

5/21/08 DATE IN	SUSPENSE	W Jones ENGINEER	5/22/08 LOGGED IN	SWD TYPE	PKVRO814331165 APP NO.
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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.

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

CAROLYN HAYNIE
Print or Type Name

Signature

PETROLEUM ENGINEER TA
Title

Date

chay@chevron.com
e-mail Address

5-19-08

2008 MAY 21 PM 12 42

RECEIVED



Carolyn Haynie
Petroleum Engineering
Technical Assistance

Permian Business Unit
Chevron MidContinent, L.P.
15 Smith Road
Midland, TX 79705
Tel 432-687-7261
Fax 432-687-7558
chay@chevron.com

May 19, 2008

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

**RE: APPLICATION FOR AUTHORIZATION
TO INJECT AS SWD - OCD FORM C-108
C.H. LOCKHART FEDERAL (NCT-1) WELL #8
LEA COUNTY, NEW MEXICO**

Chevron U.S.A., Inc. respectfully requests administrative approval to convert the C.H. Lockhart (NCT-1) #8, (API # 30-025-12131), to a Salt Water Disposal well. The Lockhart # 8 is located: 660' FSL & 660' FEL, Unit Letter P, Section 18, T22S, R38E, Lea County, New Mexico, and was previously an Injector in the Drinkard formation.

The injection interval will be in the San Andres and there is no production from this interval in the immediate area. The C.H. Lockhart Federal (NCT-1) #8 has been temporarily abandoned (TA'd), since in April 2004. The San Andres disposal injection interval will be perforated from 4925' - 4935', 4865' - 4875', 4780' - 4790', 4660' - 4670', 4480' - 4490', and 4340' - 4350', with 4 JSPF, 120 deg phasing, total of 240 holes.

Chevron is the operator, with 100% working interest. Attached is the OCD Form C-108 with information relative to the SWD injection of the referenced well. A notification letter was sent to applicable surface land owners and offset operators within the ½ mile radius, and is included in the attachments. Approval of this request will allow for further lease development and reduce the cost of hauling water.

For your convenience, I have enclosed an envelope with my return address, so that the decision for this application can be sent directly to me. If you require additional information or have any questions, please contact me by telephone at 452-687-7261, or by email at chay@chevron.com.

Sincerely,

A handwritten signature in cursive script that reads "Carolyn Haynie".

Carolyn Haynie
Chevron U.S.A. Inc.
Petroleum Engineering TA
New Mexico Area

Enclosure

cc: NMOCD - Hobbs District 2
Mike Howell
Danny Lovell

APPLICATION FOR AUTHORIZATION TO INJECT

RECEIVED

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

2008 JUL 21 PM 2 15

II. OPERATOR: CHEVRON U.S.A. INC.

ADDRESS: 15 SMITH ROAD; MIDLAND, TX 79705

CONTACT PARTY: CAROLYN HAYNIE PHONE: 432-687-7261

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

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

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

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

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected; AVG= 1000 BWPD, Max = 5,000 BWPD
2. Whether the system is open or closed; CLOSED
3. Proposed average and maximum injection pressure; Avg = 500 psi; Max = 868 psi
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, PADDOCK, BLINEBRY, TUBB, DRINKARD, & ABO
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. 4,800 gals 15% NEFE 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: Carolyn Haynie TITLE: Petroleum Engineering TA

SIGNATURE: Carolyn Haynie DATE: 7-15-08

E-MAIL ADDRESS: chay@chevron.com

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

INJECTION WELL DATA SHEET

OPERATOR: CHEVRON U.S.A. INC.WELL NAME & NUMBER: C.H. LOCKHART FEDERAL (NCT-1) # 8WELL LOCATION: 660' FSL & 660' FEL
FOOTAGE LOCATION

P

18

22S

38E

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8"
Cemented with: 550 sx. or ft³Top of Cement: SurfaceMethod Determined: CirculationIntermediate CasingHole Size: 12-1/4" Casing Size: 8-5/8"
Cemented with: 1200 sx. or ft³Top of Cement: SurfaceMethod Determined: CirculationProduction CasingHole Size: 7-7/8" Casing Size: 5-1/2"
Cemented with: 650 sx. or ft³Top of Cement: 3130'Method Determined: by TSTotal Depth: 7200'Injection Interval4340' feet to 4935'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2-7/8" Lining Material: IPC Tbg.Type of Packer: Nickel Plated LOC-SET Injection PackerPacker Setting Depth: 4250'Other Type of Tubing/Casing Seal (if applicable): NAAdditional Data1. Is this a new well drilled for injection? Yes X No If no, for what purpose was the well originally drilled? Oil Producer2. Name of the Injection Formation: San Andres; perforations 4340' - 4935'3. Name of Field or Pool (if applicable): NA4. 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. DRK Perfs at 6846' - 7158'; plugged w/CIBP @ 6751' and topped with 35' of Cmt5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Higher: Grayburg 3779' - Base = 4060' (TVD) - San AndresLower: Paddock 5202' - Base = 5600' T - Blinbry

WELL DATA SHEET

Location: 660' FSL & 660' FEL	Well Name: C. H. Lockhart Federal (NCT-1) #8	Lease Type: Federal
County: Lea	State: New Mexico	
Current Status: TA'd - Injector	Sec: 18-P	Township: 22S
	Refno: FB3080	Range: 38E
Current Formation(s): Drinkard/Abo Wl well	API: 30-025-12131	Cost Center: UCU41Z046

Surface Csq.

Size: 13 3/8"
 Wt.: 48#
 Set @: 398'
 Sxs cmt: 550
 Circ: Yes
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csq.

Size: 8 5/8"
 Wt.: 24#
 Set @: 2901'
 Sxs Cmt: 1200
 Circ: Yes
 TOC: Surface

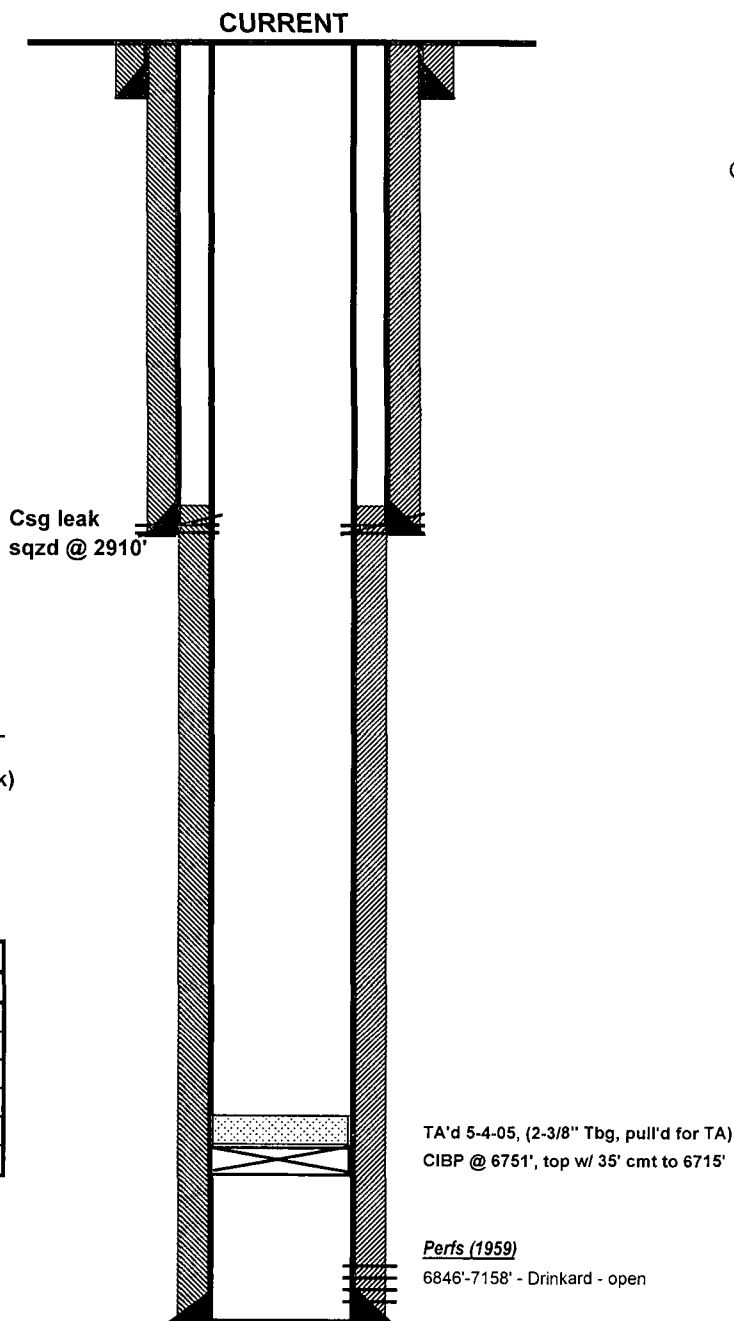
Production Csq.

Size: 5 1/2"
 Wt.: 4.7#
 Set @: 7200'
 Sxs Cmt: 650
 Circ: No
 TOC: *3130' by TS
 (*TOC may have changed since they sqzd the csg leak)

Top Salt	1468'
Base Salt	2335'
Top Yates	2616'
Top San Andres	4008'
Top Glorieta	5202'
Top Blinbry	5640'
Top Tubb	6193'
Top Drinkard	6470'

PBTD: 7190'
 TD: 7200'

Updated by: C J Haynie
 Date: 4/29/2008



KB: 3382'
 DF: 3381'
 GL: 3370'
 Spud Date: 5/15/1959
 Compl. Date: 6/7/1959

WELL DATA SHEET

Location: 660' FSL & 660' FEL
 County: Lea State: New Mexico
 Proposed Status: SWD
 Disposal Formation: San Andres

Well Name: C. H. Lockhart Federal (NCT-1) #8
 Sec: 18-P Township: 22S
 Chevno FB3080 API: 30-025-12131

Lease Type: Federal
 Range: 38E
 Cost Center: UCU41Z046

Surface Csg.

Size: 13 3/8"
 Wt.: 48#
 Set @: 398'
 Sxs cmt: 550
 Circ: Yes
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csg.

Size: 8 5/8"
 Wt.: 24#
 Set @: 2901'
 Sxs Cmt: 1200
 Circ: Yes
 TOC: Surface
 Hole Size: 12-1/4"

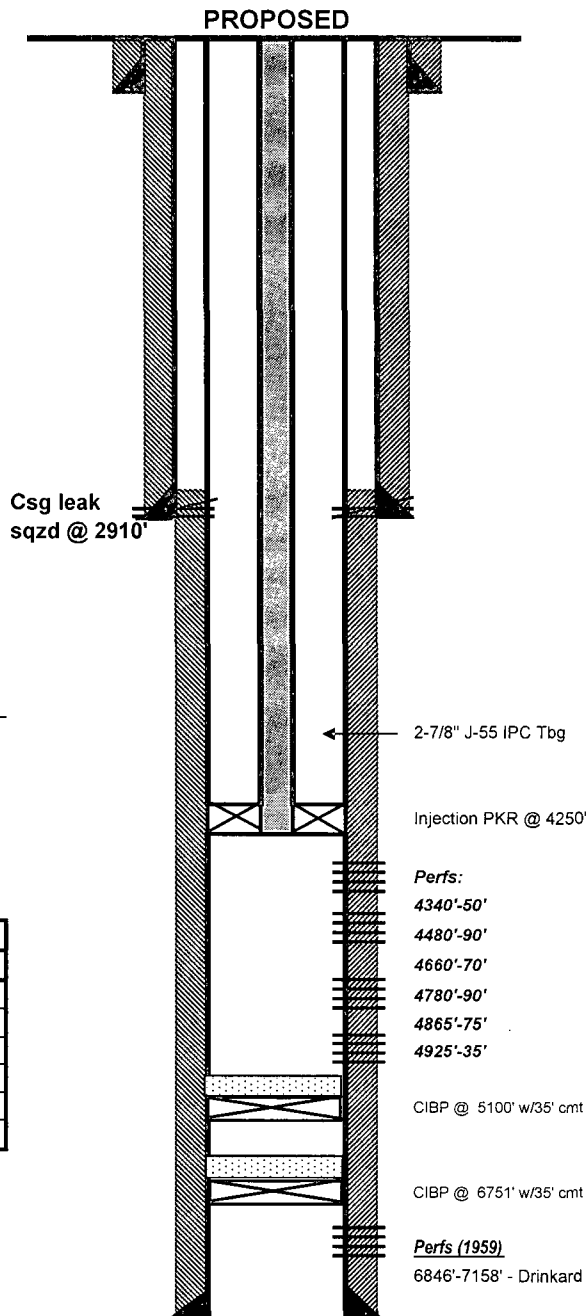
Production Csg.

Size: 5 1/2"
 Wt.: 4.7#
 Set @: 7200'
 Sxs Cmt: 650
 Circ: No
 TOC: *3130' by TS
 (*TOC may have changed
 since they sqzd the csg leak)
 Hole Size: 7-7/8"

Top Salt	1468'
Base Salt	2335'
Top Yates	2616'
Top San Andres	4008'
Top Glorieta	5202'
Top Blinebry	5640'
Top Tubb	6193'
Top Drinkard	6470'

PBTD: 6716'
 TD: 7200'

Updated by: C J Haynie
 Date: 7/15/2008



KB: 3382'
 DF: 3381'
 GL: 3370'
 Spud Date: 5/15/1959
 Compl. Date: 6/7/1959

Perfs: Status:
 4340'-50' San Andres - Open
 4480'-90' San Andres - Open
 4660'-70' San Andres - Open
 4780'-90' San Andres - Open
 4865'-75' San Andres - Open
 4925'-35' San Andres - Open

CIBP @ 5100' w/35' cmt on top (5065')

CIBP @ 6751' w/35' cmt on top (6716')

Perfs (1959)
 6846'-7158' - Drinkard - below CIBP

C.H. Lockhart Federal NCT-1 # 8
San Andres
T22S, R38E, Section 18
Job: Convert to SWD

Completion Procedure:

1. *This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 4/1/2008. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.*
2. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. Buried fiberglass lines will be tested with 300 psi. All polypipe (SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report. Disconnect flowline at wellhead and at battery and tag out of service.
3. MI & RU workover rig. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. Remove WH. Install BOP's and test as required.
4. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH with gauge ring and junk basket (for 5-1/2" 14# csg) to PBTD @ 6716'. POH.
5. GIH with 3-3/8" Predator guns and perforate the following interval with 4 JSPF at 120 degree phasing using 23 gram premium charges:

Top Perf	Bottom Perf	Net Feet	SPF	# Holes
4925	4935	10	4	40
4865	4875	10	4	40
4780	4790	10	4	40
4660	4670	10	4	40
4480	4490	10	4	40
4340	4350	10	4	40
Total				240

Note: Use Welex Radioactive log Dated 6-7-1959 for depth correction

6. POH. RD & release WL.

7. RIH w/5-1/2" PPI packer w/SCV & 12' element spacing on 2-7/8 workstring. Test PPI packer in blank pipe. Mark settings.
8. MI & RU DS Services. Acidize perms 4340-4935' with 4,800 gals 15% NEFE HCl acid* at a maximum rate of 1/2 BPM and a maximum surface pressure of 3500 psi as follows:

Perf Interval	Net Feet	Acid Volume	Rate	PPI Setting
4925-4935	10	800	1	4924-36'
4865-4875	10	800	1	4864-76'
4780-4790	10	800	1	4779-91'
4660-4670	10	800	1	4659-71'
4480-4490	10	800	1	4479-91'
4340-4350	10	800	1	4339-51'
Total	60	4800		

Displace acid with 8.6 PPG cut brine water -- do not over displace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services.

* Acid system to contain:

1 GPT A264	Corrosion Inhibitor
8 GPT L63	Iron Control Agents
2 PPT A179	Iron Control Aid
20 GPT U66	Mutual Solvent
2 GPT W53	Non-Emulsifier

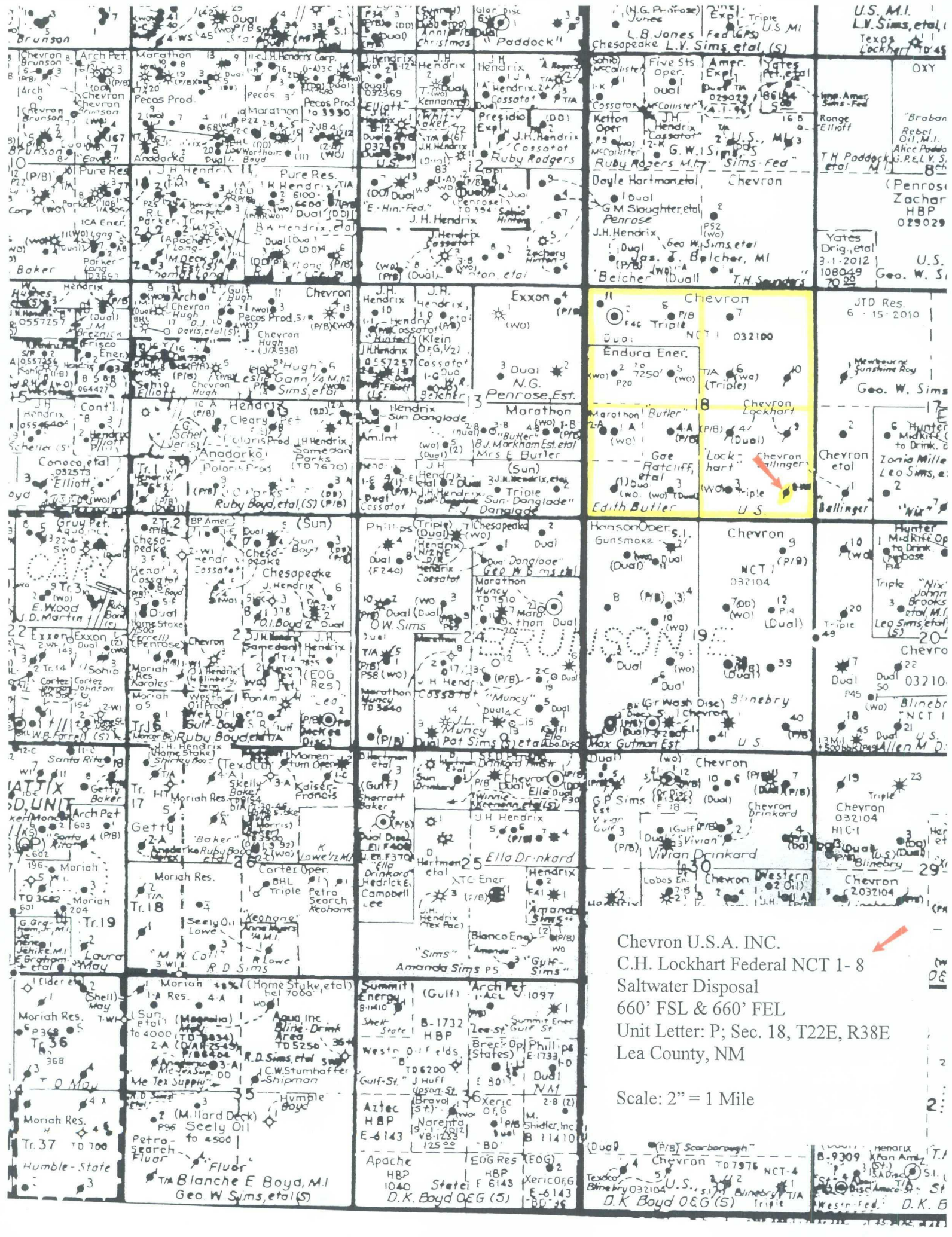
9. Release PPI & PU to approximately 3600'. Set pkr @ 4250'. Fish SCV & SV. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered volumes, pressures, and/or swabbing fluid levels.
10. Open Well. Pump down tbg with reverse unit and establish injection rate into perms at 3 BPM using 200 bbls 8.6 ppg cut brine water. Release PPI pkr. POH w/tbg and PPI pkr. LD PPI tool.
11. TIH w/new 5-1/2" nickel plated injection packer, with on-off tool w/1.78" profile nipple, and 135 jts 2-3/8" J-55 IPC tbg to 4250', testing to 5000 psi. Displace tbg-csg annulus with corrosion inhibited pkr fluid. Set PKR @ 4250'.
12. Pressure test csg and pkr to 500 psi. Pump down tbg with 8.6 ppg cut brine water to confirm injectivity. Remove BOP's and install WH. RD & release Key PU & RU.
13. Notify OCD and perform MIT test. Pressure test 5 1/2" csg and pkr to 500 psi and record chart for NMOCD.

14. Turn well over to production. Report injection rates and pressures.

Engineer- Lonnie Grohman

432-687-7420 – Office

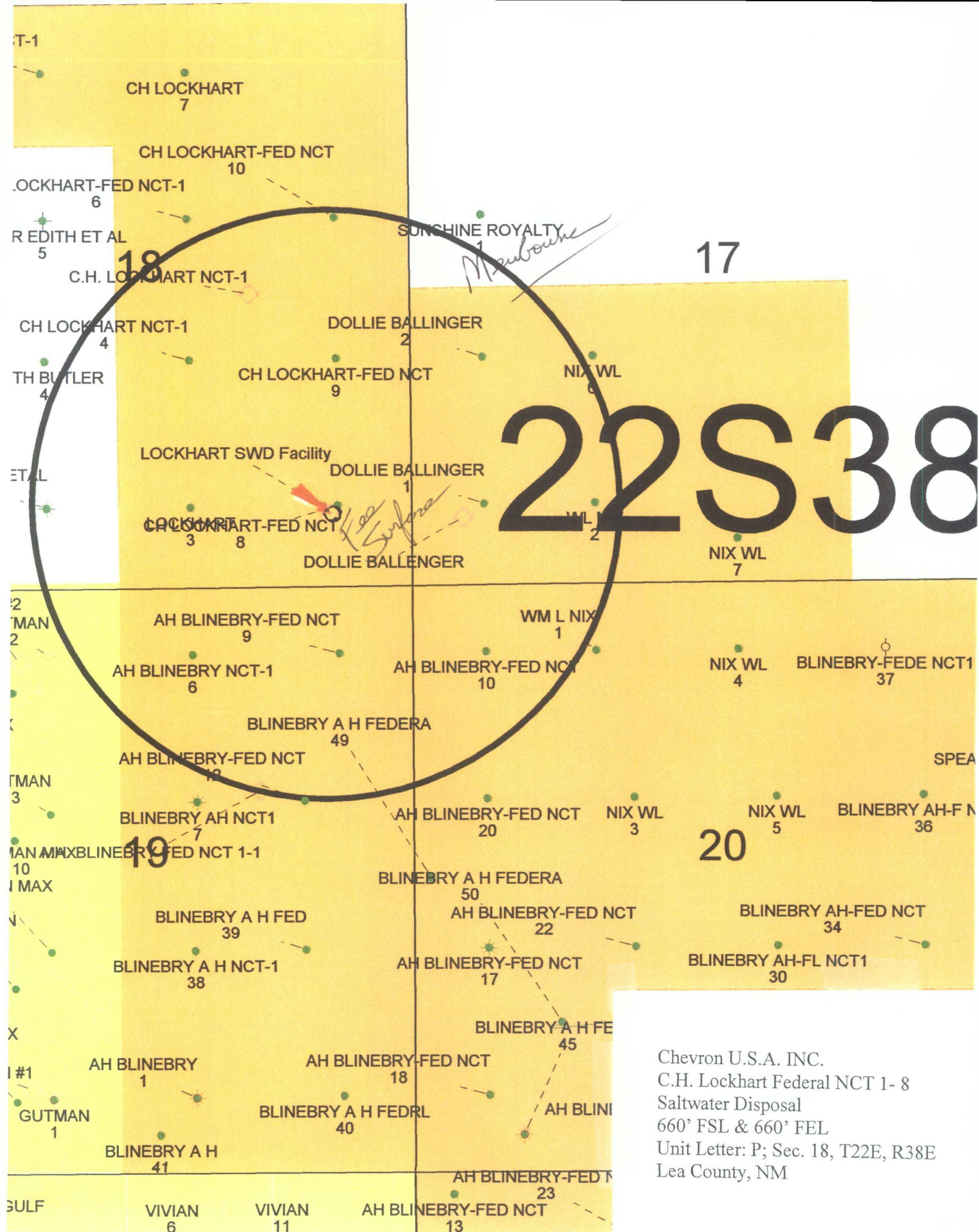
432-238-9233 – Cell



Chevron U.S.A. INC.
C.H. Lockhart Federal NCT 1-8
Saltwater Disposal
660' FSL & 660' FEL
Unit Letter: P; Sec. 18, T22E, R38E
Lea County, NM

Scale: 2" = 1 Mile

Map of Lea County, NM, showing oil and gas fields, leases, and ownership. The map is divided into numerous small sections, each containing detailed information about the land, including owner names (e.g., Chevron, Exxon, Phillips, Marathon, Conoco, etc.), lease numbers, and acreage. A scale bar indicates 2 inches equals 1 mile. A red arrow points to a specific location on the map, labeled 'Chevron U.S.A. INC. C.H. Lockhart Federal NCT 1-8 Saltwater Disposal 660' FSL & 660' FEL Unit Letter: P; Sec. 18, T22E, R38E Lea County, NM'. The map also includes a legend for various symbols and a list of owners in the bottom right corner.



Chevron U.S.A. INC.
C.H. Lockhart Federal NCT 1- 8
Saltwater Disposal
660' FSL & 660' FEL
Unit Letter: P; Sec. 18, T22E, R38E
Lea County, NM

Wells within 1/2 mile of C.H Lockhart Federal NCT 1 # 8												
Commingled Well Information												
WB	Well	API	Status	Field	Pool	Unit Letter	Sec	Location	Twship	Rng	Co	Operator
X	C.H. Lockhart Fed NCT 1- 3	30-025-12126	PR	Blinebry O&G	DHC R-4659	O	18	659' FSL & 1975' FEL	22S	38E	Lea	Chevron ✓
X	C.H. Lockhart Fed NCT-1- 4	30-025-12127	HA	Paddock	49210	J	18	1978' FSL & 1975' FEL	22S	38E	Lea	Chevron ✓
X	C.H. Lockhart Fed NCT 1- 8	30-025-12131	TA'd Injector No Current Production	S. Brunson DRK-ABO	07900	P	18	660' FSL & 660' FEL	22S	38E	Lea	Chevron ✓
X	C.H. Lockhart Fed NCT-1- 9	30-025-12132		S. Brunson DRK-ABO	07900	I	18	1980' FSL & 660' FEL	22S	38E	Lea	Chevron ✓
X	C.H. Lockhart Fed NCT 1- 10	30-025-21104	P&A	S. Brunson DRK-ABO	07900	H	18	1980' FNL & 660' FEL	22S	38E	Lea	Texaco ✓
X	Dollie Ballinger # 1	30-025-12118	P&A	S. Brunson DRK-ABO	07900	M	17	660' FSL & 660' FWL	22S	38E	Lea	Chevron ✓
X	Dollie Ballinger # 2	30-025-20919	P&A	S. Brunson DRK-ABO	07900	L	17	1980' FSL & 660' FWL	22S	38E	Lea	Chevron ✓
X	W L Nix # 2	30-025-21105	PR	S. Brunson DRK-ABO	07900	N	17	660' FSL & 1650' FWL	22S	38E	Lea	ETL Hydrocarbons Inc. ✓
X	A H Blinebry- Fed NCT 1 # 6	30-025-12137	PR	S. Brunson DRK-ABO	07900	B	19	660' FNL & 1974' FEL	22S	38E	Lea	Chevron ✓
X	A H Blinebry- Fed NCT 1 # 9	30-025-12139	PR	S. Brunson DRK-ABO	07900	A	19	660' FNL & 660' FEL	22S	38E	Lea	Chevron ✓
X	A H Blinebry- Fed NCT 1 # 10	30-025-12142	ZA	East Brunson San Andres	8050	D	20	660' FNL & 660' FWL	22S	38E	Lea	Texaco ✓
X	A H Blinebry- Fed NCT 1 # 12	30-025-12140	PR	Tubb Oil & Gas	60240	H	19	1980' FNL & 989' FEL	22S	38E	Lea	Chevron ✓
X	Edith Butler ETAL # 3	30-025-12121	PR	Blinebry O&G	06660	N	18	660' FSL & 1980' FWL	22S	38E	Lea	Endura Energy LLC ✓

WELL DATA SHEET

Location: 659' FSL & 1975' FEL Well Name: C. H. Lockhart Federal (NCT-1) # 3 Lease Type: Federal
 County: Lea State: New Mexico Sec: 18-O Township: 22S Range: 38E
 Current Status: Producer Chevno: FB3076 API: 30-025-12126 Cost Center: UCU41Z046
 Current Producing Formation(s): DHC - R-4659; Paddock/Blaine/Tubb

Surface Csg.

Size: 13 3/8"
 Wt.: 48# H-40
 Set @: 391'
 Sxs cmt: 475 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csg.

Size: 8 5/8"
 Wt.: 32# J-55
 Set @: 2820'
 Sxs Cmt: 2200 sxs
 Circ: Yes
 TOC: Surface

Production Csg.

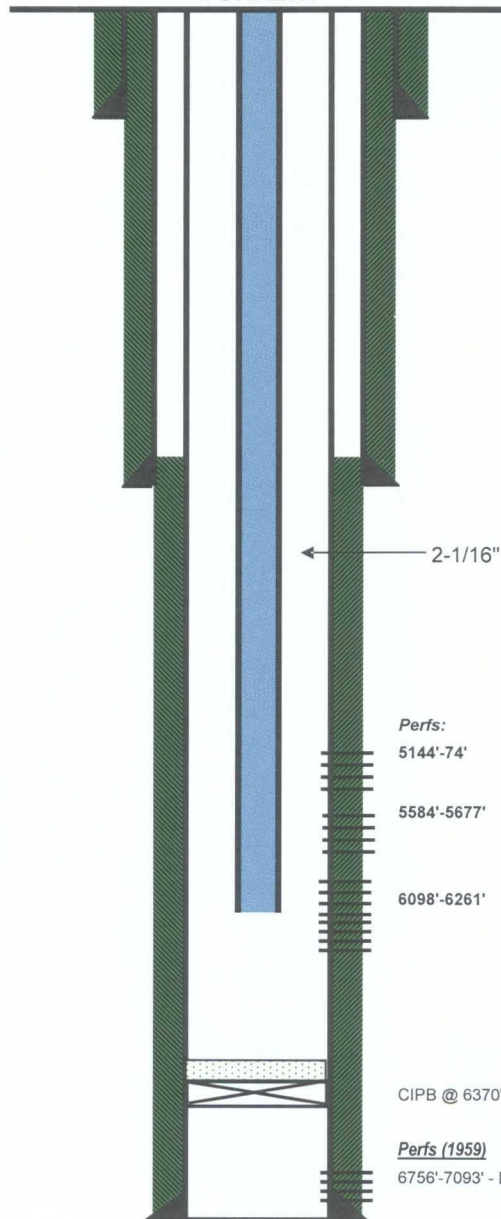
Size: 5 1/2"
 Wt.: 4.7#
 Set @: 7125'
 Sxs Cmt: 550 sxs
 Circ: No
 TOC: 3340' by TS

Top of Salt	1450'
Base of Salt	2450'
Top of Yates	2550'
Top of San Andres	3980'
Top of Glorieta	5120'
Top of Blaine	
Top of Tubb	6020'
Top of Drinkard	

PBTD: 6360'
 TD: 7125'

Prepared by: C J Haynie
 Date: 4/1/2008

CURRENT



KB: _____
 DF: 3371'
 GL: _____
 Spud Date: 5/2/1953
 Compl. Date: 7/2/1953

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

Perfs: Status
 5144'-74' (60 holes) Paddock - Open
 5584'-5677' (8 holes) Blaine - Open
 6098'-6261' (68 holes) Tubb - Open

CIPB @ 6370', top w/10' Hydromite

Perfs (1959)
 6756'-7093' - Drinkard - TA'd below CIPB

CURRENT WELL DATA SHEET

Field: Paddock
 Location: 1978' FSL & 1975' FEL
 County: Lea State: New Mexico
 Current Status: PR
 Current Producing Formation(s): Paddock
 Initial Field/Formation(s): Drinkard - single string

Well Name: C. H. Lockhart Federal (NCT-1) #4
 Sec: 18-FJ Township: 22S
 Refno: FB3077 API: 30-025-12127

Lease Type: Federal
 Range: 38E
 Cost Center: UCU41Z046
 Type of well: Oil well

KB: _____
 DF: 3359'
 GL: _____

Spud Date: 6/15/1953
 Compl. Date: 7/20/1953

Surface Csg.

Size: 13 3/8"
 Wt.: 48#
 Set @: 388'
 Sxs cmt: 400
 Circ: Yes
 TOC: Surface

Intermediate Csg.

Size: 8 5/8"
 Wt.: 24#
 Set @: 2830'
 Sxs Cmt: 1700
 Circ: Yes
 TOC: Surface

Production Csg.

Size: 5 1/2"
 Wt.: 15.5#
 Set @: 7130'
 Sxs Cmt: 650
 Circ: No
 TOC: 3060' by TS

Tubing Detail

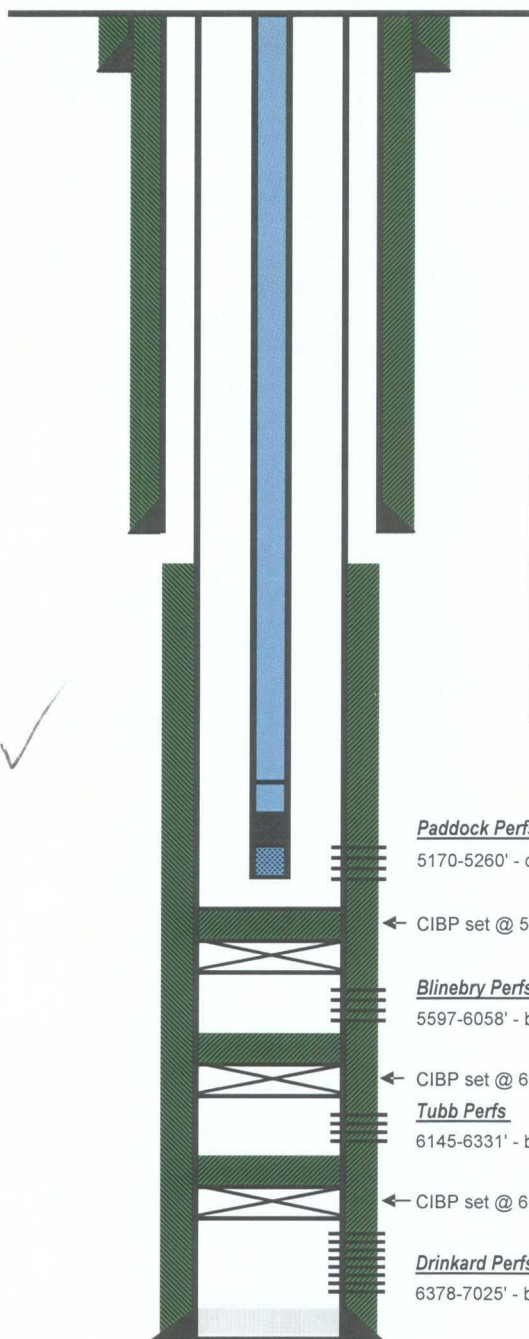
8/13/2001

# Jts.	Size	Footage
	Original KB to Tubing Head Flange	8.50
156	2 3/8 4.7# 8rd J55	5,105.00
	5 1/2 X 2 3/8 TAC	3.00
11	2 3/8 4.7# 8rd J55	355.00
	SN	1.10
	3 1/2 MA	30.45
167	EOT >>>	5,503.05

Rod Detail

8/13/2001

# Rods	Size	Footage
1	1 1/4 Polish Rod	22.00
	7/8" Pony Rods Grade D	10.00
99	7/8" Sucker Rods Grade D	2,475.00
110	3/4" Sucker Rods Grade D	2,750.00
8	1 1/2 Sinker Bars	200.00
	Insert Pump (20-150-HHBC-16-4)	
	Gas Anchor 1" X 6'	
218	Total	5,457.00



Paddock Perfs

5170-5260' - open

← CIBP set @ 5550' w/35' cmt on top

Blinbry Perfs

5597-6058' - below CIBP

← CIBP set @ 6120' w/35' cmt on top

Tubb Perfs

6145-6331' - below CIBP

← CIBP set @ 6358' w/35' cmt on top

Drinkard Perfs

6378-7025' - below CIBP

PBTD: 5515'
 TD: 7150'

Remarks: See the well history and failure history attached

pared by: K M Jackson
 Date: 3/2/2004

CURRENT WELL DATA SHEET

Field: Blinebry Oil & Gas Well Name: C. H. Lockhart Fed (NCT-1) #9
 Location: 1980' FSL & 660' FEL Sec: 18 Township: 22S
 County: Lea State: New Mexico Refno: FB3081 API: 30-025-12132
 Current Status: SI
 Current Producing Formation(s): Drinkard

Lease Type: Federal
 Range: 38E
 Cost Center: UCU464100
 Working Int. 100%

Surface Csq.

Size: 13 3/8"
 Wt.: 48#
 Set @: 390'
 Sxs cmt: 500
 Circ: Yes
 TOC: Surface
 Hole Size: 17 1/2"

Intermediate Csq.

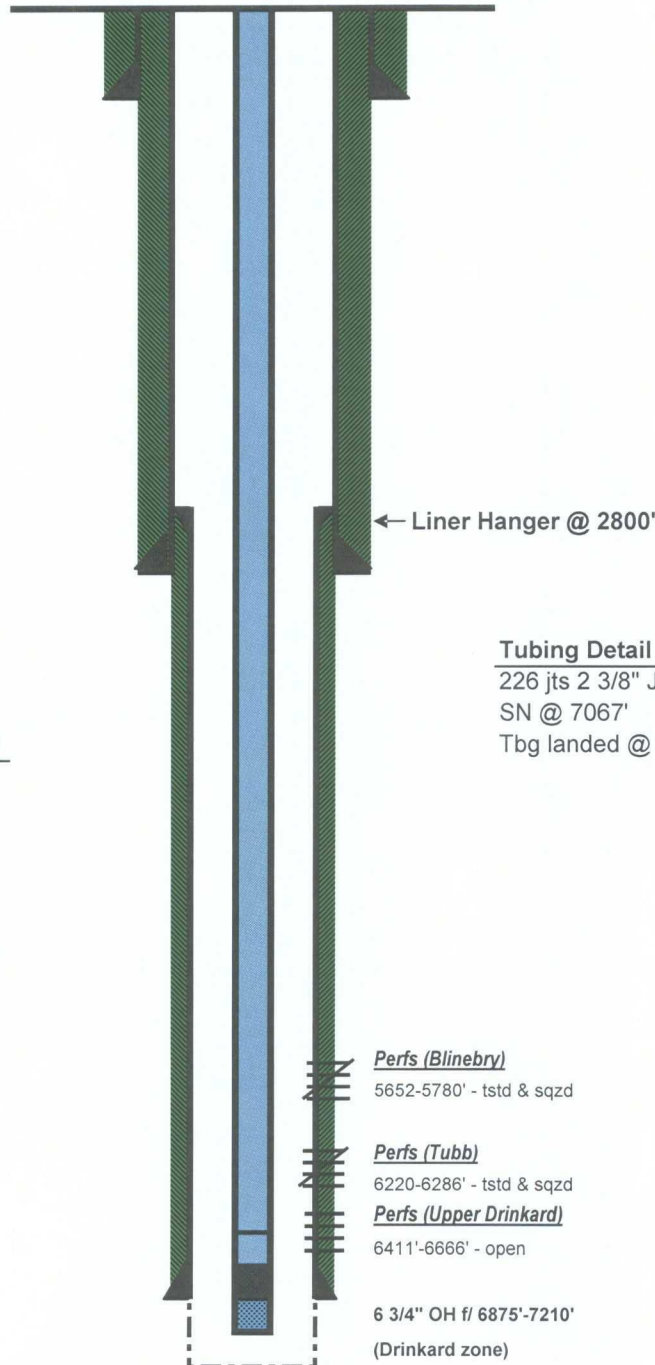
Size: 9 5/8"
 Wt.: 36#
 Set @: 2925'
 Sxs Cmt: 2000
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

Production Liner

Size: 7"
 Wt.: 23#
 Set @: 6875'
 Sxs Cmt: 600
 Circ: Sqz top & btm of liner
 TOC: 2800'
 Hole Size: 8 3/4"

Top Salt	1479'
Base Salt	2402'
Top Yates	2650'
Top San Andres	4100'
Top Glorieta	5225'
Top Blinebry	5640'
Top Tubb	6225'
Top Drinkard	6860'

PBTD: _____
 TD: 7210'



KB: 3378'
 DF: 3377'
 GL: 3368'
 Compl. Date: 3/24/1961

Tubing Detail (1976)

226 jts 2 3/8" J55 tbg
 SN @ 7067'
 Tbg landed @ 7102'

Perfs (Blinebry)

5652-5780' - tstd & sqzd

Perfs (Tubb)

6220-6286' - tstd & sqzd

Perfs (Upper Drinkard)

6411'-6666' - open

Prepared by: K M Jackson
 Date: 7/11/2003

WELL DATA SHEET

Location: 1980' FNL & 660' FEL
 County: Lea State: New Mexico
 Current Status: Producer
 Current Producing Formation(s):

Well Name: C. H. Lockhart Federal (NCT-1) # 10
 Sec: 18-H Township: 22S
 Chevno: FB4571 API: 30-025-21104
 Drinkard Formation

Lease Type: Federal
 Range: 38E
 Cost Center: UCU41Z046

Surface Csg.

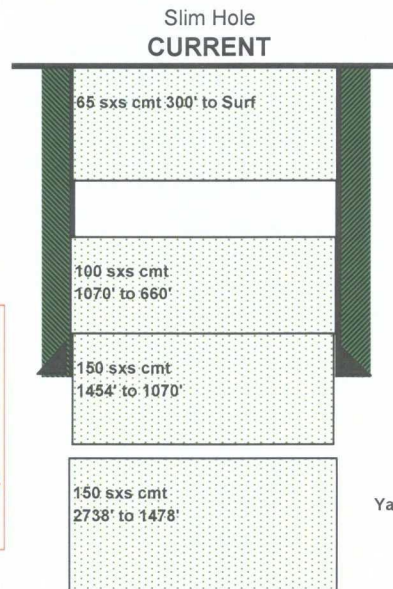
Size: 7-5/8"
 Wt.: 24# H-40
 Set @: 1350'
 Sxs cmt: 600 sxs
 Circ:
 TOC: Surf
 Hole Size: 9-7/8"

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

Production Csg.

Size: 2-7/8"
 Wt.: 6.5# J-55
 Set @: 7245'
 Sxs Cmt: 800 sxs
 Circ: Yes
 TOC: Surf
 Hole Size: 6-3/4"

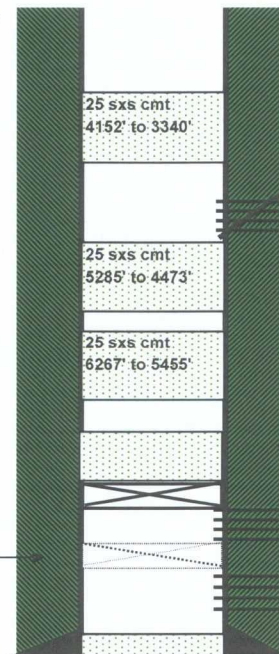
Top of Salt	1414'
Base of Salt	2510'
Top of Yates	2705'
Top of San Andres	4102'
Top of Glorieta	5285'
Top of Blinbry	5705'
Top of Tubb	6267'
Top of Drinkard	6598'



KB: _____
 DF: 3376'
 GL: 3366'
 Spud Date: 8/7/1964
 Compl. Date: 9/11/1964

Yates Formation

Cut & Pull 2-7/8" @ 2739' for Salvage



San Andres Formation

Perf & Sqz 4 holes @ 4102'

Glorieta Formation

Tubb Formation

CIBP @ 6436' W/35' CMT

Perfs: 6514'-6710' Status: Below CIBP

6981'-7130' Status: Below CIBP & RBP

RBP @ 6775' for TA'd well

PBTD: 7236'
 TD: 7250'

Prepared by: C J Haynie
 Date: 4/8/2008

Well: **Dollie Ballinger # 1**

Pool Name: Brunson, DRK-ABO, S.

Reservoir: Blinebry/DRK

Location:

660' FSL & 660' FWL
 Unit Letter: M
 Section: 17
 Township: 22S
 Range: 38E
 County: Lea State: NM

Elevations:

GL:

KB:

DF: 3376'

Top of Salt	2495'
Top of Yates	2620'
Top of San Andres	4050'
Top of Glorieta	5190'
Top of Blinebry	5550'
Top of Tubb	6150'
Top of Drinkard	6800'
Top of Abo	

Current
Wellbore Diagram

P&A'd
 10/7/2002

115 sxs cmt
 400' to Surf

75 sxs plug
 1500' to 1260'

75 sxs plug
 2550' to 2263'

45 sxs plug
 3000' - 2589'

25 sx plug
 4000' - 3800'

25 sx Plug
 5660' - 5436'

Well ID Info:

API No: 30-025-12118
 Spud Date: 1-23-59
 TD Date: 2-19-59
 Compl. Date: 6-9-77
 Operator: Chevron

Surf. Csg: 13-3/8" 48#
 Set: @ 410' w/500 sxs cmt
 Hole Size: 17-1/2"
 Circ: Yes TOC: Surface

Intermediate Csg: 8-5/8" 32#
 Set: @ 2859' w/1250 sxs cmt
 Hole Size: 11"
 Circ: Yes TOC: Surface

Queen Formation

CIBP @ 5660'

Perfs: Status:
 Blinebry/DRK w/1 JSPF Closed

5718' 5905'

Blinebry & Drk DHC

Drinkard
 6800' - 7158'

Prod. Csg: 5-1/2" 17#
 Set: 7200' @ w/750 sxs cmt
 Hole Size: 7-7/8"
 Circ: No TOC: 2620'Surface

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

PBTD: 7192'
 TD: 7200'

Updated: 4-15-08

By: C. J. Haynie

WELL DATA SHEET

WELL: 2 LEASE: DOLLIE BALLENGER FORMATION: DRINKARD FIELD: S. BRUNSON
LOCATION: 1980' FSL 660' FWL SECTION: 17 TOWNSHIP: 22S RANGE: 38E LOT: L
COUNTY: LEA STATE: NEW MEXICO API: 30-025-20919 REFNO: FB4392 STATUS: P&A
P&A'd 5-22-07

Spud Date: 7/17/64
Released Rig: 8/10/64
Completed: 8/17/64

GL: 3366'
KB:
DF: 3377'

SURFACE CASING

7-5/8" 24# H-40 csg
Csg set @ 1350'
cmdt w/ 750 sx Class "C" cmt
Circ? Yes, to surface
11" hole

Top Salt 1430' →

← TOC @ 1871' (by calc)

Base Salt 2450' →

Perf @ 150',
Spot 40 sx cmt
to Surf.

Spot 150 sx cmt
plug f/1530'-
1020'

Spot 130 sx cmt
plug f/6675'-
1540'

Spot '2' 25 sx
cmt plugs f/6975'-
6675'

Tubing Detail from AFE dated 3/20/87
221 jts - 2-1/16", 3.25#, J-55 10rd IJ tbhg
1-1/2" x 1-1/4" x 16' RWBC pump
(AFE did not include landing details
for the tubing)

PRODUCTION CASING

2-7/8" 6.5# J-55 csg
Csg set @ 7200'
cmdt w/ 800 sx Class "C" cmt
Circ? No, TOC calc @ 1871'
6-3/4" hole

Perfs 2 JHPF:

7014', 7018', 7029', 7035'
7039', 7047', 7055', 7073'
7081', 7141', 7153', 7157'
7167', 7173' and 7182'

} Drinkard - open

PBTD @ 7188'
TD @ 7200'

Description of junk in hole:

Well: **W. L. Nix # 2**

Field: S. Brunson, DRK-ABO

Reservoir: DRK-ABO

Location:

660' FSL & 1650' FWL
 Unit Letter: N
 Section: 17
 Township: 22S
 Range: 38E
 County: Lea State: NM

Elevations:

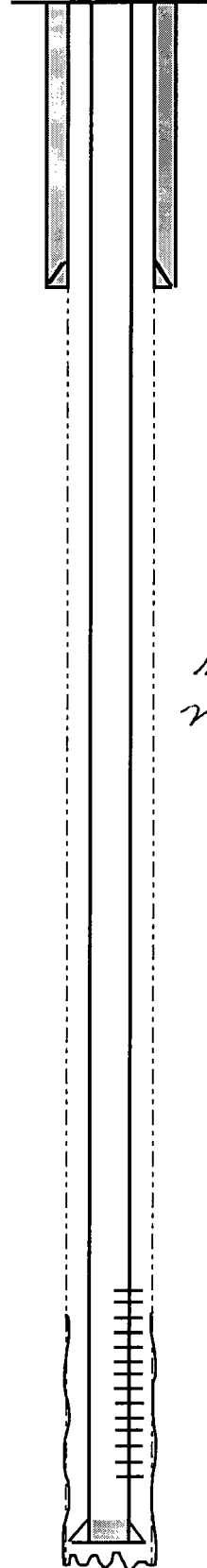
GL:

KB: 3385'

DF:

Top of Salt	1450'
Base of Salt	2547'
Top of Yates	2733'
Top of San Andres	4146'
Top of Glorieta	5360'
Top of Blinberry	5788'
Top of Tubb	6347'
Top of Drinkard	6680'

Current
Wellbore Diagram

**Well ID Info:**

API No: 30-025-12143
 Spud Date: 12-16-64
 TD Date: 1-8-65
 Compl. Date: 1-17-65
 Operator: ETL Hydrocarbons Inc.

Single Tubeless Completion

Surf. Csg: 7-5/8" 15.28# Csg
 Set: @ 1354' w/ 650 sxs cmt
 Hole Size: 11"
 Circ: Yes TOC: Surface

*2740 Top of case
 Based on
 C.A. Lockard Fed #10*

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

Perfs:

Drinkard w/1 JSPF
 7000', 7003', 7005'
 7021', 7023', 7035'
 7049', 7057', 7067',
 7088', 7103', 7111',
 7117', 7128', 7136'
 7150', 7172', 7178',
 7181', 7183', 7190'

Status:

6950'-7190'

Prod. Csg: 2-7/8" 6.5# Csg
 Set: 7215' @ w/800 sxs cmt
 Hole Size: 6-3/4"
 Circ: yes TOC: Surface

PBTD: 7198'
 TD: 7220'

Updated: 4-14-08

By: C. J. Haynie

WELL DATA SHEET

Location: 660' FNL & 1974' FEL Well Name: A H Blinebry - Fed NCT 1 # 6 Lease Type: Federal
 County: Lea State: New Mexico Sec: 19-B Township: 22S Range: 38E
 Current Status: Producer Chevno: FB3085 API: 30-025-12137 Cost Center:
 Current Producing Formation(s): DHC - 692; DKR/Blinebry Pool: 0660 & 07900

Surface Csg.

Size: 13 3/8"
 Wt.: 48# H-40
 Set @: 403'
 Sxs cmt: 475 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csg.

Size: 8 5/8"
 Wt.: 28# H-40
 Set @: 2920'
 Sxs Cmt: 1800 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 11"

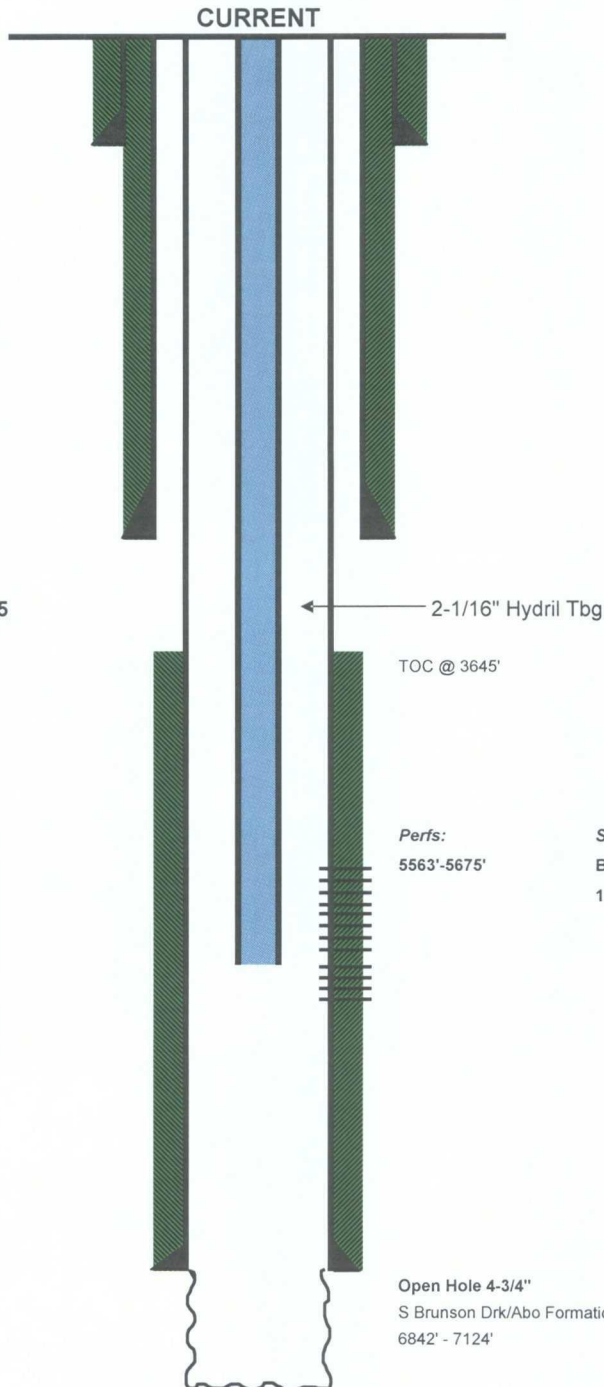
Production Csg.

Size: 5 1/2"
 Wt.: 17, 15.5, & 14# J-55
 Set @: 6842'
 Sxs Cmt: 500 sxs
 Circ: No
 TOC: 3645' by Calc.
 Hole Size: 7-7/8"

Top of Salt	1450'
Base of Salt	2450'
Top of Yates	2550'
Top of San Andres	3980'
Top of Glorieta	5120'
Top of Blinebry	
Top of Tubb	6020'
Top of Drinkard	

TD: 7124'

Prepared by: C J Haynie
 Date: 4/21/2008



KB:
 DF: 3370'
 GL: 3362'
 Spud Date: 12/9/1953
 Compl. Date: 1/20/1954

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

Status
 Blinebry - Open
 1 JSPF, every 3'



WELL DATA SHEET

Location: 660' FNL & 660' FEL Well Name: A H Blinebry - Fed NCT 1 # 9 Lease Type: Federal
 County: Lea State: New Mexico Sec: 19-A Township: 22S Range: 38E
 Current Status: Producer Chevno: FB3086 API: 30-025-12139 Cost Center:
 Current Producing Formation(s): Paddock Pool: 49210

Surface Csg.

Size: 13 3/8"
 Wt.: 48# H-40
 Set @: 416'
 Sxs cmt: 500 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csg.

Size: 8 5/8"
 Wt.: 24# H-40
 Set @: 2885'
 Sxs Cmt: 1000 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 11"

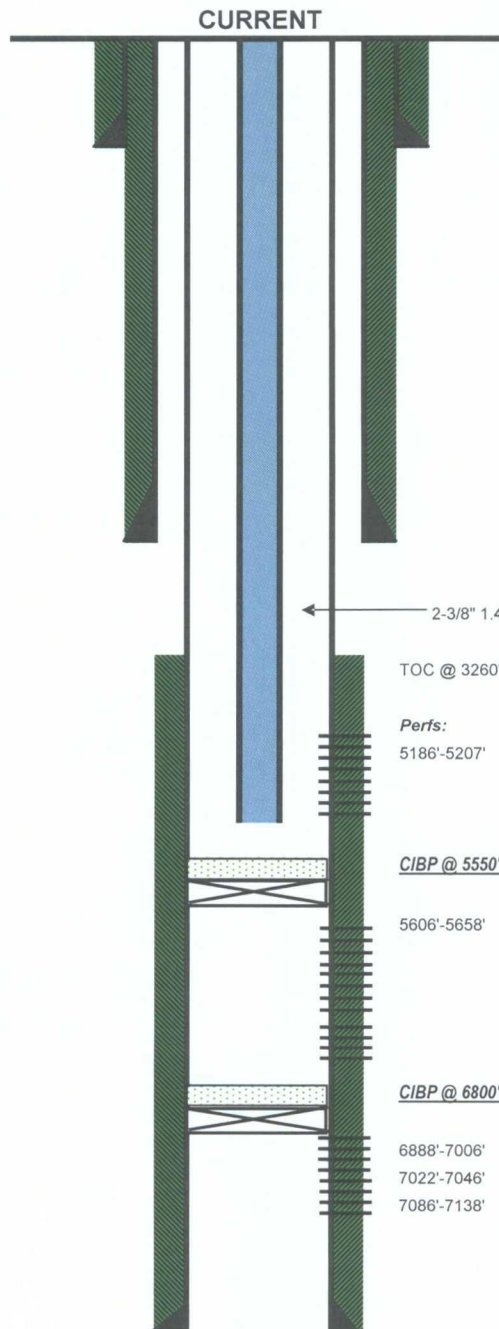
Production Csg.

Size: 5 1/2"
 Wt.: 16# J-55
 Set @: 7200'
 Sxs Cmt: 650 sxs
 Circ: No
 TOC: 3260' by Calc.
 Hole Size: 7-7/8"

Top of Salt	
Base of Salt	
Top of Yates	2610'
Top of San Andres	4040'
Top of Glorieta	5200'
Top of Blinebry	5630'
Top of Tubb	6170'
Top of Drinkard	6500'

TD: 5515'
 7200'

Prepared by: C J Haynie
 Date: 4/22/2008



KB:
 DF: 3384'
 GL: 3370'
 Spud Date: 4/16/1959
 Compl. Date: 5/11/1959

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

2-3/8" 1.4# J-55 Tbg @ 5305'

TOC @ 3260'

Perfs:

5186'-5207'

Status

Paddock - Open
 2 JSPF, 21', 42 shots

CIBP @ 5550' Top w/35' cmt

5606'-5658'

Blinebry -
 1 JSPF, 9 Holes
 Below CIBP @ 5550'

CIBP @ 6800' Top w/35' cmt

6888'-7006'

7022'-7046'

7086'-7138'

Drinkard Perfs
 Below CIBP @ 6800'

WELL DATA SHEET

Location: 660' FNL & 660' FWL
 County: Lea State: New Mexico
 Current Status: Abandoned -8-28-97
 Current Producing Formation(s): DRK

Well Name: A H Blinebry - Fed NCT 1 # 10
 Sec: 20-D Township: 22S
 Chevno: FB3086 API: 30-025-12142
 Pool:

Lease Type: Federal
 Range: 38E
 Cost Center:

Surface Csg.

Size: 13 3/8"
 Wt.: 48# H-40
 Set @: 400'
 Sxs cmt: 500 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csg.

Size: 8 5/8"
 Wt.: 32# H-40
 Set @: 2881'
 Sxs Cmt: 1010 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 11"

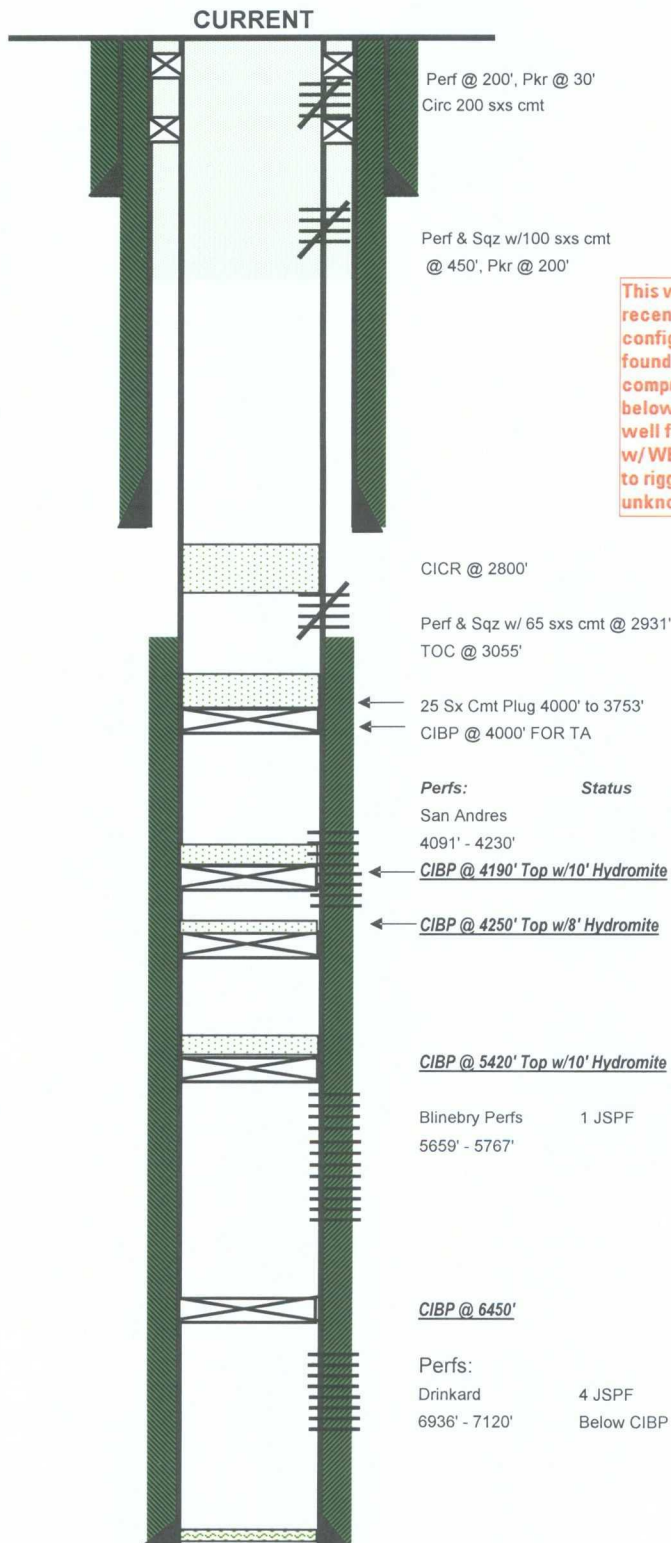
Production Csg.

Size: 5 1/2"
 Wt.: 14# J-55
 Set @: 7200'
 Sxs Cmt: 650 sxs
 Circ: No
 TOC: 3055' by Calc.
 Hole Size: 7-7/8"

Top of Salt	1519'
Base of Salt	2304'
Top of Yates	2664'
Top of San Andres	4100'
Top of Glorieta	5240'
Top of Blinebry	
Top of Tubb	6255'
Top of Drinkard	6617'

TD: 4640'
 7200'

Prepared by: C J Haynie
 Date: 4/22/2008



KB: _____
 DF: 3389'
 GL: 3376'
 Spud Date: 5/15/1959
 Compl. Date: 6/10/1959

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.



CURRENT WELL DATA SHEET

Field: Blinebry Oil & Gas
 Location: 1980' FNL & 989' FEL
 County: Lea State: New Mexico
 Current Status: Producer

Well Name: A H Blinebry Fed NCT 1 # 12
 Sec: 19 - H Township: 22S
 Refno: FB3087 API: 30-025-12140
 Current Producing Formation(s): Tubb

Lease Type: Federal
 Range: 38E
 Cost Center: _____

Surface Csg.

Size: 9 5/8"
 Wt.: 32# H-40
 Set @: 1299'
 Sxs cmt: 700 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

KB: _____
 DF: 3384'
 GL: _____

Spud Date: 8/3/1961
 Rig Re: 9/1/1961
 Compl. Date: 10/6/1961

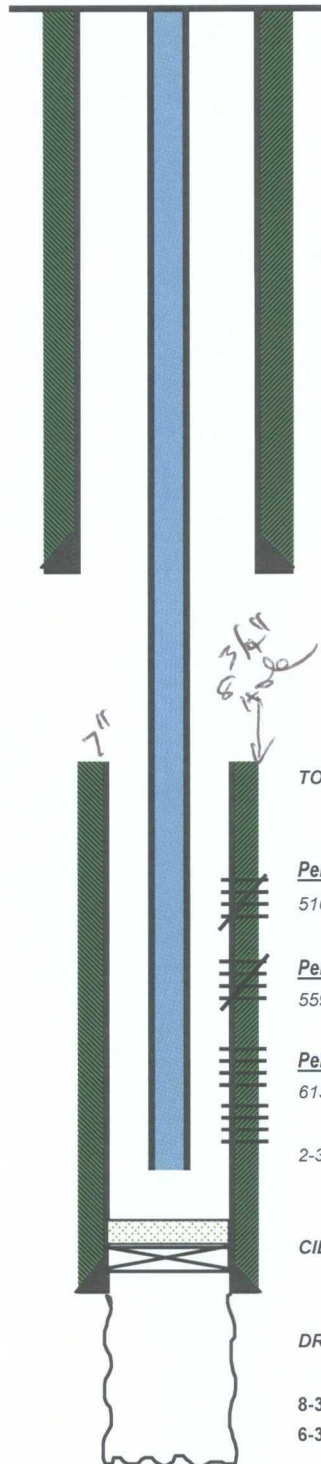
Production Csg

Size: 7"
 Wt.: 23# J-55
 Set @: 6850'
 Sxs Cmt: 400 sxs
 Circ: Sqz top & btm of liner
 TOC: 4360' by Calc
 Hole Size: 8 3/4"

Top Salt	1431'
Base Salt	2315'
Top Yates	2600'
Top San Andres	4028'
Top Glorieta	5168'
Top Blinebry	5590'
Top Tubb	6137'
Top Drinkard	6417'

PBTD: 6799'
 TD: 7200'

Prepared by: C.J. Haynie
 Date: 4/28/2008



TOC @ 4360'

Perfs (Paddock)

5168' - 5174'

1 JSPF, 3 holes
 Sqz w/450 sxs cmt

Perfs (Blinebry)

5591' - 5691'

Sqz w/350 sxs cmt

Perfs (Tubb)

6130' - 6258'

2 JSPF, 176 holes

2-3/8" Tbg @6308' (8-14-96)

CIBP @ 6835', Top'd w/35' cmt

DRK - OH 6850' - 7200'

8-3/4" OH 6850' to 7004'

6-3/4" OH 7004' to 7200'

Calc or 4100' 80 1.32 CF/SK

WELL DATA SHEET

Location: 660' FSL & 1980' FWL
 County: Lea State: New Mexico
 Current Status: Producer
 Current Producing Formation(s): DHC -2076; Blinebry/TUBB/DRK-ABO

Well Name: Edith Butler # 3
 Sec: 18-N Township: 22S
 Chevno: FB3085 API: 30-025-12121
 Pools: 6660/8644/7900

Lease Type: 38E
 Range: 38E
 Operator: Endura Energy LLC

Surface Csg.

Size: 13 3/8"
 Wt.: 48#
 Set @: 146'
 Sxs cmt: 150 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csg.

Size: 8 5/8"
 Wt.: 28#
 Set @: 2798'
 Sxs Cmt: 750 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 11"

Production Csg.

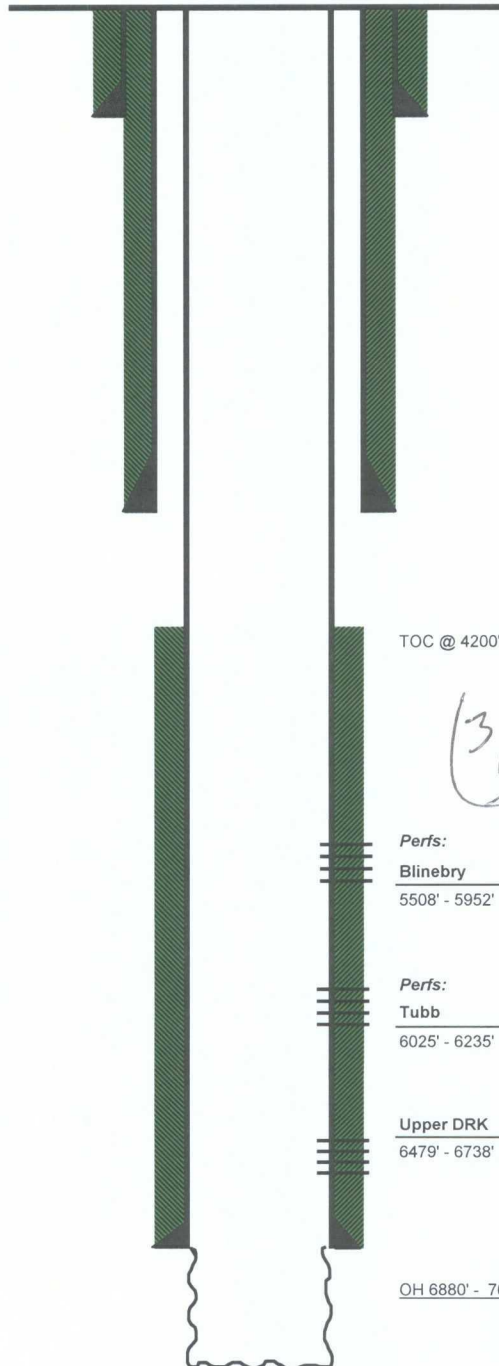
Size: 5 1/2"
 Wt.: 17 & 15.5
 Set @: 6880'
 Sxs Cmt: 500 sxs
 Circ: No
 TOC: 4200' by Calc.
 Hole Size: 7-7/8"

Top of Salt	
Base of Salt	
Top of Yates	
Top of San Andres	
Top of Glorieta	5118'
Top of Blinebry	5498'
Top of Tubb	6103'
Top of Drinkard	6478'

TD: 7071'

Prepared by: C J Haynie
 Date: 4/21/2008

CURRENT



KB: _____
 DF: 3359'
 GL: 3348'
 Spud Date: 1/20/1953
 Compl. Date: 2/26/1953

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

TOC @ 4200' by Calculation

(3,874' or Higher)

Perfs: Status
 Blinebry
 5508' - 5952' 1 JSPF, 169 holes

Perfs: Status
 Tubb
 6025' - 6235' 2 JSPF

Upper DRK
 6479' - 6738'

OH 6880' - 7071' (L DRK)

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

Jones, William V., EMNRD

From: Haynie, Carolyn (CHaynie) [Preferred Personnel] [CHAY@chevron.com]
Sent: Tuesday, July 29, 2008 6:00 AM
To: Jones, William V., EMNRD
Cc: Howell, Mike (MAHO); Lovell, Danny (LOVD)
Subject: SWD Application from Chevron
Attachments: HARRISON B-12 SWD Water Analysis.pdf

Good moning Will,

Below is the water sample for the Harrison B-12. This was requested for the pending Lockhart # 8 SWD.

Thanks,

*Carolyn Haynie
Petroleum Engineer TA
Room 3337
687-7261*

From: Nichols, Dexter [Baker Petrolite]
Sent: Monday, July 28, 2008 1:15 PM
To: Haynie, Carolyn (CHaynie) [Preferred Personnel]; Lovell, Danny (LOVD); Howell, Mike (MAHO)
Subject: FW: SWD Application from Chevron

<<HARRISON B-12 SWD Water Analysis.pdf>>

From: Haynie, Carolyn (CHaynie) [Preferred Personnel] [<mailto:CHAY@chevron.com>]
Sent: Tuesday, July 22, 2008 8:06 AM
To: Jones, William V., EMNRD
Cc: Lovell, Danny (LOVD); Howell, Mike (MAHO)
Subject: SWD Application from Chevron: C.H. Lockhart Federal NCT-1 Well No. 8 API No. 30-025-12131 Unit P, Sec 18, T22S R38E

Will,

For your information and update, there is not a water well within 1 mile of the Lockhart, so Danny Lovell, Chevron's Eunice Operations Supervisor, is requesting a test 250' West of the Harrison #12. I'll send you the results when it's available.

Thanks,
*Carolyn Haynie
Petroleum Engineer TA
Room 3337
687-7261*

From: Lovell, Danny (LOVD)
Sent: Thursday, July 17, 2008 1:33 PM
To: Howell, Mike (MAHO)
Cc: Haynie, Carolyn (CHaynie) [Preferred Personnel]
Subject: RE: SWD Application from Chevron: C.H. Lockhart Federal NCT-1 Well No. 8 API No. 30-025-12131 Unit P, Sec 18, T22S R38E

Hollis checked and there is no water well within 1 mile of the Lockhart well. There is one 250' west of the Harrison #12. Do you want me to take the sample to Cardinal labs? Thanks

7/29/2008

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 MID CONTINENT LP	Sales RDT:	44218
Region:	PERMIAN BASIN	Account Manager:	DEXTER NICHOLS (505) 390-4356
Area:	EUNICE, NM	Sample #:	380592
Lease/Platform:	HARRISON LEASE	Analysis ID #:	83867
Entity (or well #):	B 12 SWD	Analysis Cost:	\$80.00
Formation:	UNKNOWN		
Sample Point:	FRESH WATER		

Summary		Analysis of Sample 380592 @ 75 °F					
Sampling Date:	07/22/08	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	07/25/08	Chloride:	117.0	3.3	Sodium:	156.9	6.82
Analyst:	STACEY SMITH	Bicarbonate:	230.0	3.77	Magnesium:	25.0	2.06
TDS (mg/l or g/m3):	786.6	Carbonate:	6.0	0.2	Calcium:	47.0	2.35
Density (g/cm3, tonne/m3):	1.001	Sulfate:	198.0	4.12	Strontium:	1.0	0.02
Anion/Cation Ratio:	1.0000003	Phosphate:			Barium:	0.1	0.
		Borate:			Iron:	0.1	0.
		Silicate:			Potassium:	5.5	0.14
					Aluminum:		
Carbon Dioxide:		Hydrogen Sulfide:			Chromium:		
Oxygen:		pH at time of sampling:			Copper:		
Comments:		pH at time of analysis:		8.44	Lead:		
		pH used in Calculation:		8.44	Manganese:	0.025	0.
					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	0.87	8.06	-1.57	0.00	-1.64	0.00	-1.54	0.00	0.57	0.00	0.01
100	0	0.92	9.46	-1.57	0.00	-1.57	0.00	-1.52	0.00	0.43	0.00	0.02
120	0	0.99	11.56	-1.56	0.00	-1.48	0.00	-1.49	0.00	0.32	0.00	0.03
140	0	1.07	13.66	-1.53	0.00	-1.37	0.00	-1.44	0.00	0.24	0.00	0.04

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

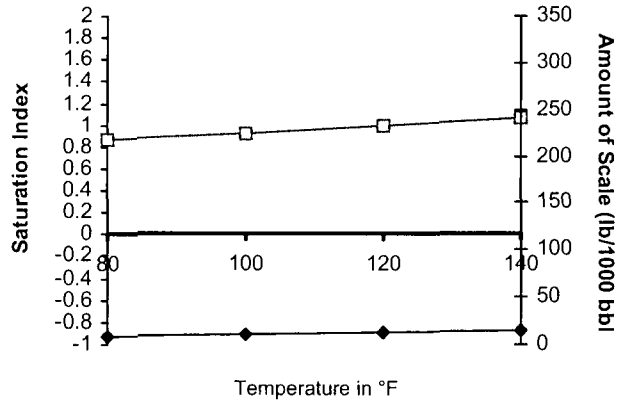
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

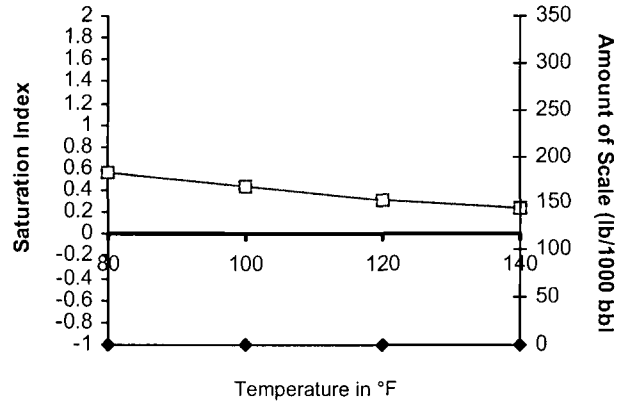
Scale Predictions from Baker Petrolite

Analysis of Sample 380592 @ 75 °F for CHEVRON MID CONTINENT LP, 07/25/08

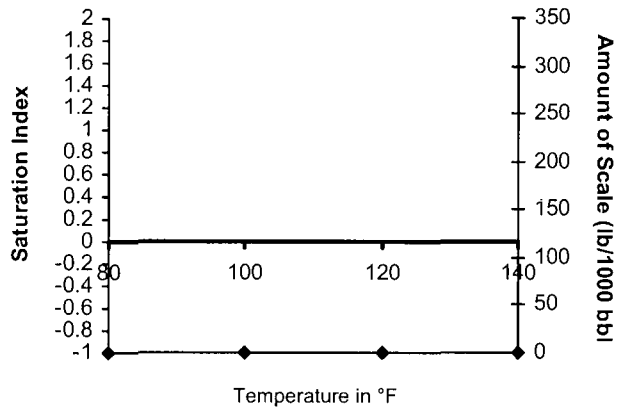
Calcite - CaCO_3



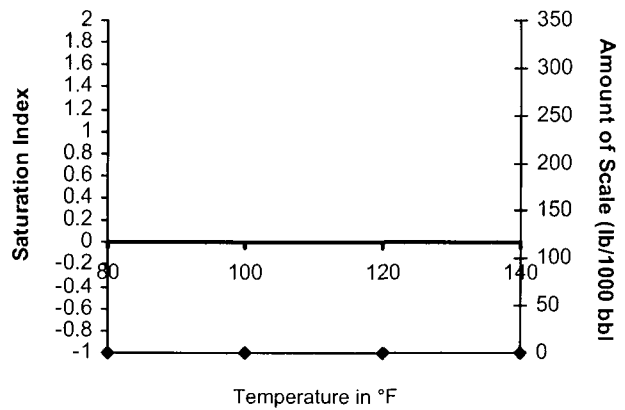
Barite - BaSO_4



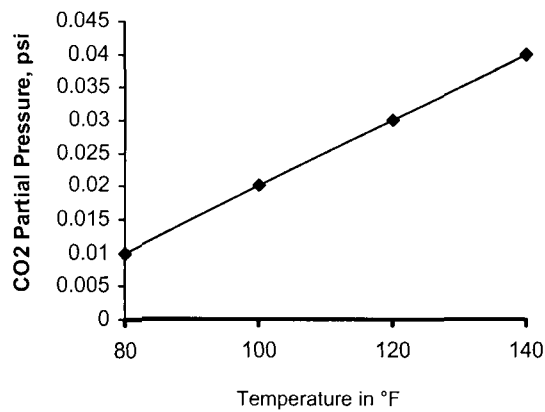
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



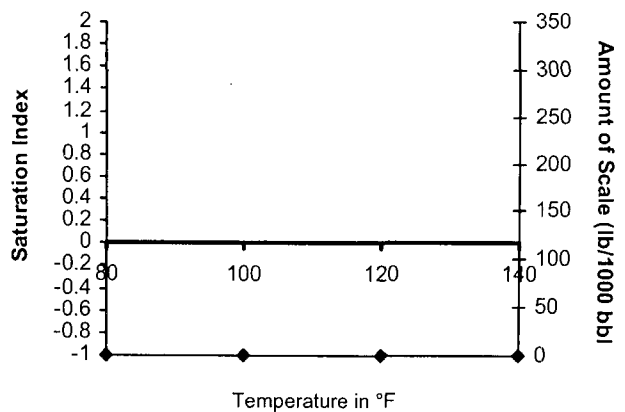
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

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

May 3 2008
and ending with the issue dated

May 3 2008

Kathi Bearden

PUBLISHER

Sworn and subscribed to before

me this 5th day of

May 2008
[Signature]

Notary Public.

My Commission expires
February 07, 2009

(Seal)



OFFICIAL SEAL
DORA MONTZ
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires: _____

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

LEGAL NOTICE

May 3, 2008

Notice is hereby given of the application of CHEVRON
U.S.A. INC. 15 Smith Road, Midland, TX 79705, Carolyn
Haynie, (432) 687-7261, to the Oil Conservation Division,
New Mexico Energy, Minerals and Natural Resources De-
partment, for the approval of the following injection well to
be converted for the purpose of water disposal.

From: C.H. Lockhart Federal NCT-1 #8 Injection Well:

To: C.H. Lockhart Federal NCT-1 #8 Salt Water Disposal
well API-30-025-12131.
Located: 660' FSL & 660' FEL
Sec 18-T22S-R38E, Unit P, Lea Co., NM

The injection formation is the San Andres located between
the interval of 4200' MD to 5000' MD, below the surface of
the ground. Expected maximum injection rate will be 5000
barrels per day and the expected injection pressure is 1500
PSI.

Interested parties should file objections or requests for
hearing with the Oil Conservation Division, 1220 South
St. Francis Drive, Santa Fe, New Mexico, 87505, within
15 days of this notice.

#24039

01102480000

02599982

CHEVRON USA INC.
15 SMITH ROAD
MIDLAND, TX 79705



Carolyn Haynie
Petroleum Engineering
Technical Assistance

Permian Business Unit
Chevron U.S.A. Inc.
15 Smith Road
Midland, TX 79705
Tel 432-687-7261
Fax 432-687-7558
chay@chevron.com

May 19, 2008

C.H. LOCKHART FEDERAL (NCT-1) # 8,
CONVERT TO SALT WATER DISPOSAL
LEA COUNTY, NEW MEXICO

Offset Operators:

For your information, Chevron USA Inc. as operator, filed an application with the New Mexico Oil Conservation Division to convert the C.H. Lockhart Federal (NCT-1) # 8, from a TA'd Drinkard formation Injection well, to a San Andres Salt Water Disposal well, located in Sec. 18, Unit Letter P, T22S, R38E, Lea County, NM.

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 C.H. Lockhart Federal (NCT-1) # 8, in relation to your offset operations.

Any objections to this conversion must be sent to the **New Mexico Oil Conservation Division; 1220 South St. Francis Drive; Santa Fe, NM 87504**, within 15 days of receipt of this notification.

If you require additional information, please contact me, by telephone at 432-687-7261, or by email at: chay@chevron.com.

Sincerely,

A handwritten signature in cursive script that reads "Carolyn Haynie".

Carolyn Haynie
NM PE Technical Assistant

Enclosure

cc: Lease file

OFFSET OPERATORS

**ENDURA ENERGY
P.O. BOX 1637
HOBBS, NM 88240**

**MEWBOURNE OIL CO.
211 N. ROBINSON AVE. SUITE 2000
OKLAHOMA CITY, OK 73102**

**ETL HYDROCARBON
P.O. BOX 1413
ANDREWS, TX 79714**

**HANSON OPERATING CO.
P.O. BOX 1515
ROSWELL, NM 88202-1515**



Carolyn Haynie
Petroleum Engineering
Technical Assistance

Permian Business Unit
Chevron U.S.A. Inc.
15 Smith Road
Midland, TX 79705
Tel 432-687-7261
Fax 432-687-7558
chay@chevron.com

May 19, 2008

Re: C.H. LOCKHART FEDERAL (NCT-1) # 8,
CONVERT TO SALT WATER DISPOSAL
LEA COUNTY, NEW MEXICO

S & D Ranch LLC
P.O. BOX 186
ENICE, NM 88231
(Surface Owner)

For your information, Chevron USA Inc. as operator, filed an application with the New Mexico Oil Conservation Division to convert the C.H. Lockhart Federal (NCT-1) # 8, from a TA'd Drinkard formation Injection well, to a San Andres Salt Water Disposal well, located in Sec. 18, Unit Letter P, T22S, R38E, Lea County, NM.

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If you require additional information, please contact me, by telephone at 432-687-7261, or by email at: chay@chevron.com.

Sincerely,

A handwritten signature in cursive script that reads "Carolyn Haynie".

Carolyn Haynie
NM PE Technical Assistant

Enclosure

cc: Lease file

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Tuesday, July 08, 2008 2:10 PM
To: 'Haynie, Carolyn (CHaynie) [Preferred Personnel]'
Cc: Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Warnell, Terry G, EMNRD
Subject: SWD Application from Chevron: C.H. Lockhart Federal NCT-1 Well No. 8 API No. 30-025-12131 Unit P, Sec 18, T22S R38E

Hello Carolyn:

After reviewing your application, I have the following comments and requests:

- 1) Is S&D Ranch the surface owner? Our system says that the surface is Fee and the subsurface is Fed near this wellbore
- 2) Please send copies of all electric logs run on this well including CBL or temp surveys to the Hobbs district office for scanning into the online system.
- 3) Please obtain a recent Fresh Water sample and analysis from any windmill or domestic waterwell in this area and send here for inclusion in this application. If none is available within 1 mile, say so.
- 4) Please send a statement as per item XII on C-108 signed by a geologist.
- 5) Q for the Geo: Why is the San Andres not productive here in this area? Do you have evidence of this? Is the proposed injection interval "lower" San Andres and therefore more likely to be wet?
- 6) For the Completions Engineer:
 - a) As you know, if you want additional injection pressure in this well more than the standard: 0.2 psi/foot, then run a Step Rate Test and apply for more pressure.
 - b) The permit will require another CIBP to be set within 200 feet of the lowermost injection perforation. However, if the well has already been perfed in the San Andres and tubing run, let us know?

RULE 40 appears fine - thanks for this!!!

I really liked your wellbore diagrams and the data you put on them - thank you. Let me know what software you used?

Regards,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

7/8/2008

SWD Order Number 1138 Dates: Division Approved _____ District Approved _____Well Name/Num: GA Lockhart Field (NCT-1) #8 Date Spudded: 5/15/59API Num: (30-) 025-1231 County: LeeFootages 660 FSL/660 FEL Sec 18 Tsp 225 Rge 38EOperator Name: Chevron USA, INC Contact Carolyn HagieOperator Address: 15 Smith Road, Midland, TX 79705Current Status of Well: was DRINKING (Now Treated) Planned Work: convert to SA by SWD Inj. Tubing Size: 27/8 @ 4250'

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	17 1/2 13 3/8		550	CIRC
Intermediate	12 1/4 8 5/8		1200	CRC
Production	7 7/8 5 1/2	7700'	650	3130 T.S.
Last DV Tool		(+ SQZED CSG LAR @ 2910')		
Open Hole/Liner				
Plug Back Depth				

Diagrams Included (Y/N): Before Conversion ☒ After Conversion ☒Checks (Y/N): Well File Reviewed ☒ ELogs in Imaging None - send logs

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Detach			
Capitan Reef			
Gulf House, Etc.			
Formation Above	4008	SA TOP	
Top Inj Interval	4340	SA	
Bottom Inj Interval	4935	SA	
Formation Below	5202	GLORIA TOP	

868 PSI Max. WHIP

NO Open Hole (Y/N)

NO Deviated Hole (Y/N)

Fresn Water: Depths: _____ Wells(Y/N) 1 Analysis included (Y/N): _____ Affirmative Statement XIISalt Water Analysis: Injection Zone (Y/N/NA) _____ Disp Waters (Y/N/NA) _____ Types: PDX, Blue, Tubbs, PRK, ABONotice: Newspaper(Y/N) ☒ Surface Owner BLM Mineral Owner(s) BLMOther Affected Parties ETL HYD. / Enduro Energy / Meubon / Homan op / S & D RanchAOR/Repairs: NumActiveWells 9 Repairs? NO Producing in Injection Interval in AOR _____AOR Num of P&A Wells 3 Repairs? NO Diagrams Included? _____RBDMS Updated (Y/N) ☒Well Table Adequate (Y/N) ☒ AOR STRs: Sec _____ Tsp _____ Rge _____UIC Form Completed (Y/N) ☒

New AOR Table Filename _____ Sec _____ Tsp _____ Rge _____

This Form completed ☒

Conditions of Approval: Sec _____ Tsp _____ Rge _____

Data Request Sent ☒

Set CBP w/in 200' of 4935'

Record Perf. Flow Level & report

if more pressure is needed, Run S.R.T.

AOR Required Work: XII

Required Work to this Well: _____