. 32 & 36#
Gr. J-55
@ 2750'
w/ 1200 sxs cmt
TOC Surface

Production Casing

Hole _____
OD 7"
Wt. 23#
Gr. J-55
@ 6000'
w/ 450 sxs cmt
TOC 3300'

PADDOCK PERFS
5175' - 5190'

2-3/8" J-55 Tbg @ 5540'

BLINEBRY PERFS

5598' - 5604'; 5612' - 5618'; 5627' - 5633'
5669' - 5680'; 5702' - 5708'; 5736' - 5746';
5764' - 5774'; 5799' - 5805'; 5828' - 5844'
5852' - 5862'; 5881' - 5891'; 5919' - 5935'

PBTD = 5967'

TD = 6000'

WELL NAME: HENDERSON, V.M. # 1
 LOCATION: 2319' FNL & 330' FEL
 TOWNSHIP: 21S
 RANGE: 37E
 OPERATOR: CAMPBELL & HEDRICK

FORMATION: PENROSE SKELLY
 SEC: 30
 COUNTY: LEA
 STATE: NEW MEXICO

UNIT LETTER: H
 API: 30-025-06907
 CHEVNO: NA
 STATUS: P&A'd

GE : _____ KDB : 3495'

DF : _____

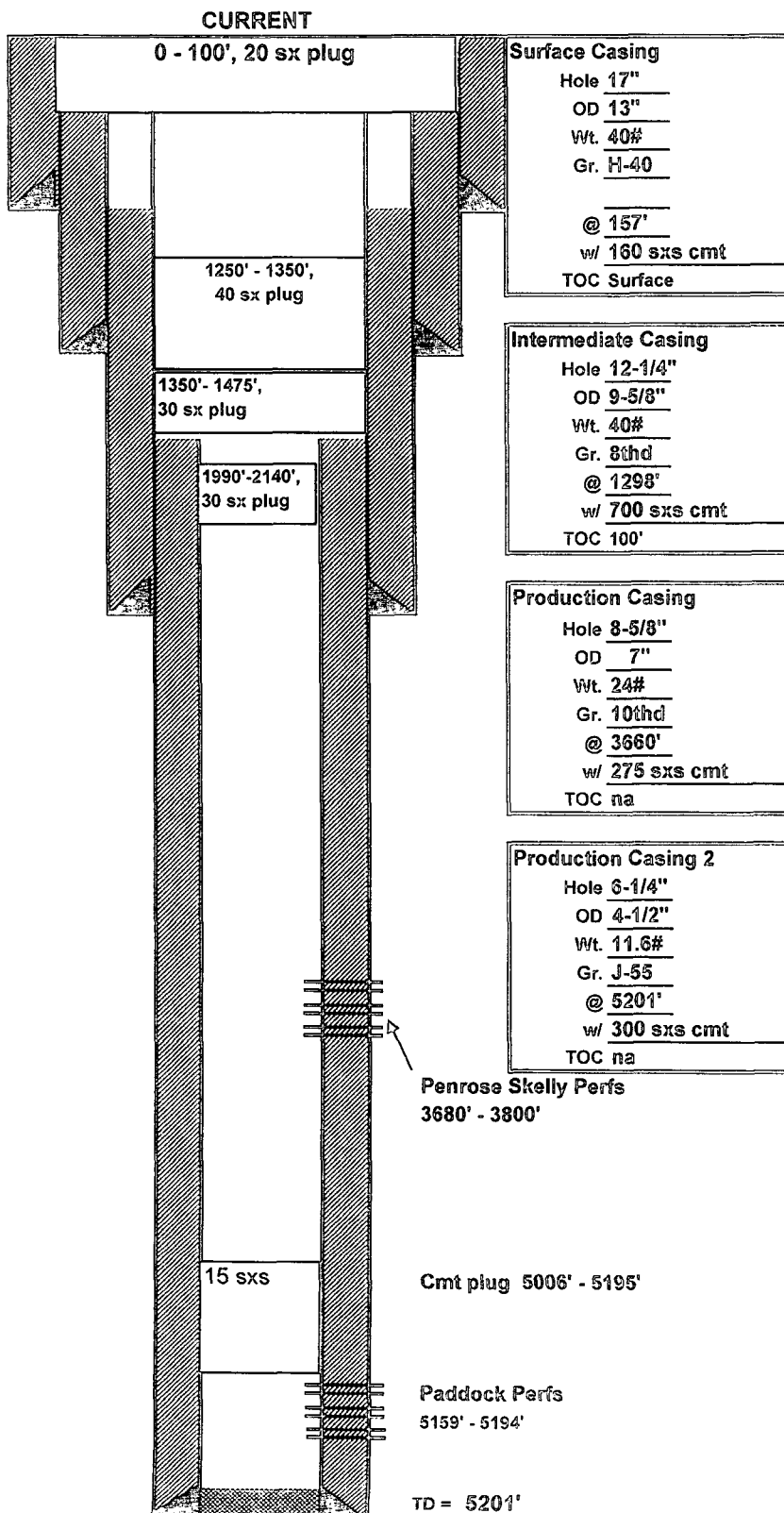
Spud Date: 12/5/1936
 Completion Date: 1/7/1937
 Initial Formation: Grayburg

Interval Completed: From: 3660' To: 3820'
 OH

Initial Production: BOPD: 107
 MCFPD: _____
 BWPD: _____

Completion Data:
 Acdz w/2000 gals acid & shot w/ 200 qts. Nitro. w/ sd.
 Open Hole 3660' to 3820'

Subsequent Workovers/Reconditionings/Repairs:
 10-31-59 Dpn to Paddock w/TD @ 5201'. Perfs
 5159'-65' & 5188'-94'. Acdz w/2000 gals.
 1-16-60 Plugged & Abandoned



Location:
660' FNL & 660' FEL
Section: 30
Township: 21S
Range: 37E
County: Lea State: NM

Current
Wellbore Diagram

Well ID Info:
Refno: FA8005
API No: 30-025-06908
L5/L6: U493800
Spud Date: 10/7/47
Compl. Date: 3/31/48

Elevations:
GL: 3492'
KB: 3503'
DF: 3502'

Surf. Csg: 13 3/8", 32 & 48# H-40
Set: @ 251' w/ 300 sks
Hole Size: 17 1/4"
Circ: Yes TOC: Surface
TOC By: Circulated

Interm. Csg: 8 5/8", 31#, H-40
Set: @ 2792' w/ 1000 sks
Hole Size: 10 3/4"
Circ: No TOC: Surface
TOC By: Calculated

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	11.00
112	2 7/8" J-55 Cl. 'A'	3495.10
	TAC	2.78
2	2 7/8" J-55 Cl. 'A'	53.14
1	2 7/8" J-55 IPC	31.71
	2 7/8" API S.N.	1.10
115	Pump Intake >>>	3594.83
	2 7/8" Perf. Sub	4.08
	2 7/8" BPMA	29.93
	EOT >>>	3628.84

Perfs:	Status
3658-66'	Grayburg - Open
3678-83'	Grayburg - Open
3692-3701'	Grayburg - Open
3712-18'	Grayburg - Open
3728-34'	Grayburg - Open
3754-62'	Grayburg - Open
3777-82'	Grayburg - Open
3794-3801'	Grayburg - Open
3812-16'	Grayburg - Open
3831-37'	Grayburg - Open
3848-56'	Grayburg - Open

Sand Fill From 4,003' To 3,935'
CIBP @ 4,003'

Sqz. Holes @ 4,030' - Circ. Cmt. To Surf.
Out 8 5/8"x5 1/2" Annulus.
CIBP @ 5100'
(35' cmt on top)

Perfs:	Status:
5155-95'	Paddock - Cmt Sqzd

5412-40'	Paddock - Below CIBP
5452-58'	Paddock - Below CIBP
5468-74'	Paddock - Below CIBP
5482-5500'	Paddock - Below CIBP
5514-20'	Paddock - Below CIBP

5528-58'	Blinery - Cmt Sqzd
5580-86'	Blinery - Cmt Sqzd

CIBP @ 5660'
(35' cmt on top)

5674-84'	Blinery - Below CIBP
5706-10'	Blinery - Below CIBP
5756-60'	Blinery - Below CIBP
5839-43'	Blinery - Below CIBP
5858-81'	Blinery - Below CIBP
5980-92'	Blinery - Below CIBP

CIBP @ 6050'

6550-91'	Drinkard - Below CIBP
----------	-----------------------

Prod. Csg: 5 1/2", 17#, J-55
Set: @ 6597' w/ 1250 sks
Hole Size: 7 7/8"
Circ: Yes TOC: Surf.
TOC By: Circ.

6597-6674' Drinkard - Open Hole (Cmt Sqzd)

COTD: 3935'
PBDT: 4003'
TD: 6674'

Updated: 03-20-03

By: LPW

WELL DATA SHEET

FIELD: Penrose Skelly
 LOC: 1960' FNL & 660' FEL
 TOWNSHIP: 21S
 RANGE: 37E

WELL NAME: V. M. Henderson # 3
 SEC: 30
 COUNTY: Lea
 STATE: NM

FORMATION: Grayburg
 CURRENT STATUS: Producing
 API NO: 30-025-06909
 REFNO: FA6006

UNIT LETTER: H

Surface Casing

13-3/8" 48#, H-40 Csg
 17-1/2" hole
 Set @ 254' w/300 sx cmt
 Circulated cmt to surf

Current

Wellbore # 427888

Date Spudded: 5/20/50
 Date Completed: 7/11/50
 Initial Formation: Drinkard

Intermediate Casing

8-5/8", 28# & 32#, H-40 Csg
 10-3/4" hole
 Set @ 2864' w/1000 sx cmt
 TOC @ 510' by TS

Perfs	Status
3636-39'	Grayburg - Open
3647-50'	Grayburg - Open
3655-62'	Grayburg - Open
3675-78'	Grayburg - Open
3686-90'	Grayburg - Open
3695-3700'	Grayburg - Open
3706-12'	Grayburg - Open
3720-25'	Grayburg - Open
3728-32'	Grayburg - Open
3737-39'	Grayburg - Open
3752-58'	Grayburg - Open
3774-80'	Grayburg - Open
3786-90'	Grayburg - Open
3797-3800'	Grayburg - Open
3815-23'	Grayburg - Open
3836-38'	Grayburg - Open
3846-54'	Grayburg - Open

PBTD: 3974

3815-4068' Grayburg/San Andres
 (168 Holes) (Sqz'd w/ 300 sxs cmt)

Cmt Plug fr/ : 5029-5475'

Perfs Status
 5164-80' Paddock - Cmt Sqzd
 (34 holes) (sqzd w/200 sx cmt)
 CIBP set @ 5475' w/446' cmt on top

Production Casing

5-1/2", 15.5#, J-55 Csg
 7-7/8" hole
 Set @ 6655' w/1000 sx cmt
 TOC @ 2860' by CBL

Perfs Status
 5513-6062' Blinbry - below CIBP
 (115 holes)

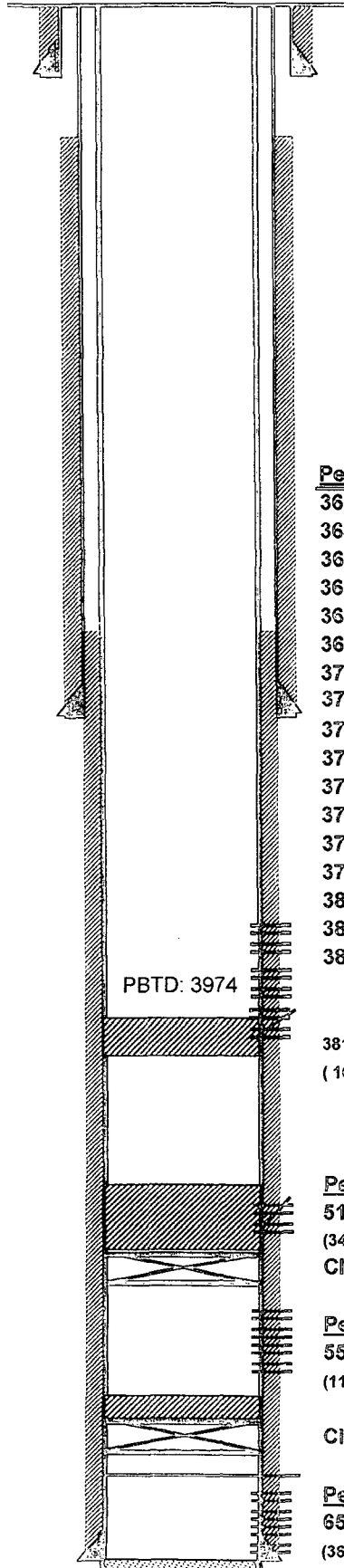
CIBP set @ 6150' w/30' cmt on top

Perfs Status
 6545-6655' Drinkard - below CIBP
 (360 holes)

Updated: LPW
 Date: 07-15-04

TD 6662'

OH interval 1/6655-62'



WELL DATA SHEET

FIELD: Eumont
 LOC: 660' FNL & 1930' FWL
 TOWNSHIP: 21S
 RANGE: 37E
 UNIT LETTER: C

WELL NAME: V. M. Henderson #4
 SEC: 30 GL:
 COUNTY: Lea KB:
 STATE: NM DF: 3503'

FORMATION: Yates/7Rivers/Queen
 CURRENT STATUS: ACTIVE GAS
 API NO: 30-025-03910
 REFNO: FA8007

Surface Casing

8-5/8" 24# csg
 12-1/4" hole to 1240'
 Set @ 1238' w/900 sx cmt
 Circ cmt to surf (unknown)

Date Spudded: 8/6/55
 Date Completed: 8/22/55
 Initial Formation: Queen (gas)
 Later dual producer from the
 Grayburg/Penrose Skelly (oil)
 Originally drilled to 3480'

History

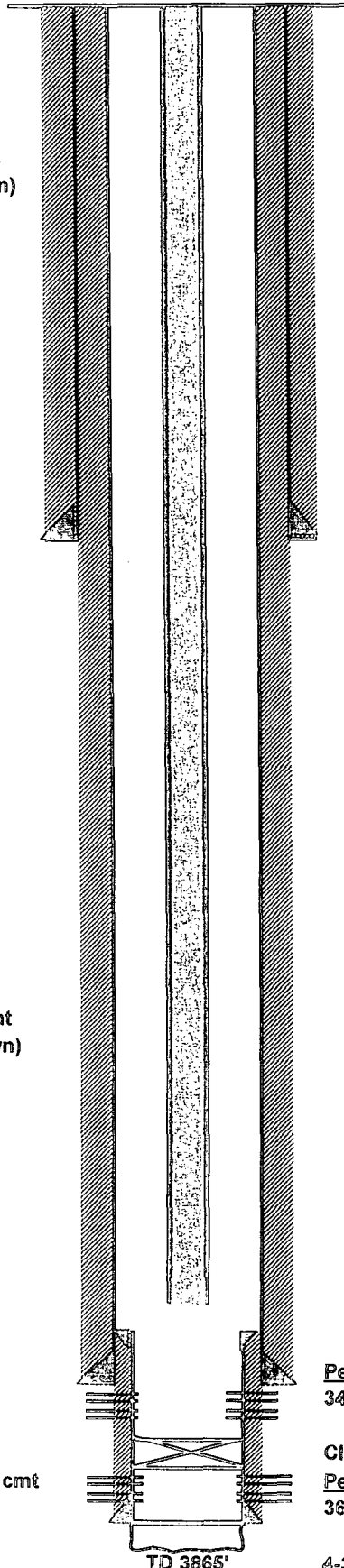
9/62: Well was drilled deeper into the Penrose Skelly.
 Set 4" flush joint liner within the 4-3/4" hole. The well
 became a conventional dual completion in the Eumont
 Gas and Penrose Skelly pools. The Penrose Skelly
 was produced through the 2-3/8" tubing and the Eumont
 Gas through the tubing-casing annulus.
 8/67: The Penrose Skelly reached its economic limit
 and a bridge plug was set in the 2-3/8" tubing.
 At first, the 2-3/8" was perforated in the Eumont Gas zone,
 but later the tubing was pulled due to communication
 between the Eumont Gas and Penrose Skelly zones.
 A CIBP was set to isolate the Penrose Skelly zone.

Production Casing

5-1/2", 14# csg
 7-7/8" hole
 Set @ 3480' w/400 sx cmt
 Circ cmt to surf (unknown)

Flush Joint Liner

4", 9.11# liner
 4-3/4" hole to 3850'
 Set f/3430'-3850' w/50 sx cmt
 Cmt circ to top of liner



Perfs	Status
3488-3588'	Eumont Gas - open

CIBP set @ 3620'

Perfs	Status
3690-3742'	Penrose Skelly Oil - below CIBP

4-3/4" OH from 3850-3865'

Location:
 660' FNL & 1880' FEL
 Section: 30
 Township: 21S
 Range: 37E
 County: Lea State: NM

Elevations:

GL: 3497'
 KB: 3508'
 DF: 3506'

Current
Wellbore Diagram

Well ID Info:

Cheyno: FA8008
 API No: 30-025-06911
 L5/L6: U493800
 Spud Date: 11/19/58
 Compl. Date: 1/8/59
 Wellbore #427890

Surface Csg: 9 5/8", 32.3#, Unknown Grade
Set: @ 1236' w/ 800 sks
Hole Size: 12 1/4"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Perfs:	Status:
3506'	Eumont - Cmt Sqzd
3512'	Eumont - Cmt Sqzd
3520'	Eumont - Cmt Sqzd
3527'	Eumont - Cmt Sqzd
3533'	Eumont - Cmt Sqzd
3541'	Eumont - Cmt Sqzd
3550'	Eumont - Cmt Sqzd
3556'	Eumont - Cmt Sqzd
3562'	Eumont - Cmt Sqzd
3568'	Eumont - Cmt Sqzd
3574'	Eumont - Cmt Sqzd
3581'	Eumont - Cmt Sqzd

3653-56'	Grayburg - Open
3662-66'	Grayburg - Open
3670-76'	Grayburg - Open
3693-99'	Grayburg - Open
3704-10'	Grayburg - Open
3716-22'	Grayburg - Open
3729-35'	Grayburg - Open
3746-50'	Grayburg - Open
3756-60'	Grayburg - Open
3774-80'	Grayburg - Open
3792-98'	Grayburg - Open
3810-14'	Grayburg - Open
3818-21'	Grayburg - Open
3830-36'	Grayburg - Open
3842-48'	Grayburg - Open
3884-91'	Grayburg - Open

5172-88' Paddock - Cmt Sqzd

Prod. Csg: 7" 20 & 23#, Unknown Grade
Set: @ 5210' w/ 500 sks
Hole Size: 8 3/4"
Circ: No **TOC:** 2450'
TOC By: CBL

5562-72'	Blaineby - Below CIBP
5608-12'	Blaineby - Below CIBP
5622-40'	Blaineby - Below CIBP

5779-98' Blaineby - Below CIBP

Liner: 4 1/2" OD, 11.6#, K-55
Set: Bottom @ 6007' w/200 sx cmt; Top @ 5068'
Hole size: 6 1/8"
Circ: Yes **TOC:** 5068'
TOC By: Circulated

Weatherford RBP @ 5000'
 (20' sand on top)

CIBP @ 5730'
 (10' cmt on top)

COTD: 4965'
PBTD: 4965'
TD: 6017'

Updated: 01-28-04

By: LPW

Well: **V. M. Henderson # 6**Field: **Penrose Skelly**Reservoir: **Grayburg****Location:**

760' FNL & 1980' FWL
 Section: 30
 Township: 21S
 Range: 37E
 County: Lea State: NM

Elevations:

GL: 3496'
 KB: 3506'
 DF: 3505'

CURRENT

Wellbore Diagram

Well ID Info:

Chevron: FA8009
 API No: 30-025-06912
 L5/L6: U493800
 Spud Date: 9/16/61
 Compl. Date: 4/27/77

Surface Csg: 8 5/8", 24#, J-55
Set: @ 1253' w/ 800 sks
Hole Size: 12 1/4"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	14.00
121	Jts. 2 7/8" J-55 Cl. 'B'	3751.00
	2 7/8" x 6" Tbg Sub	6
	Drain Valve	0.55
	2 7/8" x 2 3/8" X-Over	0.60
	Centriflgt Sub Pump	35.41
121	Bottom Of Mtr >>	3807.56

CIBP @ 5100'
 (35' cmt on top)

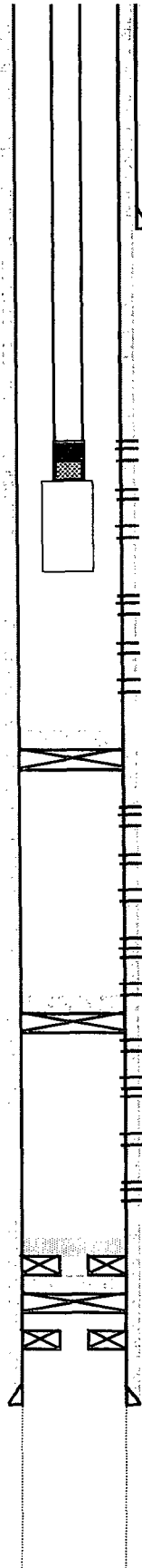
CIBP @ 5530'
 (35' cmt on top)

CIBP @ 5980'
 (35' cmt on top)

Baker Model D Pkr @ 6004'

COTD: 5065'
PBTD: 5065'
TD: 6700'

Updated: 2/7/05



Perfs:	Status:
3648-56'	Grayburg - Open
3676-84'	Grayburg - Open
3690-94'	Grayburg - Open
3698-3702'	Grayburg - Open
3706-12'	Grayburg - Open
3724-29'	Grayburg - Open
3740-48'	Grayburg - Open
3764-68'	Grayburg - Open
3774-80'	Grayburg - Open
3788-92'	Grayburg - Open
3800-06'	Grayburg - Open
3812-16'	Grayburg - Open
3820-26'	Grayburg - Open
3831-36'	Grayburg - Open
3842-48'	Grayburg - Open
3856-62'	Grayburg - Open
3867-75'	Grayburg - Open
3888-96'	Grayburg - Open
3906-14'	Grayburg - Open
3924-28'	Grayburg - Open

5158-68'	Paddock - Open
5173-76'	Paddock - Open
5184-90'	Paddock - Open
5198-5201'	Paddock - Open
5206-09'	Paddock - Open
5212-15'	Paddock - Open
5218-22'	Paddock - Open
5270-75'	Paddock - Open
5424-28'	Paddock - Open
5434-38'	Paddock - Open
5480-84'	Paddock - Open
5512-18'	Paddock - Open

5539-43'	Blinebry - Open
5547-65'	Blinebry - Open
5569-87'	Blinebry - Open
5593-5610'	Blinebry - Open
5618-28'	Blinebry - Open
5632-54'	Blinebry - Open

Baker Model DB Pkr @ 5927'

Prod. Csg: 5 1/2", 14#, J-55
Set: @ 6550' w/ 1000 sks
Hole Size: 6 3/4"
Circ: No **TOC:** Above 1570'
TOC By: CBL

4 3/4" Open-Hole
Production Interval
 6550-6700' (Drinkard - Below CIBP)

By: A. M. Howell

WELL NAME: HENDERSON # 7
LOCATION: 1980' FNL & 1980' FWL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CHEVRON USA INC.

FORMATION: PADDOCK, DRINKARD, PENROSE SKELLY
SEC: 30
COUNTY: LEA
STATE: NEW MEXICO
UNIT LETTER: F
API: 30-025-06913
CHEVNO: FA8010
STATUS: Active DRK Gas Well

GE : KDB : DF 3499'

DF : 3499'

Spud Date: 1/5/1962

Completion Date: 4/5/1962

Initial Formation: GRAYBURG/PADDOCK/DRK

Interval Completed: From: 3688' To: 3792'

Interval Completed: From: 5172' To: 5180'

Interval Completed: From: 6617' To: 6712'

Initial Production: BOPD: _____

MCFPD: _____

BWPD: _____

Completion Data:

Penrose Skelly Zone (String X)

Perf 2-3/8" csg w/2 JSPF 3688'-3830'. Acdz w/1000 gals NEA.

Paddock Zone (String Y)

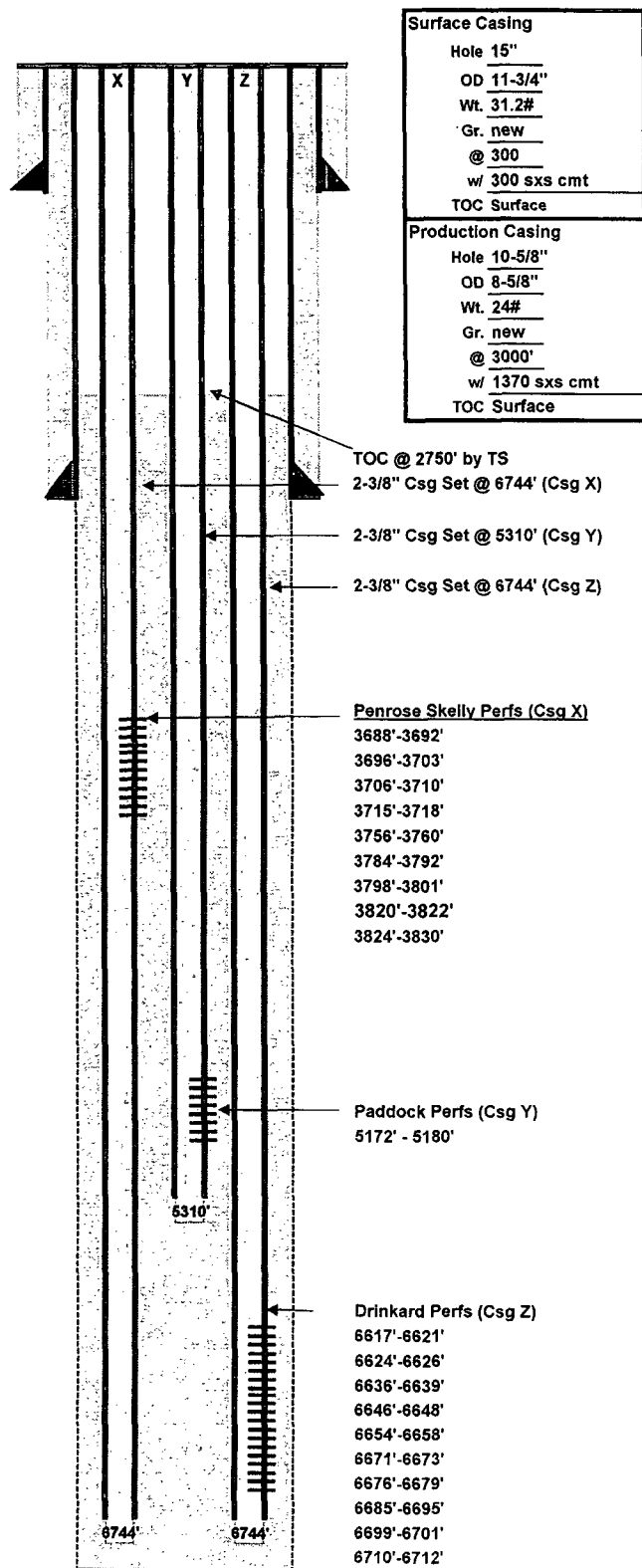
Perf 2-3/8" csgw/2 JSPF, 5172'-5180'. Acdz w/1000 gals NEA, plusre-acdz w/2000 gals NEA.

Drinkard Zone (String Z)

Perf 2-3/8" csg w/2 JSPF 6617'-6712'. Acdz w/ total 6500 gals NEA. Spot 300 gals Blk Material f/ 6624'-6626'.

Subsequent Workovers/Reconditionings/Repairs:

3-10-69' Acdz Paddock perms, 5172'-5180', as follows: 10 bbls Lse oil, 5 bbls kerosene, plus w/500 gals acid & 5 bbls kerosene. Acdz w/3000 Ran pmp & rods, RTP.



FIELD: Paddock

WELL NAME: V. M. Henderson #9

LOCATION: 1980' FNL 1980' FEL

FORMATIONS: Paddock-Tubb

TOWNSHIP: 21S

SEC: 30

GL: 3484'

STATUS: P&A'd

RANGE: 37E

COUNTY: Lea

KB:

API NO: 30-025-06915

LOT: G

STATE: NM

DF: 3490'

REFNO: FA8012

Spud Date: 3/5/62

Date Completed: 4/6/62

State Lease

CURRENT

Surface Casing
11-3/4", 23.72# surface csg
Set @ 311' (15" hole size)
Pumped 300 sx, cmt to surf

Intermediate Casing
8-5/8", 24# J-55 csg
Set @ 2999' (10-5/8" hole size)
Pumped 1370 sx cmt
Circ cmt to surface

Production Casing
Triple completion within 7-5/8" hole
3 - 2-3/8" csg strings
All strings cmt'd w/1840 sx cmt.
TOC @ 2476'

P&A'd 11/27/2001

3 Strings of 2-3/8" casing cut off at 2476'

Cmt plug f/ 2300-2476' (55 sx cmt)

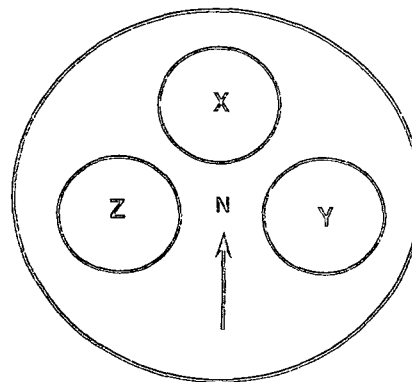
Cmt plug f/ 1200-1400' (55 sx cmt)

Cmt plug f/ 200-400' (55 sx cmt)

Cmt plug f/ 30' to surface (15 sx cmt)

8-3/4" OH f/ 2999' to 6756'

TD 6756'



X String - Penrose Skelly (later Paddock)	
<u>Perfs</u>	<u>Status</u>
3674-3786'	PS-Grayburg - squeezed
5154-5174'	Paddock - P&A'd
2-3/8" csg set @ 6747'	
CIBP set @ 3850' - Cmt Plug f/2500-3550'	

Y String - Paddock	
<u>Perfs</u>	<u>Status</u>
5161-5174'	Paddock - P&A'd
2-3/8" csg set @ 5297'	
CIBP set @ 4550' - Cmt Plug f/2500-4313'	

Z String - Drinkard (later Tubb)	
<u>Perfs</u>	<u>Status</u>
6208-6471'	Tubb - P&A'd
6596-6680'	Drinkard - abandoned
2-3/8" csg set @ 6746' - Cmt Plug f/2500-5100'	
CIBP set @ 6550' & CIBP @ 5100'	

WELL NAME: HENDERSON # 11
LOCATION: 330' FNL & 1650' FVL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: CHEVRONTEXACO

FORMATION: PADDOCK
SEC: 30
COUNTY: LEA
STATE: NEW MEXICO

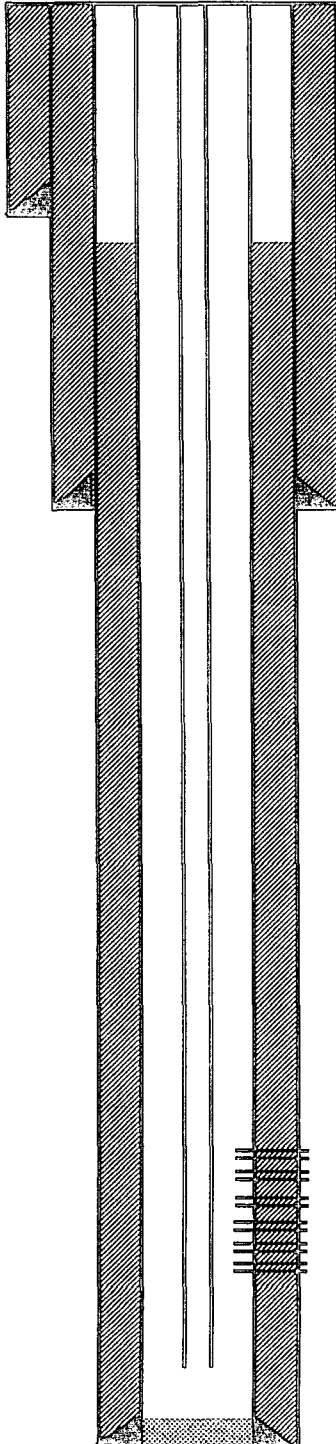
UNIT LETTER: C
API: 30-025-28511
CHEVNO: FZ5039
STATUS: ACTIVE OIL WELL

GE: 3499' KDB: _____

DF: _____

Spud Date: 1/4/1986
Completion Date: 2/2/1986
Initial Formation: Paddock

CURRENT



Surface Casing
Hole 17-1/2"
OD 13-3/8"
Wt. 54.5#
Gr. J-55
@ 400'
w/ 400 sxs cmt
TOC Surface

Intermediate Casing
Hole 11"
OD 8-5/8"
Wt. 32#
Gr. J-55
@ 2550'
w/ 1100 sxs cmt
TOC Surface

Production Casing
Hole 7-7/8"
OD 5-1/2"
Wt. 15.5#
Gr. J-55
@ 5270'
w/ 1050 sxs cmt
TOC NA

Interval Completed: From: 5138' To: 5148'

Initial Production: BOPD: 90
MCFPD: 1000
BWPD: 39

Completion Data:

Subsequent Workovers/Reconditionings/Repairs:

Paddock Perfs
5138' - 5148'
(40 holes)

2-7/8" tbg set @ 5199'

TD = 5270'

WELL NAME: MATTERN # WD 3Y
LOCATION: 1980' FSL & 1882' FWL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: HANSON OPERATING CO. INC.

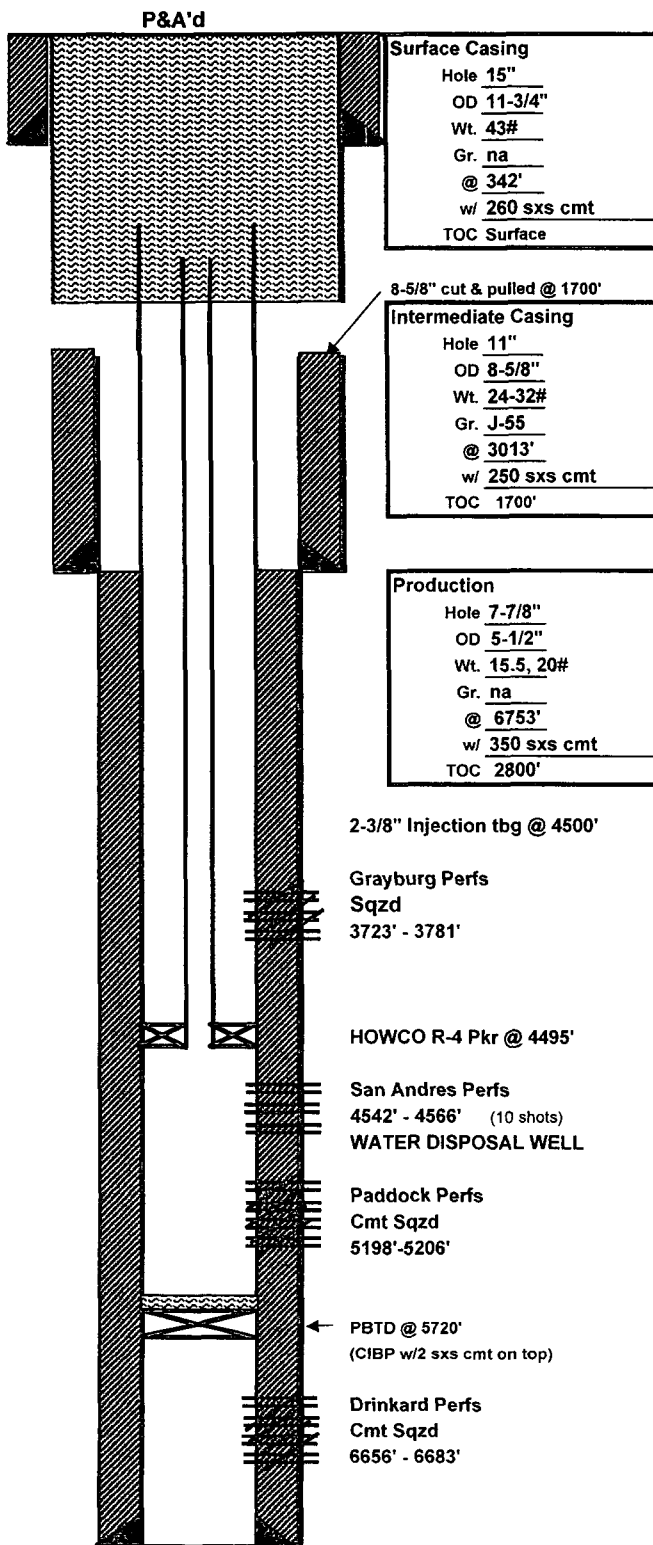
UNIT LETTER: K
SEC: 30
COUNTY: LEA
STATE: NEW MEXICO
(Formerly: H.T. Mattern #1)

FORMATION: SAN ANDRES
API: 30-025-20725
CHEVNO: NA
STATUS: WATER DISPOSAL WELL

GE: 3511' KDB: _____

DF: _____

Spud Date: 4/13/1964
Completion Date: 6/3/1964
Initial Formation: Grayburg



Interval Completed: From: 3723' To: 3781'

Initial Production: BOPD: 41
MCFPD: 0
BWPD: 96

Completion Data:

Drk perfs: 6656', 66', 73', 80', 83'. Acdz w/2000 gals.
Grayburg Perfs: 3723', 29', 38', 46', 52', 69', 81'.
Acdz w/2000 gals acid.
Completed as a single Grayburg Producer.
DRK perfs: 6656' - 6683', packed off.

Subsequent Workovers/Reconditionings/Repairs:

8-20-64 P&A'd. 30 sx plug @ 3700' to 3940'.
Spot 25 sx plug @ 2780'. Spot 25 sxs plug @ 1700'.
Spot 25 sx plug @ base of surface csg @ 345'.
Spot 10 sxs in top of surface. Weld plate & marker.
10-11-70 CO to 6740'. Set CIBP @ 5720', top w/2 sxs
cmt. Sqz Paddock perfs w/200 sxs cmt. Perfs San
Andres w/1 JSPF @ 4542', thru 4566'. Acdz w/500
gals 15% acid. Converted to SWD well.
4-14-75 Tbg parted above well head slips. Pulled 16 jts
& Tbg was parted. Mill to 594'. Recv'd 6' sliver of csg.
CO f/370' to 429' w/7-7/8" bit. Mill f/429' to 457', had 2
3' pieces of csg. Mill to 540', no sign of pipe. Mill f/516'
to 535', missed fish, ran 10-3/4" cut rite shoe on 6 jts
of 7-5/8" washpipe. Mill f/535' to 546', red bed is
caving in. POH. Ran 500' of 2-7/8" tbg. Pmp'd total
850 sxs cmt. P&A'd 5-8-75.

TD: 6754'

WELL NAME: MATTERN # 2
 LOCATION: 1980' FSL & 1783' FWL
 TOWNSHIP: 21S
 RANGE: 37E
 OPERATOR: ARCH PETROLEUM, INC.

UNIT LETTER: K
 SEC: 30
 COUNTY: LEA
 STATE: NEW MEXICO

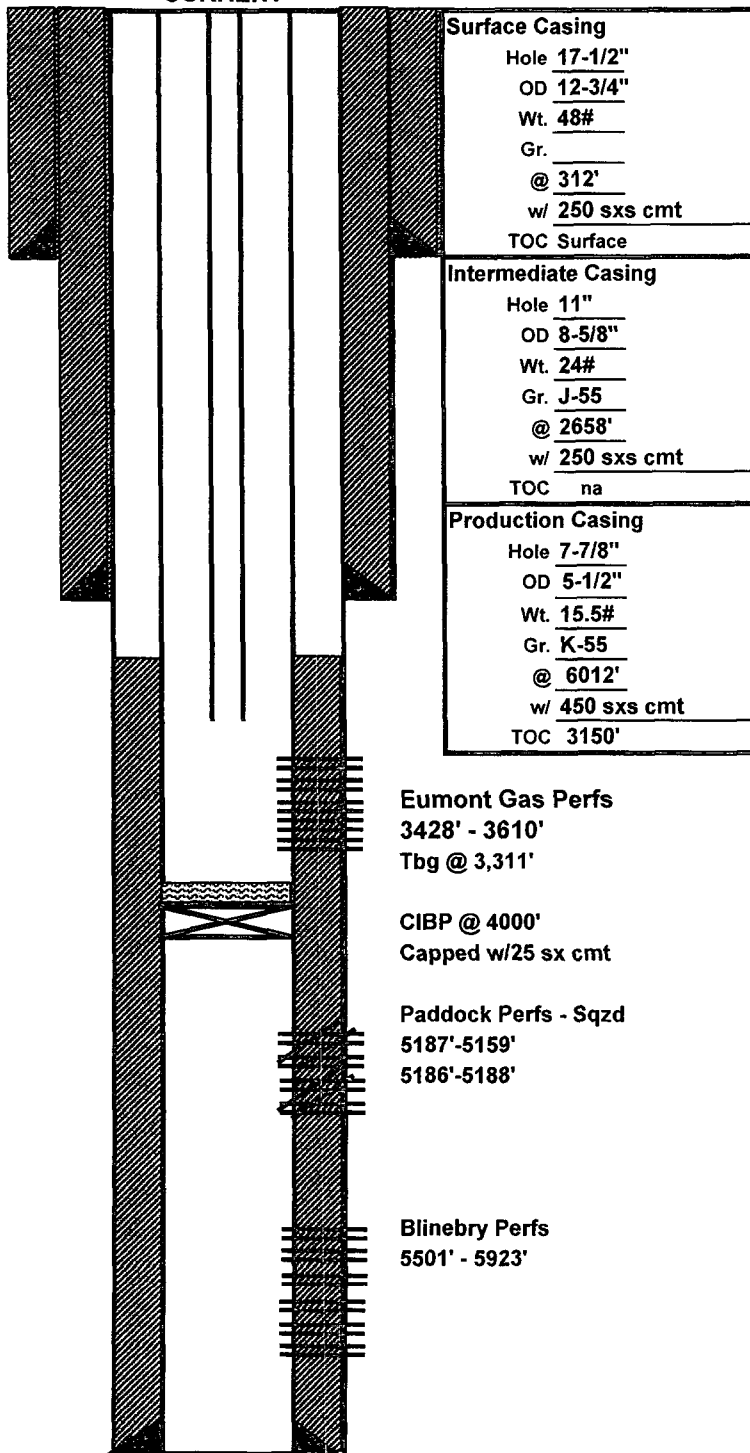
FORMATION: EUMONT
 API: 30-025-23535
 CHEVNO: FG6858
 STATUS: INACTIVE GAS WELL

GE : _____ KDB : 3511'

DF : _____

Spud Date: 6/18/1970
 Completion Date: 7/12/1970
 Initial Formation: Blinebry Oil

CURRENT



Surface Casing	
Hole	17-1/2"
OD	12-3/4"
Wt.	48#
Gr.	
@	312'
w/	250 sxs cmt
TOC	Surface
Intermediate Casing	
Hole	11"
OD	8-5/8"
Wt.	24#
Gr.	J-55
@	2658'
w/	250 sxs cmt
TOC	na
Production Casing	
Hole	7-7/8"
OD	5-1/2"
Wt.	15.5#
Gr.	K-55
@	6012'
w/	450 sxs cmt
TOC	3150'

Interval Completed: From: 5501' To: 5923'

Initial Production: BOPD: 105
 MCFPD: 0
 BWPD: 0

Completion Data:

Acdz w/2000 gals . Frac w/40,000 gals lease oil &
 23,100# 20-40 sd.

Subsequent Workovers/Reconditionings/Repairs:

5-3-85 Spot 750 gals Gypsol over Blinebry perfs and
 Acdz w/2500 gals 15% NE acid.

8-14-86 Perf Paddock @ 5187' - 5195' w/9 holes.

Acdz w/2000 gals 15% NE, swab, no indication of
 commercial production. Sqz Paddock perfs w/200 sxs
 cmt. Re-perf Paddock @ 5186'-5188' w/2 JSPF. Acdz
 w/1000 gals 15% NE, no indication of commercial oil.

Sqz 5186'-5188', w/150 sxs cmt. RTP in Blinebry perfs.

8-3-96 Set CIBP @ 4,000' & cap w/25 sx cmt. Abdn
 Blinebry and complete Eumont Gas. Eumont Perfs:

3428'-30', 3528'-30', 3543-50', 3590'-3610', w/2 - 0.5"

JHPF, total 66 holes. Acdz w/4500 gals 15% NE & Frac
 w/57,000 gals 40# gel & 200,000# 12/20 Sd.

Eumont Gas Perfs
 3428' - 3610'
 Tbg @ 3,311'

CIBP @ 4000'
 Capped w/25 sx cmt

Paddock Perfs - Sqzd
 5187'-5159'
 5186'-5188'

Blinebry Perfs
 5501' - 5923'

TD: 6012'
 PBTD:

WELL NAME: MATTERN #4
LOCATION: 2310' FSL & 2310' FEL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: ARCH PETROLEUM

FORMATION: WANTZ WEST ABO
SEC: 30
COUNTY: LEA
STATE: NEW MEXICO

UNIT LETTER: K
API: 30-025-33544
CHEVNO: B09639
STATUS: ACTIVE OIL WELL

GE: 3491' KDB:

DF:

Spud Date: 3/15/1997

Completion Date: 4/24/1997

Initial Formation: Drinkard

Interval Completed: From: 6652' To: 6679'

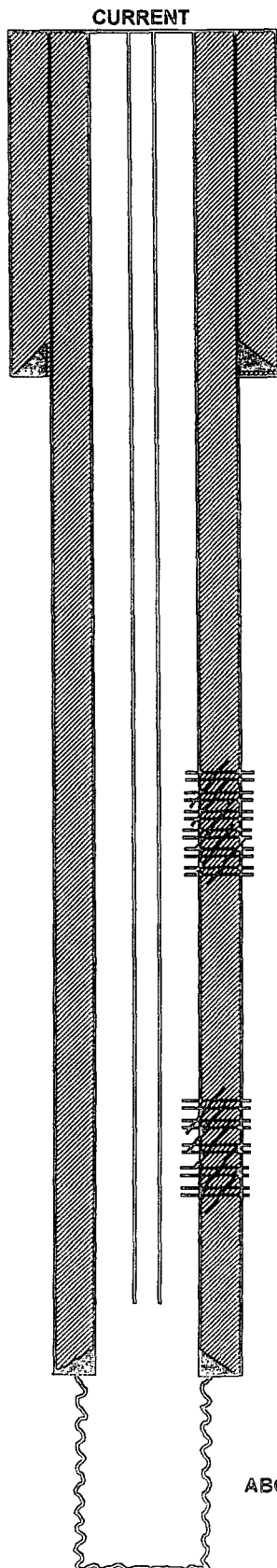
Initial Production: BOPD: 6
MCFPD: 28
BWPD: 10

Completion Data:

Changed loc. f/2310' FWL to 2310' FEL
Perf DRK: 6652'-59' & 6669'-79' w/4 - .45 JH, 10 holes.
Acidz w/11,000 gals 15% NE, Frac w/61,000 # Sd.

Subsequent Workovers/Reconditionings/Repairs:

5-17-97 Perf Blinebry 5527', 5563', 5573', 5585', 5604',
5612', 5634', 5650', 5661', 5678', 5687', 5702', 5714',
5722', 5747', 5780', 5814', 5824', 5856', 5869', 5944',
5959', total 92 holes.
Acidz 5527' - 5959' w/4700 gals 15% NEFE, & Frac w/
70,500 gals 40# XL gel 205,000# Sd.
Test: 15 Oil, 43 Gas, 494 Wtr., GOR 2866'
7-22-99 Dpn ABO Open Hole f/6818' to 7147'.
Sqzd 5527' - 5959' w/250 sxs cmt; Sqz 6652' - 6679',
w/100 sxs cmt; 6818'-7147', Acidz w/840 gals
15% NEFE.



Surface Casing
Hole 12-1/2"
OD 8-5/8"
Wt. 24#
Gr. _____
@ 1257'
w/ 620 sxs cmt
TOC Surface

Production Casing
Hole 7-7/8"
OD 5-1/2"
Wt. 15.5#
Gr. J-55
@ 6818'
w/ 2025 sxs cmt
TOC Surface

Blinebry Perfs
Sqzd w/250 sxs cmt
5527' - 5959'

Drk Perfs
6652' - 6659'
10 holes

TD = 7147'

ABO OH 6818'-7147'

Well: H.T. Mattern 'B' # 1

Field: Penrose Skelly

Reservoir: Grayburg

Current Wellbore Diagram

Location:
2310' FSL & 330' FEL
Section: 30
Township: 21S
Range: 37E Unit: I
County: Lea State: NM

Elevations:
GL: 3483'
KB: 3493'
DF: 3492'

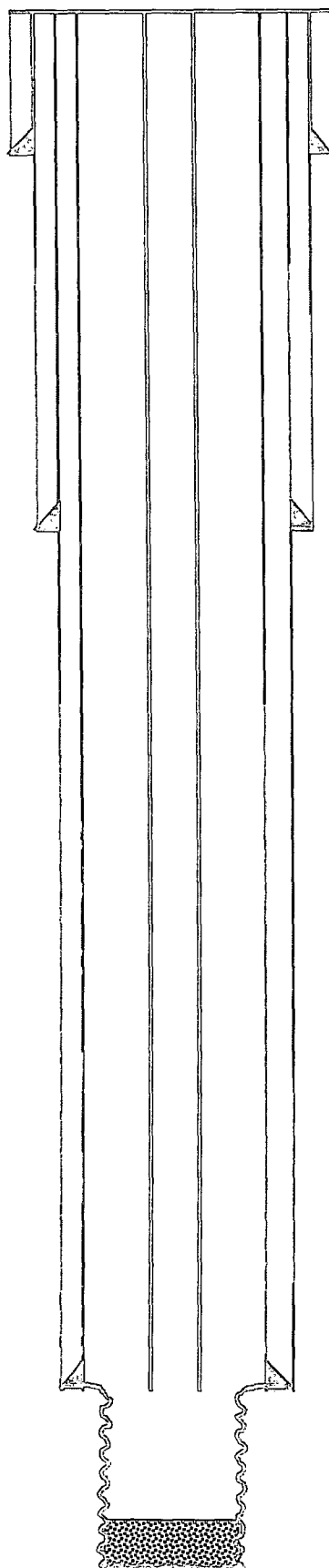
Well ID Info:
Chevno: FA7997
API No: 30-025-06900
L5/L6:
Spud Date: 3-2-37
Compl. Date: 4-12-37

Surf. Csg: 10 3/4" 32.75# SCLW
Set: @ 317' w/250 sx cmt
Hole Size: 13 3/4"
Circ: NA **TOC:** NA
TOC By: NA

Interm. Csg: 7 5/8" 22#, 8rd SCLW
Set: @ 1252' w/ 250 sx cmt
Hole Size: 9 5/8"
Circ: NR **TOC:** NA
TOC By: NA

Tubing Detail: 5-20-89

<u>#Jts:</u>	<u>Size:</u>	<u>Footage</u>
	KB Correction	10.00
1	Jts. 2 3/8" J-55 8Rd	31.50
127	Jts. 2 3/8" 4.7# 10Rd	3699.97
	2-3/8" API SN	1.10
	MA Jt. 2-3/8"	10.40
128	Bottom Of Mtr >>	3752.97



Prod. Csg: 5-1/2", 17#, 10rd SCLW
Set: @ 3652' w/ 150 sx cmt
Hole Size: 6 3/4"
Circ: No **TOC:** 2710'
TOC By: Temperature Survey

4-3/4" Open Hole f/ 3652' to 3813'
OH PB w/ Hydromite

PBTD: 3790'
TD: 3813'

chay: 3/15/05

WELL NAME: M.T. MATTERN 'B' # 13
 LOCATION: 1980' FSL & 1980' FEL
 TOWNSHIP: 21S
 RANGE: 37E
 OPERATOR: CHEVRON USA INC.

SEC: 30
 COUNTY: LEA
 STATE: NEW MEXICO
 UNIT LETTER: J

FORMATION: EUMONT
 API: 30-025-06903
 CHEVNO: FA8003
 STATUS: P&A'd WELL

GE : 3490'

KDB :

DF :

Spud Date: 2/17/1961

Completion Date: 3/14/1961

Initial Formation: Grayburg

Interval Completed: From: 3699' To: 3784'

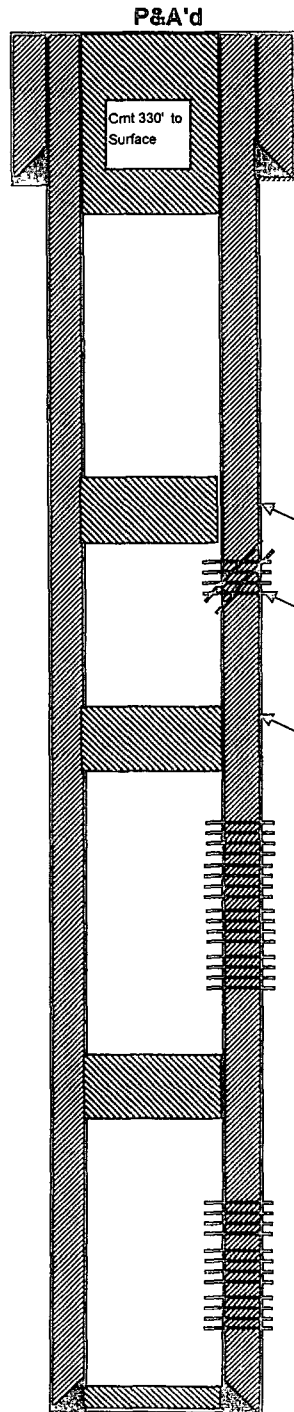
Initial Production: BOPD: 33
 MCFPD: 0
 BWPD: 0

Completion Data:

Perfs 3699' - 3784'

Subsequent Workovers/Reconditionings/Repairs:

5-2-61 Trt thru 4-1/2" csg, w/43,555 gals refined oil.
 1-7-62 Set cmt retrn @ 3690', top w/2 sxs. Pull
 tbg Spotted cmt plug 50' to surface. Clean loc,
 Installed P&A marker. 1-8-62.
 10-70 CO to 3687'. Spot 1000 gals 15% acid.
 Perf 4-1/2" csg w/2 - 1/2" JHPF @ 2884'-86',
 2967'-69', 3204'-06', 3256'-58', 3418'-20', 3536'-38',
 & 3574'-76'. Frac trt w/35,000 gals gel wtr. Well
 has not indicated commerical production. In
 evaluation. Eumont Gas
 11-17-70 Well TA'd. Uneconomical to produce.
 8-24-98 Set CICR @ 2600', sqzd 65 sxs cmt
 under CR. Spot 60' cmt 2600'-2540'. Perf & sqz
 holes @ 1250'. Set CICR @ 1200'. Sqzd w/50 sxs
 cmt. Spot 60' cmt plug 1200' - 1140'. Isolate hole
 in 4-1/2" csg @ 330'. Ppd 115 sx cmt under Pkr
 @ surf, dwn 4-1/2" csg thru hole @ 330' w/ cmt,
 circ to surf. Cut off WH & set P&A Marker. 8-26-98



TD = 3825'

WELL NAME: STATE CK # 1
LOCATION: 330' FSL & 2209' FWL
TOWNSHIP: 21S
RANGE: 37E
OPERATOR: APACHE

FORMATION: DRINKARD / PADDOCK
SEC: 19
COUNTY: LEA
STATE: NEW MEXICO
UNIT LETTER: N
API: 30-025-06672
CHEVNO: NA
STATUS: OIL-DUAL COMPLETION

GE : _____ KDB : _____

DF : 3516'

Spud Date: 11/23/1961
Completion Date: 1/2/1962
Initial Formation: DRK & PADDOCK

Interval Completed: Paddock : 5153' To: 5156'
DRK 6631' To: 6667'
Initial Production: BOPD: DRK-96
BOPD: PADDOCK-97

Completion Data:

Acidz Drk w/3000 gals Acid

Acidz Paddock w/500 gals acid

Run Dual equipment

Drk perms: 6631'-54'; 6661'-67', & Paddock

Paddock perms : 5153'-5156'

Additional DRK perms: 6562'-65' Sqzd

Subsequent Workovers/Reconditionings/Repairs:

4-28-87 Acidz Drk w/275 gals A-Sol & 5000 gals

15% gel acid

4-13-89 Perf 1200' & cmt sqz between 5-1/2" & 8-5/8"

csg w/275 sxs cmt. Circ. DO. RIH w/tbg. RTP.

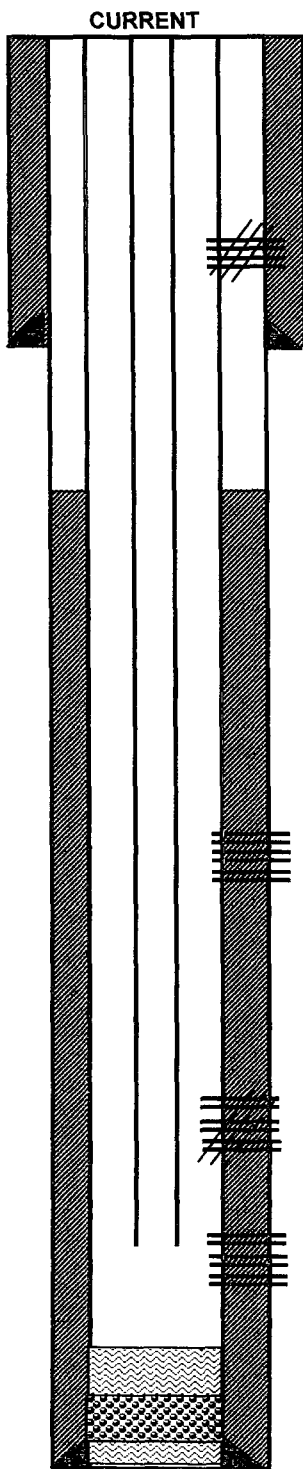
12-3-92 Down Hole Commingle, Order # DHC 84

Pulled dual assembly, CO 6670', acidz w/4500 gals 15%

Hcl. Run single string of Tbg.

DRK - 28% Oil & 55% Gas

Paddock - 72% Oil & 45% Gas



Surface Casing

Hole 12-1/2"
OD 8-5/8"
Wt. 24#
Gr. J-55
@ 1225'
w/ 650 sxs cmt
TOC Surf. By circ.

Perf & sqz @ 1200"
between csqs

Production Casing

Hole 7-7/8"
OD 5-1/2"
Wt. 14#
Gr. 8rd st&c
@ 6753'
w/ 675 sxs cmt
TOC 2400' by calc.

Paddock Perfs
5153' - 5156'

DRK Perfs
6562' - 65'
Sqzd w/50 sxs cmt

DRK Perfs
6631' - 54'
6661' - 67'

CO to 6670'

Sand - Drl'd out to 6715'

PBTD = 6715'
TD = 6753'

Analysis: 37162

Water Analysis Report from Baker Petrolite

Summary of Mixing Waters		
Sample Number	323046	323048
Company	CHEVRON-TEXACO	CHEVRON-TEXACO
Lease	ROLLON BRUNSON	V.M. HENDERSON
Well	5	BATTERY
Sample Location	WELLHEAD	WATER DUMP
FORMATION:	SAN ANDRES	VARIOUS
Anions (mg/L)		
Chloride	7,285	8,007
Bicarbonate	2,170	2,990
Carbonate	0.00	0.00
Sulfate	148	239
Phosphate	0.00	0.00
Borate	0.00	0.00
Silicate	0.00	0.00
Cations (mg/L)		
Sodium	4,554	5,098
Magnesium	181	242
Calcium	562	677
Strontium	25.0	12.0
Barium	3.00	2.00
Iron	4.00	2.00
Potassium	92.0	157
Aluminum	0.00	0.00
Chromium	0.00	0.00
Copper	0.00	0.00
Lead	0.00	0.00
Manganese	0.00	0.00
Nickel	0.00	0.00
Anion/Cation Ratio	1.00	1.00
TDS (mg/L)	15,024	17,426
Density (g/cm)	1.01	1.01
Sampling Date	3/15/05	3/15/05
Account Manager	TIM GRAY	TIM GRAY
Analyst	SALLY MOORE	SALLY MOORE
Analysis Date	3/17/05	3/18/05
pH at time of sampling		
pH at time of analysis	6.96	7.05
pH used in Calculations	6.96	7.05

Water Analysis Report from Baker Petrolite

Mixes at 80°F and 0 psi

Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl												
Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ •2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
323046	323048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	2.79	1.27	361	-1.16		-1.23		-1.13		1.20	1.10
10%	90%	2.77	1.25	348	-1.18		-1.25		-1.10		1.21	1.16
20%	80%	2.74	1.23	336	-1.20		-1.27		-1.07		1.22	1.21
30%	70%	2.72	1.20	323	-1.22		-1.29		-1.05		1.22	1.27
40%	60%	2.69	1.18	311	-1.24		-1.31		-1.03		1.23	1.33
50%	50%	2.67	1.15	298	-1.27		-1.33		-1.01		1.23	1.38
60%	40%	2.65	1.12	286	-1.29		-1.35		-0.99		1.23	1.44
70%	30%	2.62	1.09	273	-1.31		-1.38		-0.98		1.23	1.50
80%	20%	2.60	1.07	260	-1.34		-1.40		-0.97		1.23	1.55
90%	10%	2.57	1.04	247	-1.37		-1.43		-0.97		1.23	1.61
100%	0%	2.55	1.00	234	-1.39		-1.46		-0.96		1.22	1.66

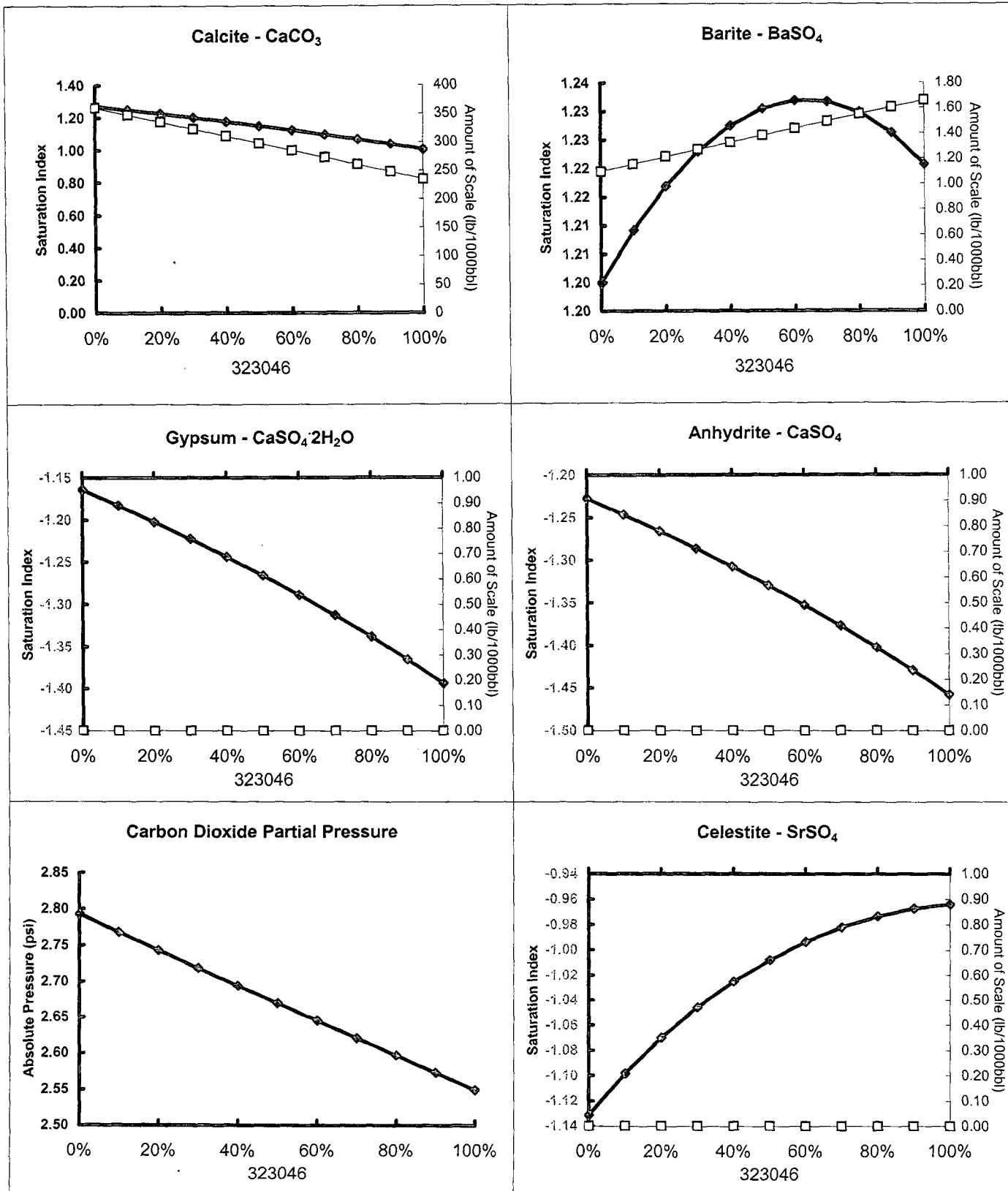
Note 1: The amount of scale indicates the severity of the problem. The saturation index (SI) indicates how difficult it is to control the problem.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Mixture Predictions from Baker-Petrolite Analysis: 37162

323046 with 323048 at 80°F and 0 psi



Analysis: 37162

Water Analysis Report from Baker Petrolite

Mixes at 100°F and 0 psi

Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl												
Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ •2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
323046	323048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	3.67	1.38	388	-1.19		-1.19		-1.12		1.05	1.07
10%	90%	3.63	1.36	376	-1.21		-1.21		-1.09		1.06	1.13
20%	80%	3.60	1.33	363	-1.23		-1.22		-1.06		1.06	1.18
30%	70%	3.56	1.31	350	-1.25		-1.24		-1.04		1.07	1.24
40%	60%	3.53	1.28	338	-1.27		-1.27		-1.02		1.07	1.29
50%	50%	3.50	1.26	325	-1.29		-1.29		-1.00		1.08	1.35
60%	40%	3.46	1.23	312	-1.31		-1.31		-0.98		1.08	1.40
70%	30%	3.43	1.20	299	-1.34		-1.33		-0.97		1.08	1.46
80%	20%	3.40	1.18	286	-1.36		-1.36		-0.96		1.08	1.51
90%	10%	3.36	1.15	273	-1.39		-1.39		-0.96		1.07	1.56
100%	0%	3.33	1.12	259	-1.42		-1.41		-0.95		1.07	1.61

Note 1: The amount of scale indicates the severity of the problem. The saturation index (SI) indicates how difficult it is to control the problem.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

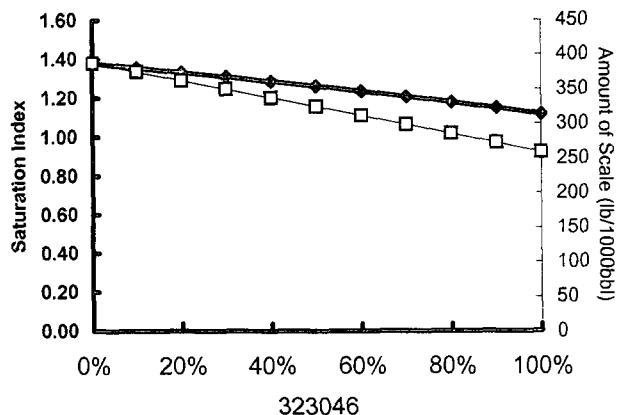
Note 3: The reported CO₂ pressure is the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Mixture Predictions from Baker-Petrolite

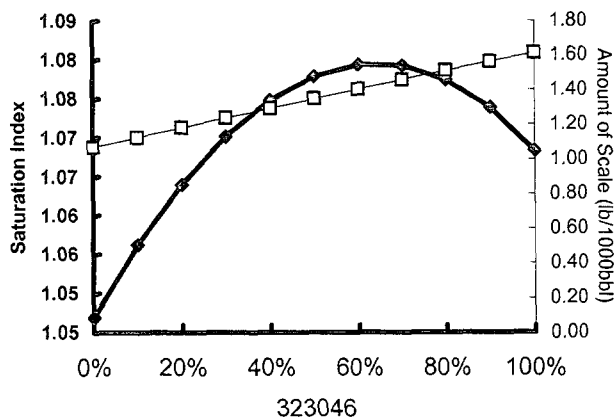
Analysis: 37162

323046 with 323048 at 100°F and 0 psi

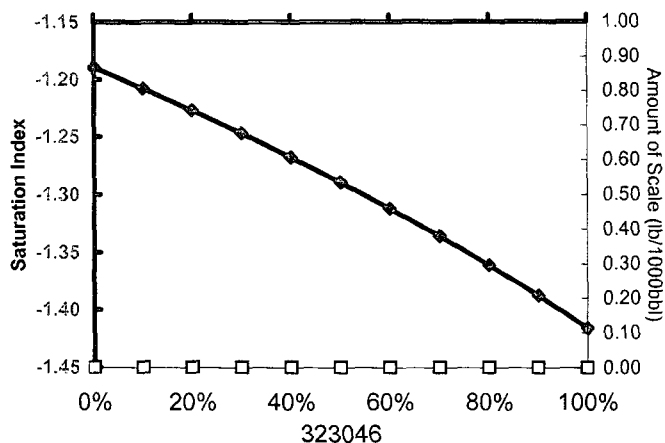
Calcite - CaCO_3



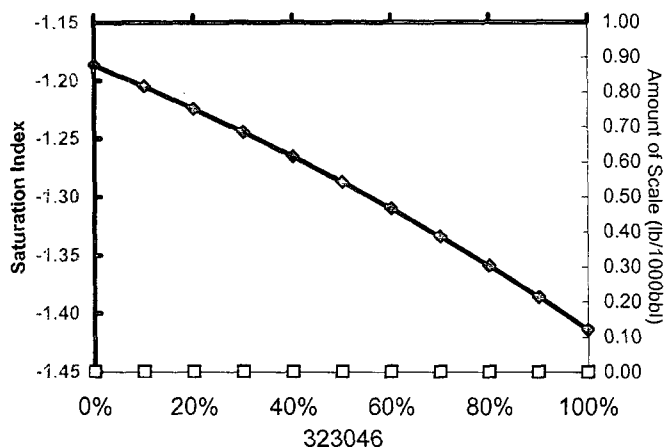
Barite - BaSO_4



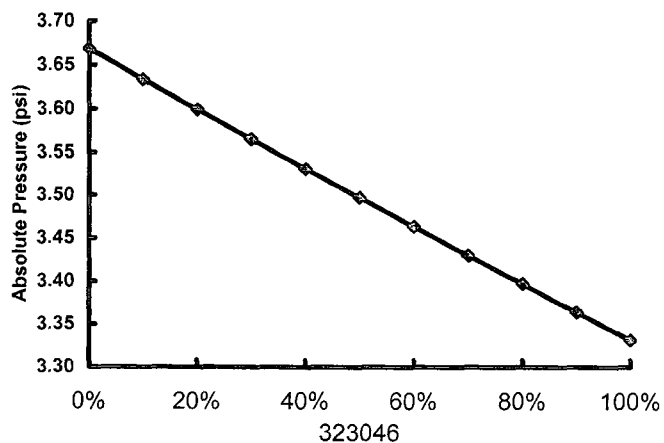
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



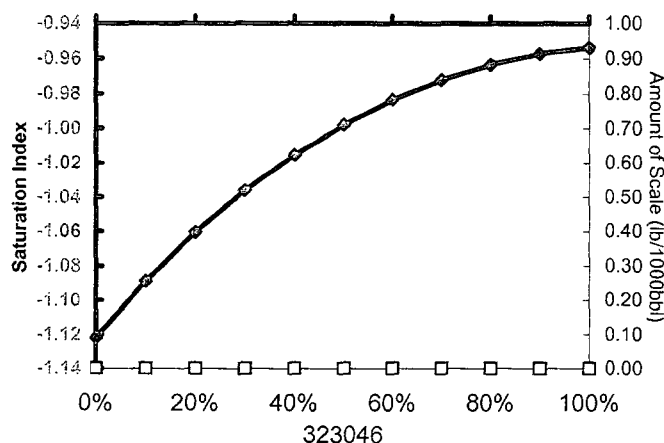
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



Analysis: 37162

Water Analysis Report from Baker Petrolite

Mixes at 120°F and 0 psi

Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl												
Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ •2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
323046	323048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	4.66	1.49	416	-1.20		-1.12		-1.10		0.92	1.03
10%	90%	4.61	1.47	403	-1.22		-1.14		-1.07		0.93	1.09
20%	80%	4.56	1.44	390	-1.24		-1.16		-1.04		0.94	1.14
30%	70%	4.51	1.42	377	-1.26		-1.18		-1.02		0.94	1.20
40%	60%	4.47	1.40	364	-1.28		-1.20		-0.99		0.95	1.25
50%	50%	4.42	1.37	351	-1.30		-1.22		-0.98		0.95	1.31
60%	40%	4.38	1.35	338	-1.33		-1.24		-0.96		0.95	1.36
70%	30%	4.33	1.32	325	-1.35		-1.27		-0.95		0.95	1.41
80%	20%	4.29	1.29	312	-1.37		-1.29		-0.94		0.95	1.46
90%	10%	4.24	1.26	298	-1.40		-1.32		-0.94		0.95	1.51
100%	0%	4.20	1.23	285	-1.43		-1.35		-0.93		0.94	1.56

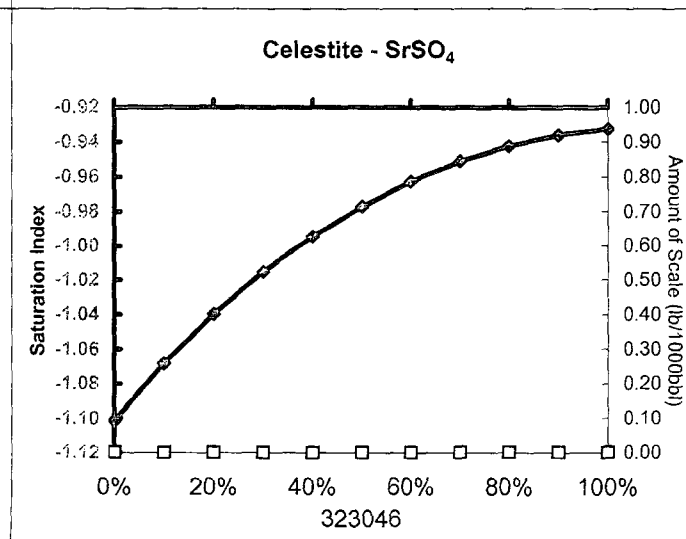
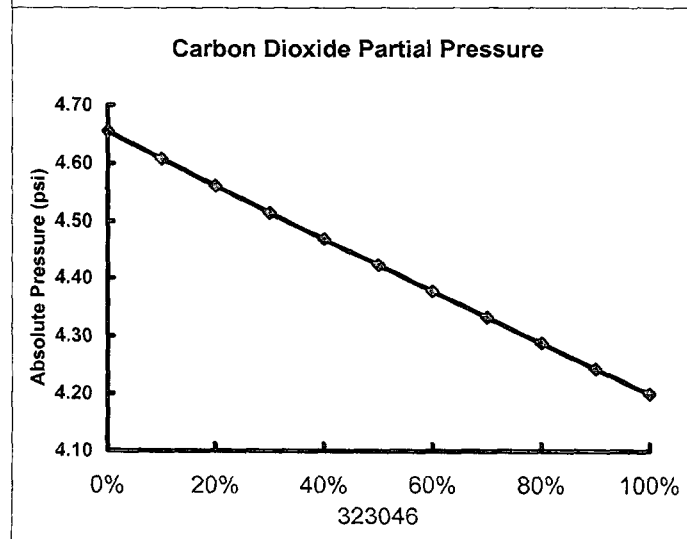
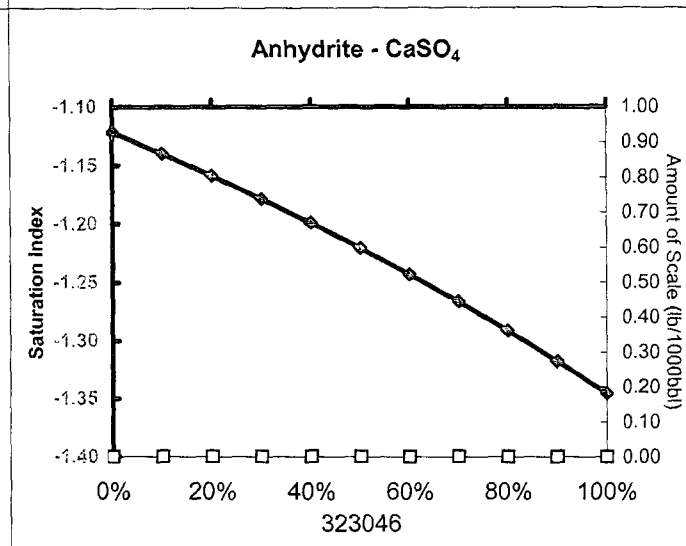
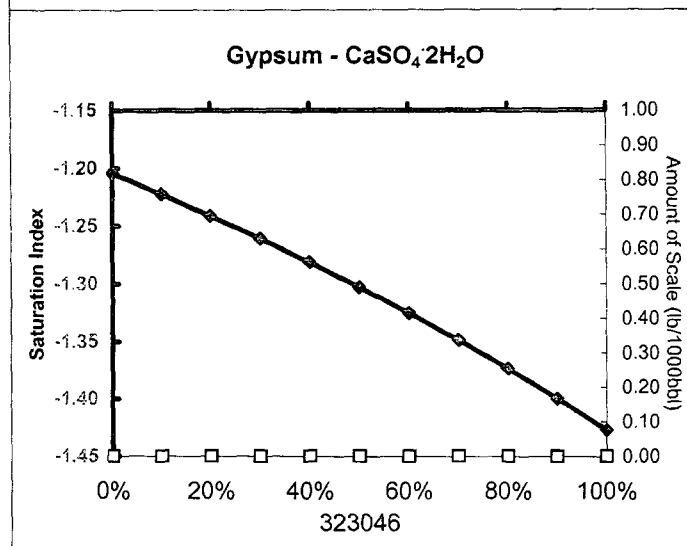
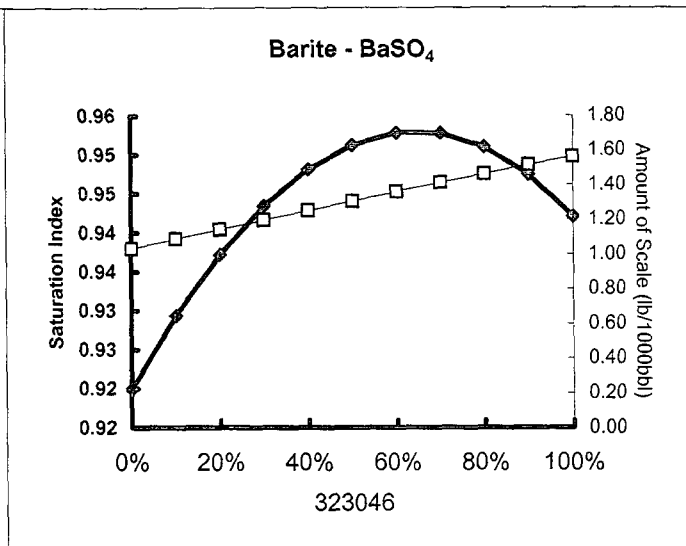
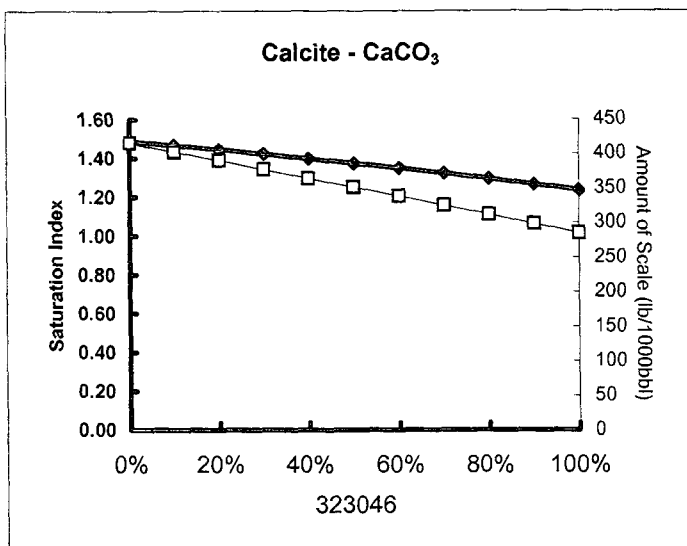
Note 1: The amount of scale indicates the severity of the problem. The saturation index (SI) indicates how difficult it is to control the problem.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Mixture Predictions from Baker-Petrolite Analysis: 37162

323046 with 323048 at 120°F and 0 psi



Water Analysis Report from Baker Petrolite

Mixes at 140°F and 0 psi

Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl												
Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ •2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
323046	323048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	5.74	1.60	443	-1.21		-1.04		-1.07		0.82	1.00
10%	90%	5.68	1.58	430	-1.23		-1.05		-1.04		0.83	1.05
20%	80%	5.62	1.56	417	-1.25		-1.07		-1.01		0.83	1.10
30%	70%	5.56	1.54	404	-1.27		-1.09		-0.99		0.84	1.16
40%	60%	5.49	1.51	391	-1.29		-1.11		-0.96		0.84	1.21
50%	50%	5.43	1.49	378	-1.31		-1.13		-0.95		0.85	1.26
60%	40%	5.37	1.47	365	-1.33		-1.16		-0.93		0.85	1.31
70%	30%	5.31	1.44	351	-1.35		-1.18		-0.92		0.85	1.36
80%	20%	5.25	1.41	338	-1.38		-1.20		-0.91		0.85	1.41
90%	10%	5.19	1.38	324	-1.40		-1.23		-0.91		0.84	1.46
100%	0%	5.14	1.36	310	-1.43		-1.26		-0.90		0.84	1.51

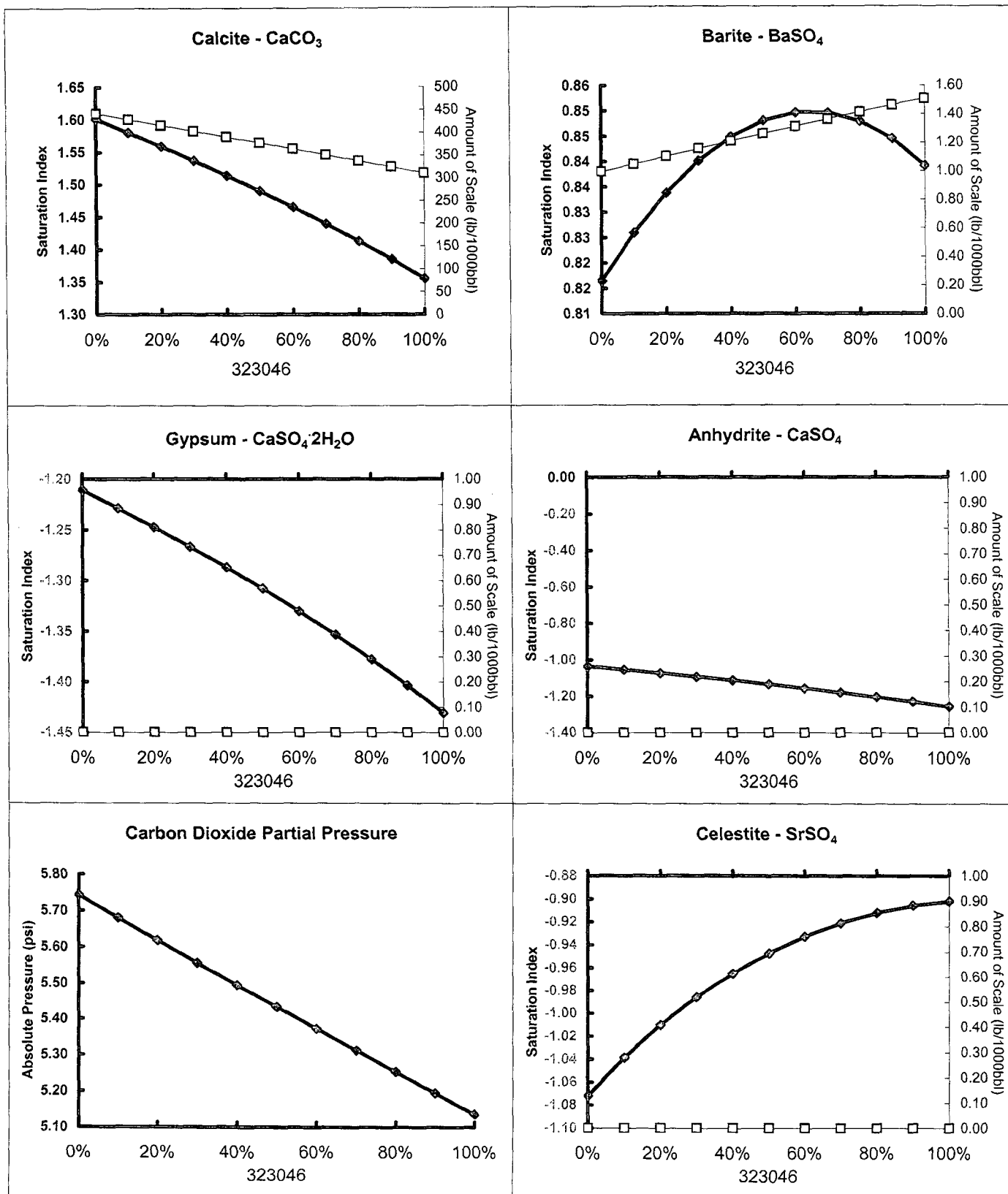
Note 1: The amount of scale indicates the severity of the problem. The saturation index (SI) indicates how difficult it is to control the problem.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Mixture Predictions from Baker-Petrolite Analysis: 37162

323046 with 323048 at 140°F and 0 psi



Analysis: 37162

Water Analysis Report by Baker Petrolite

CHEVRON-TEXACO

ROLLON BRUNSON

5

WELLHEAD

FORMATION: SAN ANDRES

Account Manager

TIM GRAY

Summary		Analysis of Sample 323046 @ 75°F					
Sampling Date	3/15/05	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date	3/17/05	Chloride	7285	205	Sodium	4554	198
Analyst	SALLY MOORE	Bicarbonate	2170	35.6	Magnesium	181	14.9
		Carbonate	0.00	0.00	Calcium	562	28.0
TDS (mg/l or g/m ³)	15023.9	Sulfate	148	3.08	Strontium	25.0	0.57
Density (g/cm ³ or tonne/m ³)	1.011	Phosphate	N/A	N/A	Barium	3.00	0.04
Anion/Cation Ratio	1.00	Borate	N/A	N/A	Iron	4.00	0.14
		Silicate	N/A	N/A	Potassium	92.0	2.35
					Aluminum	N/A	N/A
					Chromium	N/A	N/A
					Copper	N/A	N/A
		pH at time of sampling			Lead	N/A	N/A
		pH at time of analysis		6.96	Manganese	N/A	N/A
		pH used in Calculations		6.96	Nickel	N/A	N/A

Specific ion interactions calculated only for ions in bold faced type.

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000bbl										
Temp.	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		Calc. CO ₂
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0.	1.00	235	-1.39		-1.46		-0.96		1.22	1.66	2.55
100	0.	1.12	260	-1.42		-1.41		-0.95		1.07	1.61	3.33
120	0.	1.23	285	-1.43		-1.35		-0.93		0.94	1.56	4.20
140	0.	1.36	310	-1.43		-1.26		-0.90		0.84	1.51	5.14

Note 1: The amount of scale indicates the severity of the problem. The saturation index (SI) indicates how difficult it is to control the problem.

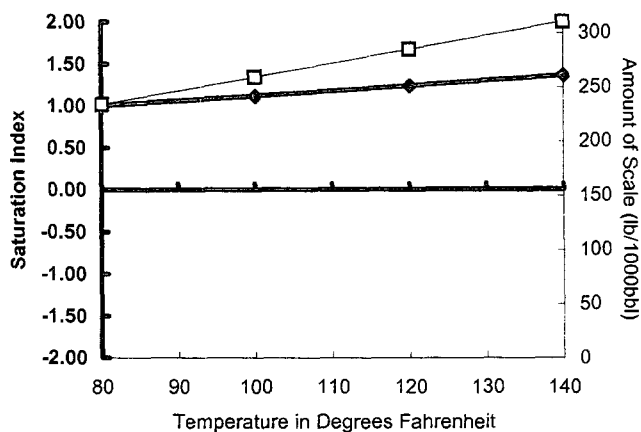
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

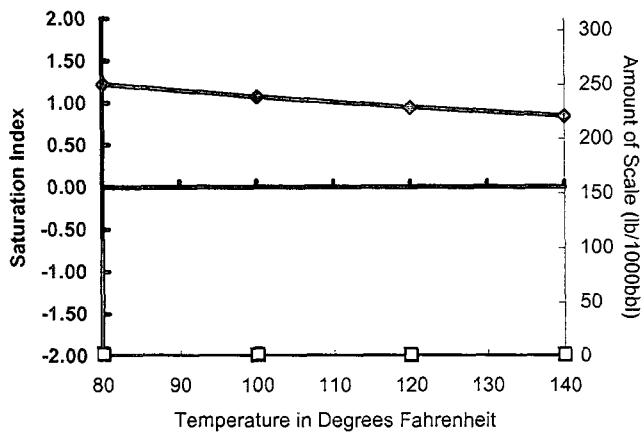
Scale Predictions from Baker Petrolite Analysis: 37162

Analysis of Sample 323046 @ 75°F for CHEVRON-TEXACO, Mar/17/05

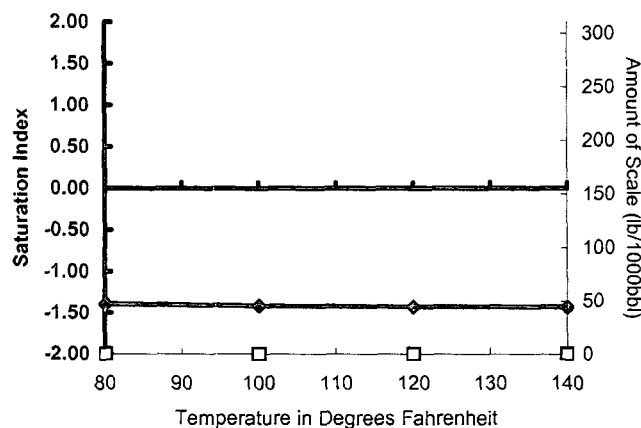
Calcite - CaCO_3



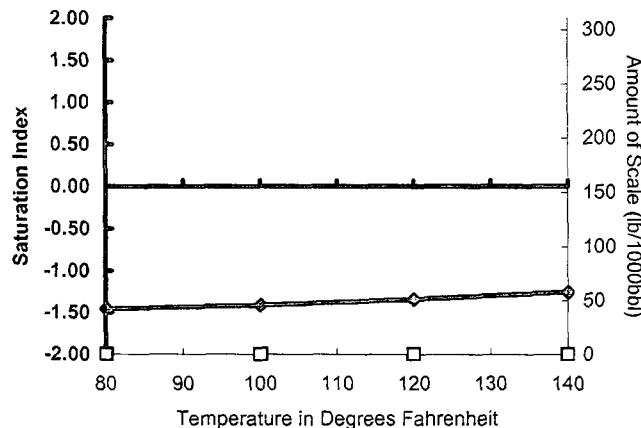
Barite - BaSO_4



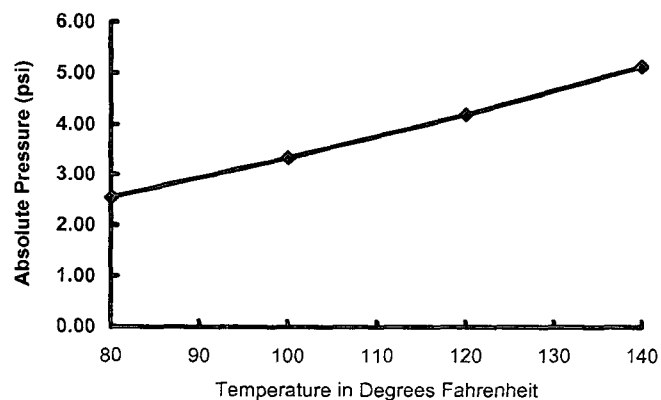
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



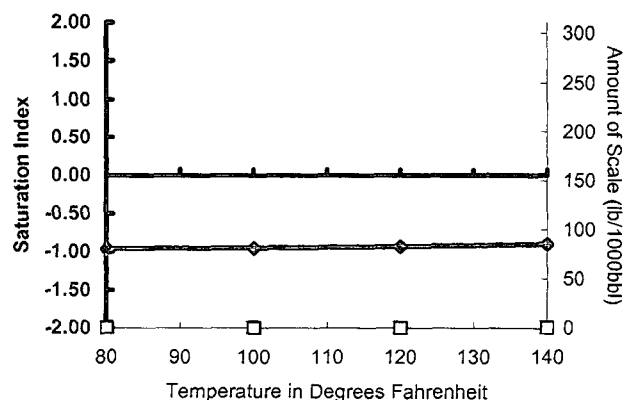
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



Analysis: 37162

Water Analysis Report by Baker Petrolite

CHEVRON-TEXACO

V.M. HENDERSON

BATTERY

WATER DUMP

FORMATION : VARIOUS

Account Manager

TIM GRAY

Summary			Analysis of Sample 323048 @ 75°F					
Sampling Date	3/15/05	Anions	<i>mg/l</i>	<i>meq/l</i>	Cations	<i>mg/l</i>	<i>meq/l</i>	
Analysis Date	3/18/05	Chloride	8007	226	Sodium	5098	222	
Analyst	SALLY MOORE	Bicarbonate	2990	49.0	Magnesium	242	19.9	
		Carbonate	0.00	0.00	Calcium	677	33.8	
TDS (mg/l or g/m³)	17425.9	Sulfate	239	4.98	Strontium	12.0	0.27	
Density (g/cm³ or tonne/m³)	1.013	Phosphate	N/A	N/A	Barium	2.00	0.03	
Anion/Cation Ratio	1.00	Borate	N/A	N/A	Iron	2.00	0.07	
		Silicate	N/A	N/A	Potassium	157	4.02	
					Aluminum	N/A	N/A	
					Chromium	N/A	N/A	
					Copper	N/A	N/A	
					Lead	N/A	N/A	
		pH at time of sampling			Manganese	N/A	N/A	
		pH at time of analysis		7.05	Nickel	N/A	N/A	
		pH used in Calculations		7.05				

Specific ion interactions calculated only for ions in bold faced type.

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000bbl										
Temp.	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		Calc. CO ₂
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0.	1.27	361	-1.16		-1.23		-1.13		1.20	1.10	2.79
100	0.	1.38	388	-1.19		-1.19		-1.12		1.05	1.07	3.67
120	0.	1.49	416	-1.20		-1.12		-1.10		0.92	1.03	4.66
140	0.	1.60	443	-1.21		-1.04		-1.07		0.82	1.00	5.74

Note 1: The amount of scale indicates the severity of the problem. The saturation index (SI) indicates how difficult it is to control the problem.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

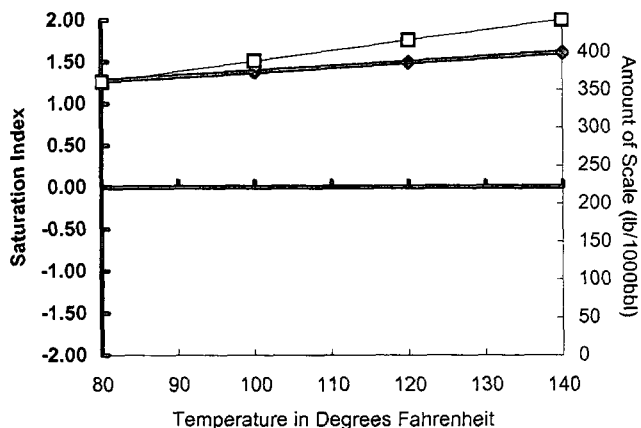
Note 3: The reported CO₂ pressure is the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Scale Predictions from Baker Petrolite

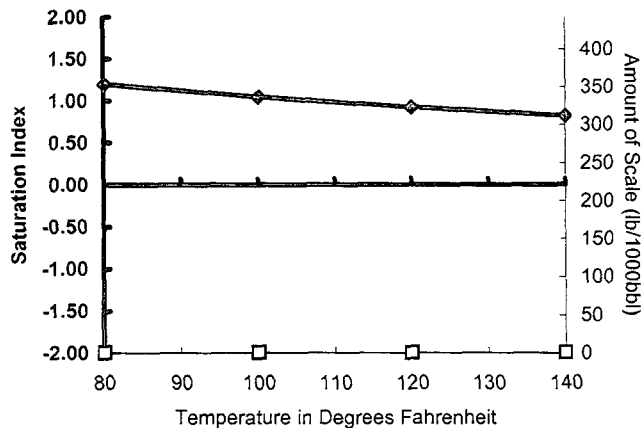
Analysis: 37162

Analysis of Sample 323048 @ 75°F for CHEVRON-TEXACO, Mar/18/05

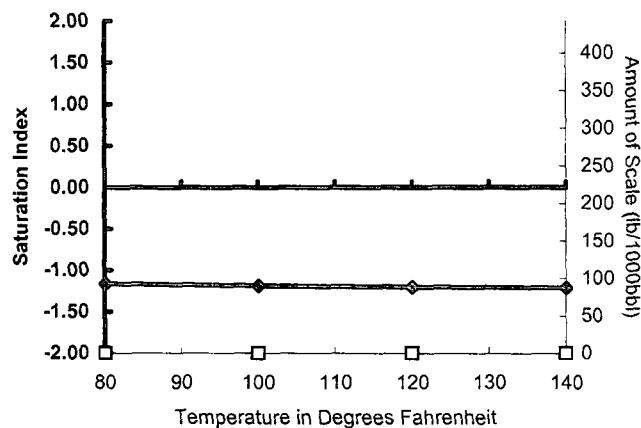
Calcite - CaCO_3



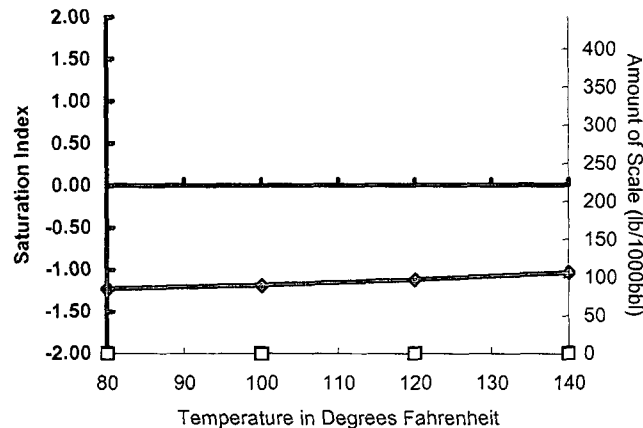
Barite - BaSO_4



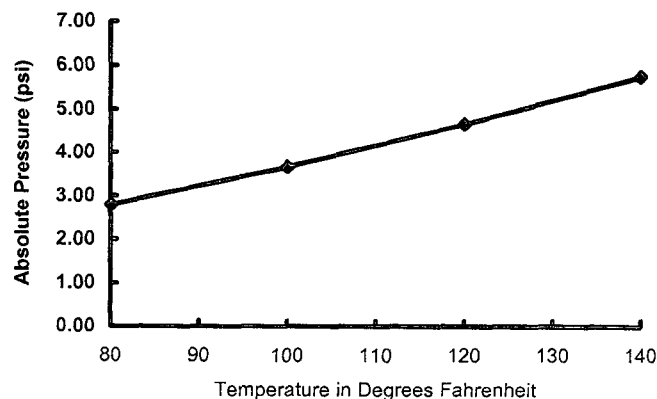
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



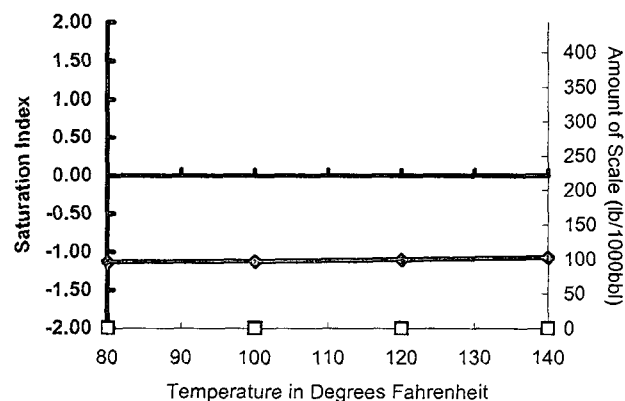
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	CHEVRON-TEXACO INCORPORATED	Sales RDT:	33518
Region:	PERMIAN BASIN	Account Manager:	TIM GRAY (505) 910-9390
Area:	EUNICE, NM	Sample #:	325490
Lease/Platform:	BRUTON	Analysis ID #:	50665
Entity (or well #):	SECTION 29 8-21 S, R-37 E	Analysis Cost:	\$40.00
Formation:	UNKNOWN <i>FRESH WATER WELL</i>		
Sample Point:	UNIT LETTER M		

Summary		Analysis of Sample 325490 @ 75 °F					
Sampling Date:	4/12/05	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	4/19/05	Chloride:	103.0	2.91	Sodium:	80.5	3.5
Analyst:	ANNA McELANEY	Bicarbonate:	310.0	5.08	Magnesium:	35.0	2.88
TDS (mg/l or g/m3):	713.6	Carbonate:	0.0	0.	Calcium:	69.0	3.44
Density (g/cm3, tonne/m3):	1.001	Sulfate:	104.0	2.17	Strontium:	2.5	0.06
Anion/Cation Ratio:	0.9999987	Phosphate:			Barium:	0.1	0.
		Borate:			Iron:	2.5	0.09
		Silicate:			Potassium:	7.0	0.18
Carbon Dioxide:					Aluminum:		
Oxygen:		Hydrogen Sulfide:			Chromium:		
Comments:		pH at time of sampling:			Copper:		
32° - 26,650'		pH at time of analysis:		7.82	Lead:		
103° - 11,678'		pH used in Calculation:		7.82	Manganese:		
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.60	10.51	-1.67	0.00	-1.74	0.00	-1.39	0.00	0.31	0.00	0.07
100	0	0.71	13.66	-1.66	0.00	-1.67	0.00	-1.37	0.00	0.17	0.00	0.09
120	0	0.82	17.16	-1.65	0.00	-1.58	0.00	-1.34	0.00	0.06	0.00	0.13
140	0	0.95	21.02	-1.63	0.00	-1.46	0.00	-1.29	0.00	-0.03	0.00	0.16

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Offset Operators

Arch Petroleum
300 N Marienfeld St. Ste 600
Midland, TX 79701 ✓

Apache Corporation
Attn: Mario Moreno ✓
6120 S. Vale, Ste. 1500
Tulsa, OK 74136

John H Hendrix Corp.
P.O. Box 3040 ✓
Midland, TX 79702

Hanson Operating co. ✓
P.O. BOX 1515
Roswell, NM 88201

Campbell & Hedrick
P.O. BOX 401 ✓
MIDLAND, TX 79702

Elia Energy
AS Turner 4
Bo - 02/57 37162

Surface Owner — ?

Chevron U.S.A. Production Co.
A. M. Howell
NM Petroleum Engineer
15 Smith Road
Midland, Texas 79705
Office 432-687-7516
maho@chevrontexaco.com

ChevronTexaco

April 13, 2005

CONVERT TO SALT WATER DISPOSAL LEA COUNTY, NEW MEXICO

V.M. HENDERSON # 15,
Offset Operators:

For your information, as an offset operator, ChevronTexaco Exploration and Production Co., as operator of the V.M. Henderson # 15, filed an application with the New Mexico Oil Conservation Division to convert the V.M. Henderson well # 15, in the Blinbry formation well, to a San Andres Water Disposal well, located in Section 30, Unit Letter G, T21S, R37E, 1650' FNL & 1650' FEL, Lea County, New Mexico.

Attached is an OCD Form C-108 with information relative to the water disposal conversion of the referenced well. A copy of the legal notice posted in the Hobbs News-Sun is included. The enclosed map highlights the location of the V.M. Henderson # 15, in relation to your offset operations.

Sincerely,



A. M. Howell
NM Petroleum Engineer

Attachments

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I,

Publisher

of the Hobbs News-Sun, a
newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1

 weeks.

Beginning with the issue dated

March 18 2005

and ending with the issue dated

March 18 2005

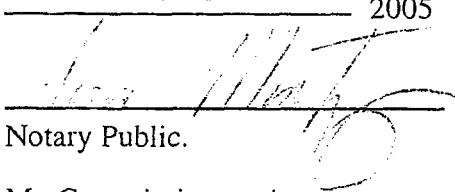


Publisher

Sworn and subscribed to before

me this 18th day of

March 2005


Notary Public.

My Commission expires
February 07, 2009
(Seal)

LEGAL NOTICE
March 18, 2005

Notice is hereby given of the application of ChevronTexaco Exploration & Production Co., 15 Smith Road, Midland, TX 79705, (432) 687-7516, to the Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department, for approval of the following gas well to be converted for the purpose of water disposal.

From: V.M. Henderson #15 (API 30-025-33328)
To: V.M. Henderson #15 Salt Water Disposal well,
Located in Unit Letter G, 1650' FNL & 1650' FEL, Sec. 30,
T21S, R37E, Lea County, New Mexico.

The injection formation is the San Andres located between the interval of 4400' MD to 5000' MD, below the surface of the ground. Expected maximum injection rate is 10,000 barrels per day and the expected maximum injection pressure is 1200 psi.

Interested Parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505, within 15 days of this notice.
#21372

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

49100176000 67528790
Chevron Texaco
15 Smith Rd.
MIDLAND, TX 79705



Denise K. Beckham
Staff Landman
Permian Basin
2005 AUG 8 PM 12 10

Mid-Continent Business Unit
Chevron U.S.A. Inc.
15 Smith Rd.
Midland, Texas 79705
Tel 432-687-7235
Fax 432-687-7871
dkbe@chevron.com

July 22, 2005

Winnie and Tom Kennann
c/o Leo V. Sims II
P. O. Box 2630
Hobbs, New Mexico 88241-2630

V. M. Henderson #15
Conversion to Salt Water Disposal Well
Lea County, New Mexico

Dear Mr. & Mrs. Kennann:

This is to notify you that Chevron U.S.A. Inc. has filed an application with the New Mexico Oil Conservation Division to convert the Henderson #15 Well to a Salt Water Disposal Well, to dispose of water into the San Andres Formation. The well is located 1650' FNL & 1650' FEL of Section 30, T-21-S, R-37-E, N.M.P.M., Lea County, New Mexico. All the water that will be disposed into the well will be produced from the Henderson Lease. The well formerly produced from the Blinbry Formation.

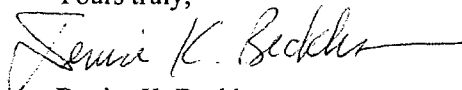
Chevron plans to set a cast iron bridge plug (CIBP) @ 5500' and top it with 35 feet of cement. The San Andres Formation will be perforated from 4400' to 5000'.

As surface owner, you do have the right to file an objection with the New Mexico Oil Conservation Division. Please be advised that you must file your objection within fifteen (15) days from the date you receive this notice. Please file your objection with the New Mexico Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, New Mexico 87505.

Attached is an OCD form C-108 with information relative to the water disposal conversion of the referenced well. A copy of the legal notice that was posted in the Hobbs News-Sun is also included.

This letter will replace the letter from Mike Howell dated July 6, 2005. Should you have questions, please contact me or Hollis Cox of our Eunice Office.

Yours truly,


Denise K. Beckham

Notification for the Henderson #15 conversion to SWD

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Winnie and Tom Kennann
c/o Leo V. Sims II
P. O. Box 2630
Hobbs, New Mexico 88241-2630

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent

☐ Addressee

B. Received by (Printed Name)

Leo V Sims

C. Date of Delivery

7-25-05

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail

☐ Express Mail

☐ Registered

☐ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number
(Transfer from service label)

7002 2410 0001 5905 7140

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540